

QUAD COMBO LOG

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Service Ticket No.: DUAL904334094						API No.: 15081221640000						PGM Version: WL INSITE R5.0.5 (Build 8)					
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		NONE		CENT		N/A	
Rmc @ Meas. Temp.			@			@				I-11055059							
Source Rmf	Rmc							S-11038385									
Rm @ BHT			@			@											
Rmf @ BHT			@			@											
Rmc @ BHT			@			@											
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE			
Serial No.		11021139		Serial No.		10939049		Serial No.		10809130		Serial No.		11020487			
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT			
Diameter		3.625"		No. of Cent.		2		Diameter		6.1"		Diameter		3.625"			
Detector Model No.		GTET		Spacing		0.5"		Log Type		GAM-GAM		Log Type		NEU-NEU			
Type		SCINT						Source Type		Cs-137		Source Type		DSN-436			
Length		8"		LSA [Y/N]				Serial No.		5155GW		Serial No.		DSN-436			
Distance to Source		N/A		FWDA [Y/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	TD	CSG	REC	0	150	30	-10	47.6 us/ft	30	-10	2.71 g/cc	30	-10	LIME			

DIRECTIONAL INFORMATION														
Maximum Deviation @										KOP @				
CLIENT REPORTED VERTICAL WELL														
Remarks: GTET-DSNT-SDLT-FLEX-BSAT-ACRT RUN IN COMBINATION														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
POROSITY & MICROLOG LOGGED TO 4000' AS PER CLIENT REQUEST														
CHLORIDES REPORTED AT 1200 PPM														
NO POST-CALS COMPLETED AS PER CLIENT REQUEST														
RIG: DUKE DRILLING RIG 9														
CREW: J. WOOD, K. GATLIN														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES -- EL RENO, OK -- 405.278.9685														
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														



Plot Time: 01-Oct-17 17:16:46

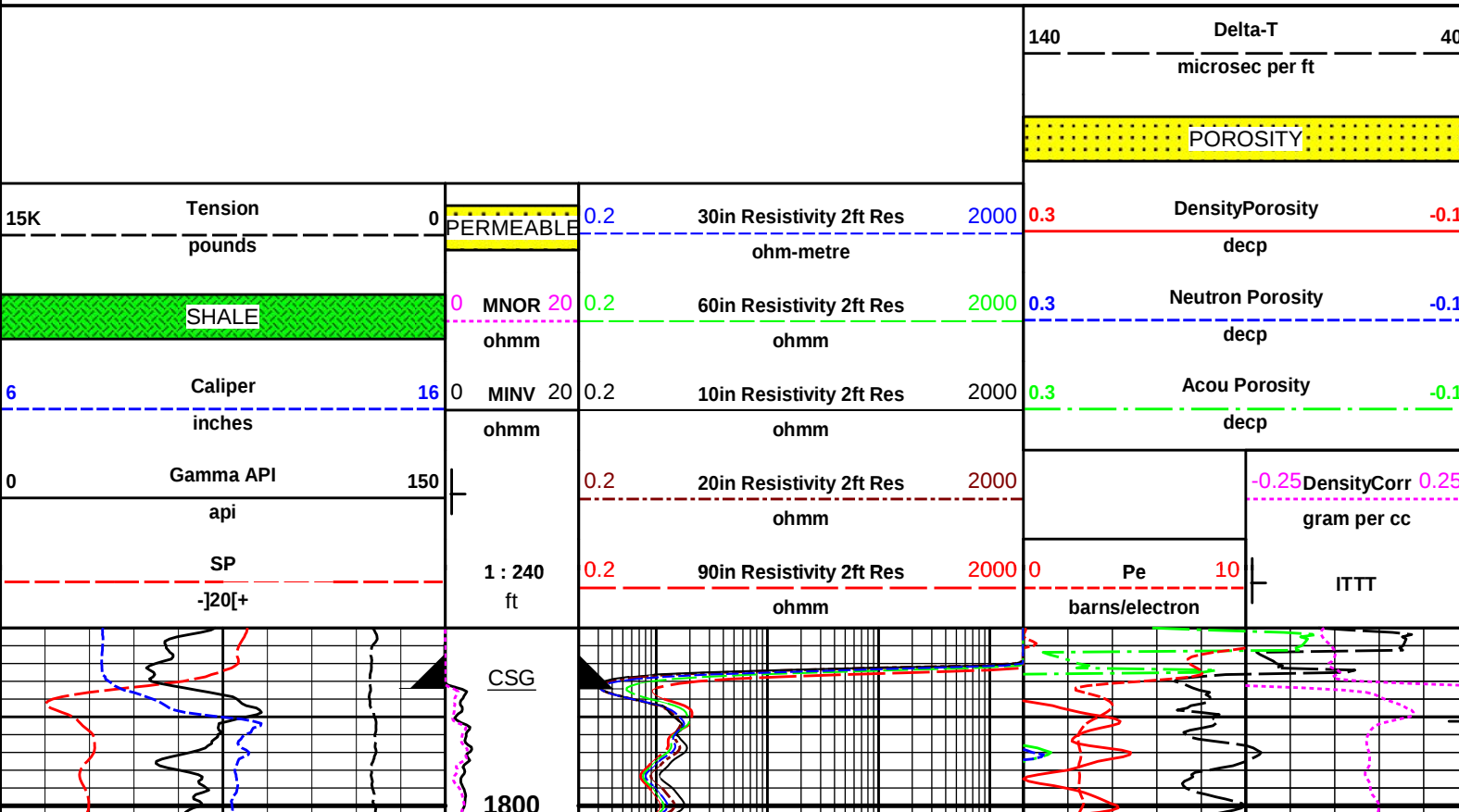
Plot Range: 1780 ft to 5589.17 ft

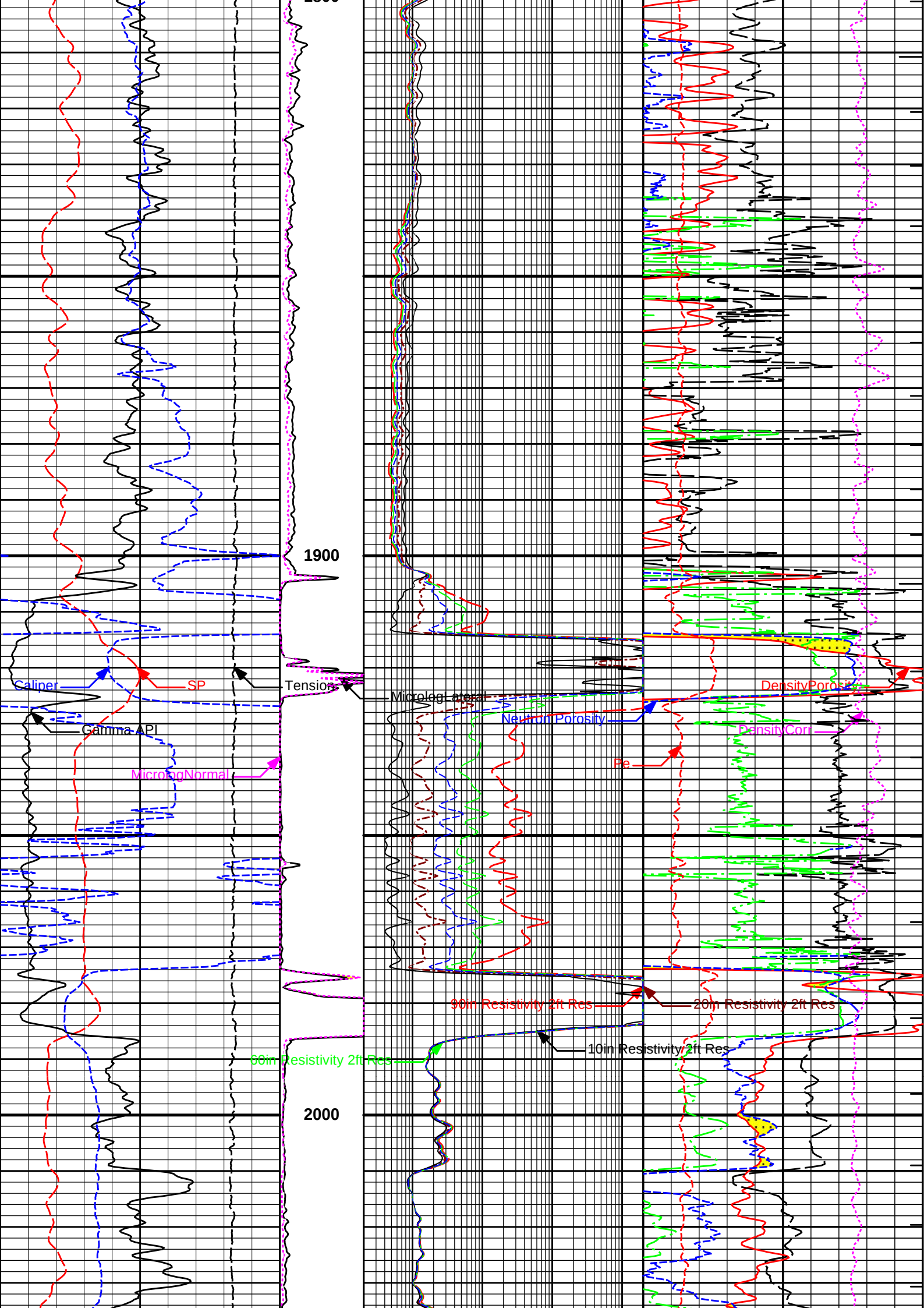
Data: MERIT_KELLS I-1\Well Based\MAIN\

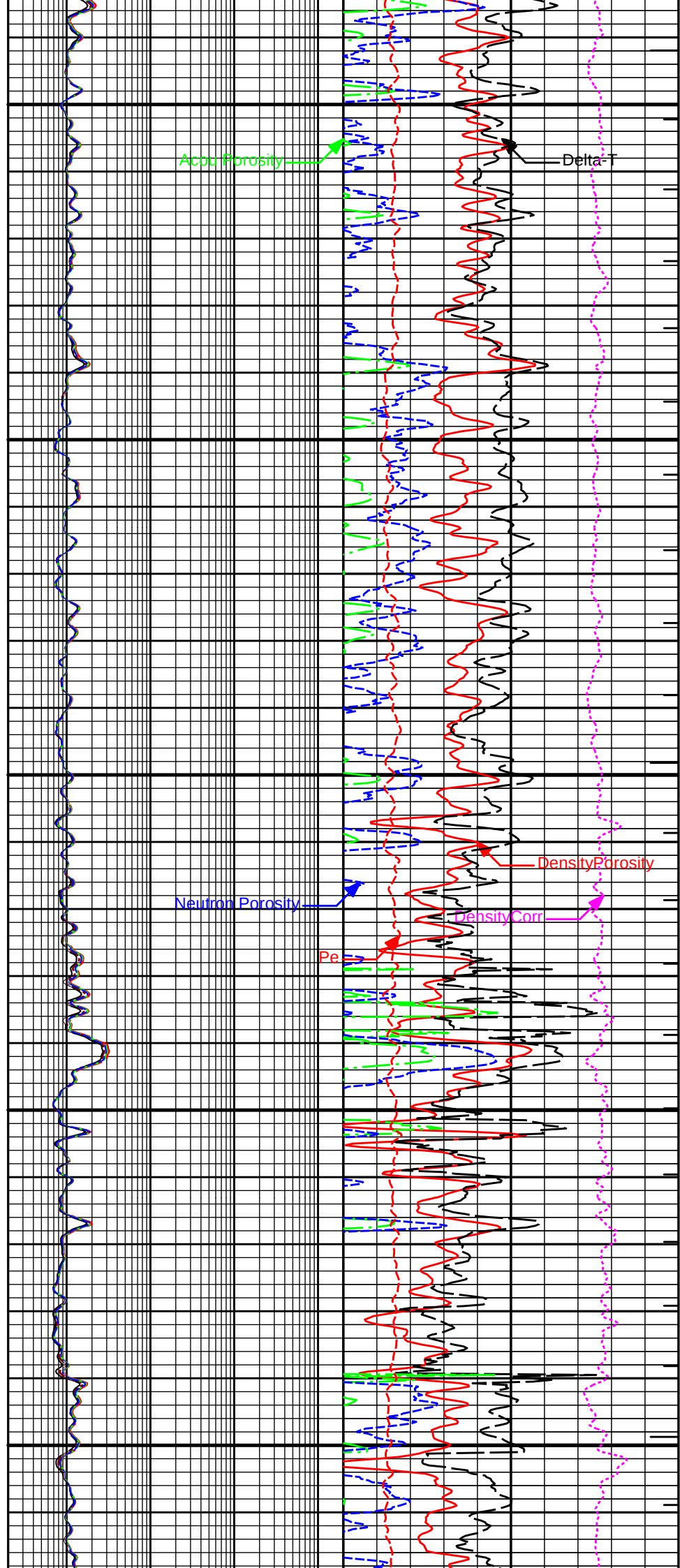
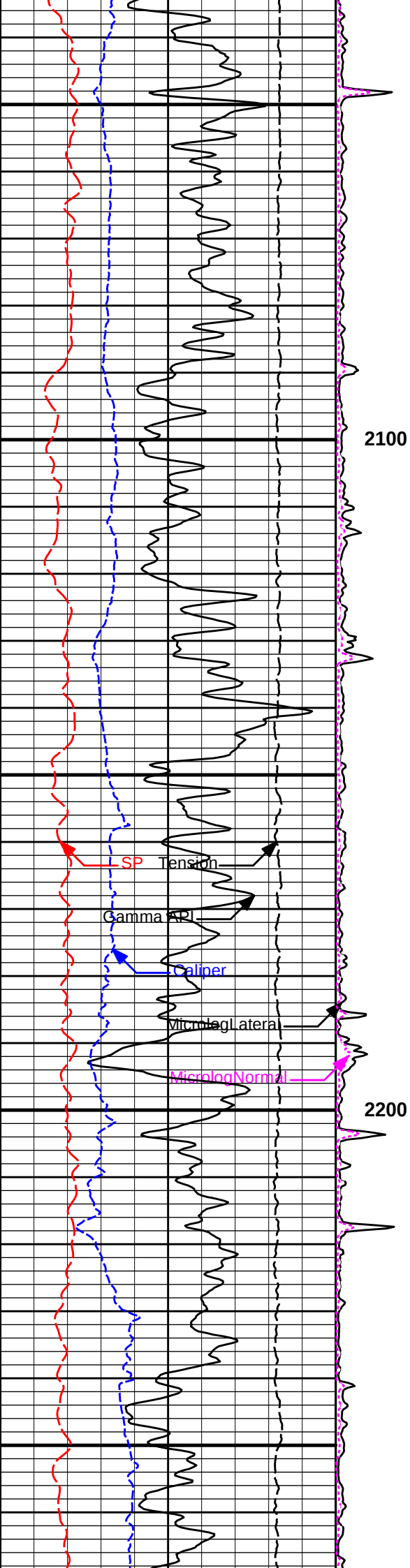
Plot File: \\QUAD\ACRT-SDL-DSN-ML-BSAT

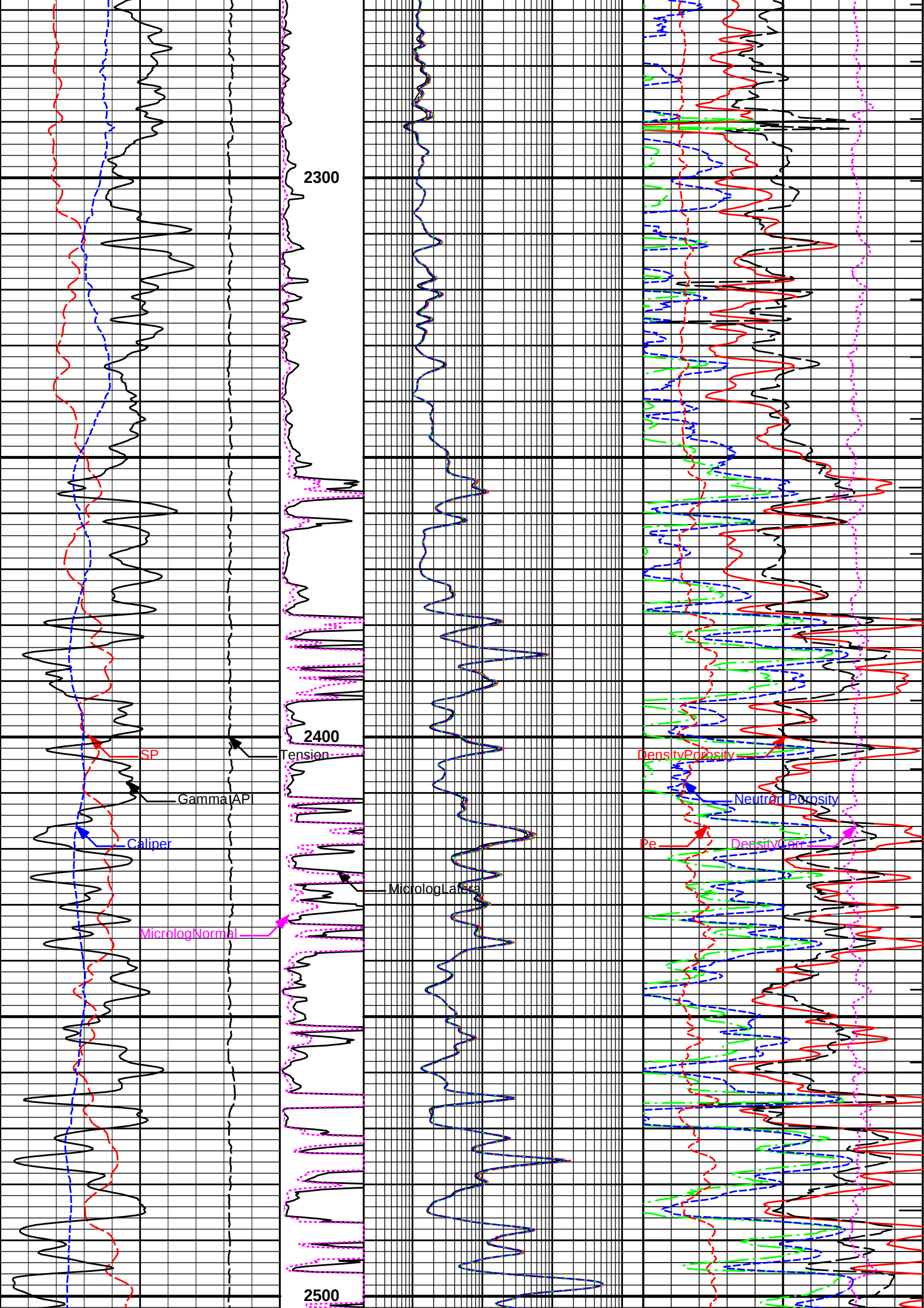
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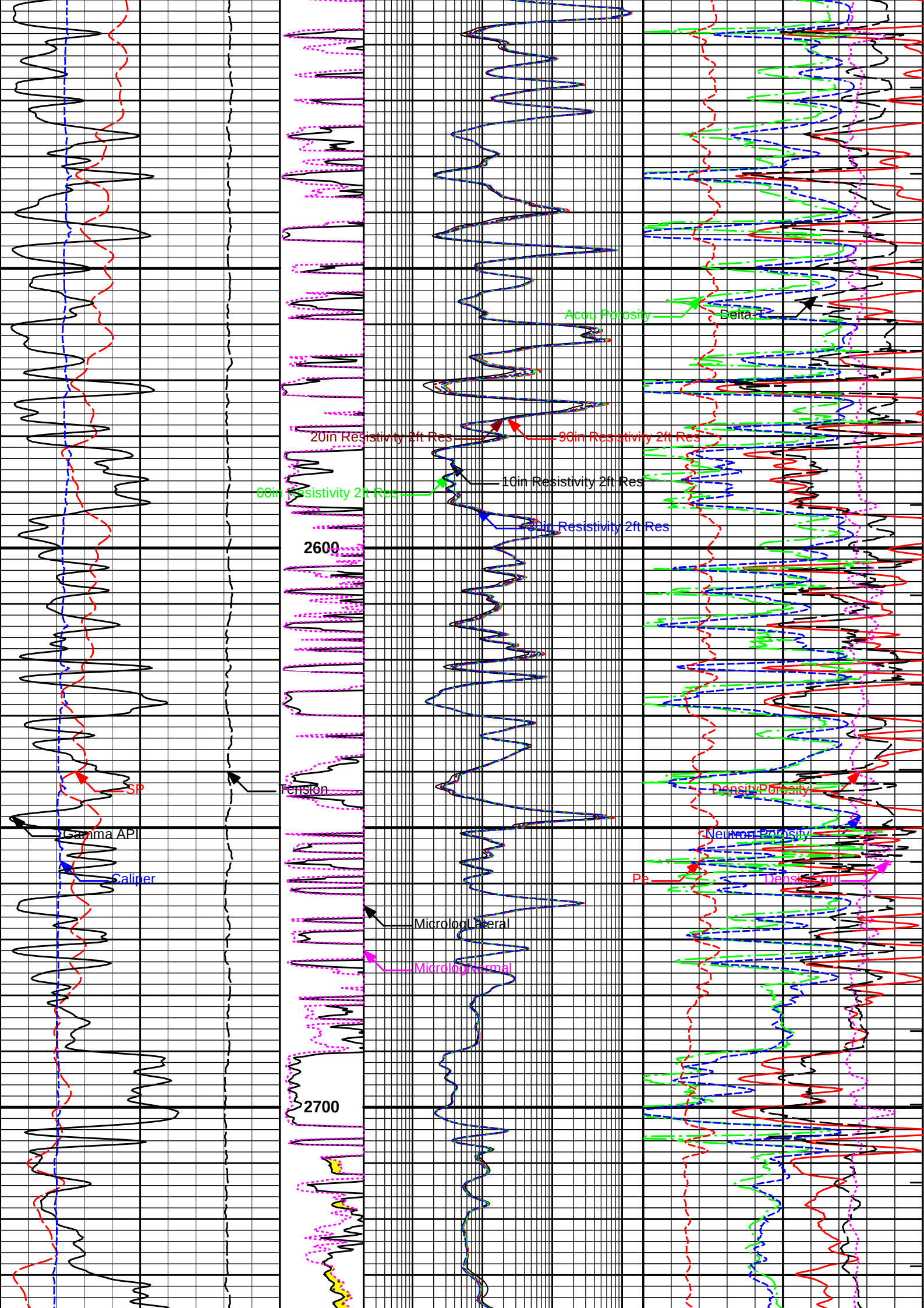
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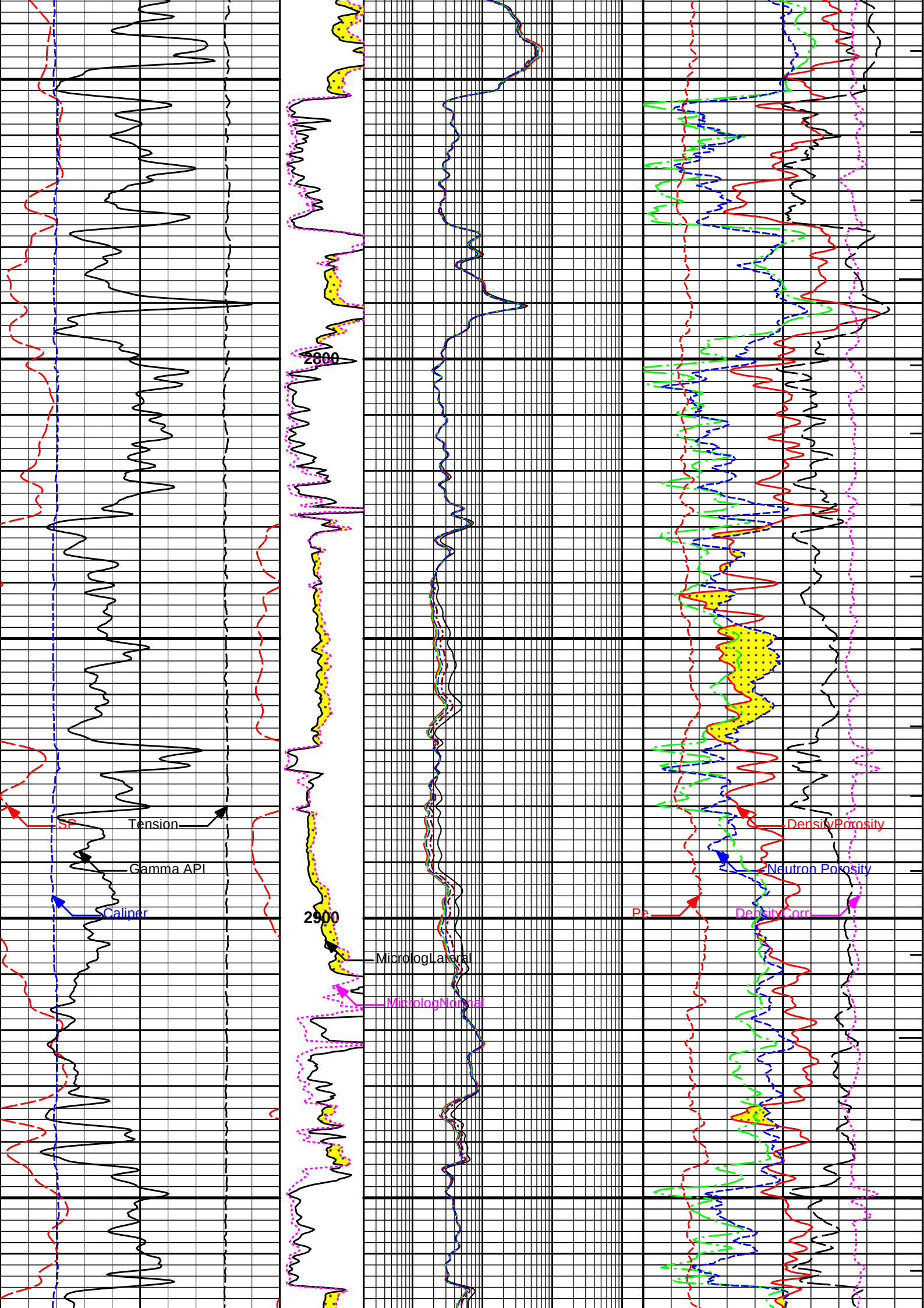


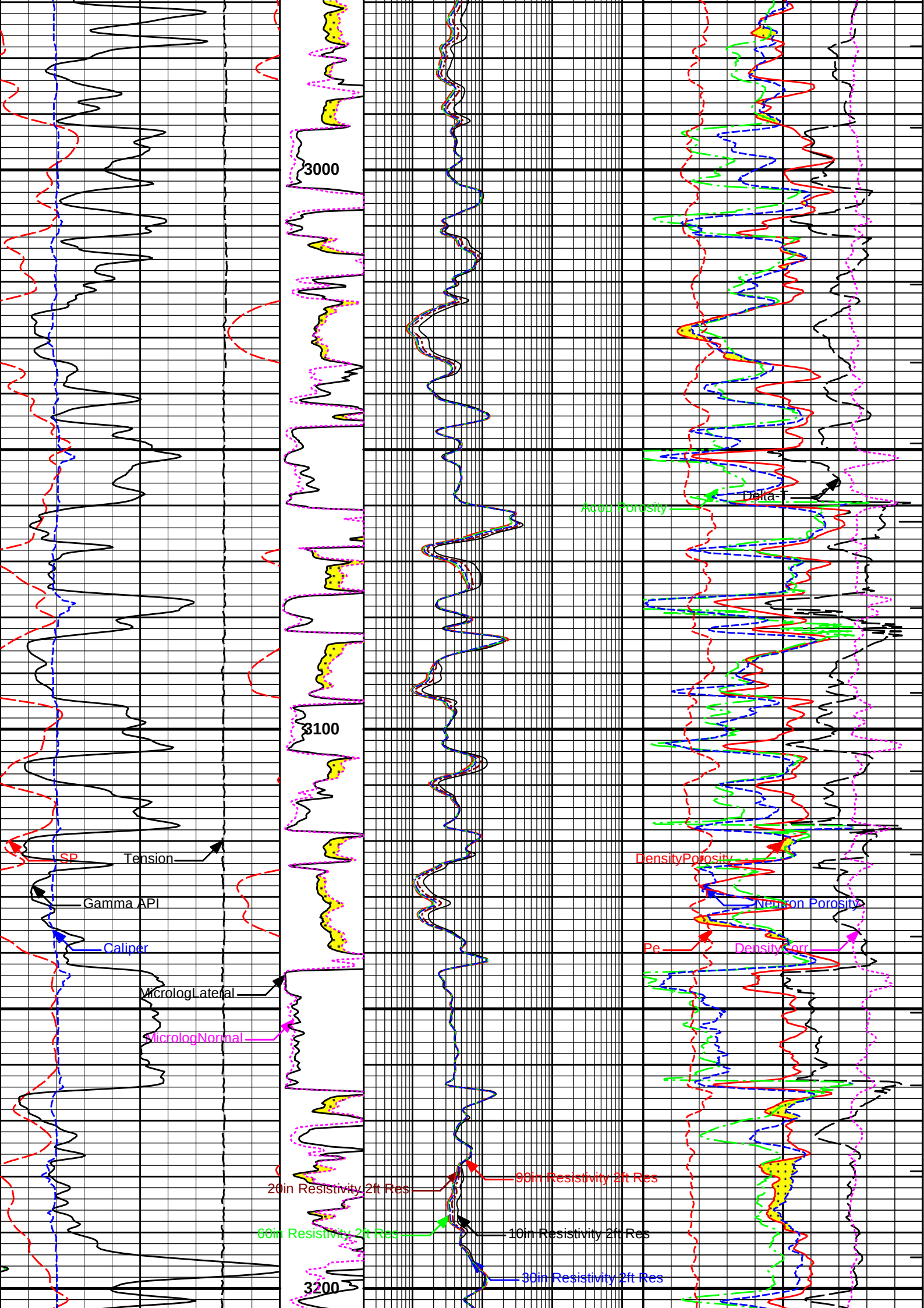


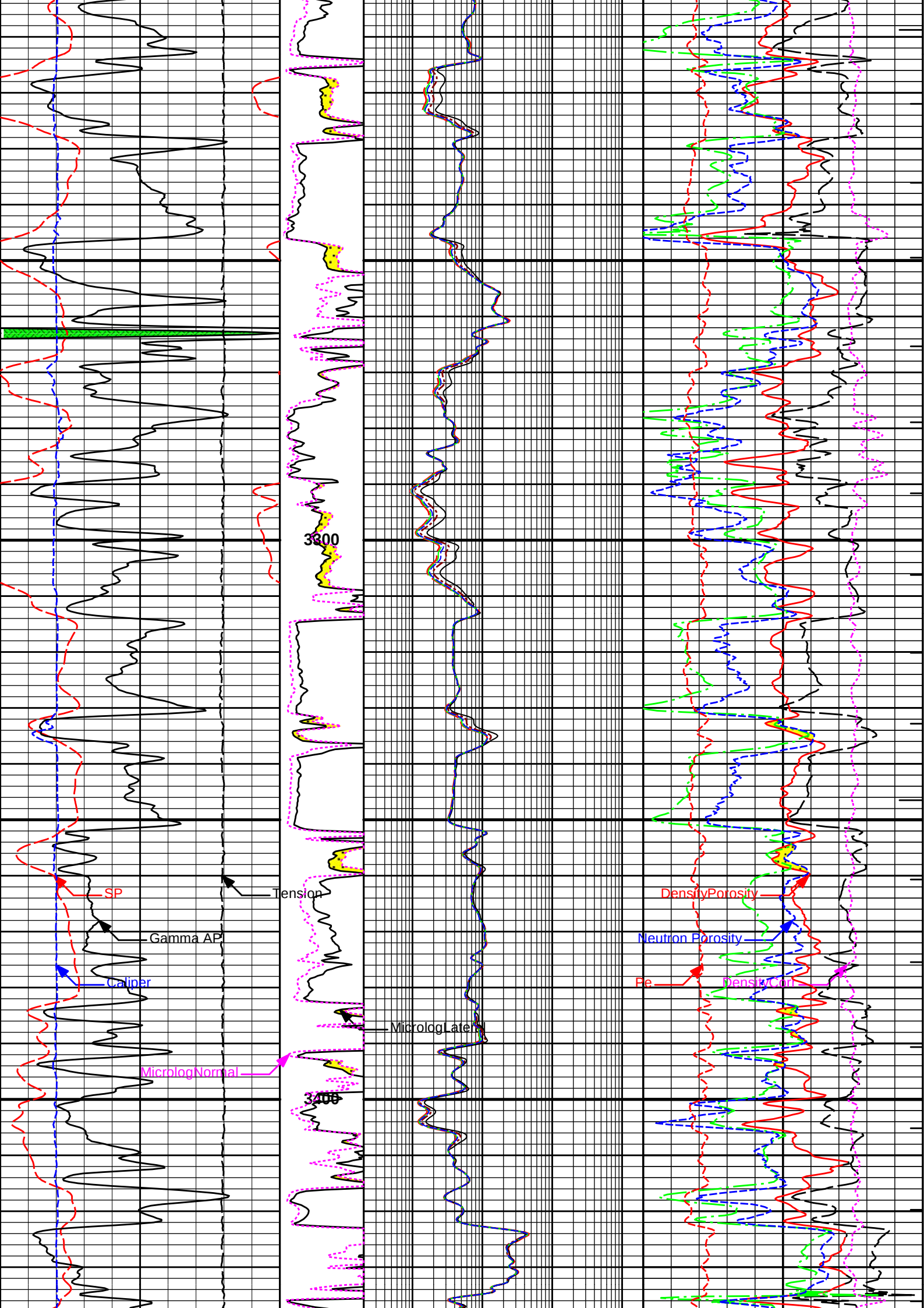


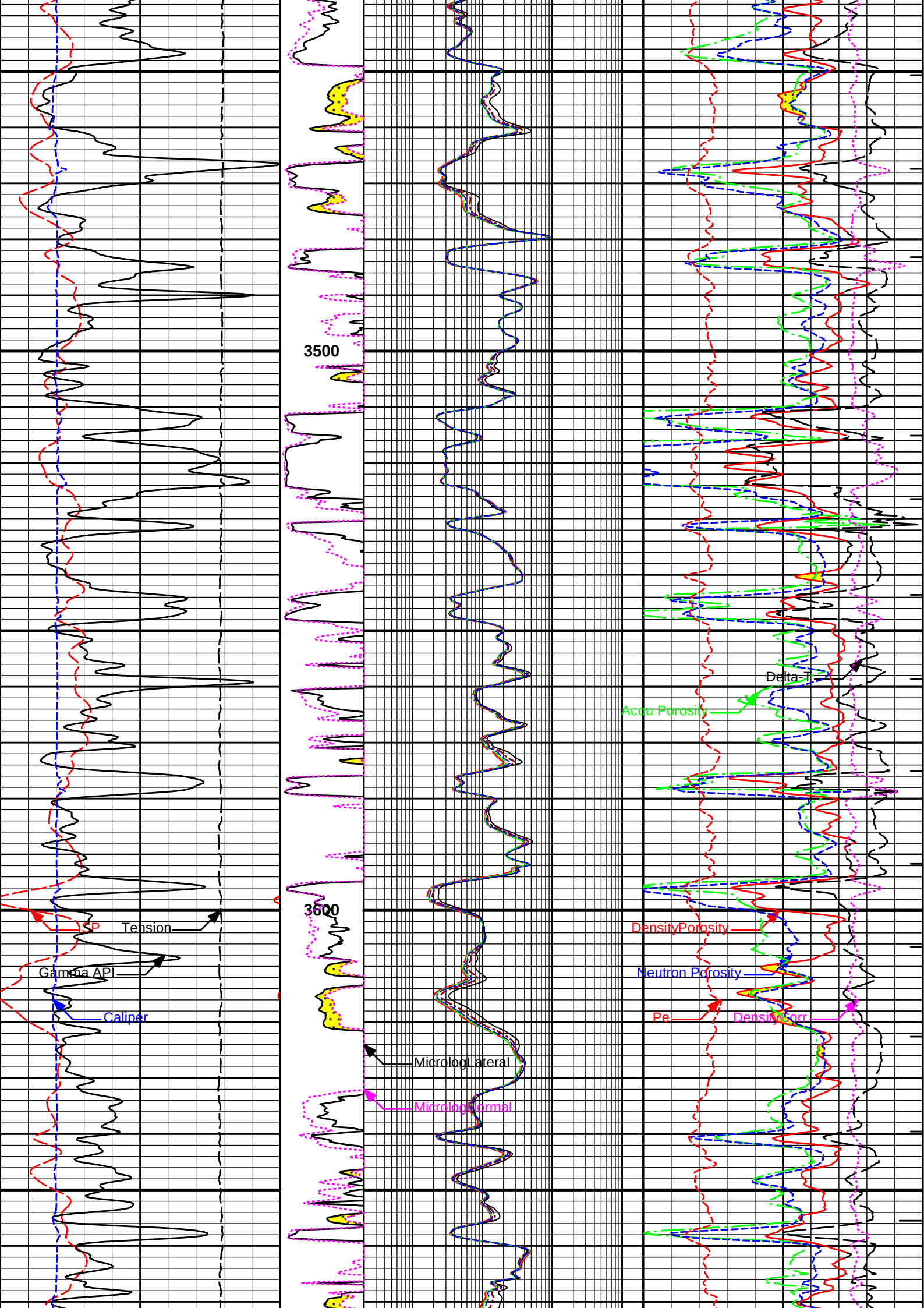


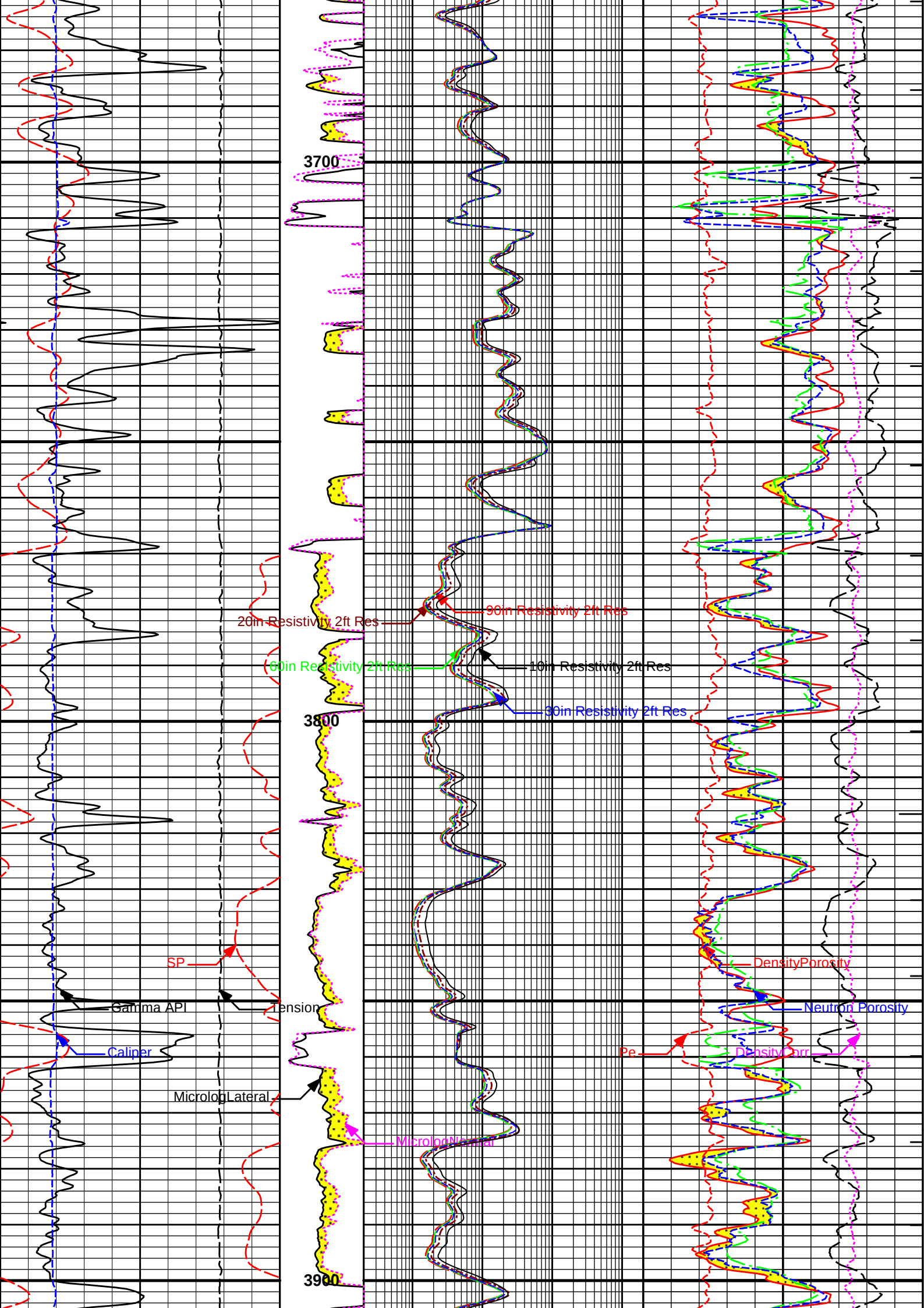


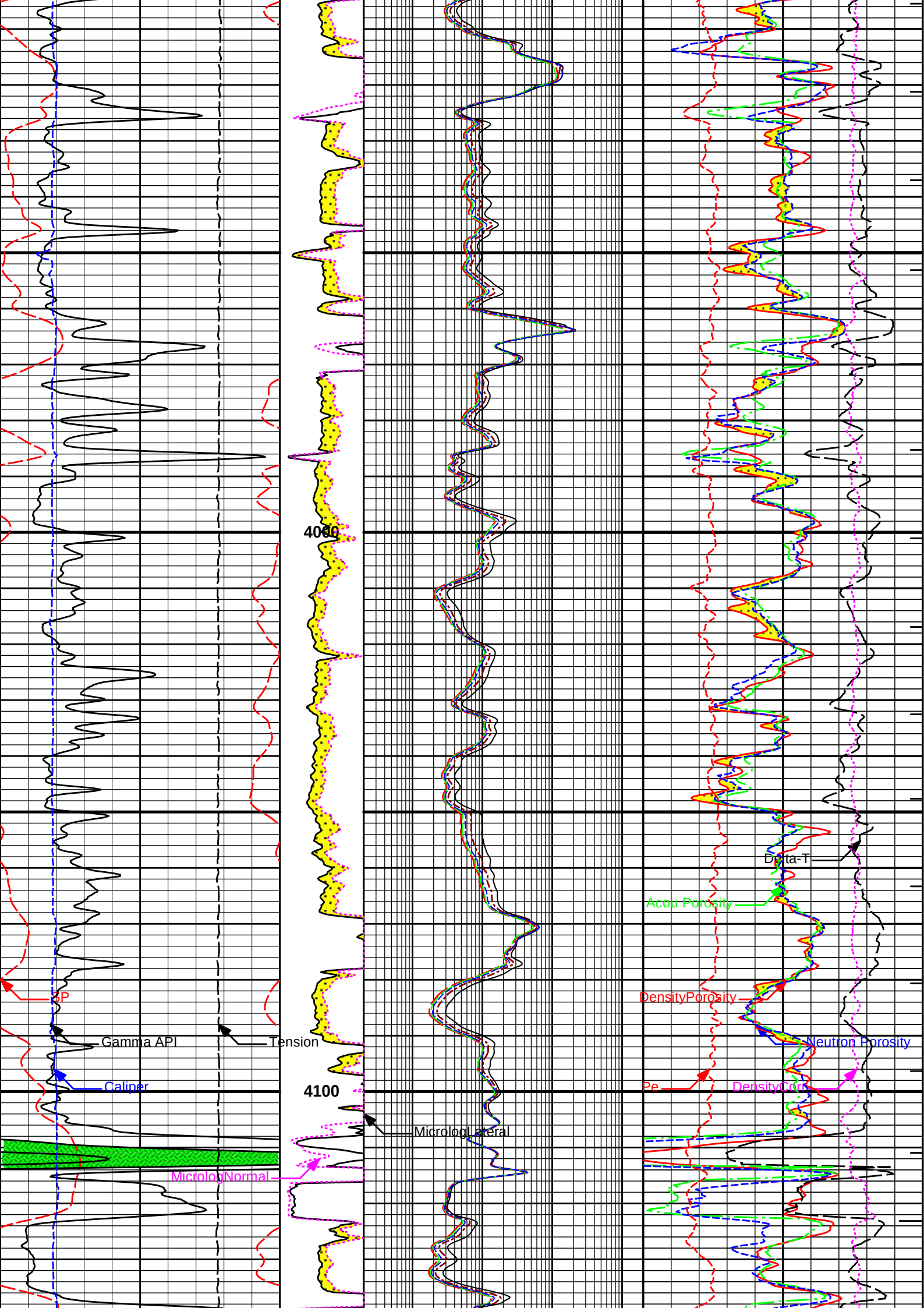


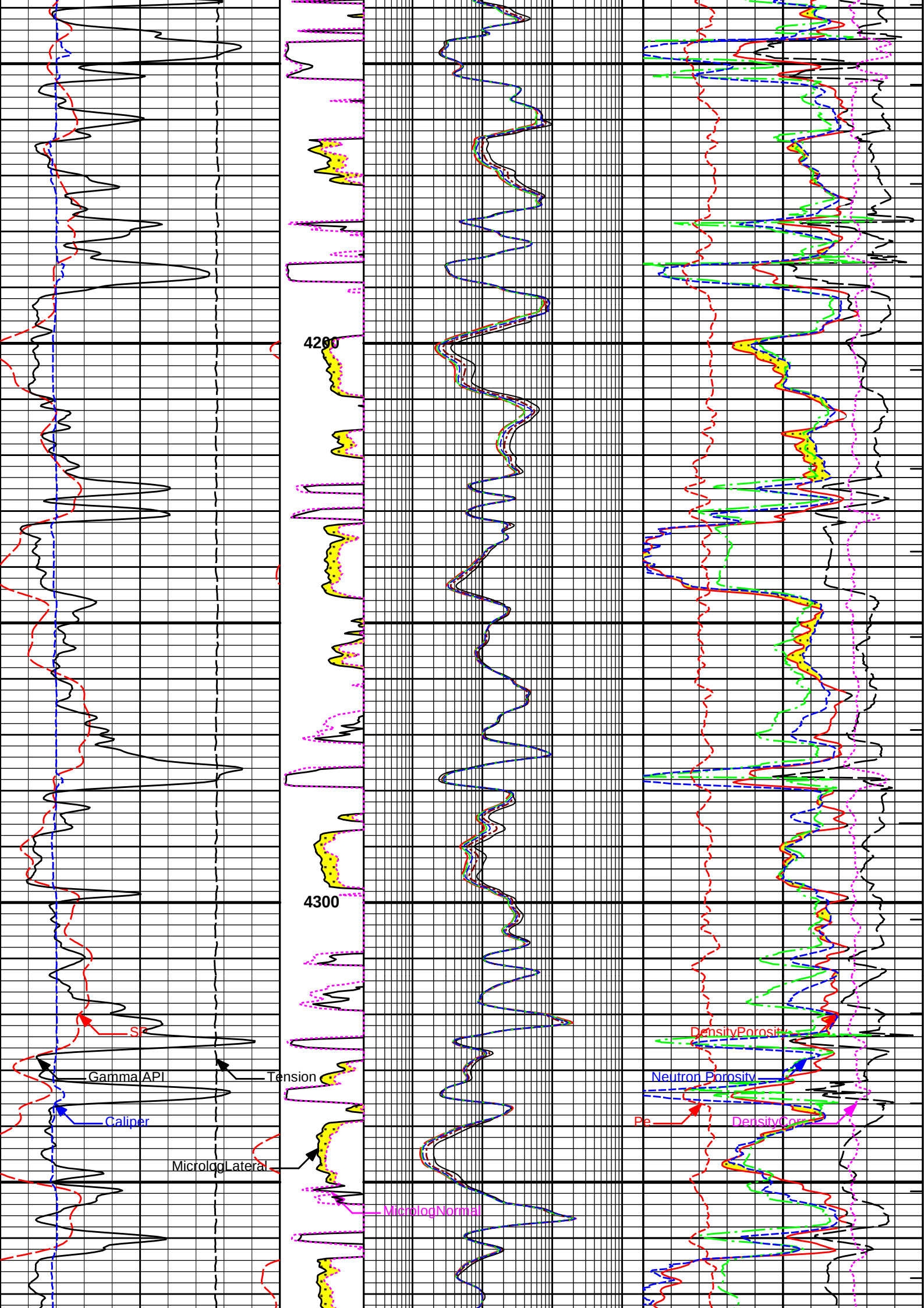


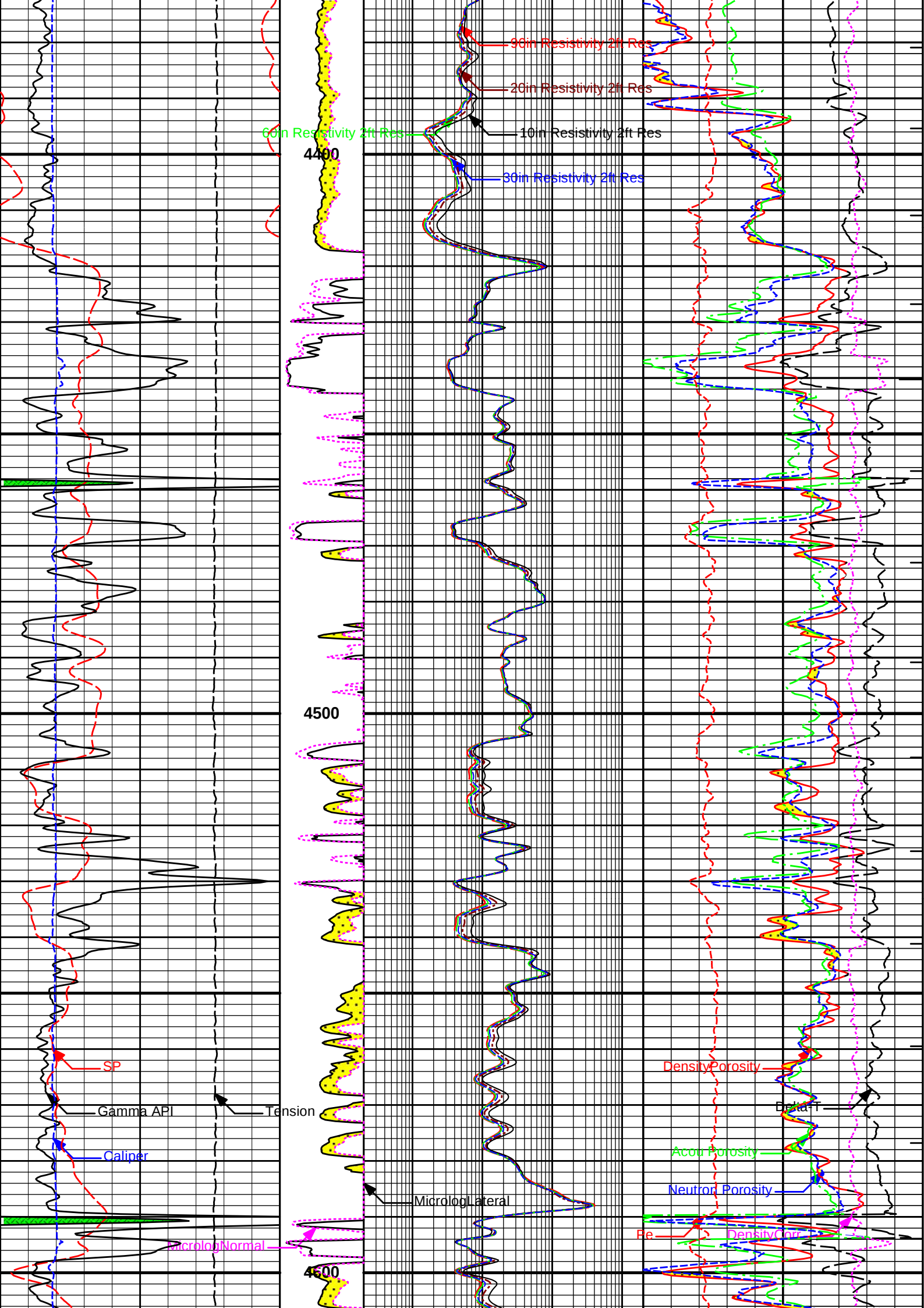


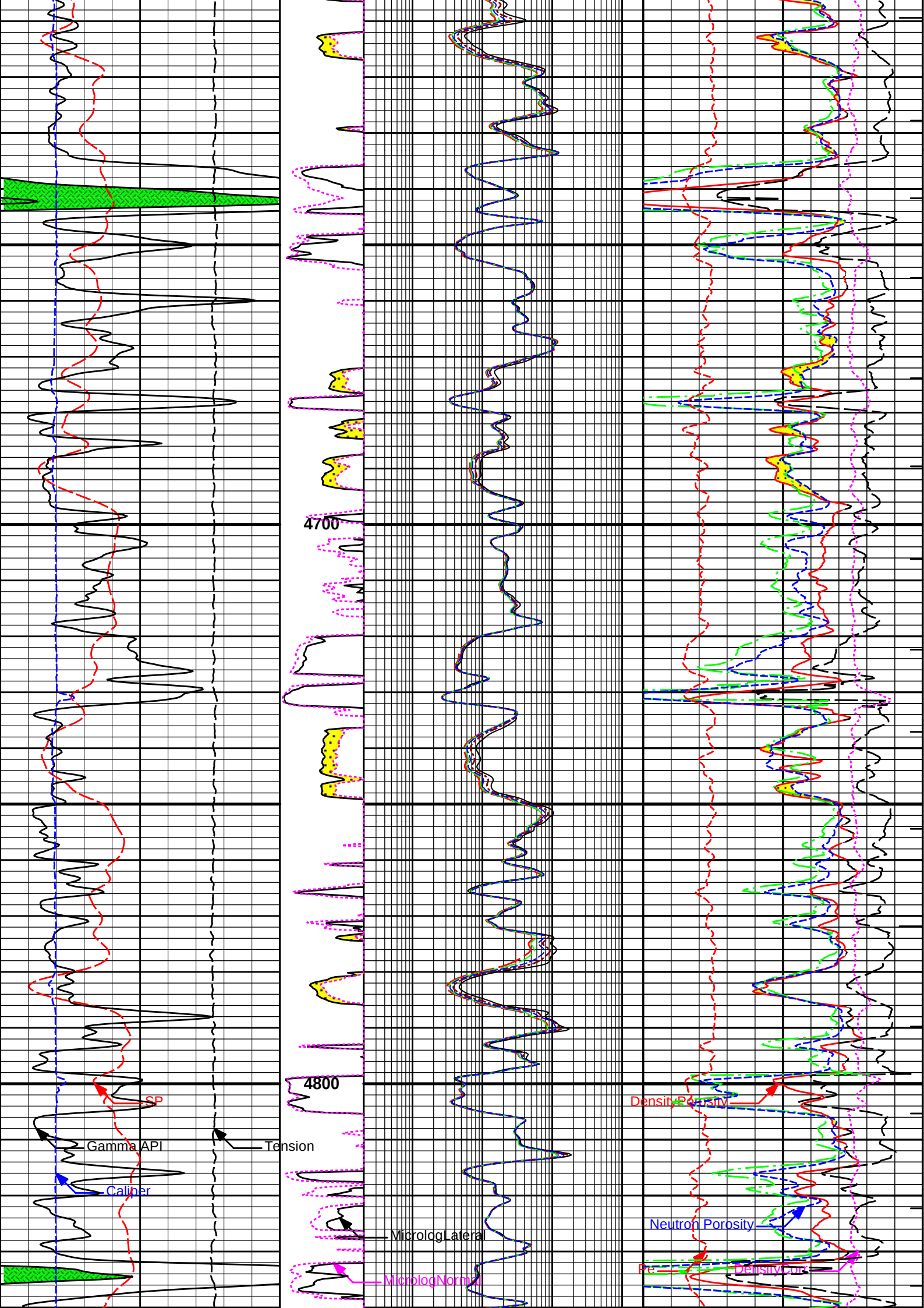


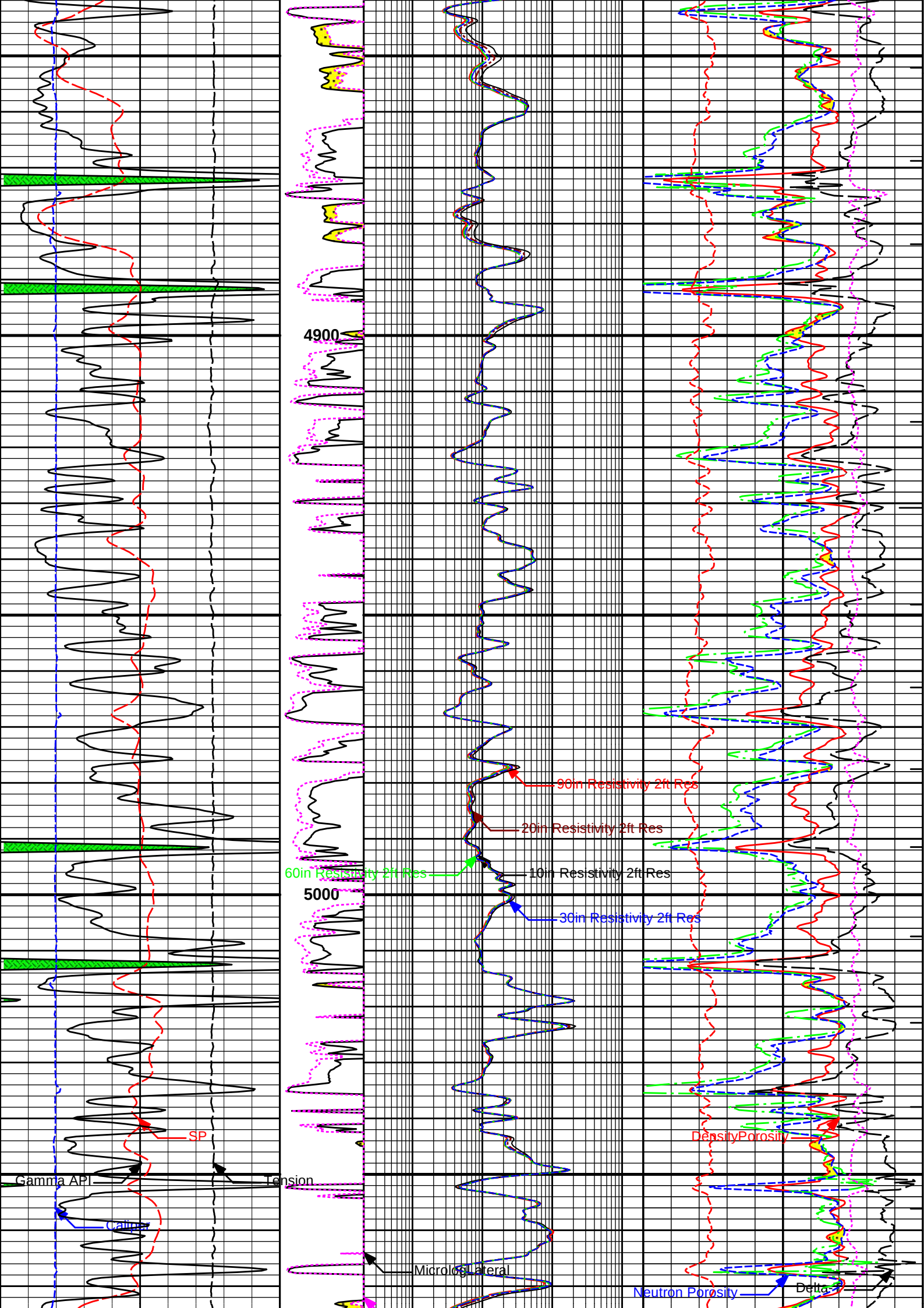


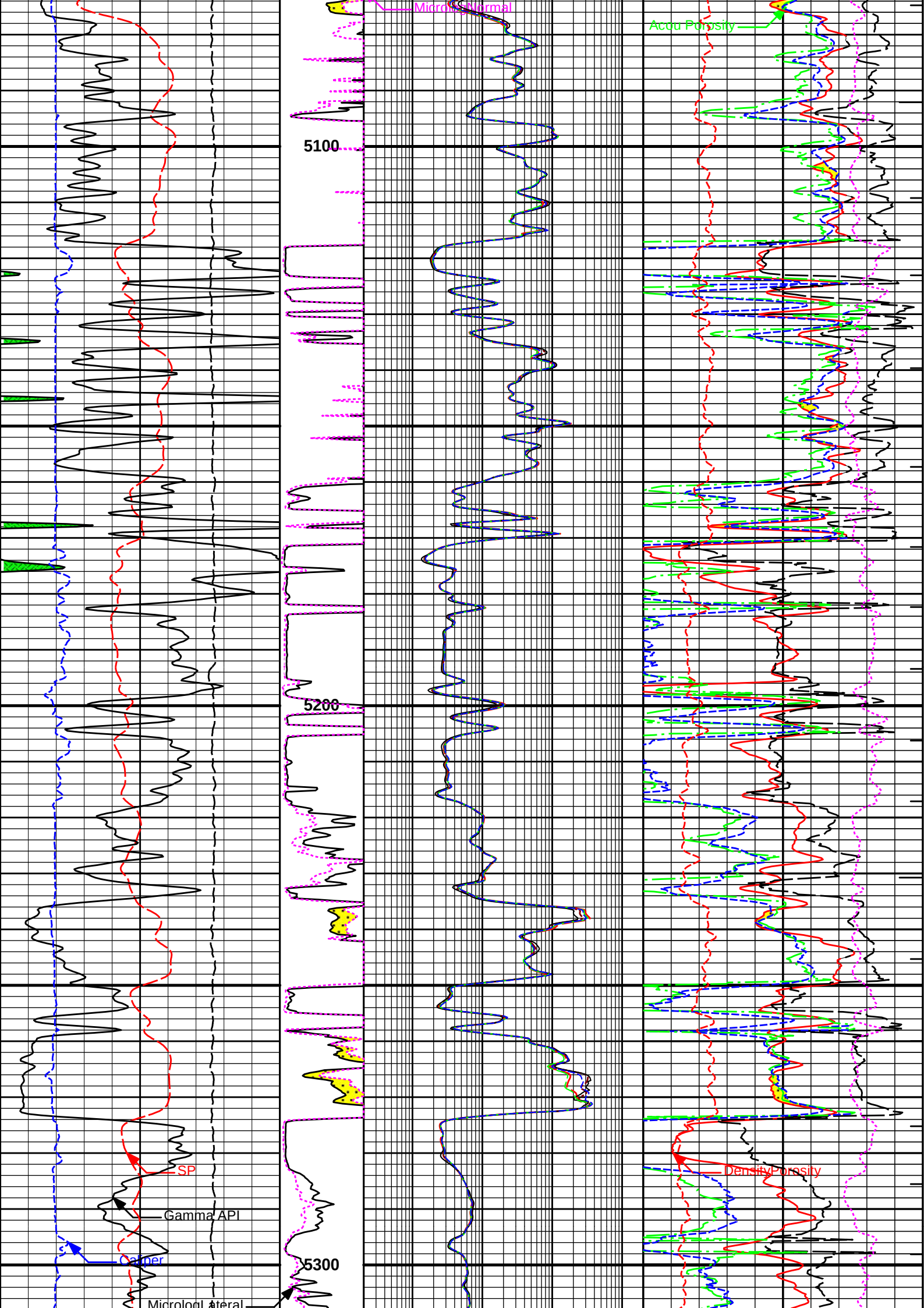


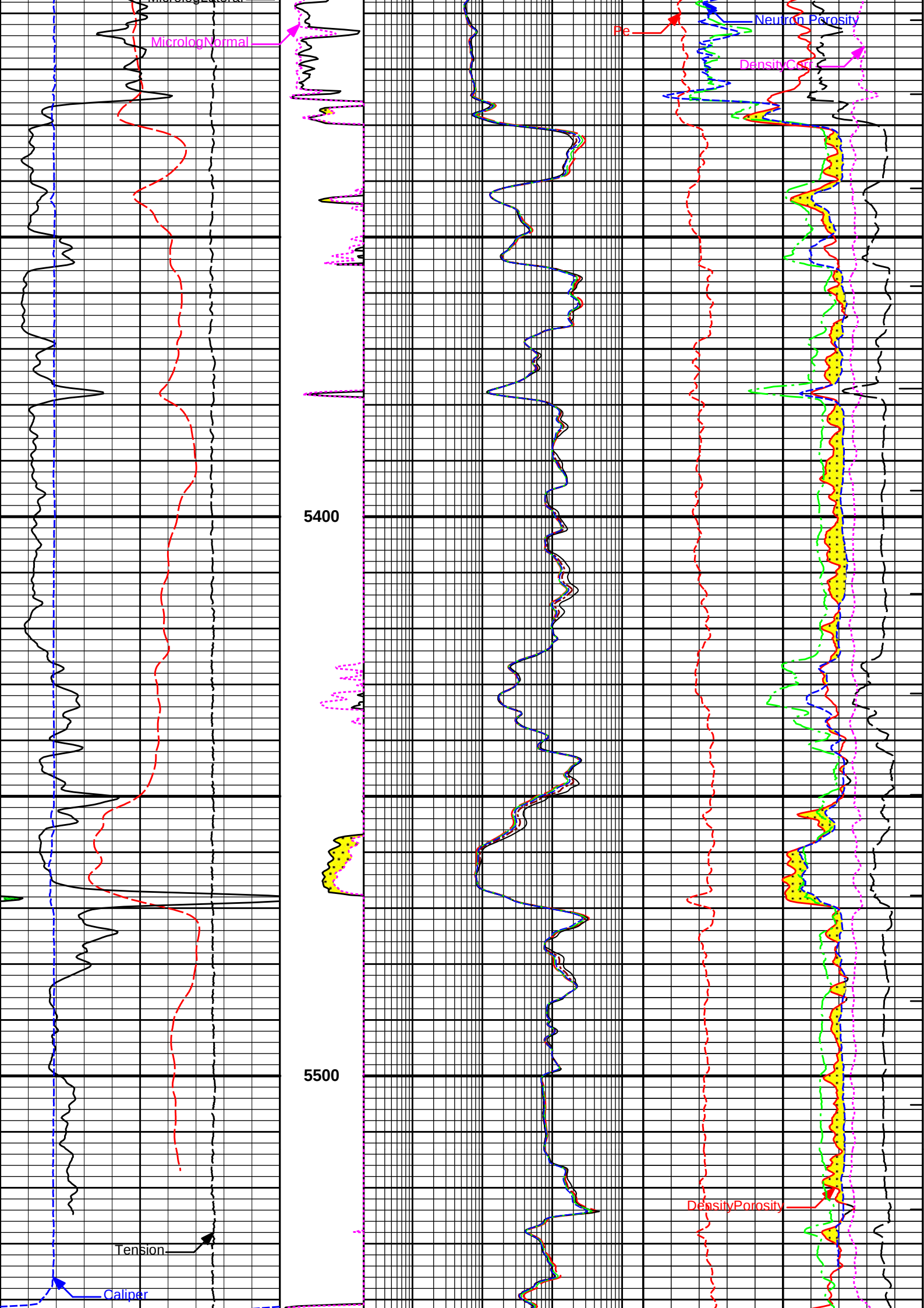


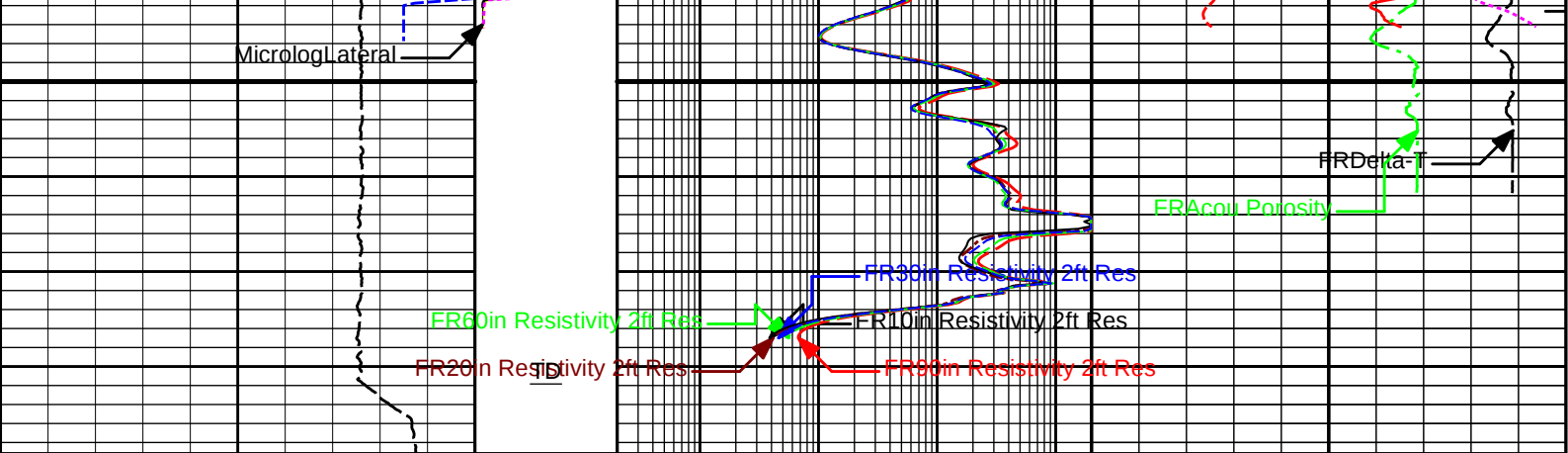












SP -]20[+	1 : 240 ft	0.2	90in Resistivity 2ft Res ohmm	2000	0	Pe barns/electron	ITTT
Gamma API api	150	0.2	20in Resistivity 2ft Res ohmm	2000			-0.25 DensityCorr 0.25 gram per cc
Caliper inches	16	0	10in Resistivity 2ft Res ohmm	2000	0.3	Acou Porosity decip	-0.1
SHALE	0	0.2	60in Resistivity 2ft Res ohmm	2000	0.3	Neutron Porosity decip	-0.1
Tension pounds	0	0.2	30in Resistivity 2ft Res ohm-metre	2000	0.3	DensityPorosity decip	-0.1
						POROSITY	
					140	Delta-T microsec per ft	40

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Plot Time: 01-Oct-17 17:16:55
Plot Range: 1780 ft to 5589.17 ft
Data: MERIT_KELLS I-1\Well Based\MAIN\
Plot File: \\QUAD\ACRT-SDL-DSN-ML-BSAT

MAIN SECTION

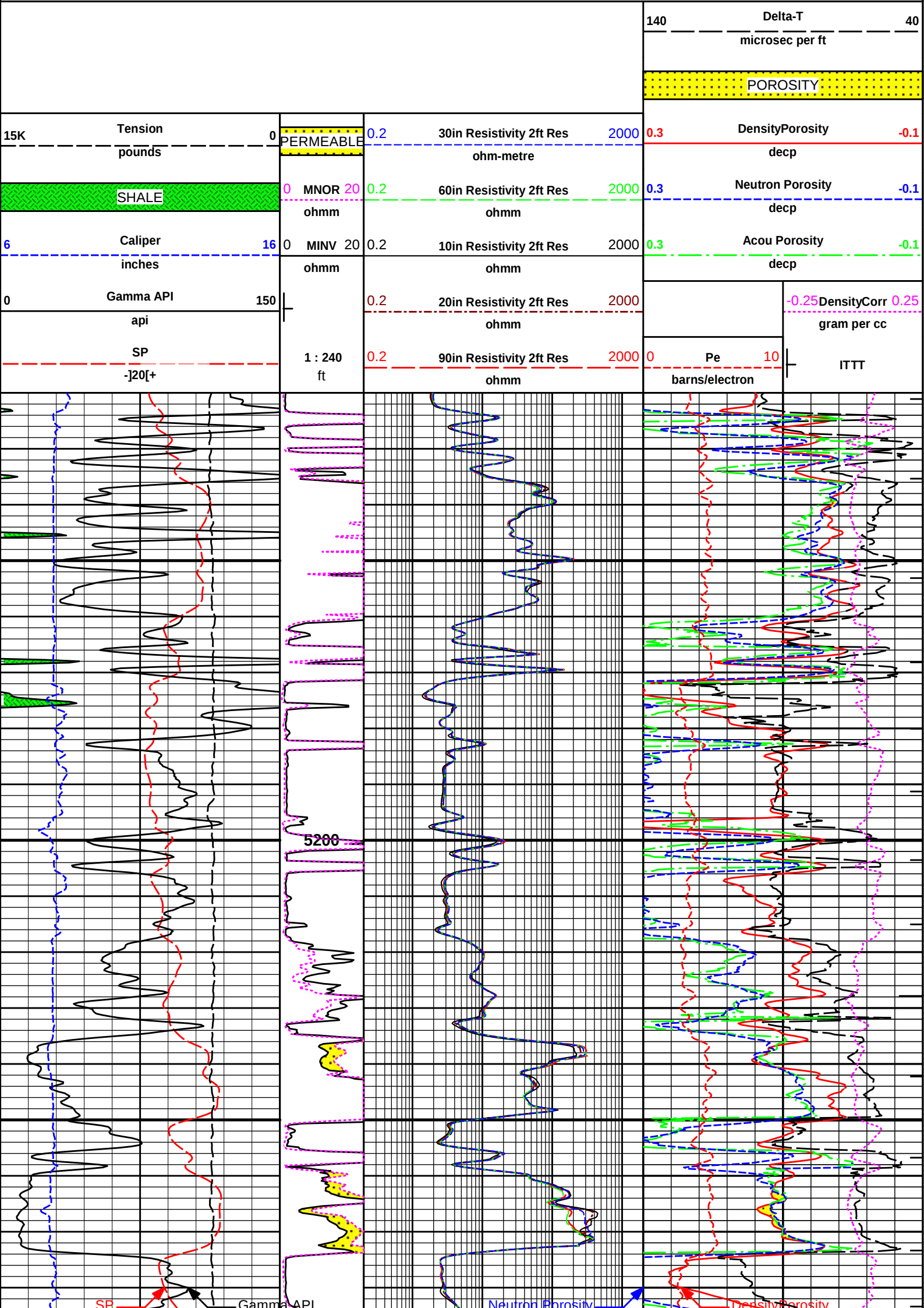
MAIN SECTION

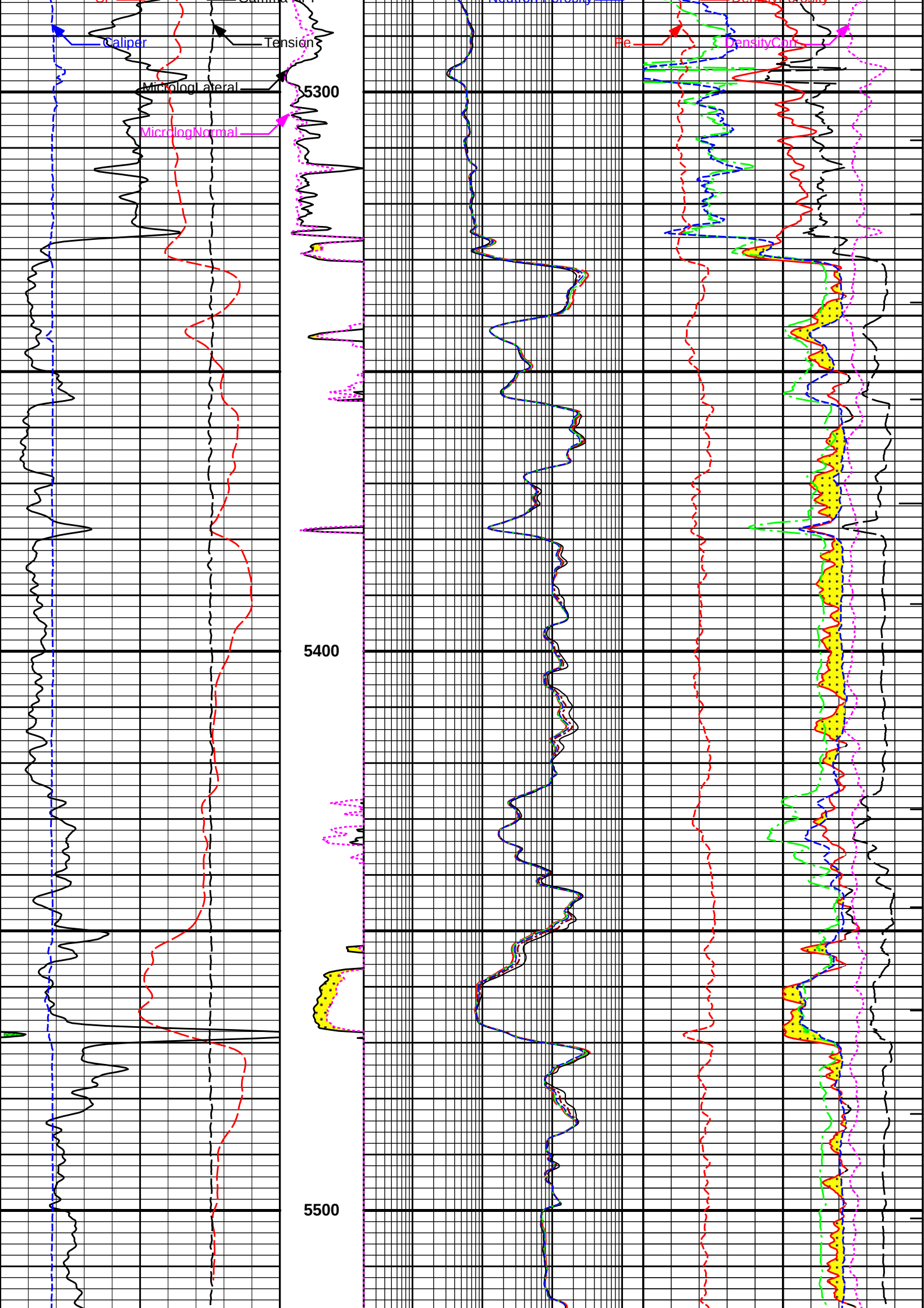
HALLIBURTON

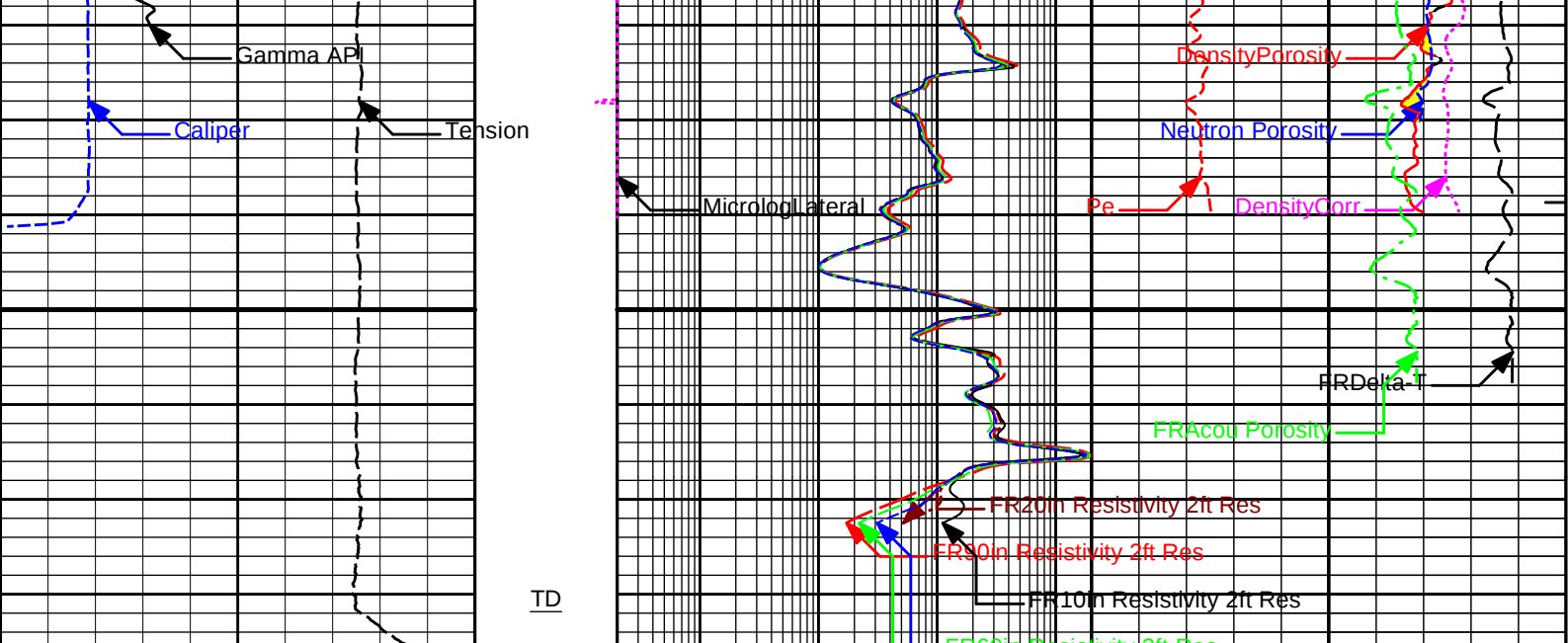
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Plot Range: 5120 ft to 5585.33 ft
Data: MERIT_KELLS I-1\Well Based\REPEAT\
Plot File: \\QUAD\ACRT-SDL-DSN-ML-BSAT

MAIN SECTION

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SP -]20[+	1 : 240 ft	0.2	90in Resistivity 2ft Res ohmm	2000	0	Pe barns/electron	10	ITTT
Gamma API api	150	0.2	20in Resistivity 2ft Res ohmm	2000				-0.25 DensityCorr 0.25 gram per cc
Caliper inches	16	0	10in Resistivity 2ft Res ohmm	2000	0.3	Acou Porosity decip		-0.1
SHALE	0	0.2	60in Resistivity 2ft Res ohmm	2000	0.3	Neutron Porosity decip		-0.1
Tension pounds	0	0.2	30in Resistivity 2ft Res ohm-metre	2000	0.3	DensityPorosity decip		-0.1
						POROSITY		
						Delta-T microsec per ft		

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Plot Time: 01-Oct-17 17:16:58
Plot Range: 5120 ft to 5585.33 ft
Data: MERIT_KELLS I-1\Well Based\REPEAT\
Plot File: \\QUAD\ACRT-SDL-DSN-ML-BSAT

MAIN SECTION

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COMPANY	MERIT ENERGY COMPANY, LLC
WELL	KELLS I-1
FIELD	WILDCAT
COUNTY	HASKELL
STATE	KANSAS

