

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @
 CLIENT REPORTED VERTICAL WELL
 Remarks: GTET-DSNT-SDLT-BSAT-ACRT
 ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING
 DETAILED SECTION LOGGED TO 3,630 FT AS PER CLIENT REQUEST
 CHLORIDES REPORTED AT 1000 PPM
 NO POST-CALS COMPLETED AS PER CLIENT REQUEST
 RIG: DUKE DRILLING RIG 9
 CREW: K. FITZPATRICK, R. BLANKENSHIP
 THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES -- EL RENO, OK -- 405.278.9685

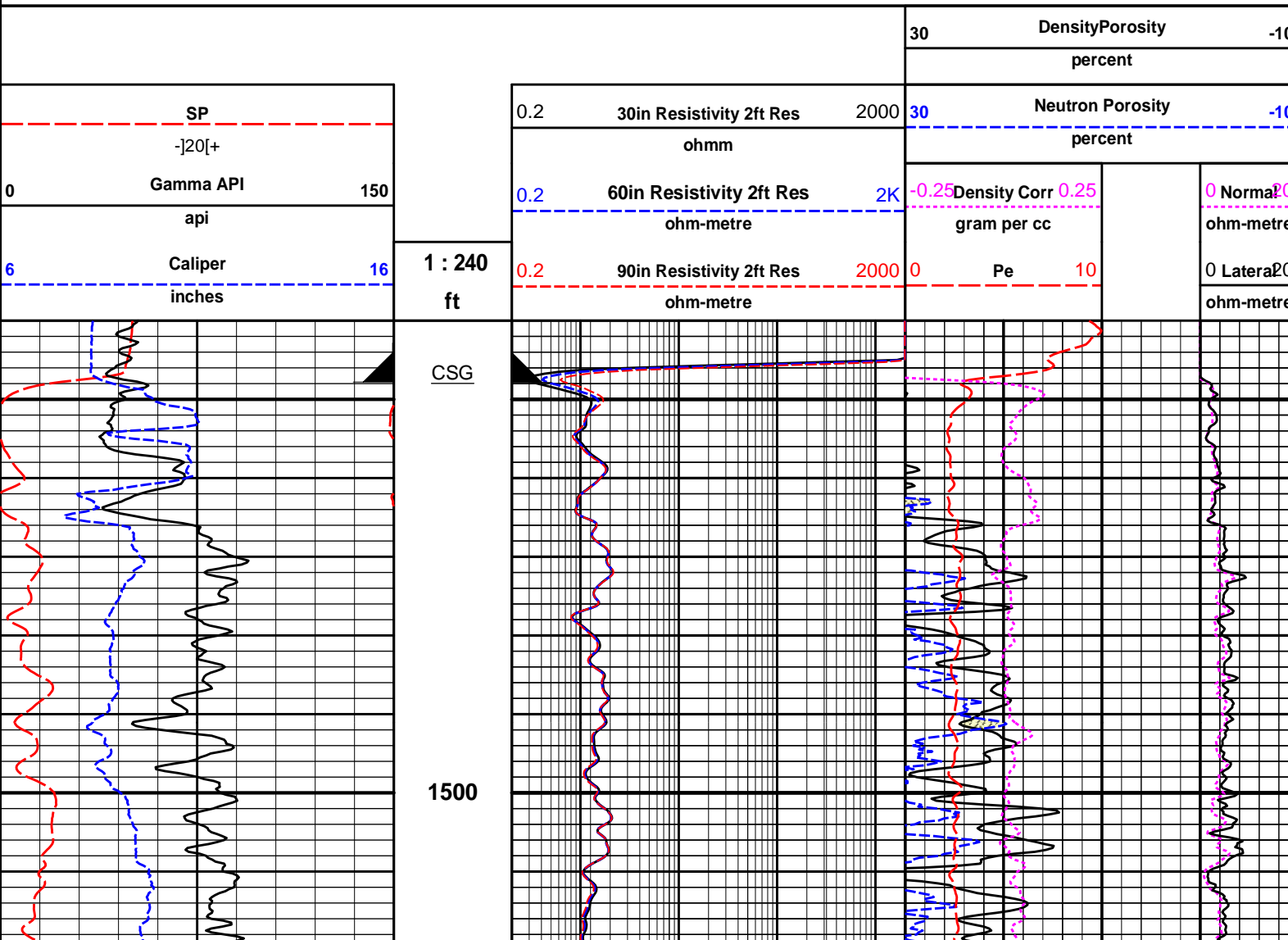
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR 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.

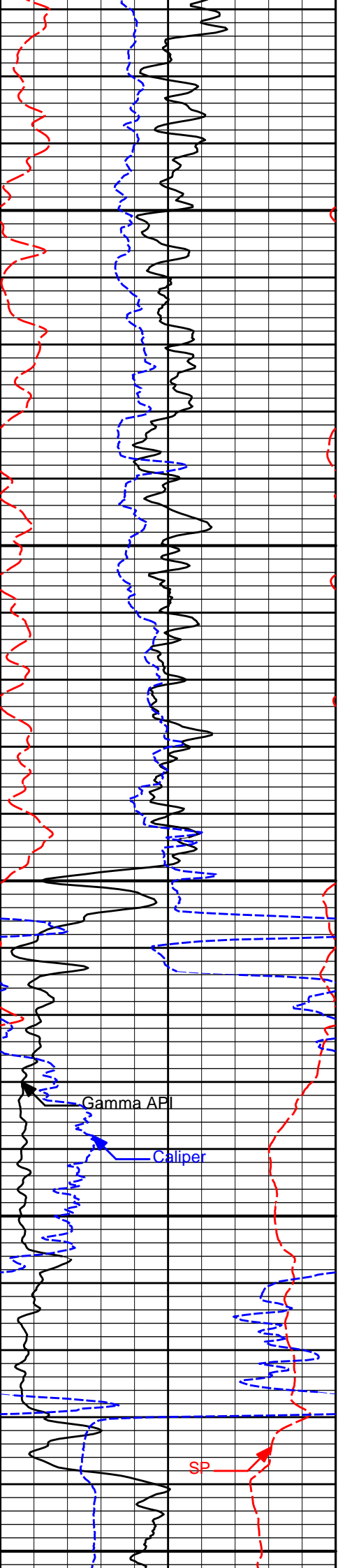
HALLIBURTON



Plot Time: 18-Oct-17 04:49:13
 Plot Range: 1440 ft to 6594.75 ft
 Data: MERIT_LCSLU 108\Well Based\MAIN\
 Plot File: \\QUAD\TRIPLEx_wML

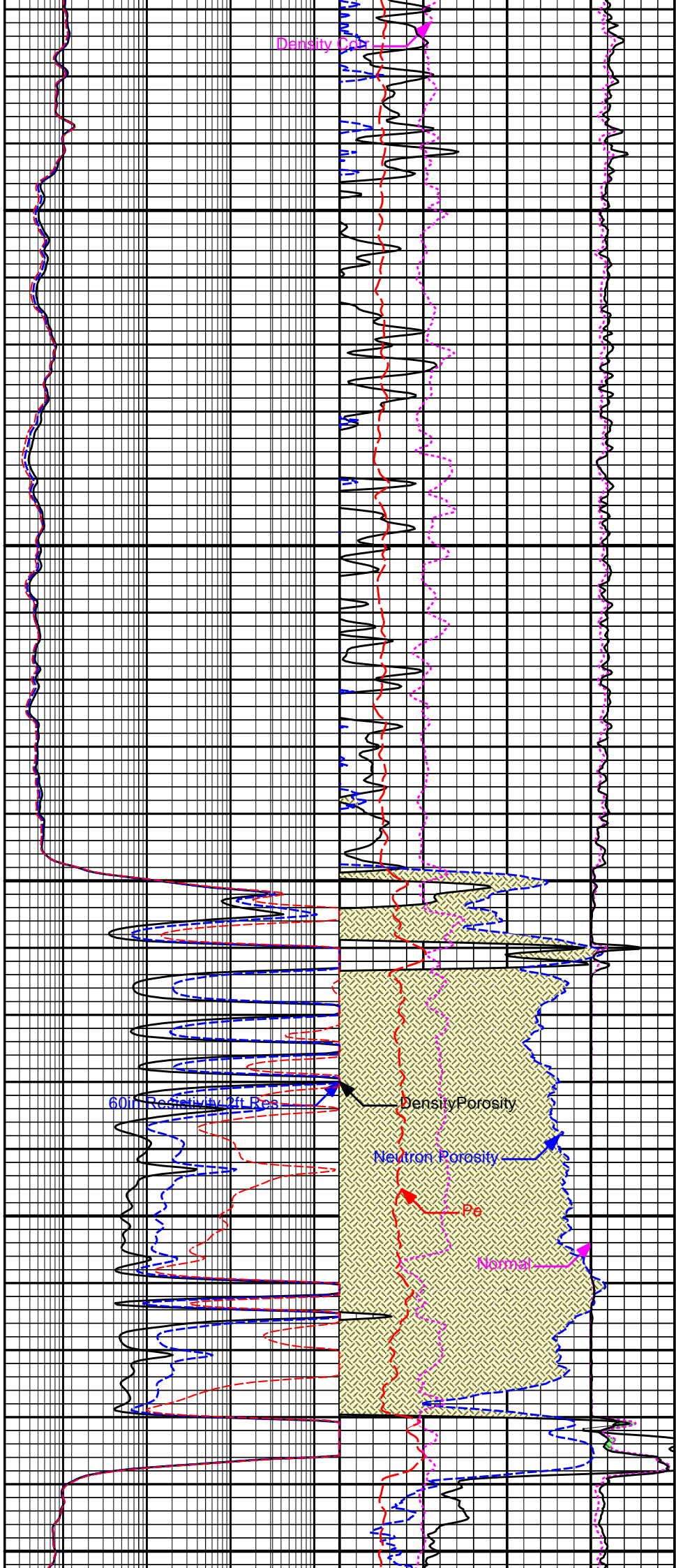
5 INCH MAIN LOG





1600

1700



Density

Gamma API

Caliper

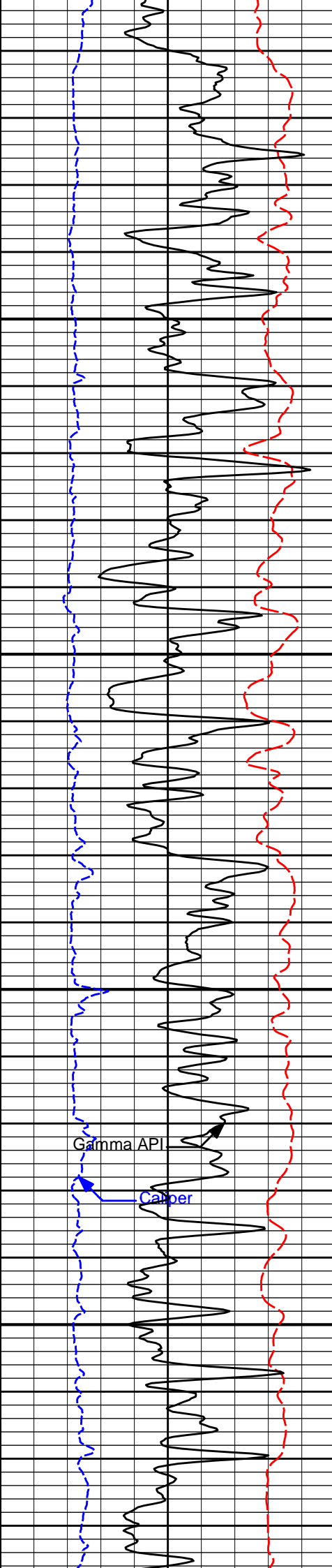
60m Resistivity

Density Porosity

Neutron Porosity

Pe

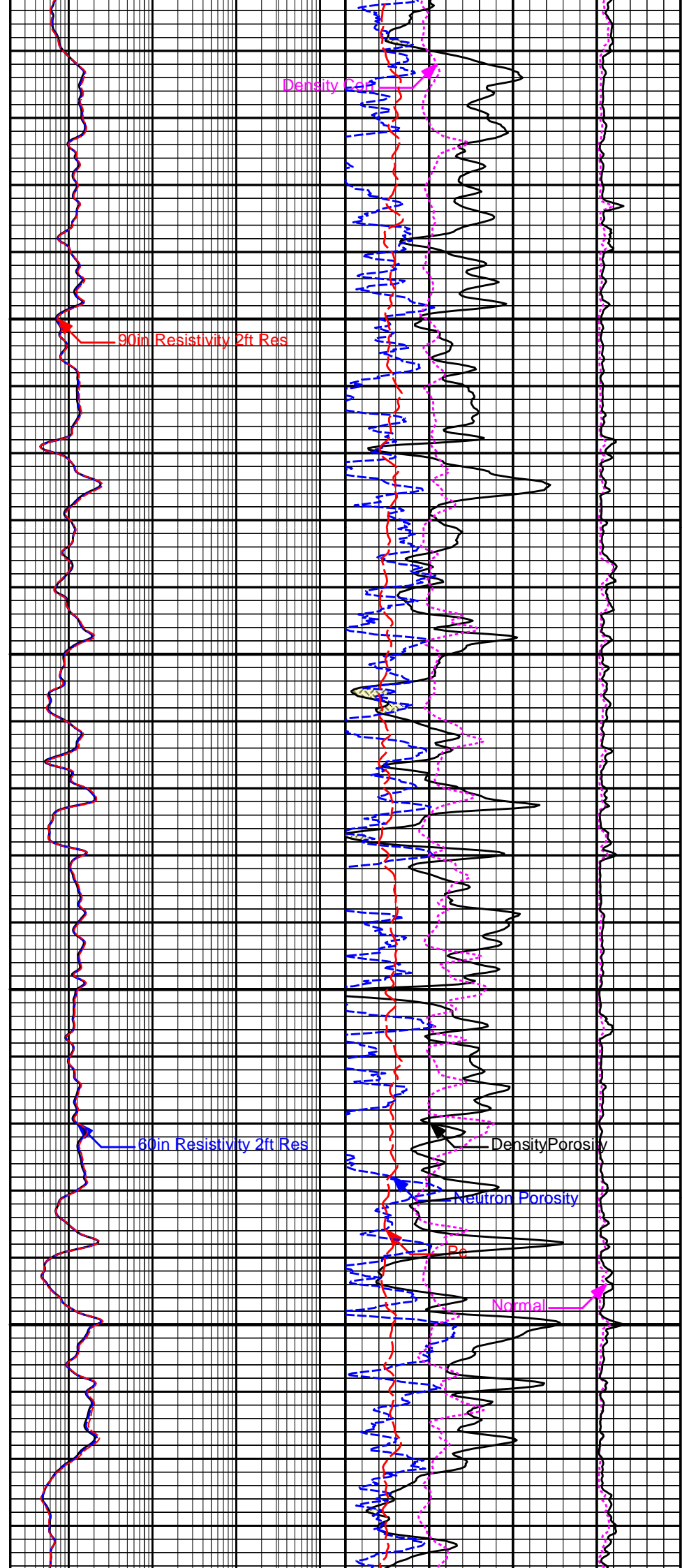
Normal



1800

1900

Gamma API
Caliper



90in Resistivity 2ft Res

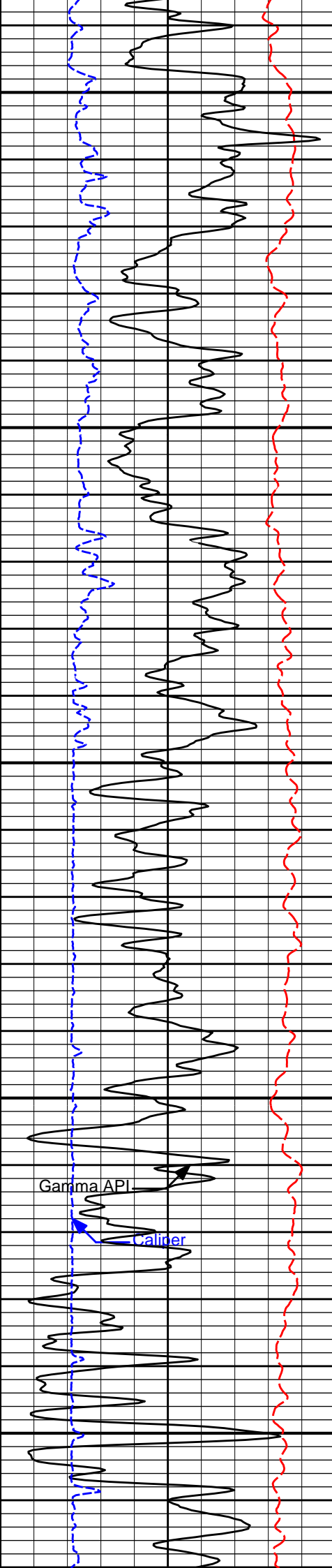
60in Resistivity 2ft Res

Density Porosity

Density Porosity

Neutron Porosity

Normal

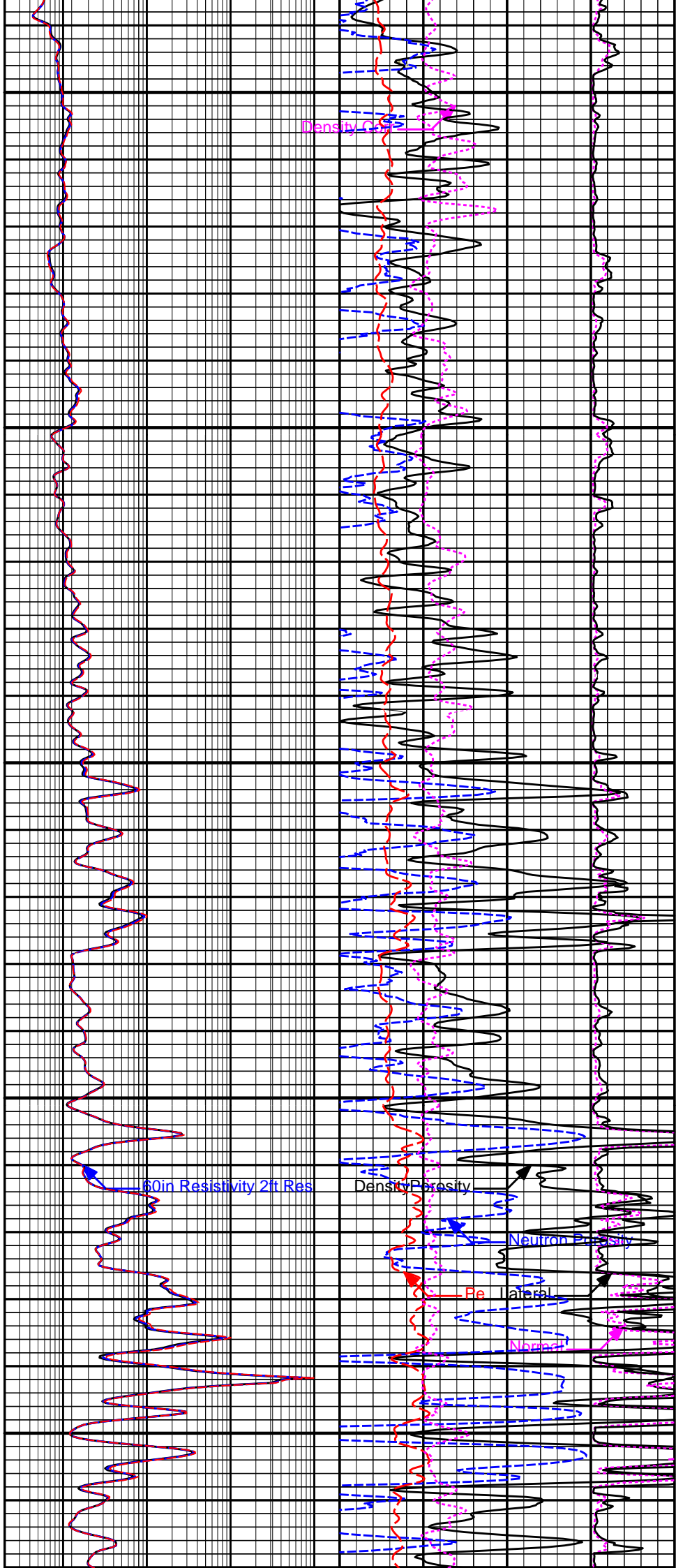


2000

2100

2200

Gamma API
Caliper



Density Porosity

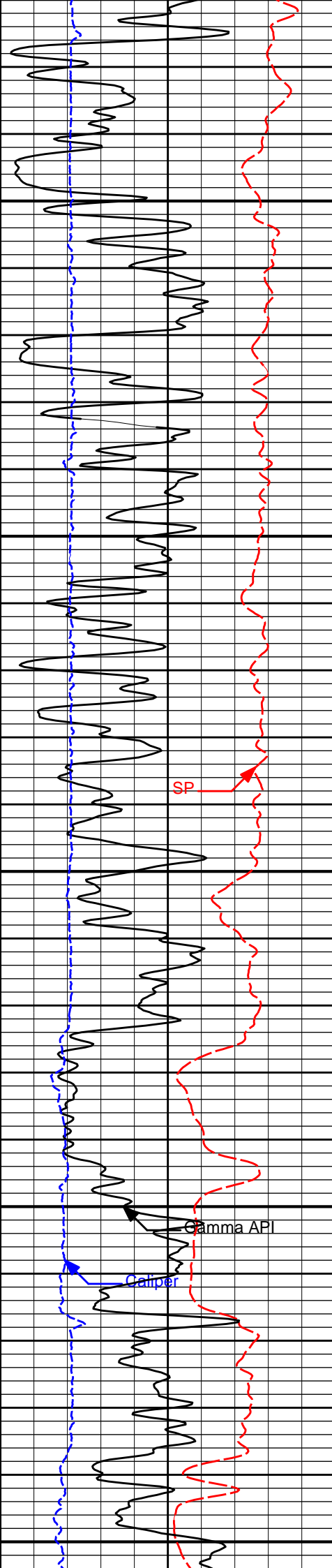
60in Resistivity 2ft Res

Density Porosity

Neutron Porosity

Pe lateral

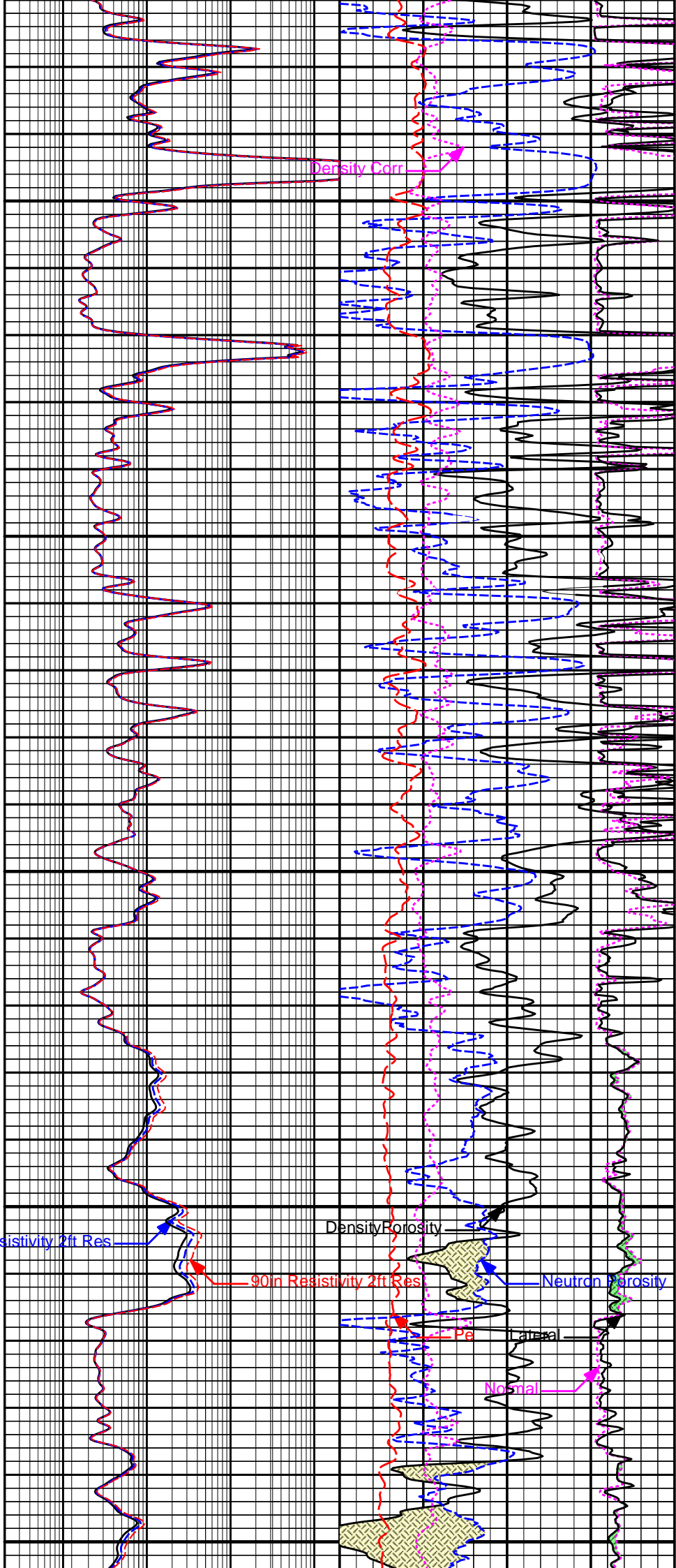
Neutron Porosity



2300

2400

60in Resistivity 2ft Res



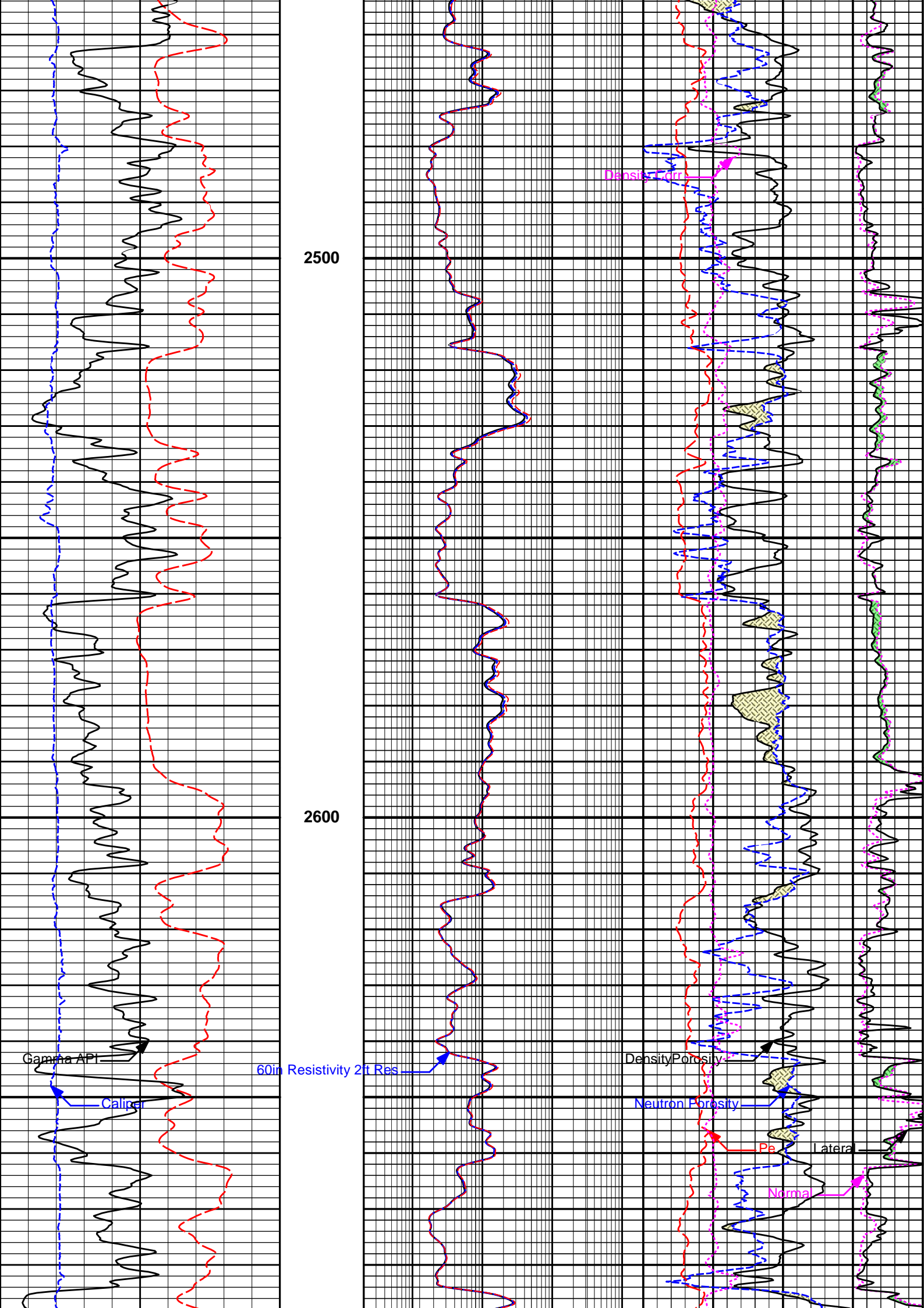
Density Carr

Density Porosity

Neutron Porosity

Normal

90in Resistivity 2ft Res



2500

2600

Gamma API

Caliper

60in Resistivity 2ft Res

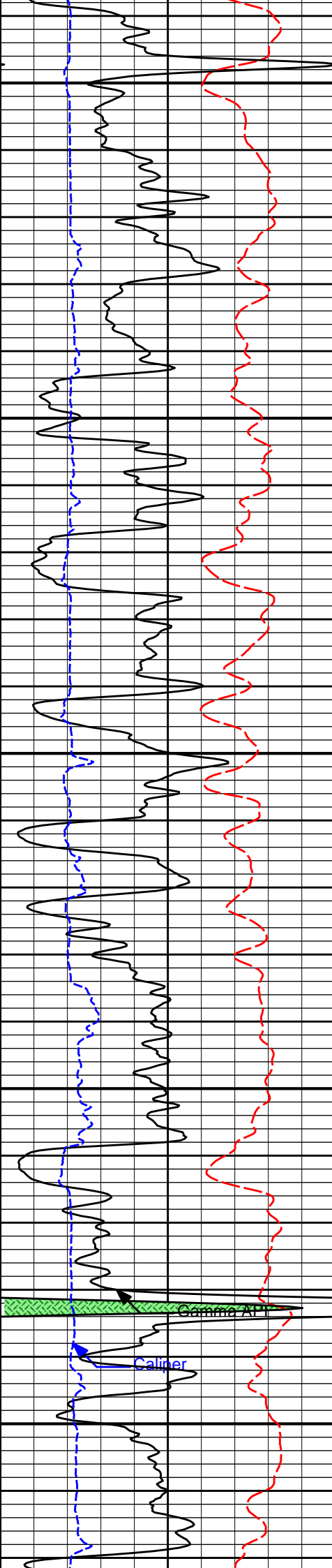
Density Porosity

Neutron Porosity

Pa

Lateral

Normal



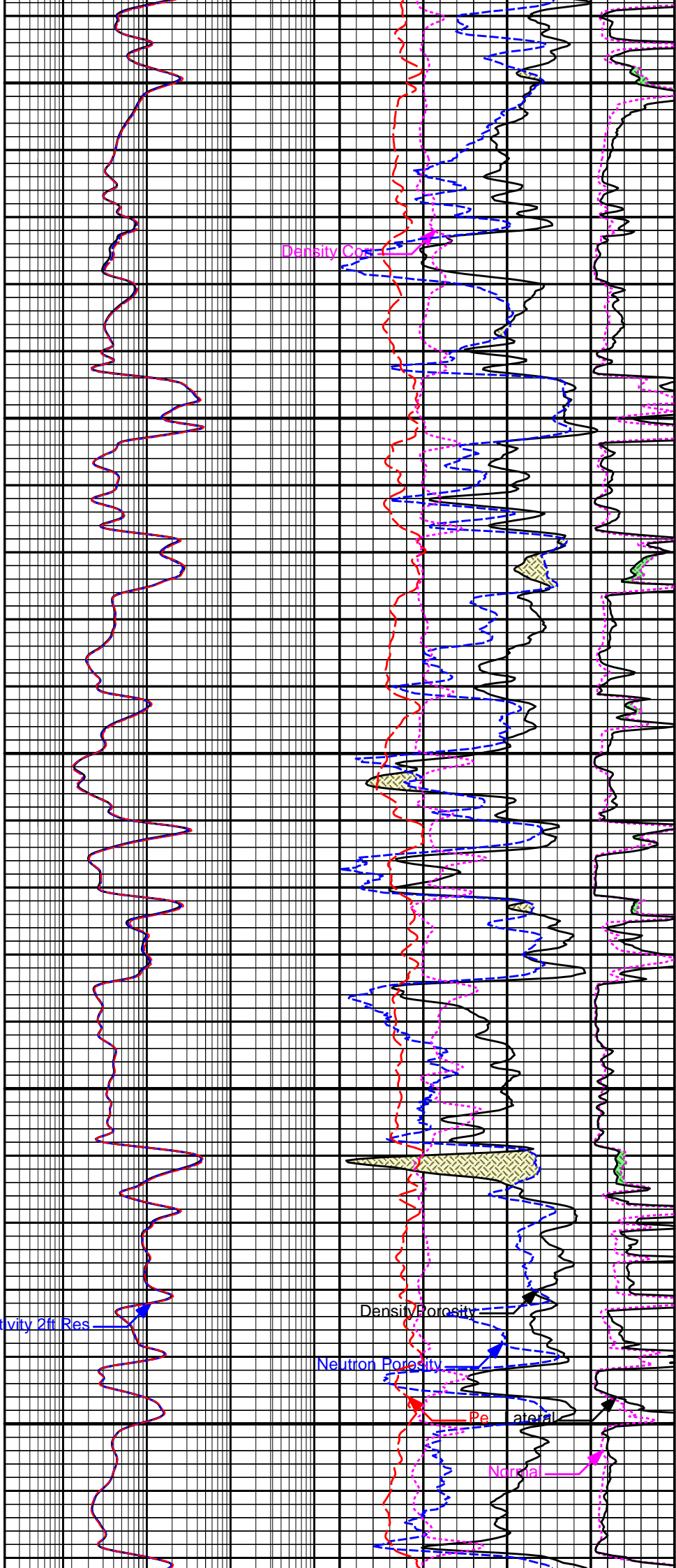
2700

2800

2900

60in Resistivity 2ft Res

Caliper



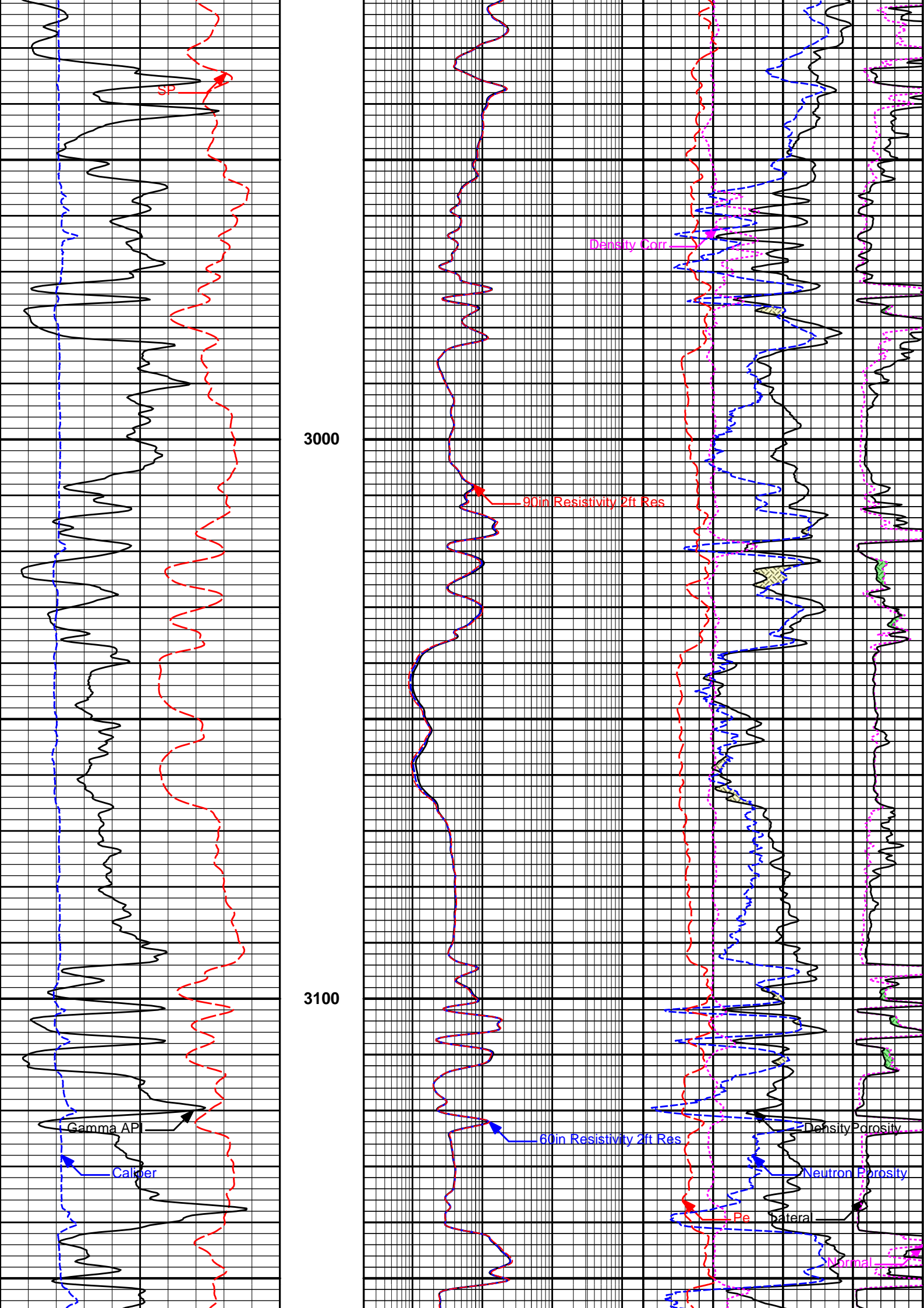
Density Log

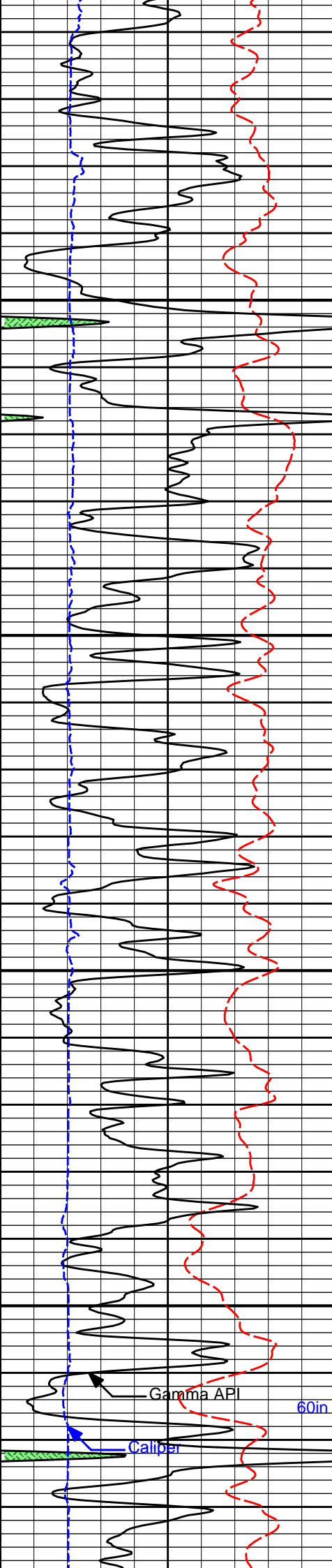
Density Porosity

Neutron Porosity

Pe lateral

Normalized





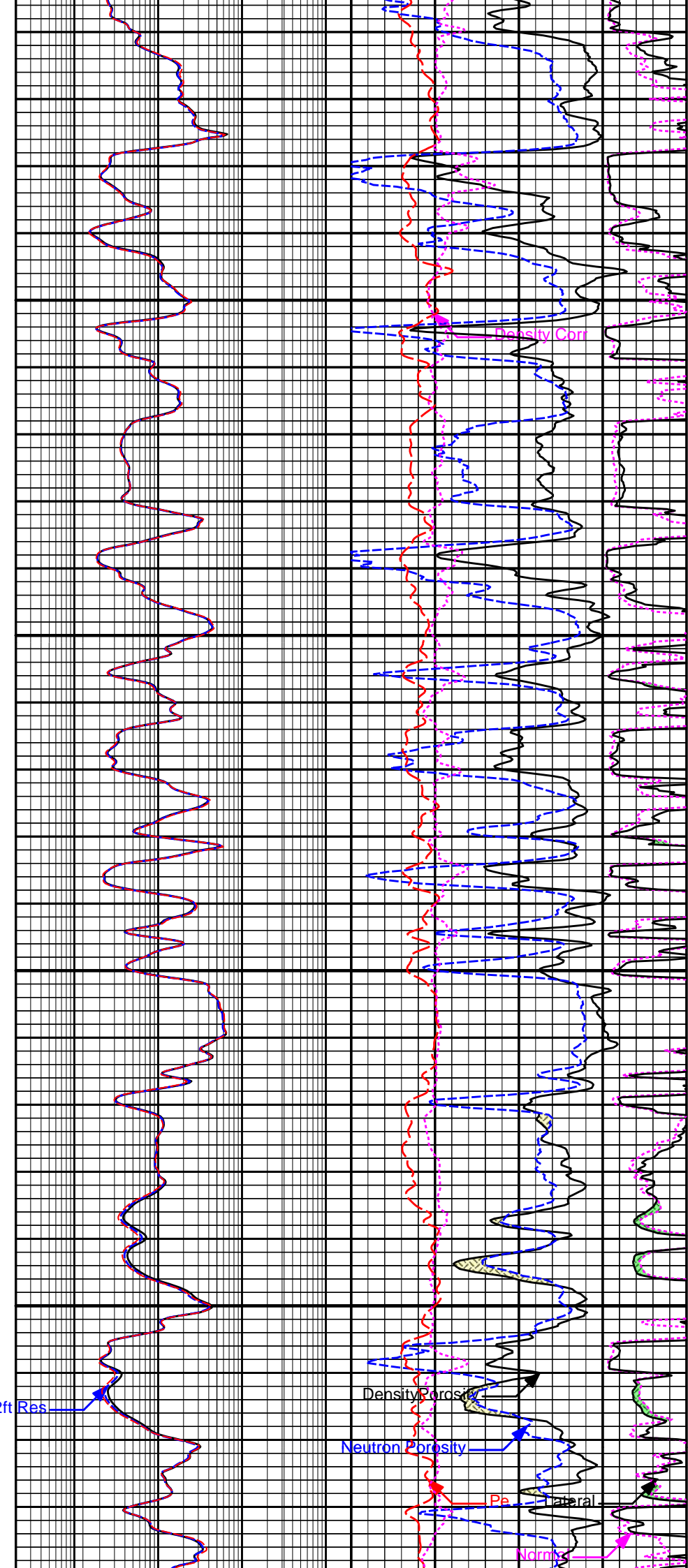
3200

3300

Gamma API

Caliper

60in Resistivity 2ft Res



Density Corr

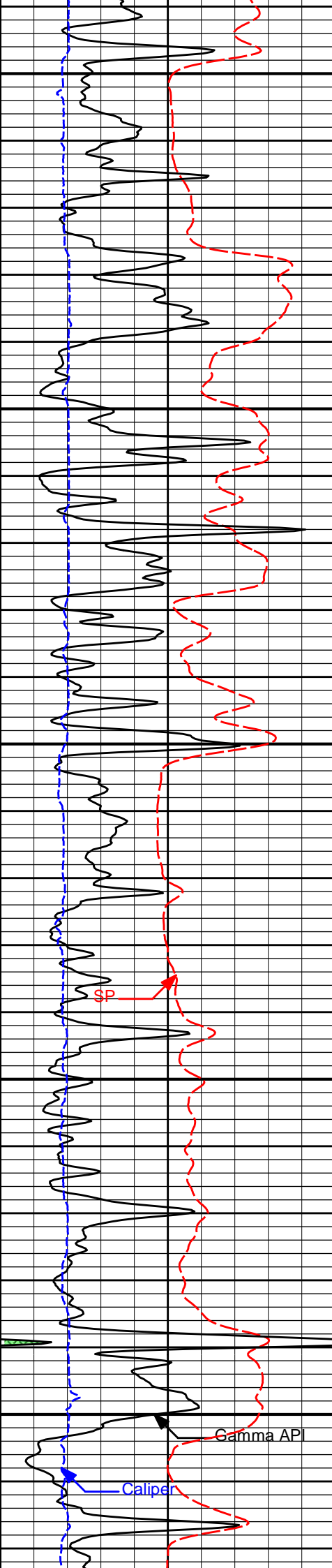
Density Porosity

Neutron Porosity

Pa

Lateral

Norms

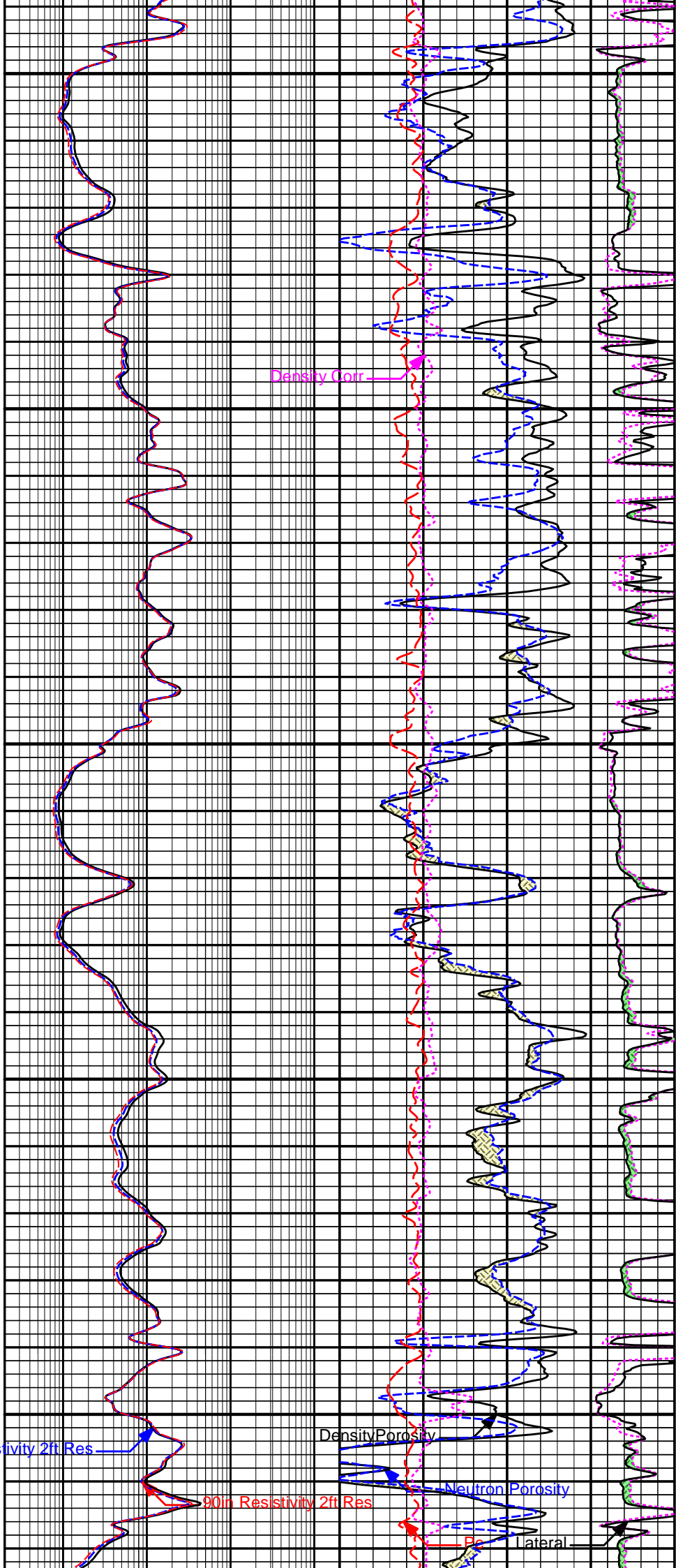


3400

3500

3600

60in Resistivity 2ft Res



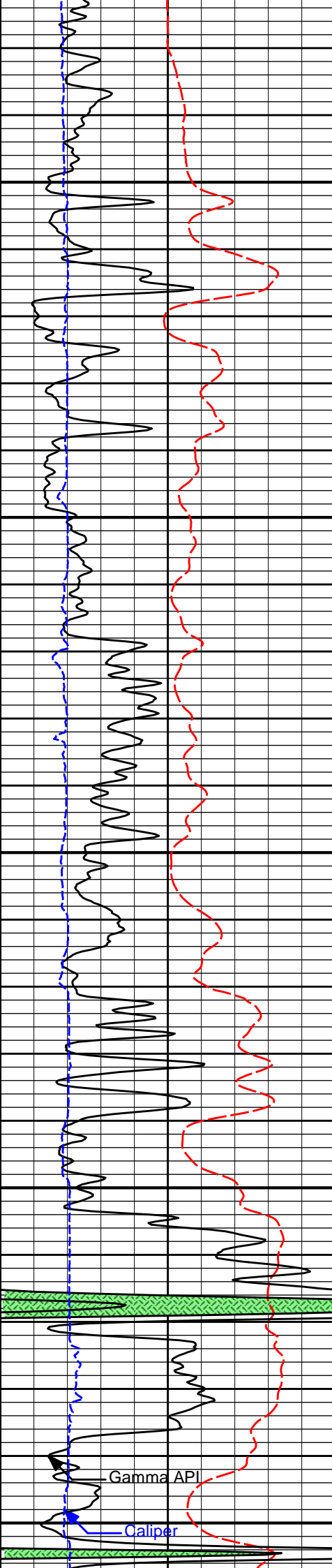
Density Corr

Density Porosity

90in Resistivity 2ft Res

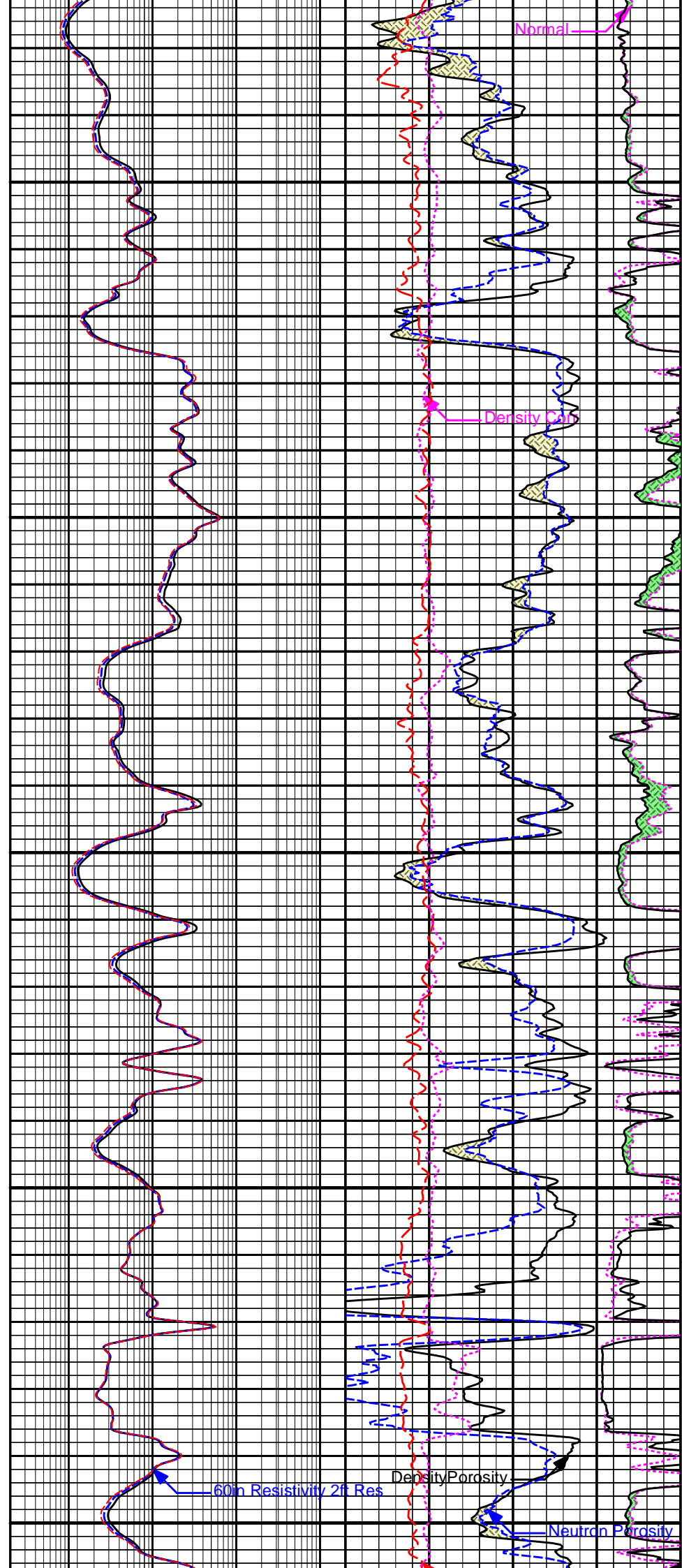
Neutron Porosity

Lateral



3700

3800

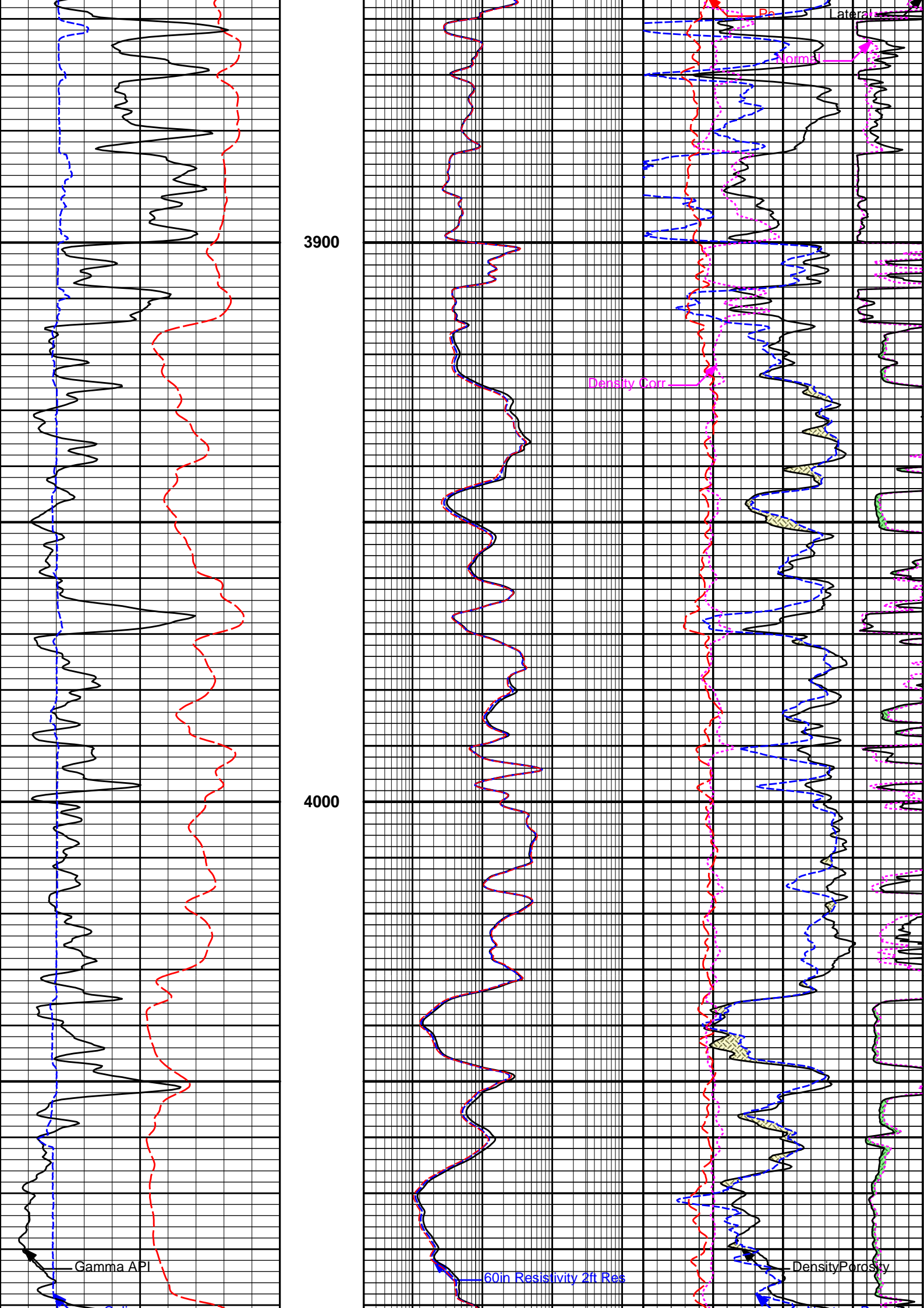


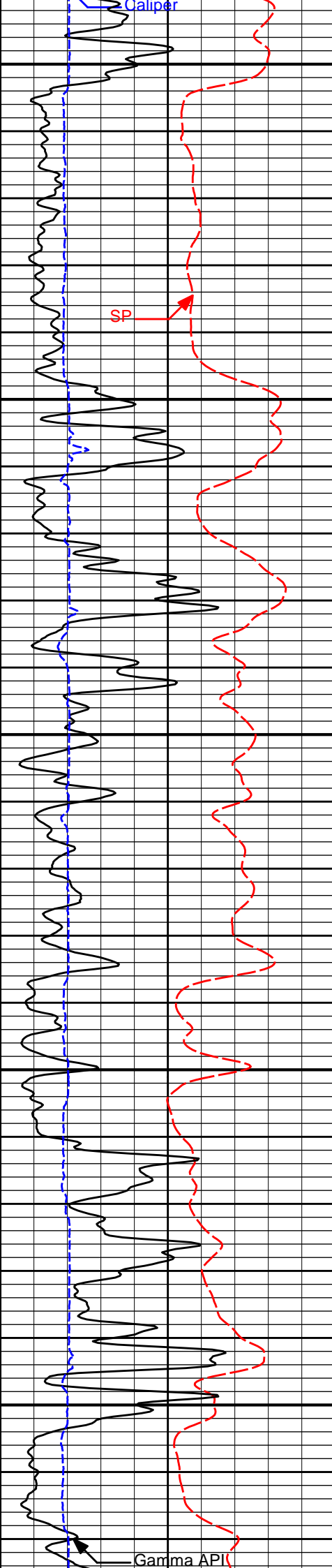
Normal

Density Por

Density Porosity

Neutron Porosity

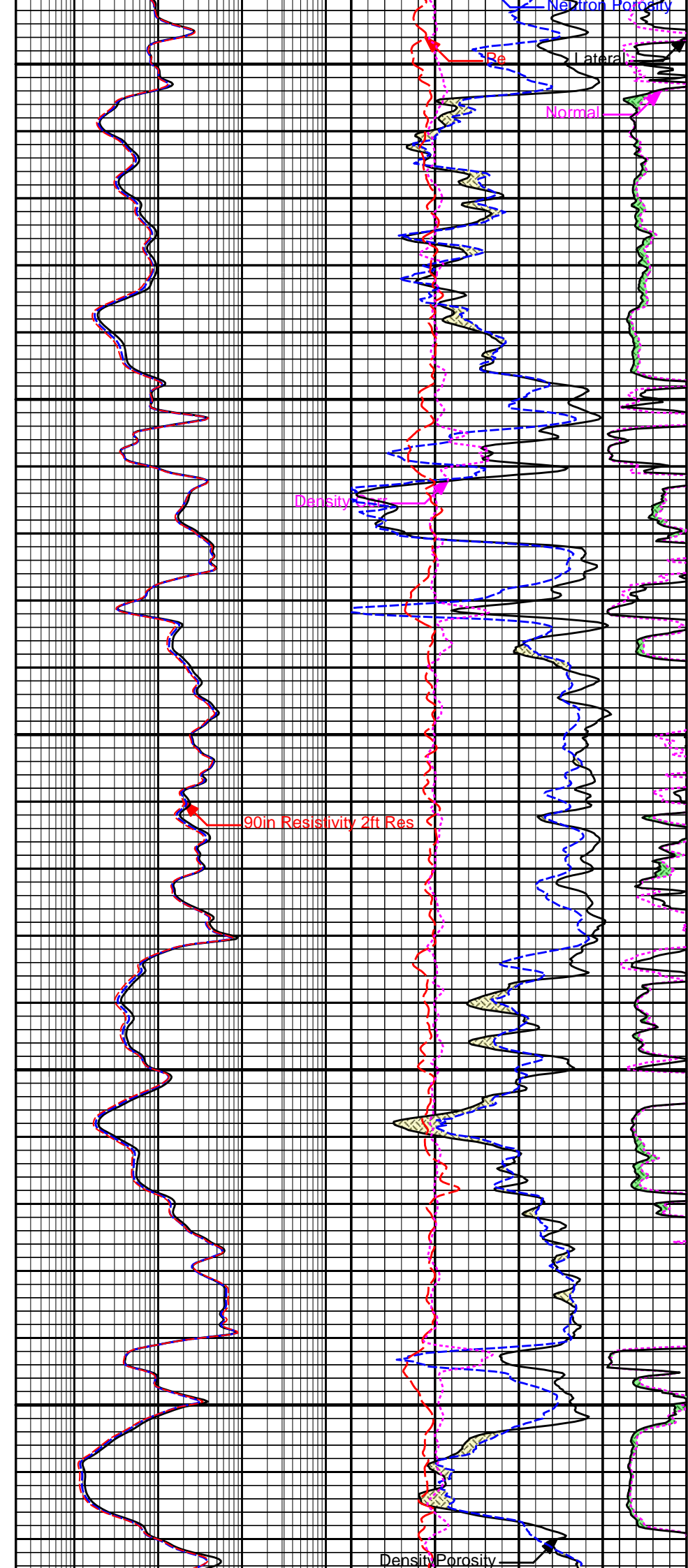




4100

4200

4300



4100

4200

4300

SP

Gamma API

Density

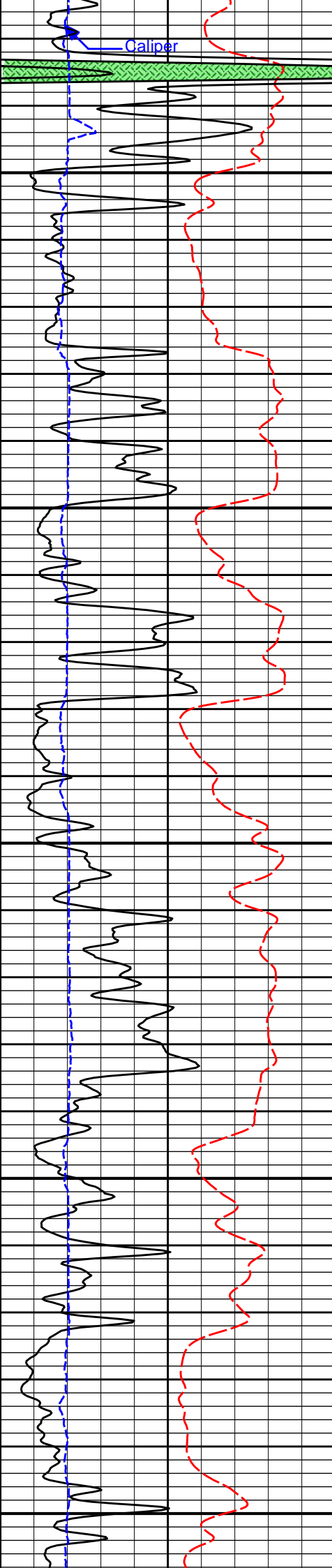
90in Resistivity 2ft Res

Density Porosity

Normal

Lateral

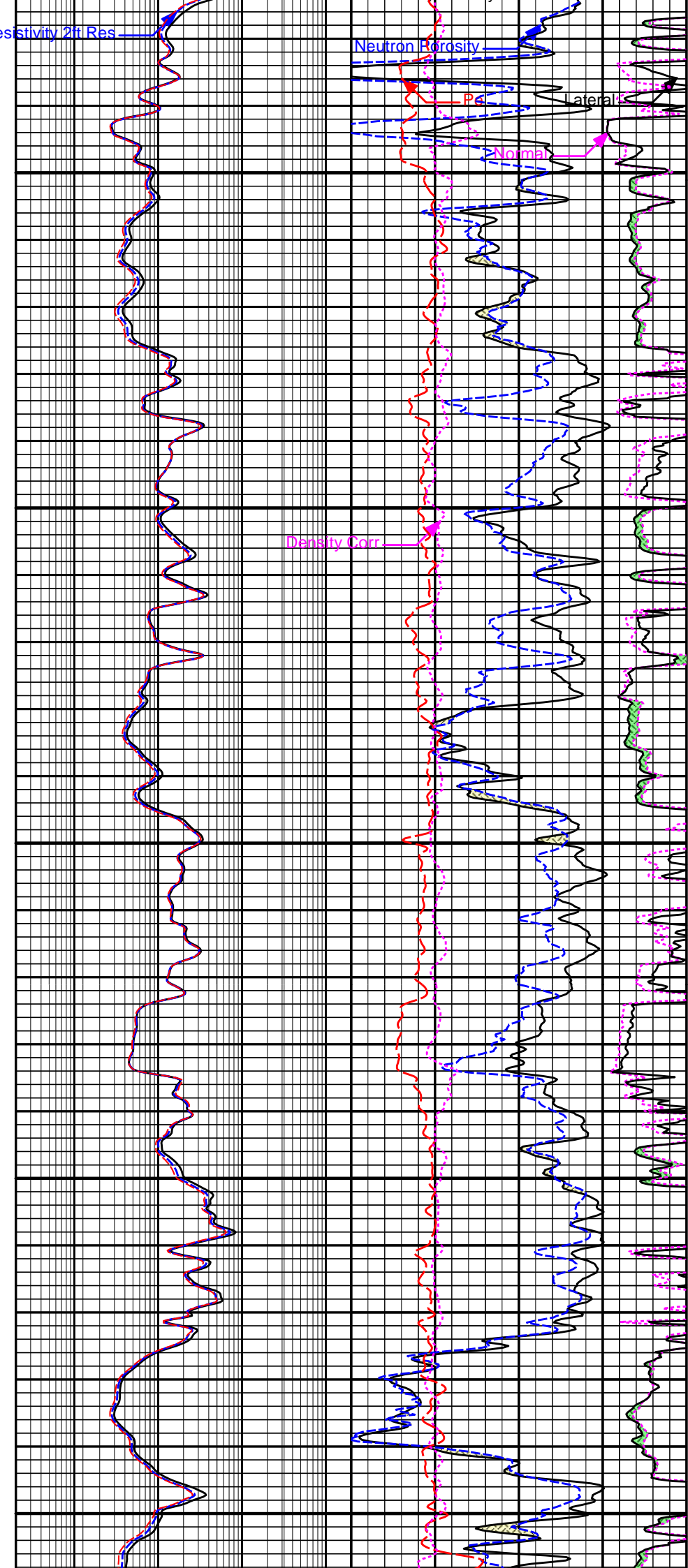
Neutron Porosity



60in Resistivity 2ft Res

4400

4500



Neutron Porosity

Pe

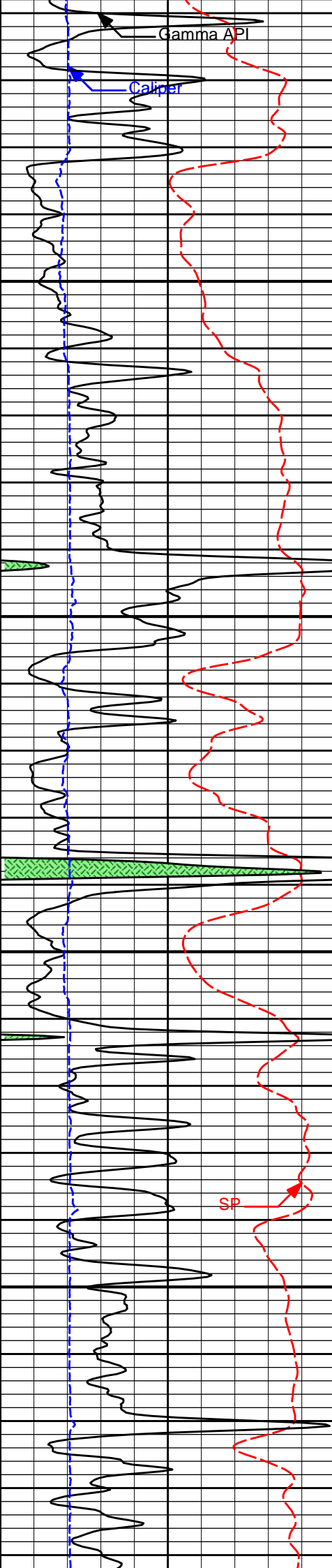
Lateral

Normal

Density Corr

4400

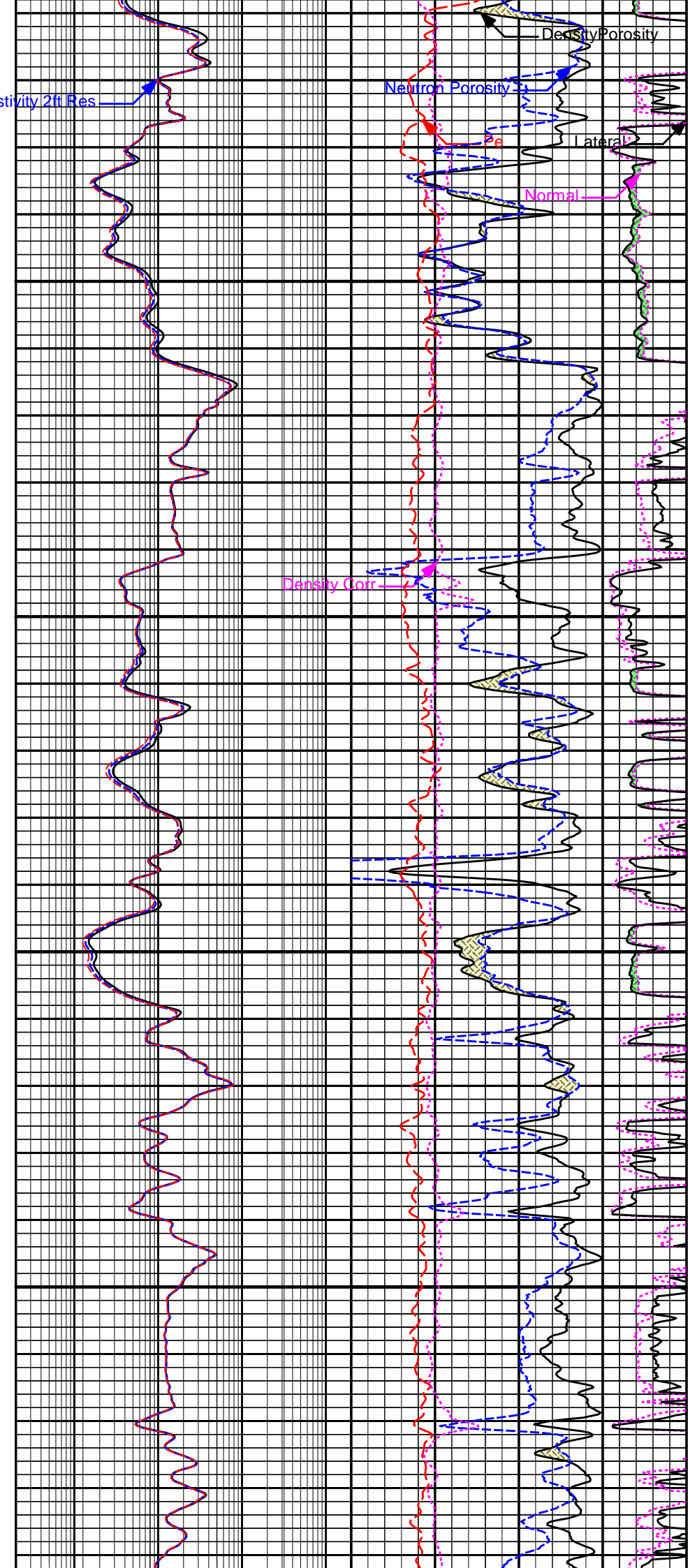
4500

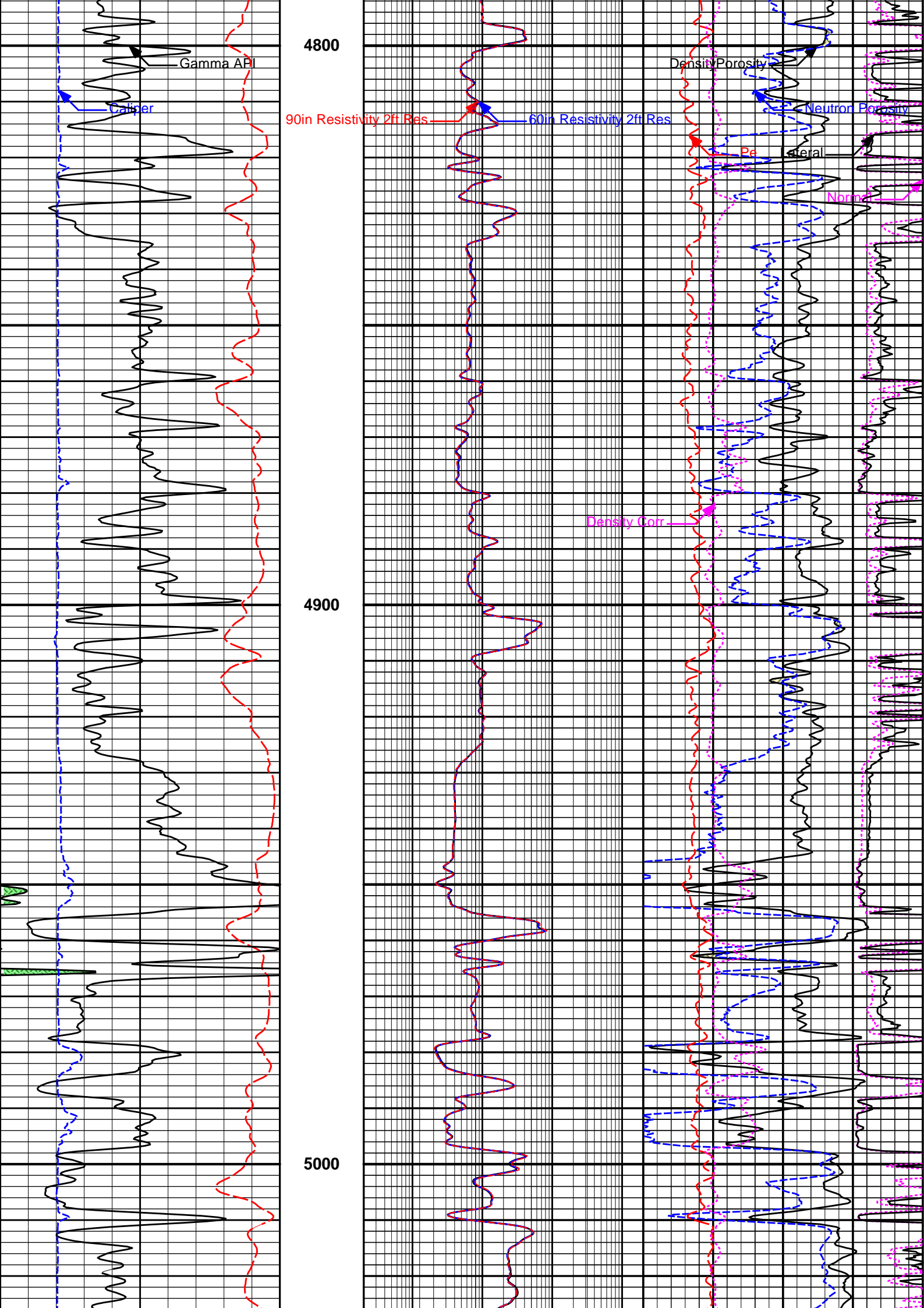


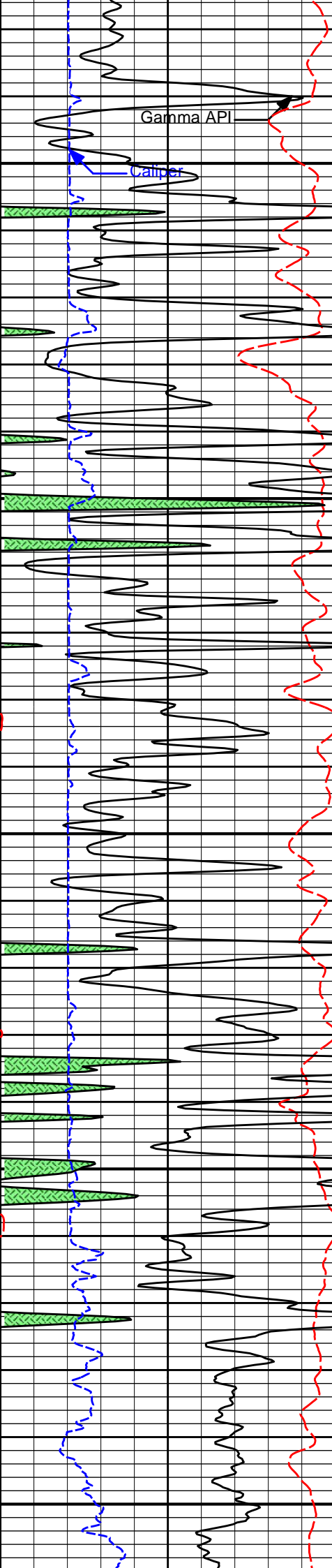
60in Resistivity 2ft Res

4600

4700

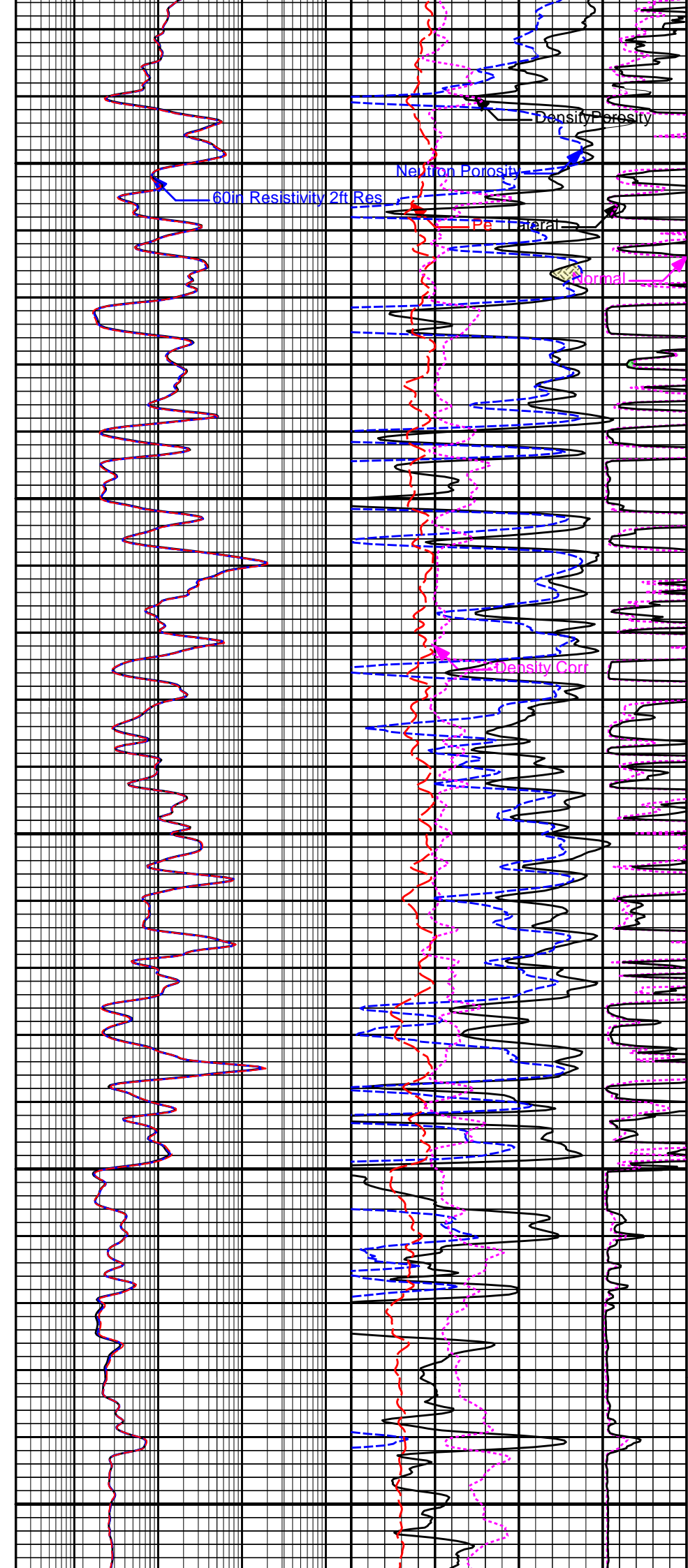


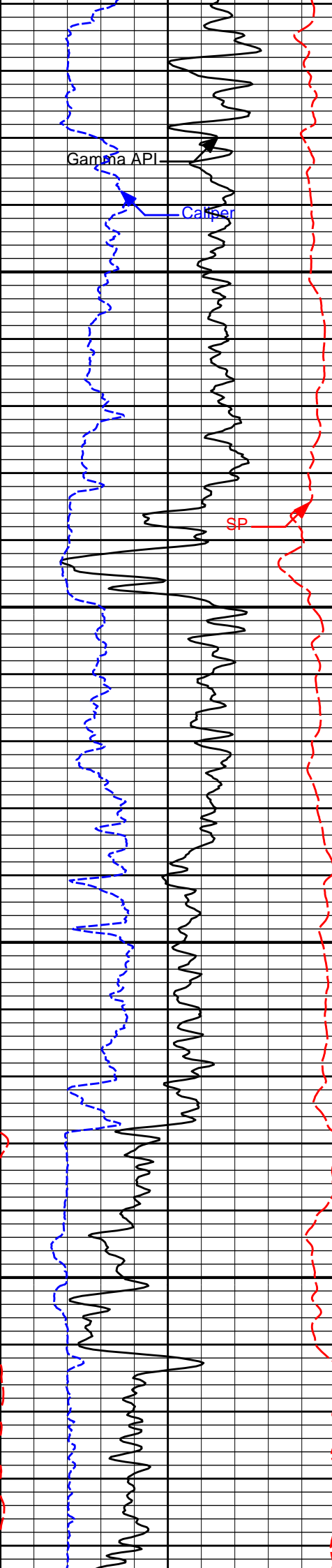




5100

5200





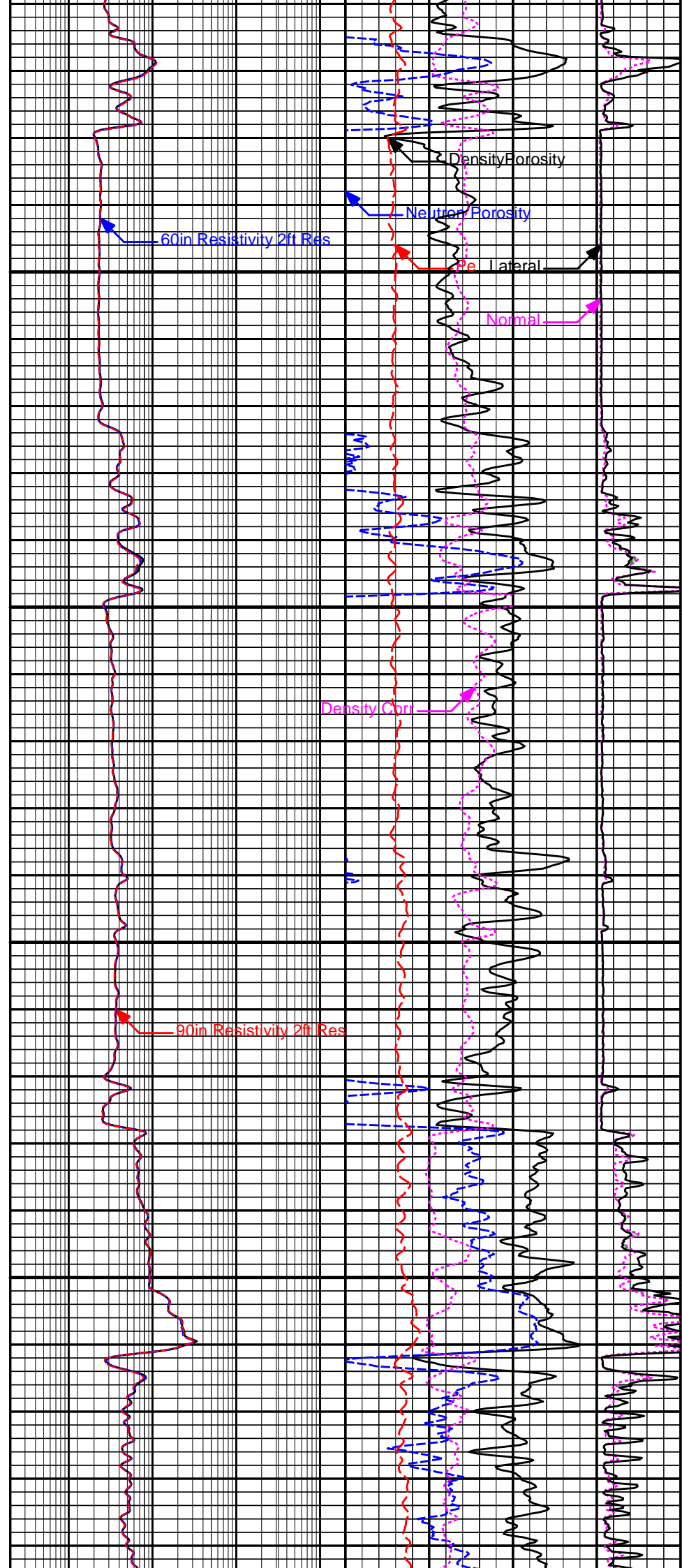
Gamma API

Caliper

SP

5300

5400



Density Porosity

Neutron Porosity

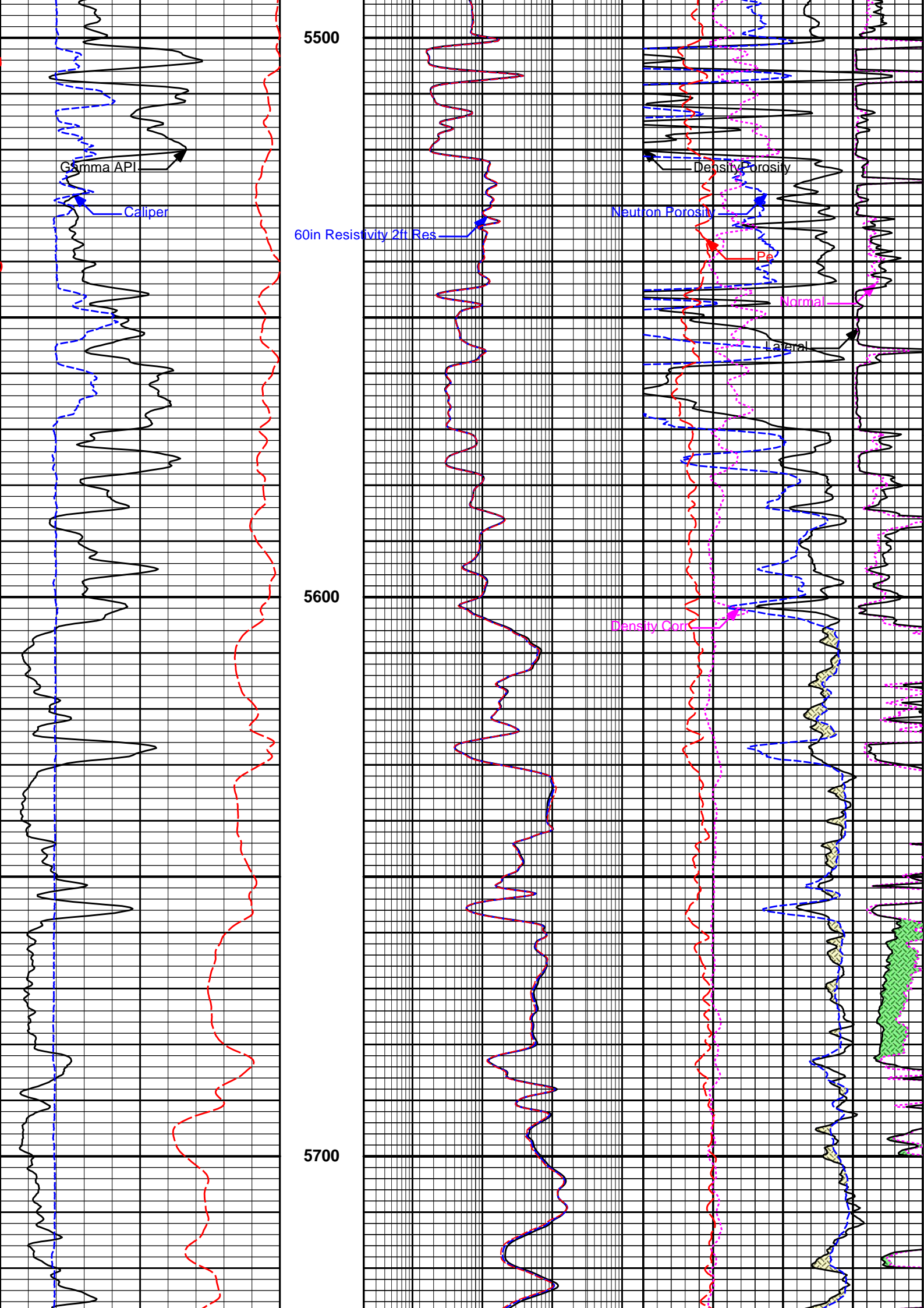
Lateral

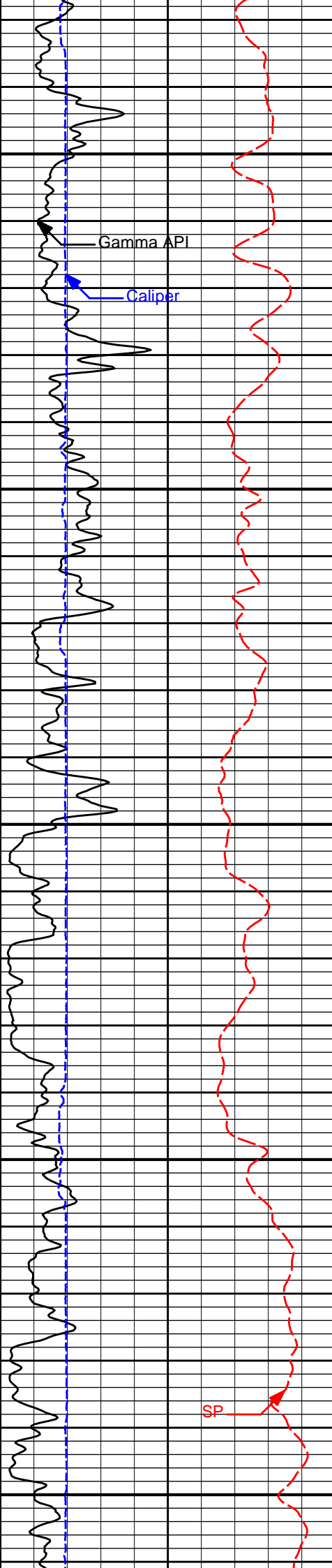
Normal

Density Corr

60in Resistivity 2ft Res

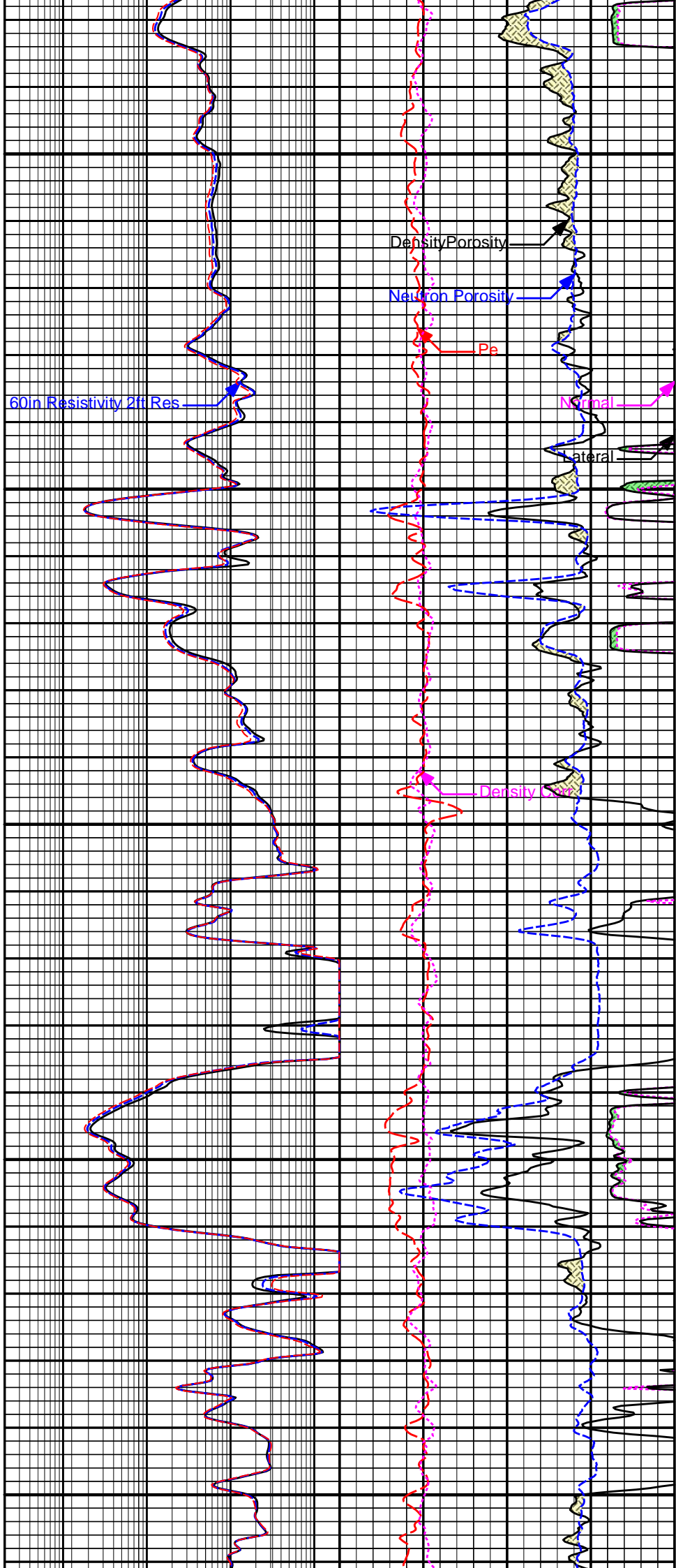
90in Resistivity 2ft Res

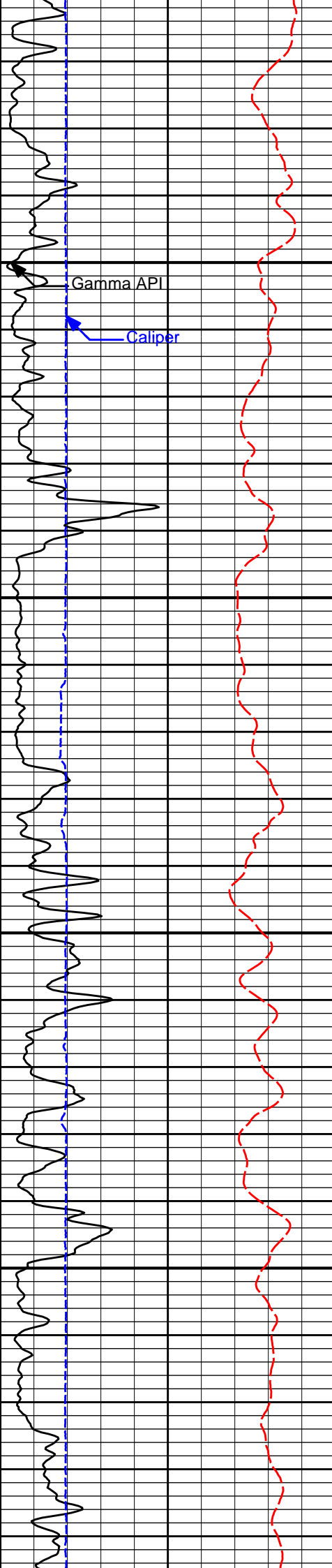




5800

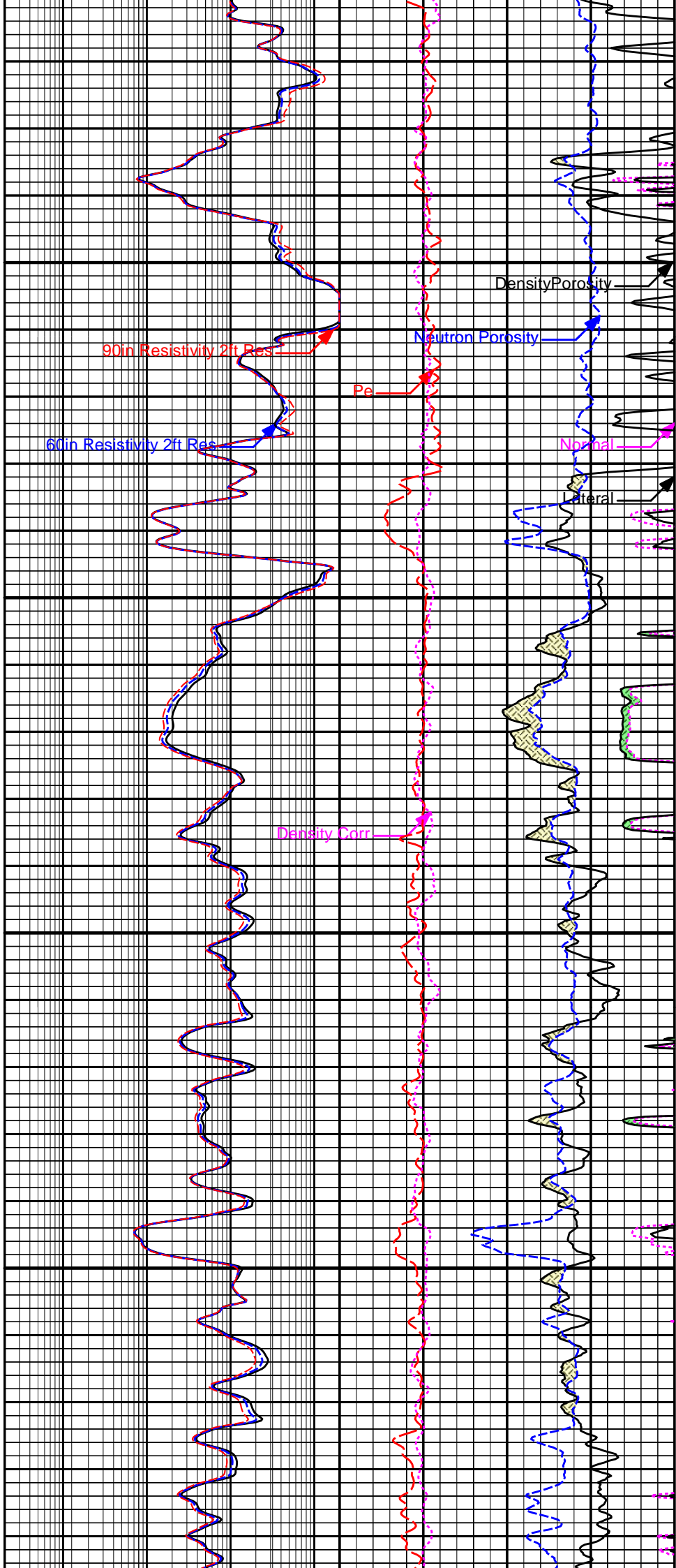
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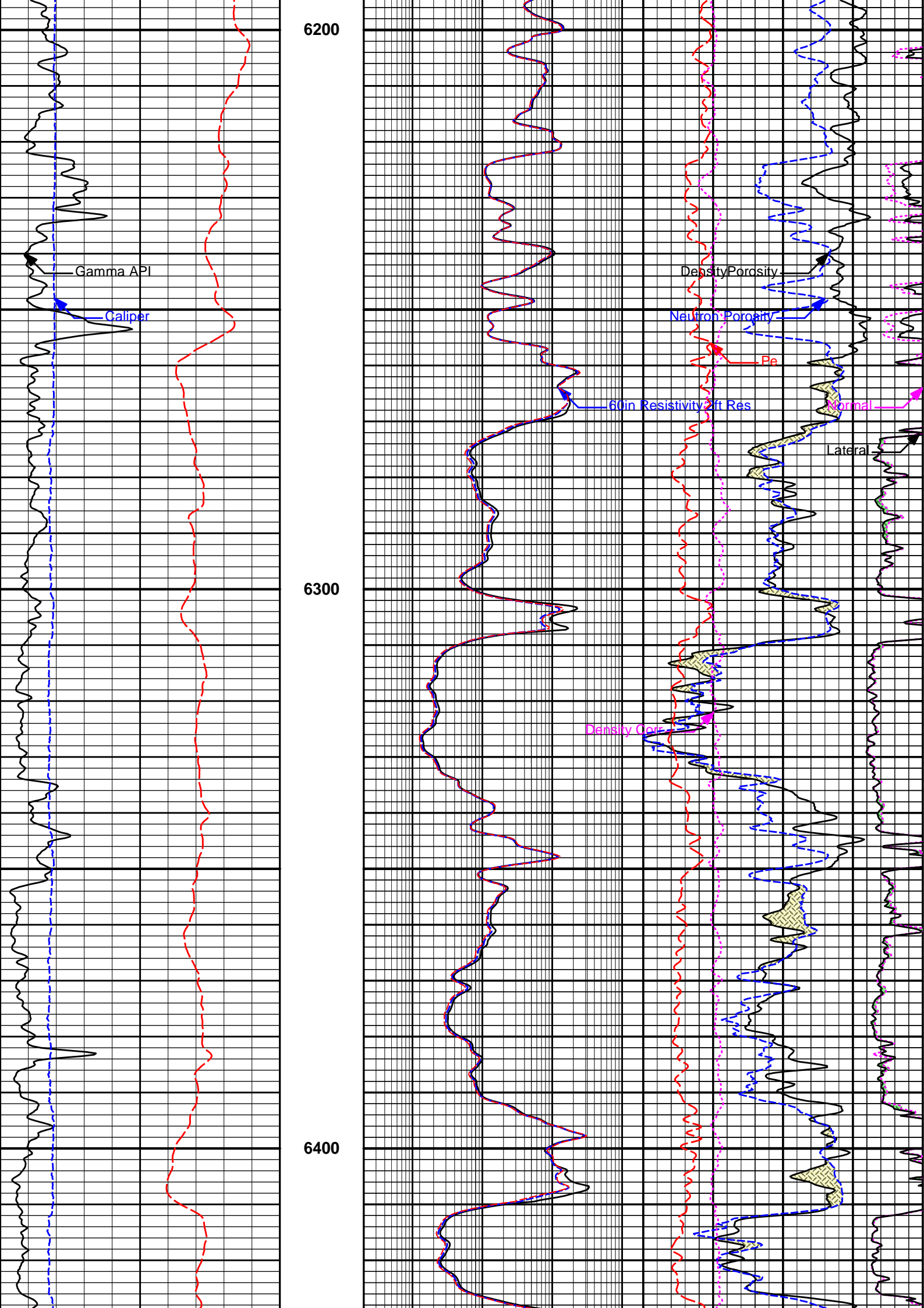


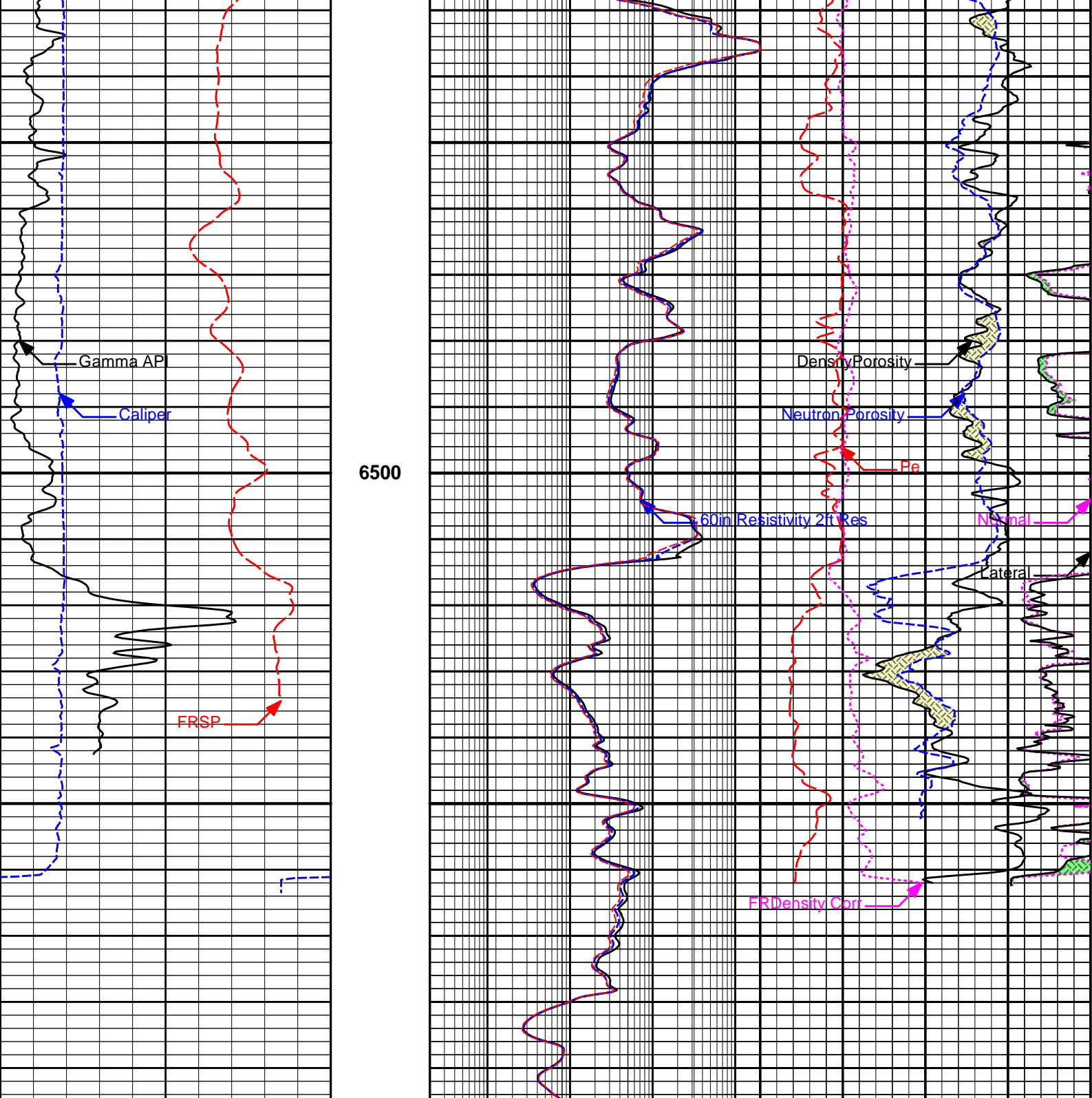


6000

6100





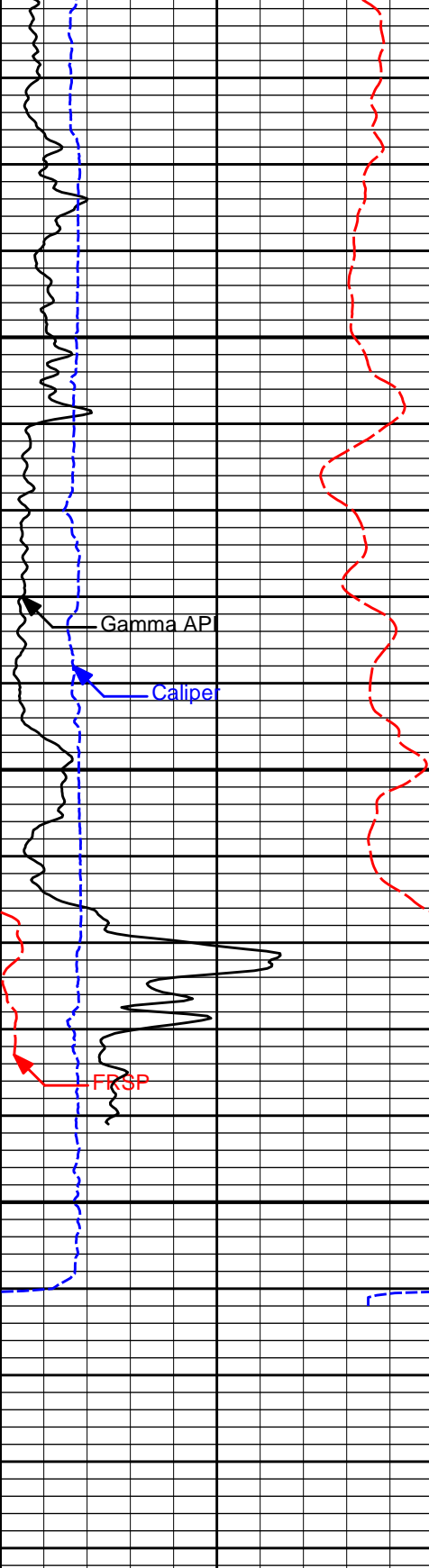


6	Caliper	16	1 : 240 ft	0.2	90in Resistivity 2ft Res	2000	0	Pe	10	0	Lateral	20	
	inches			0.2	60in Resistivity 2ft Res	2K	-0.25	Density Corr	0.25		0	Normal	20
0	Gamma API	150			0.2	30in Resistivity 2ft Res	2000	30	Neutron Porosity				-10
	api				ohmm			percent					
	SP						30	Density Porosity				-10	
	-]20[+							percent					

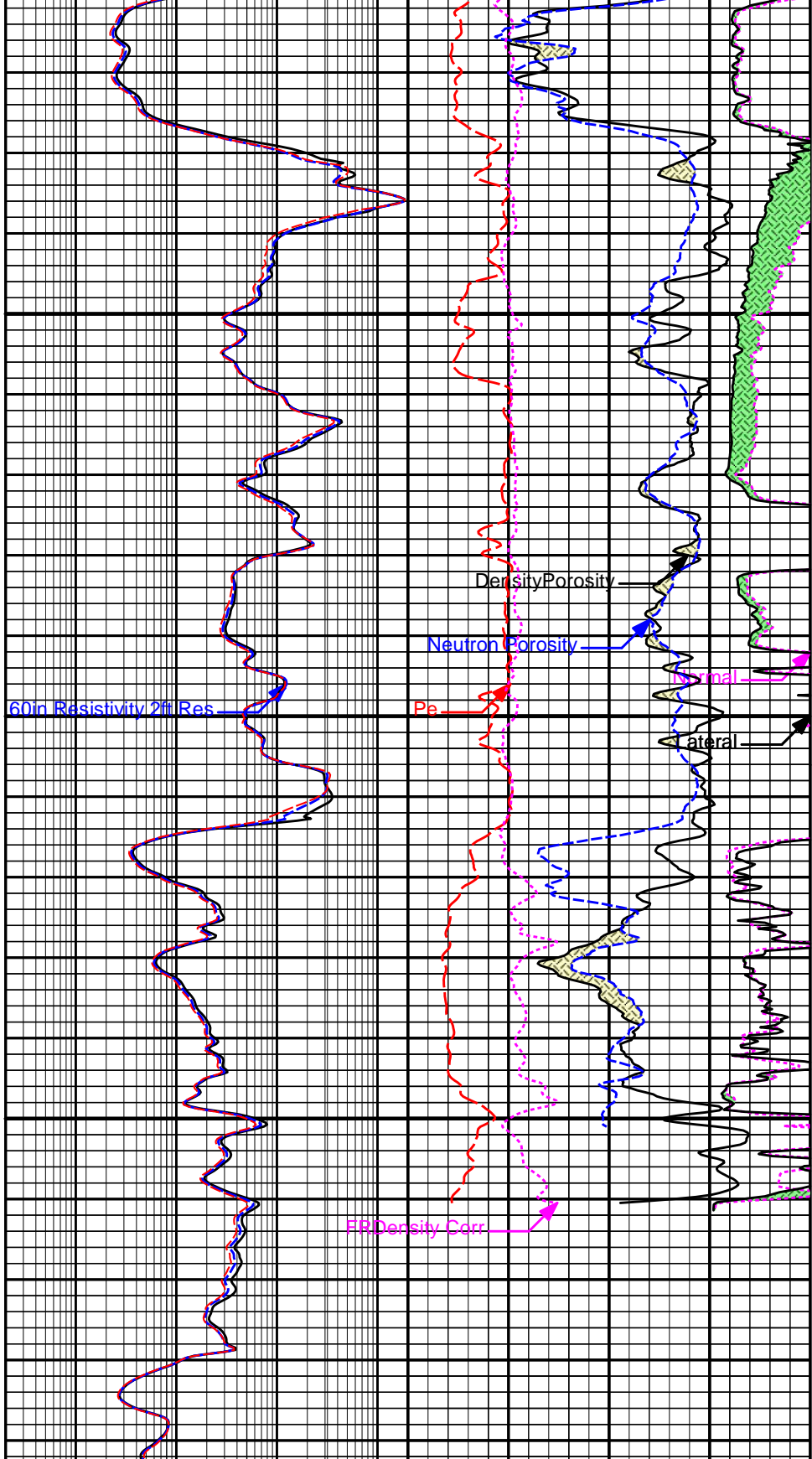
HALLIBURTON

Plot Time: 18-Oct-17 04:49:20
 Plot Range: 1440 ft to 6594.75 ft
 Data: MERIT_LCSLU 108\Well Based\MAIN\
 Plot File: \\QUAD\TRIPLEx_wML

5 INCH MAIN LOG



6500



6	Caliper	16
	inches	
0	Gamma API	150
	api	
	SP	
	-]20[+	

1 : 240
ft

0.2	90in Resistivity 2ft Res	2000
	ohm-metre	
0.2	60in Resistivity 2ft Res	2K
	ohm-metre	
0.2	30in Resistivity 2ft Res	2000
	ohmm	

0	Pe	10
	ohm-metre	
0	Density Corr	0.25
	gram per cc	
0	Neutron Porosity	-10
	percent	
30	DensityPorosity	-10
	percent	

5 INCH REPEAT LOG

COMPANY	MERIT ENERGY COMPANY, LLC		
WELL	LCSLU 108 (WSW)		
FIELD	BIG SKY		
COUNTY	GRANT	STATE	KANSAS
HALLIBURTON		TRIPLE COMBO LOG	