

HALLIBURTON

SPECTRAL DENSITY  
DUAL SPACED NEUTRON  
ARRAY COMPENSATED  
TRUE RESISTIVITY

COMPANY	BILL BARRETT CORPORATION		
WELL	JOLLEY 42D-20-691		
FIELD	JOLLEY		
COUNTY	GARFIELD		
STATE	CO		
Permanent Datum	GL	Elev. 5530.0 ft	Other Services: RWCH
Log measured from	KB	D.F. 5553.0 ft	
Drilling measured from	KB	G.L. 5530.0 ft	
Date	22-Jul-11		
Run No.	ONE		
Depth - Driller	7987.00 ft		
Depth - Logger	7982.0 ft		
Bottom - Logged Interval	7980.0 ft		
Top - Logged Interval	CASING		
Casing - Driller	9.625 in @ 859.0 ft	@	
Casing - Logger	857.0 ft		
Bit Size	7.875 in	@	
Type Fluid in Hole	WBM		
Density	10.4 ppg	53.00 sg/c	
PH	9.70 pH	8.8 cp/m	
Source of Sample	MUD TANK		
Rm @ Meas. Temperature	1.820 ohmm @ 78.20 degF	@	
Rmf @ Meas. Temperature	1.67 ohmm @ 75.00 degF	@	
Rmc @ Meas. Temperature	1.594 ohmm @ 75.00 degF	@	
Source Rmf	CHART	CHART	
Rm @ BHT	0.89 ohmm @ 167.0 degF	@	
Time Since Circulation	5.0 hr		
Time on Bottom	22-Jul-11 13:20		
Max. Rec. Temperature	167.0 degF @ 7982.0 ft	@	
Equipment	11014853	G.J., CO	
Recorded By	J. KRONABLE		
Witnessed By	CURTIS CROWTON		

Fold here

Service Ticket No.: N/A		API Serial No.: 05045196750000		PGM Version: WL INSITE R3.2.1 (Build 7)			
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.
Rmf @ Meas. Temp.	@	@		ONE	ACRT-9019425	N/A	1.5" S.O.
Rmc @ Meas. Temp.	@	@			E7486		
Source Rmf	Rmc						
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.	11001661	Serial No.		Serial No.	10951300	Serial No.	10993887
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.	102 A	Spacing		Log Type	GAMMA/GAMMA	Log Type	THERM/THERM
Type	SCINT			Source Type	Cs-137	Source Type	Am241Be
Length	8"	LSA [Y/N]		Serial No.	5153 GW	Serial No.	DSN-388
Distance to Source	11'	FWDA [Y/N ]		Strength	1.5"	Strength	15 Ci
LOGGING DATA							
GENERAL		GAMMA		DENSITY		NEUTRON	

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
4987.00					
	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	10.400	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0.00	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	7987.00	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 /	EQUC	Select Casing of E	Automatic	

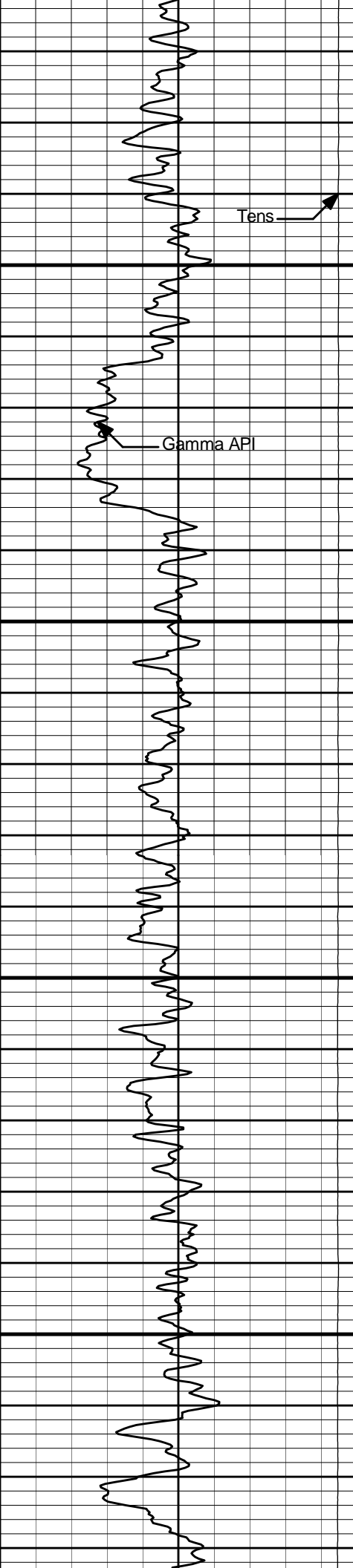
CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.250	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position	Centered	
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	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.680	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	
BOTTOM				
Data: BBJOLL42D20_691\0001 TRIPLE\IDLE			Date: 22-Jul-11 13:44:33	

**HALLIBURTON**

Plot Time: 22-Jul-11 15:43:36  
Plot Range: 42.33 ft to 7995.67 ft  
Data: BBJOLL42D20\_691\Well Based\\*\\*  
Plot File: \COMP\BBC\_9MC\_COMP

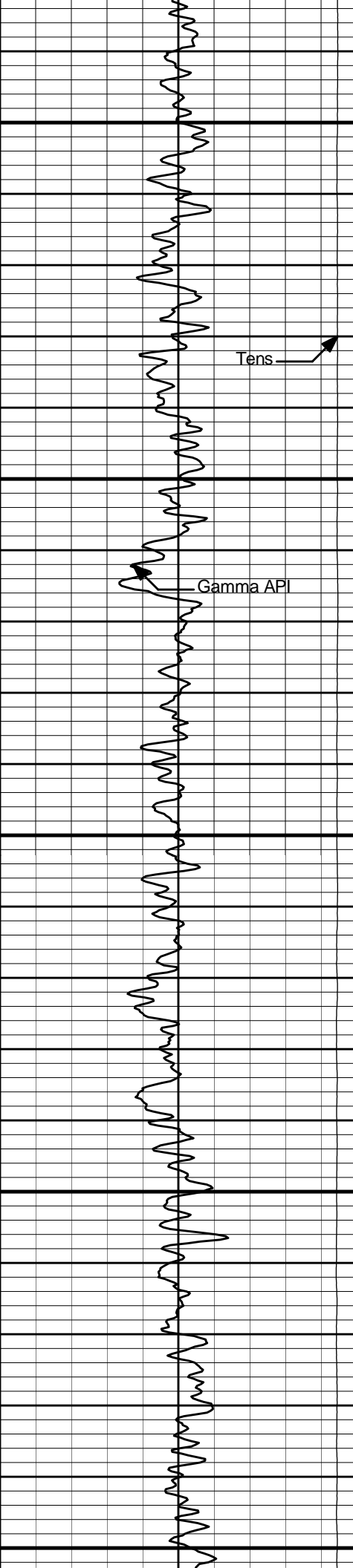
MAIN PASS 5" = 100'





300

400

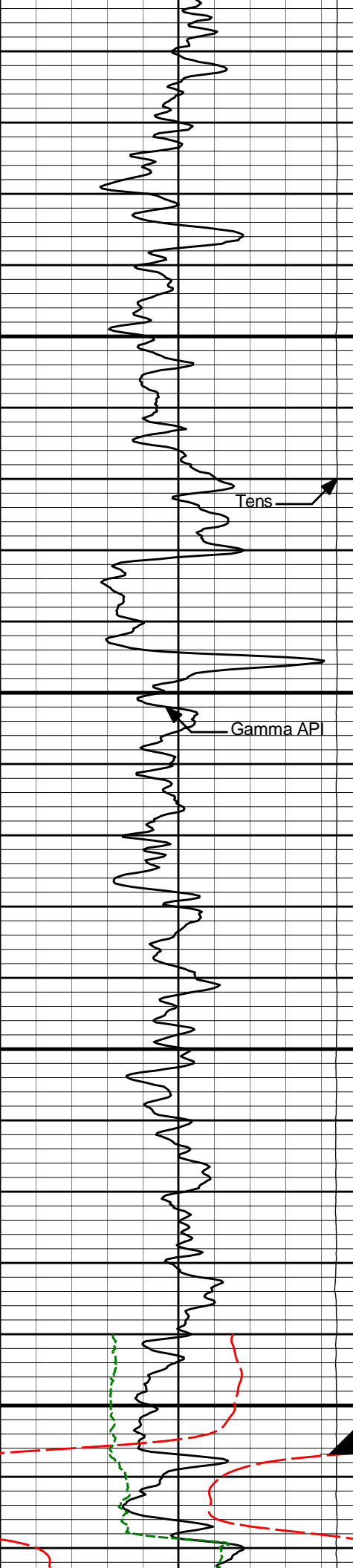


Tens

Gamma API

500

600



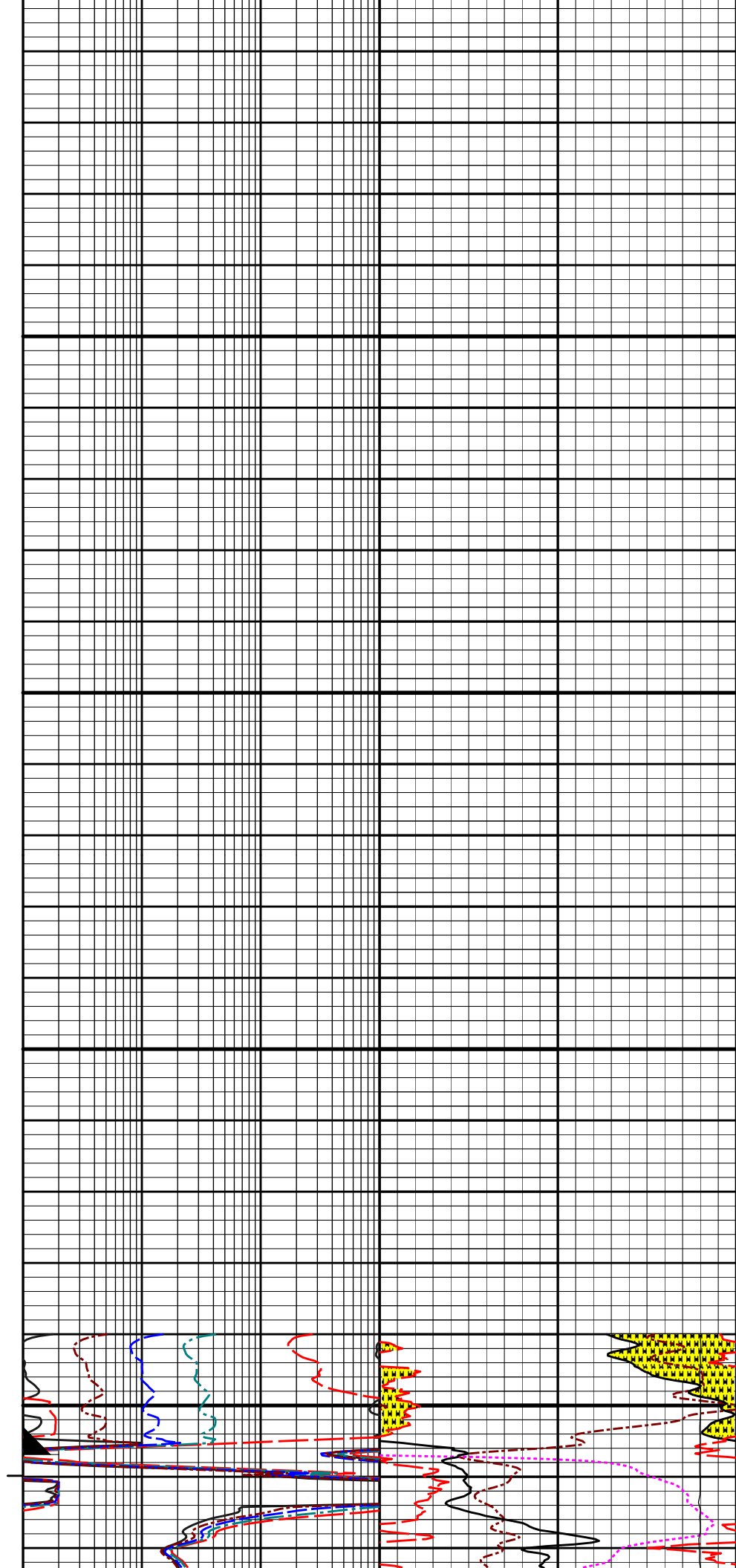
700

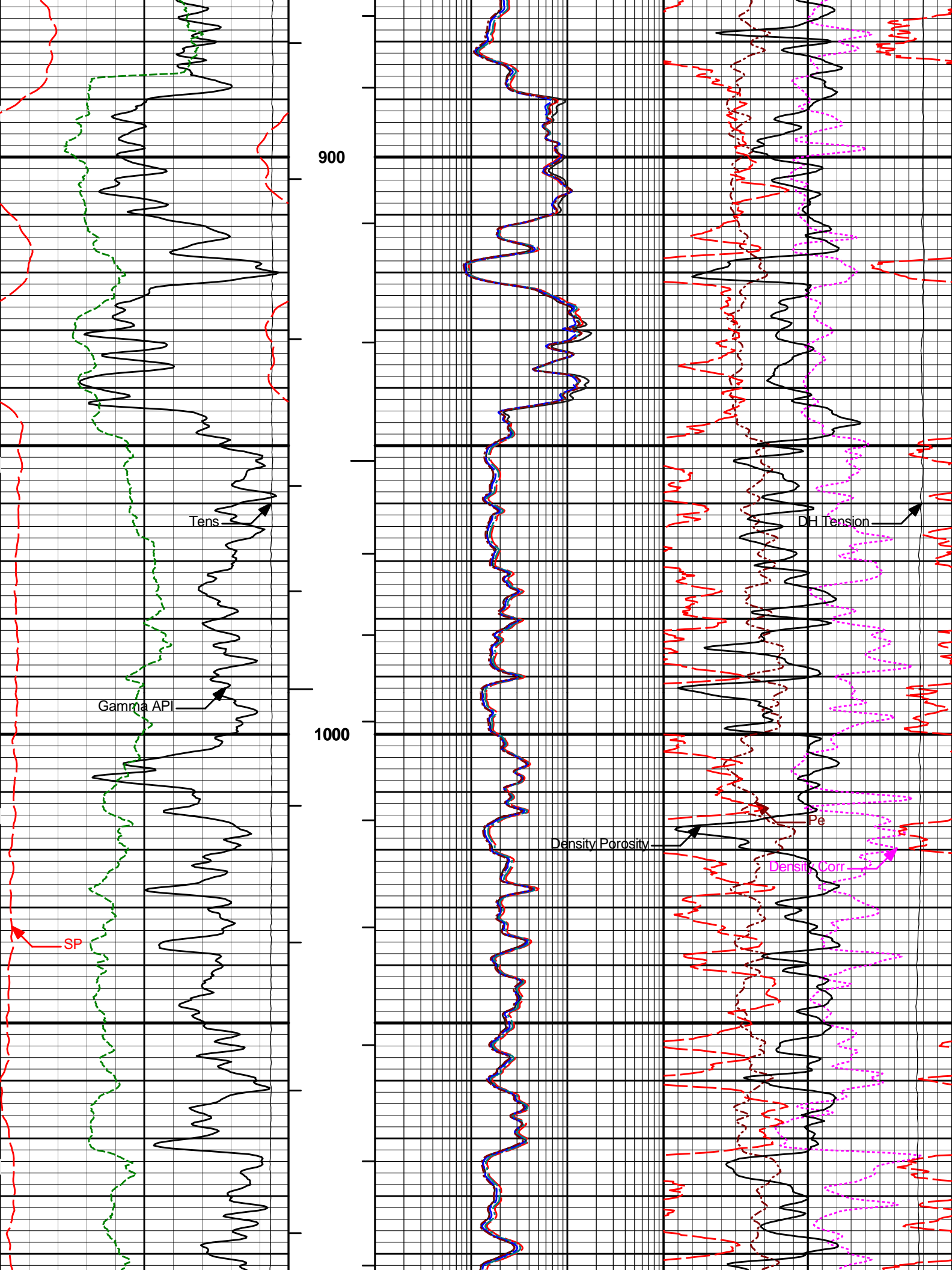
Tens

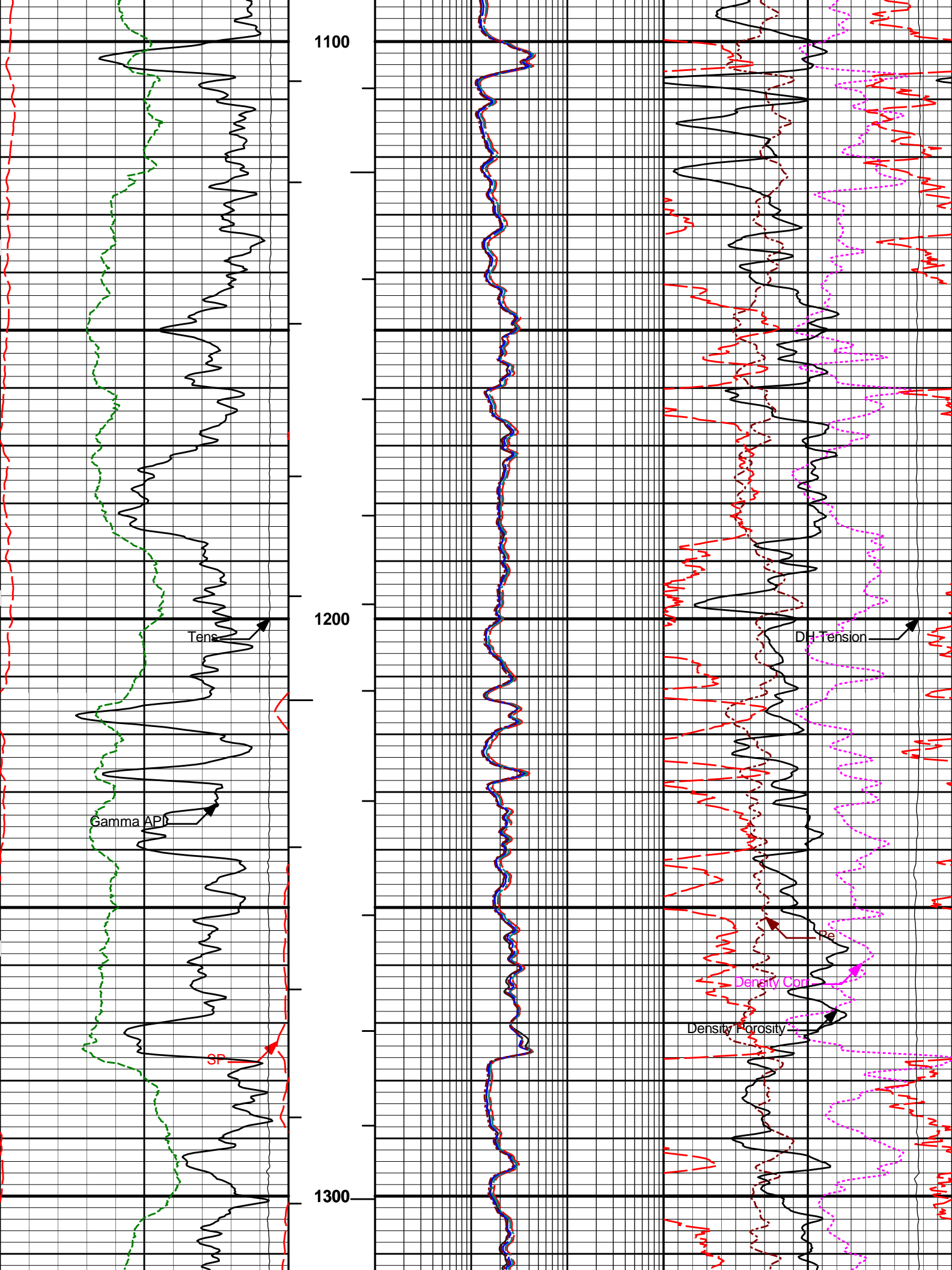
Gamma API

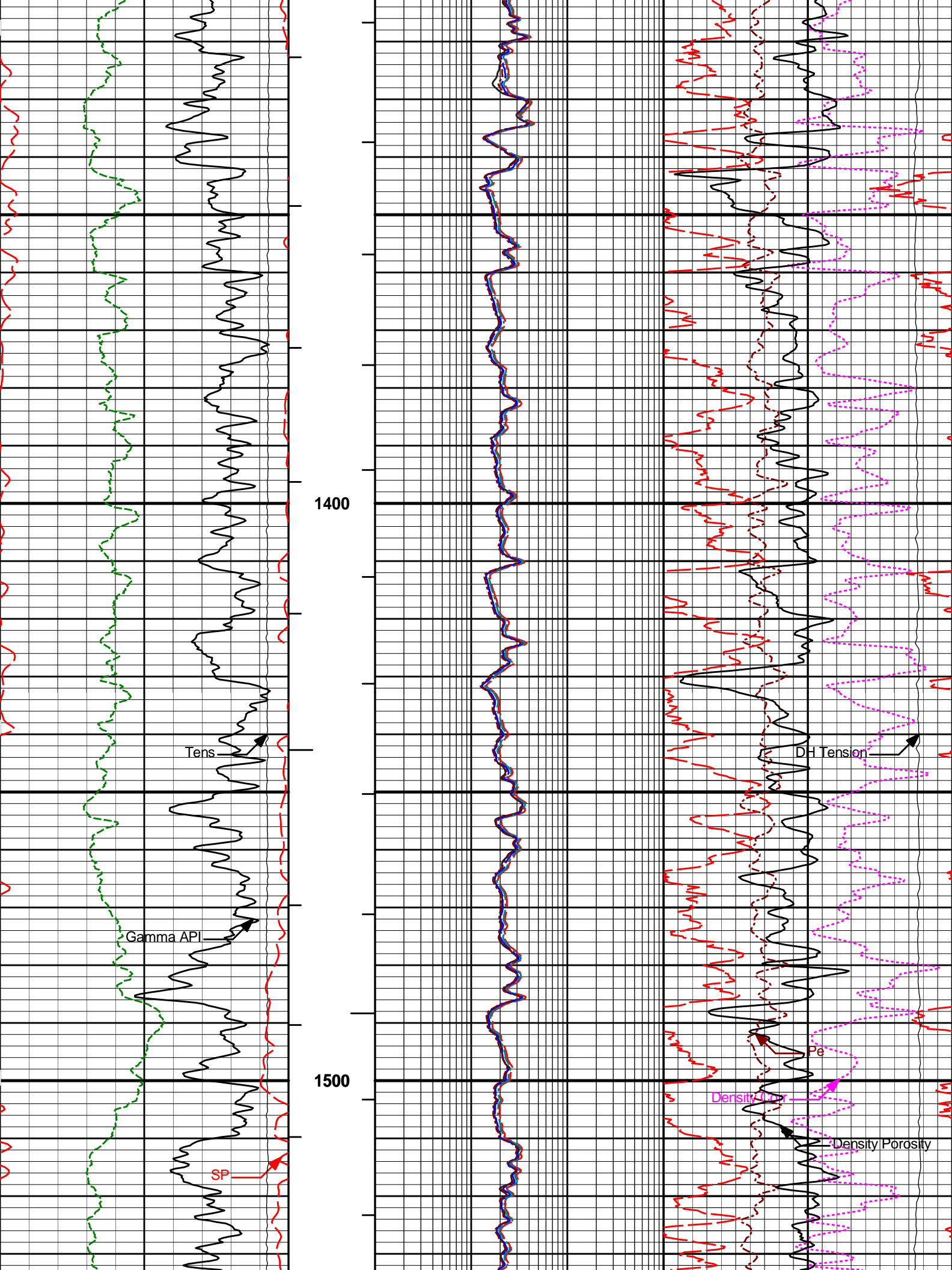
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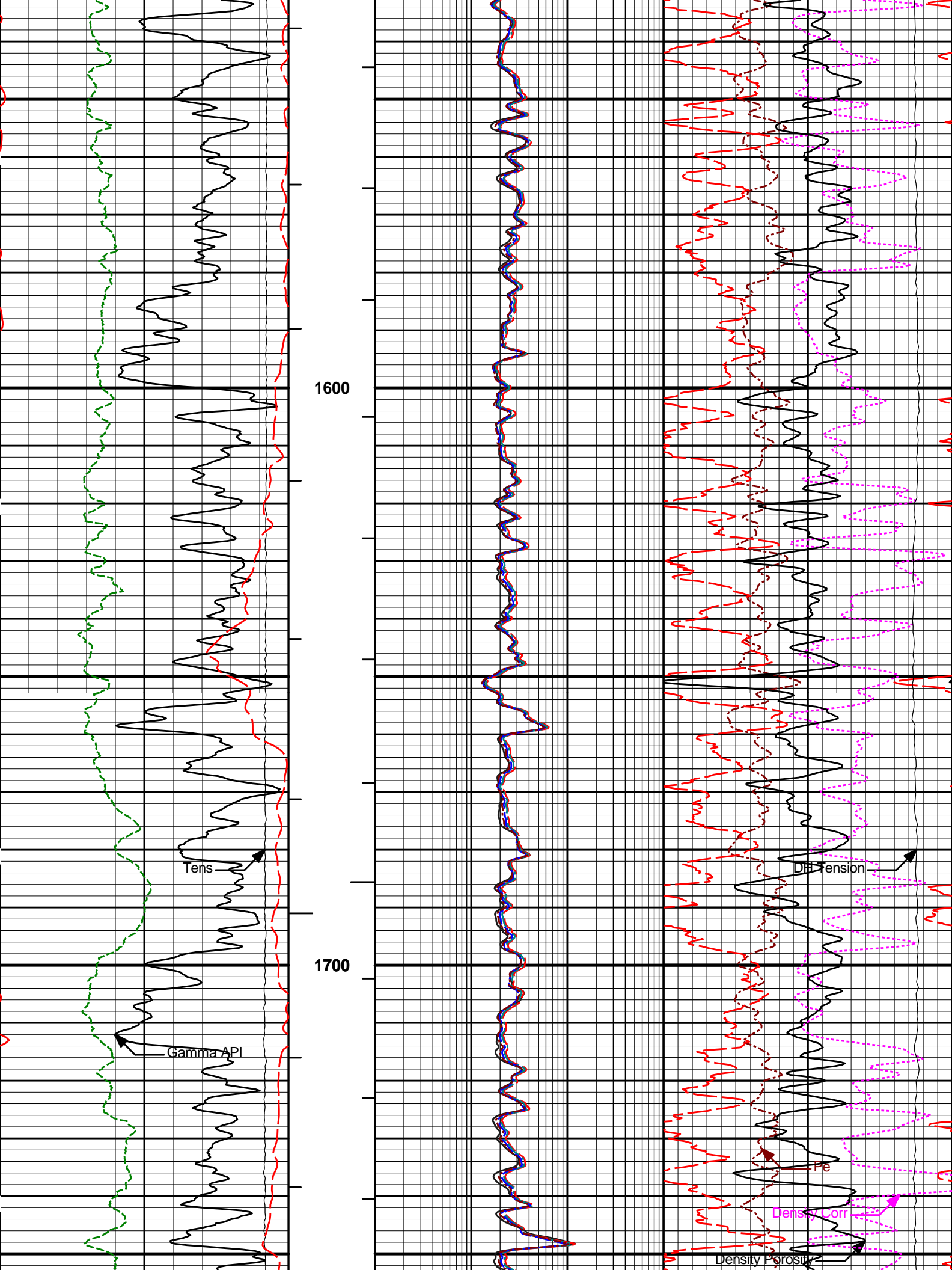
CSG

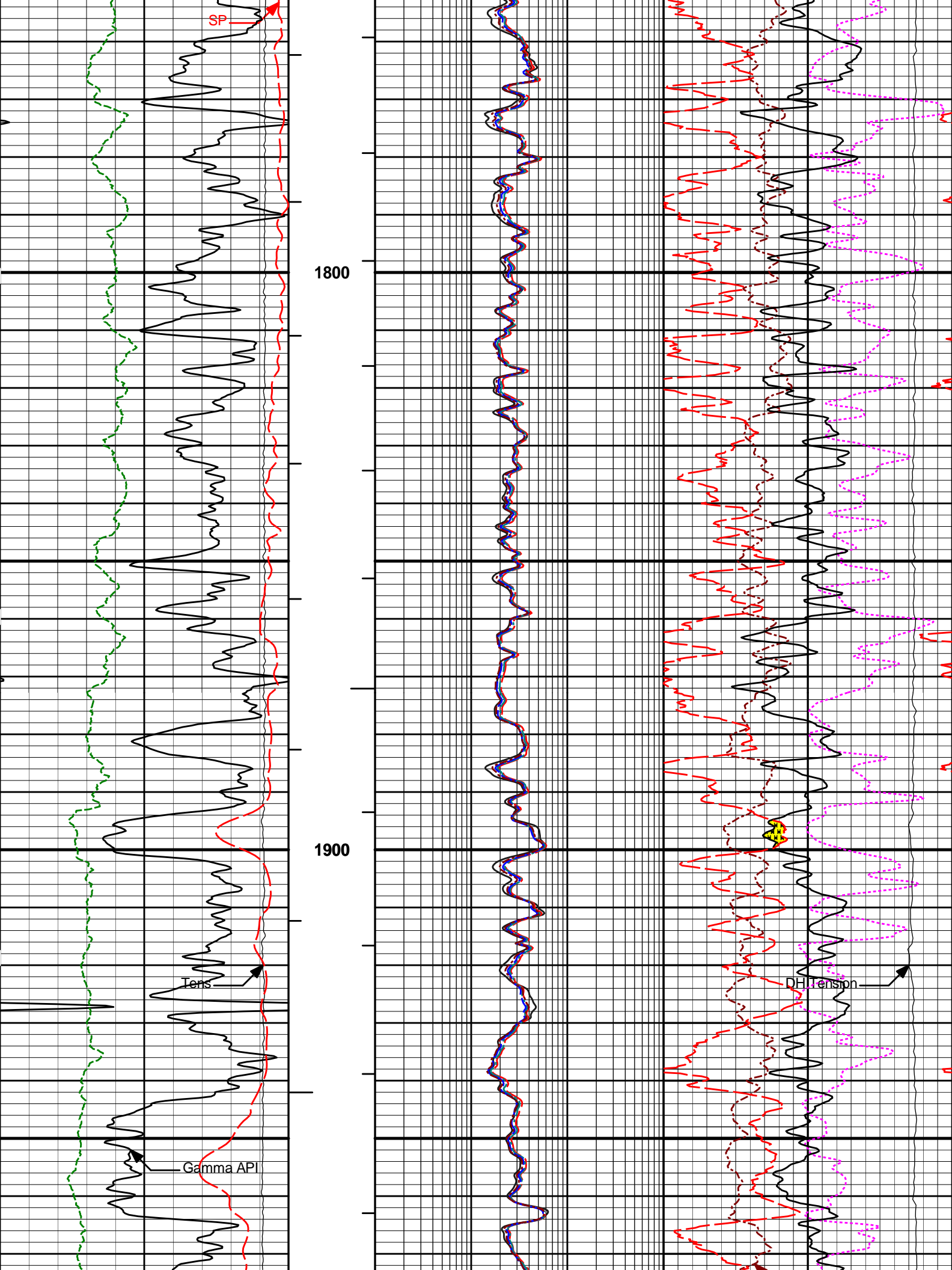


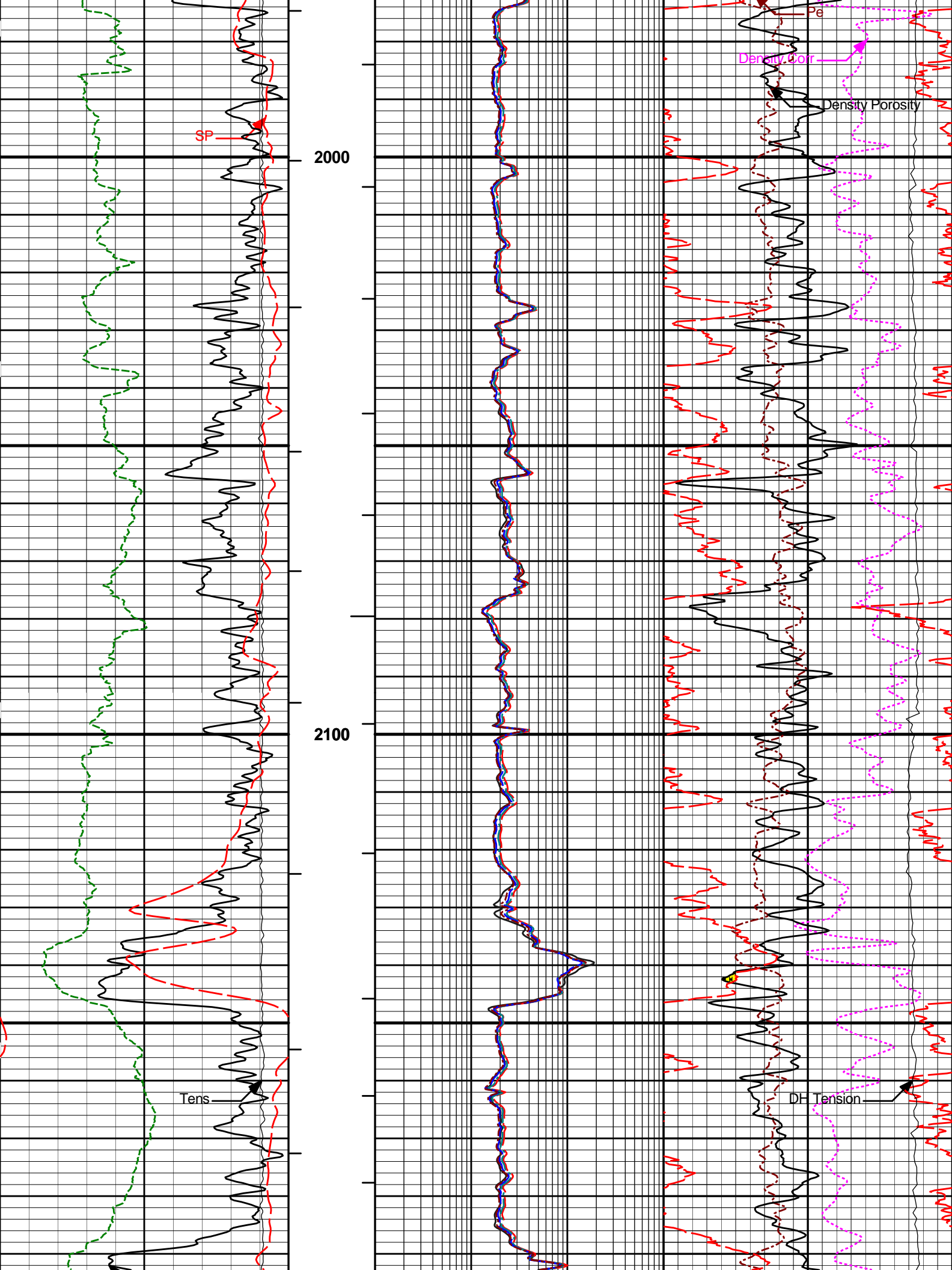


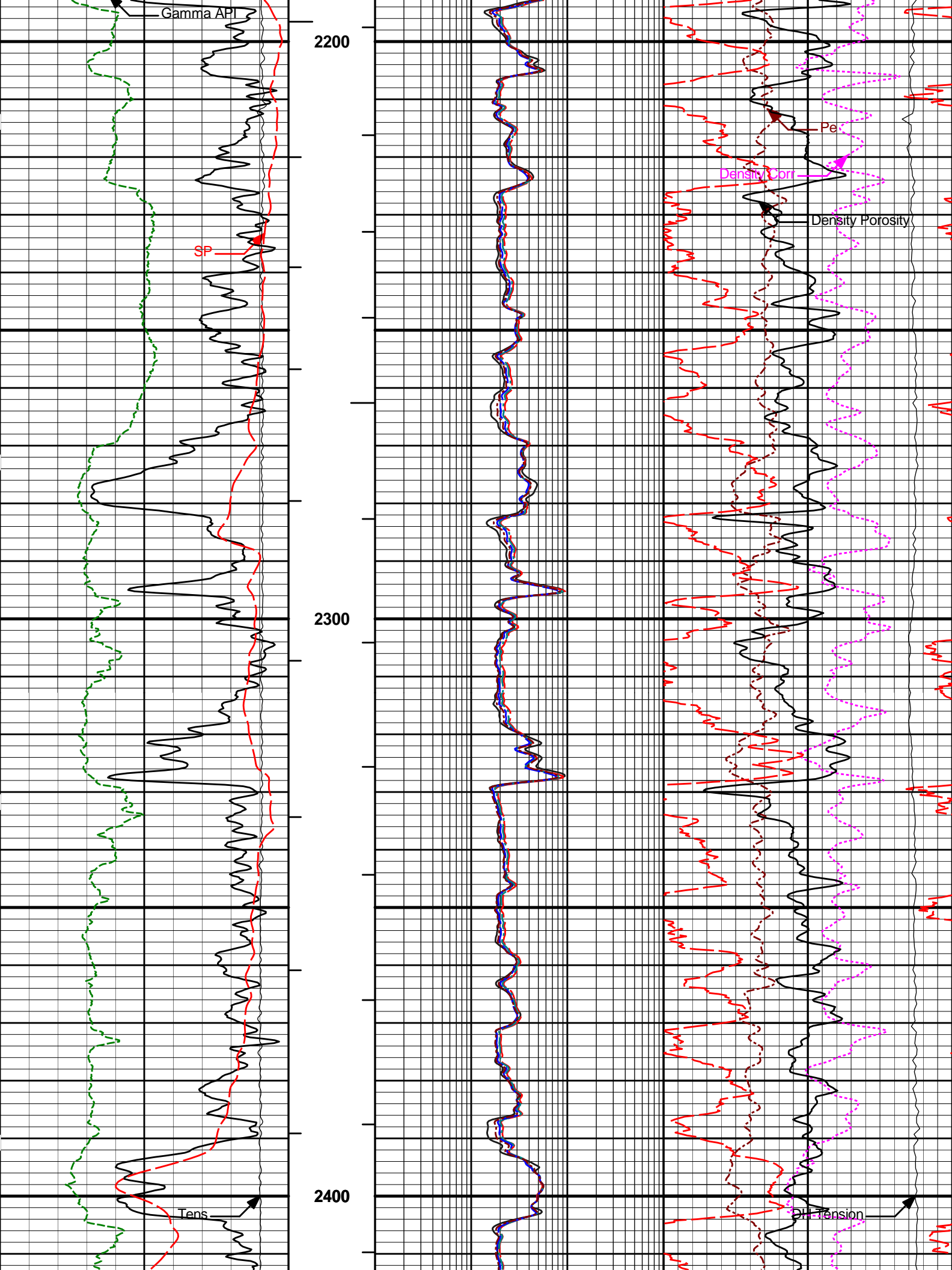


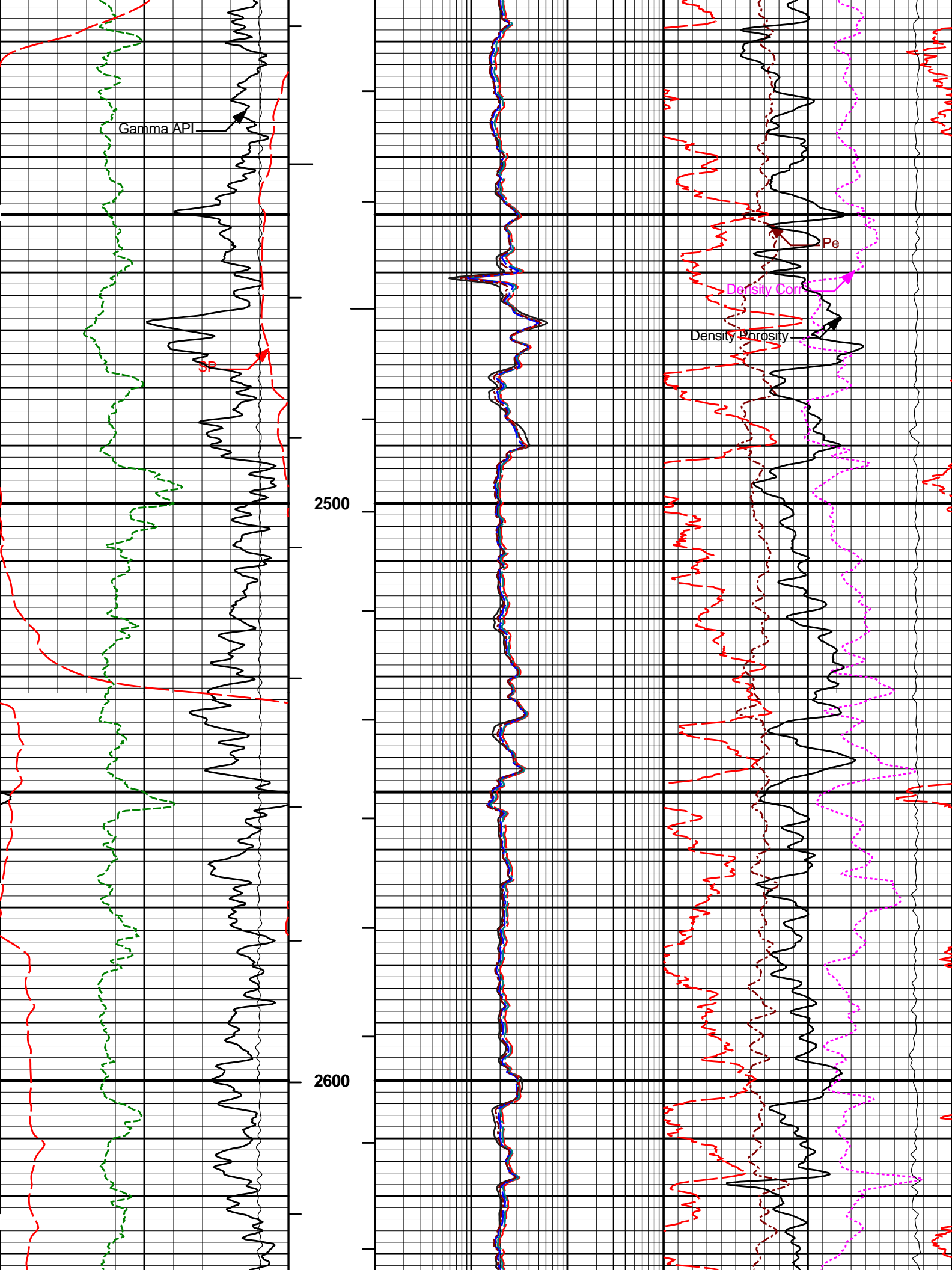


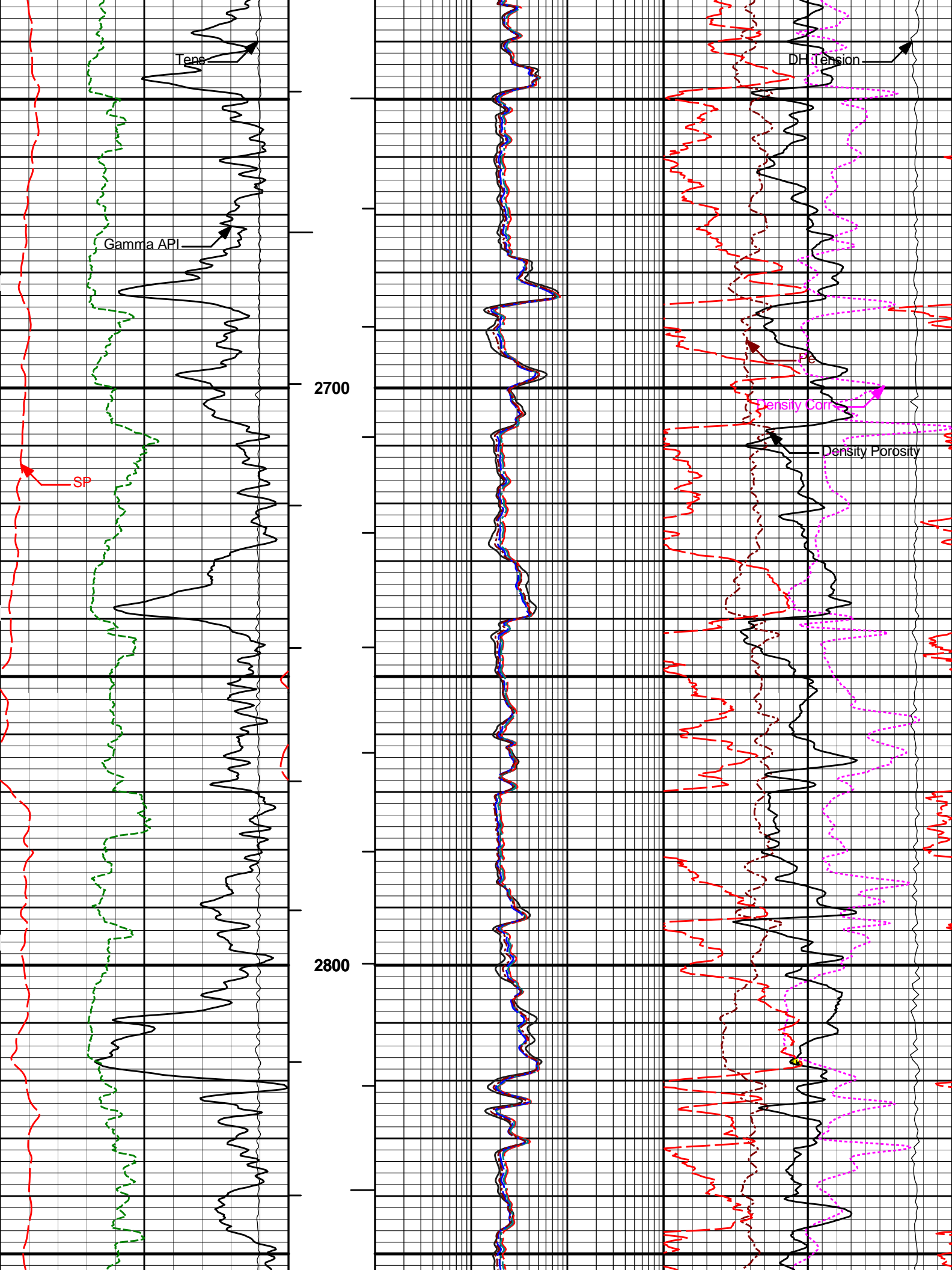


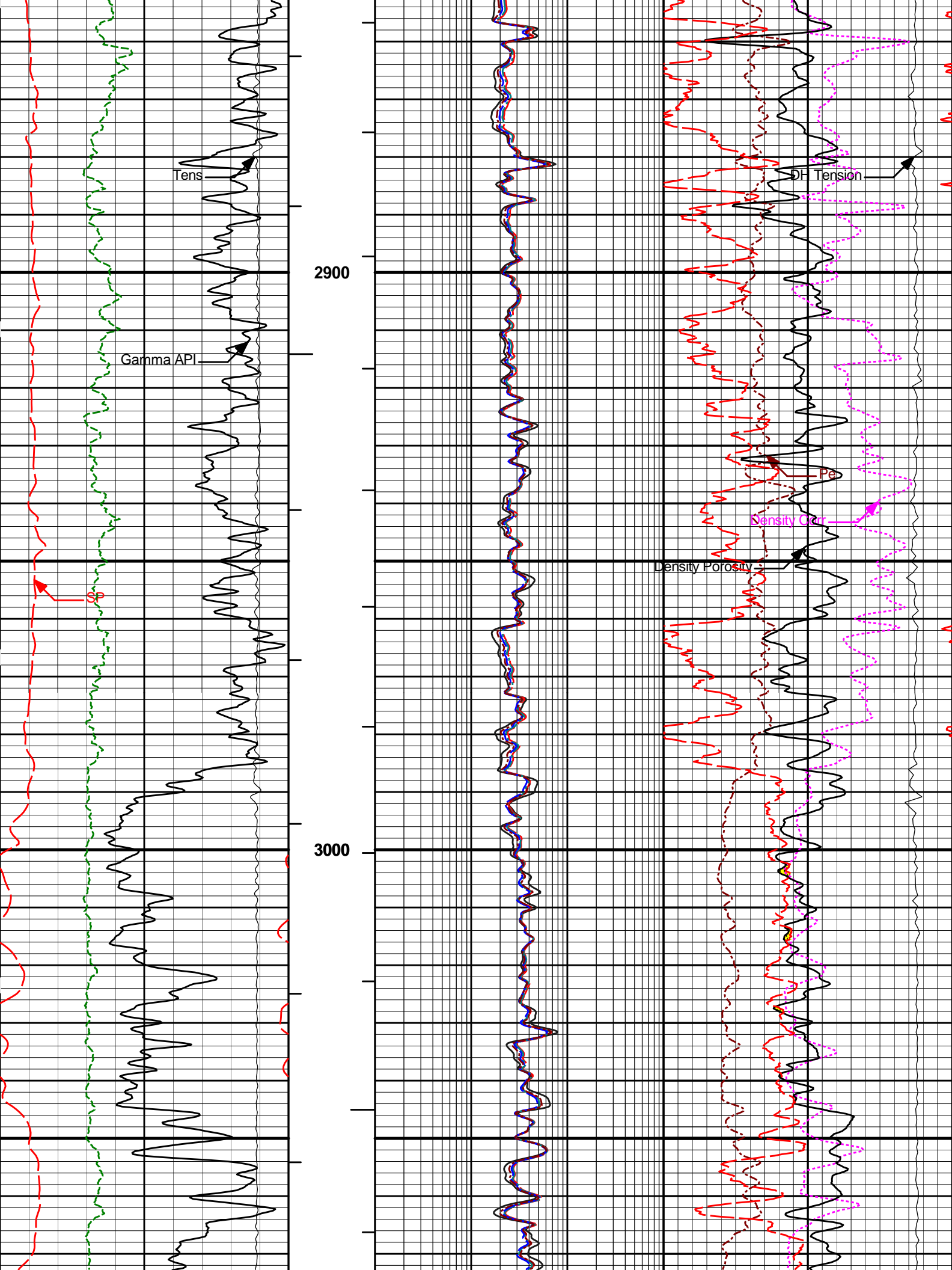


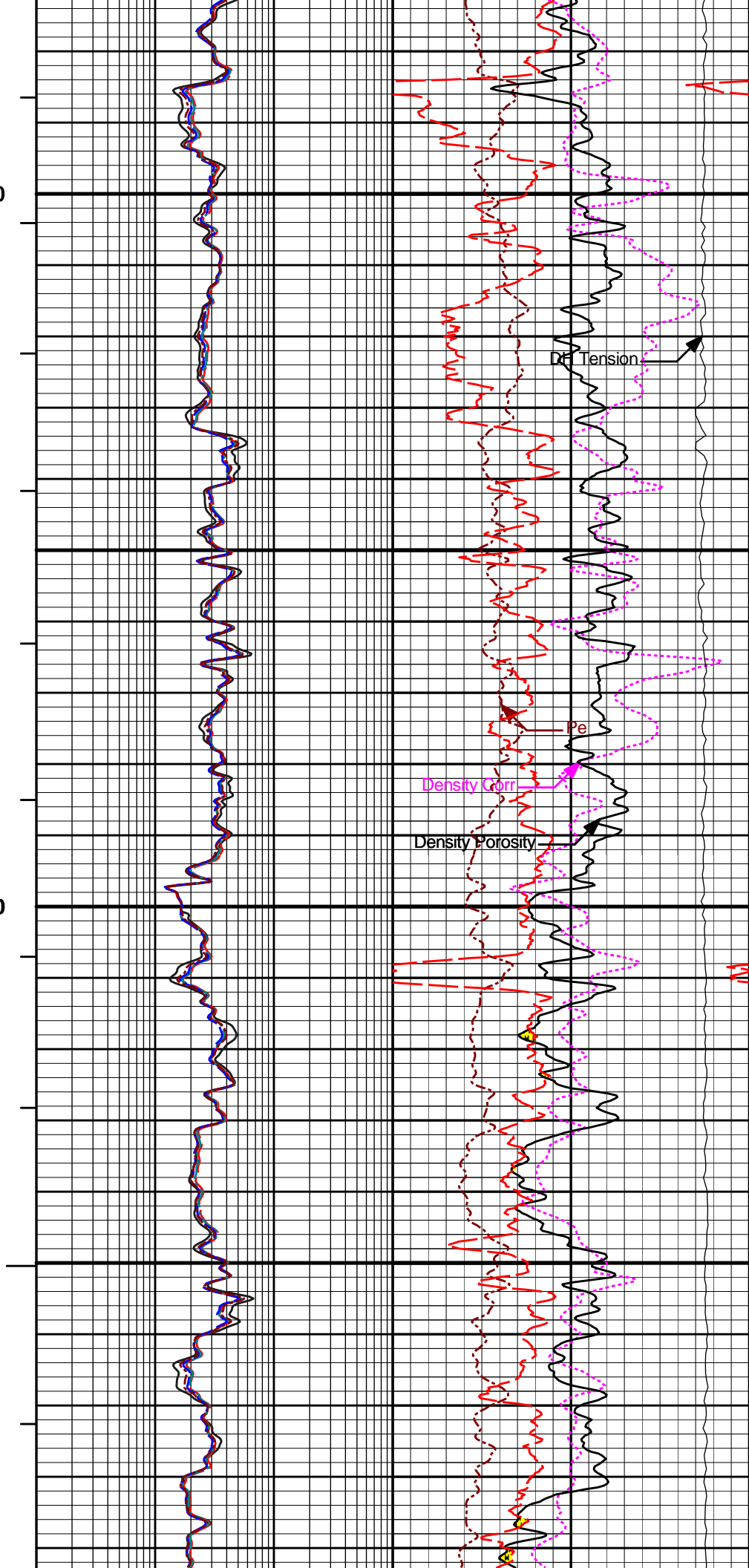
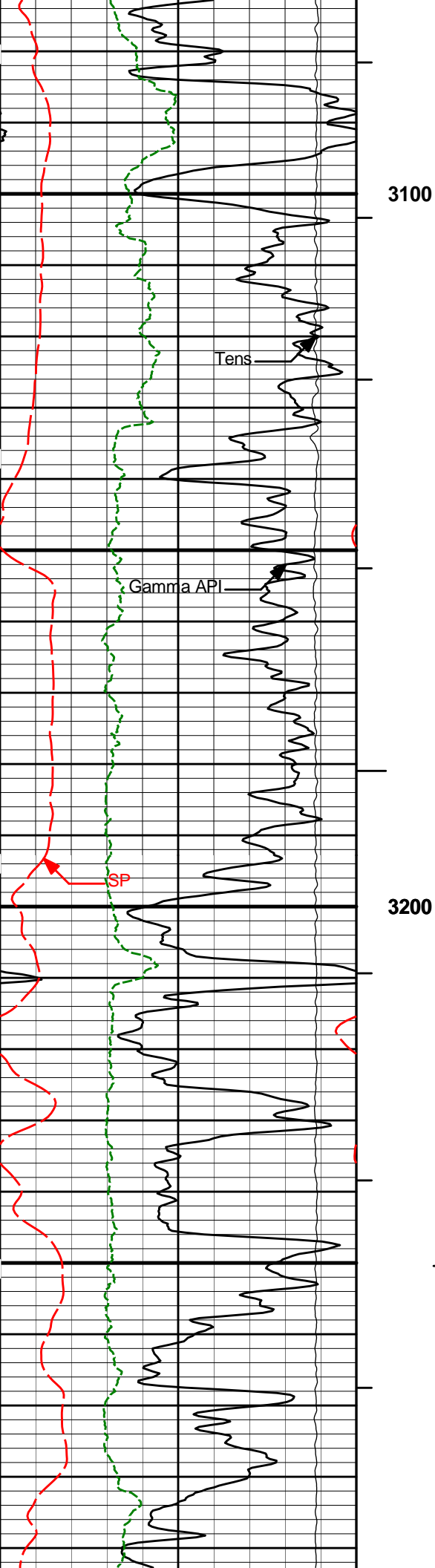


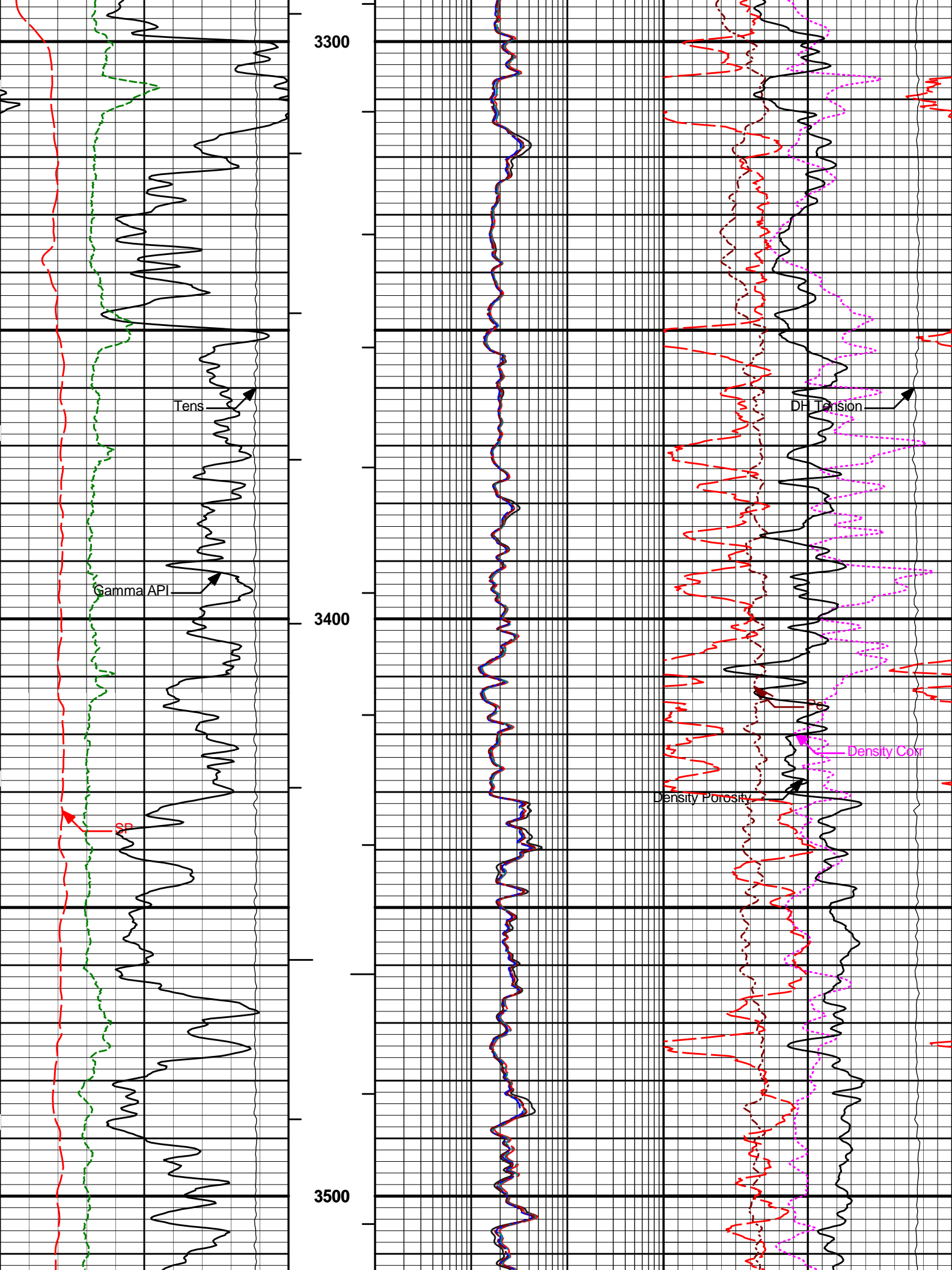


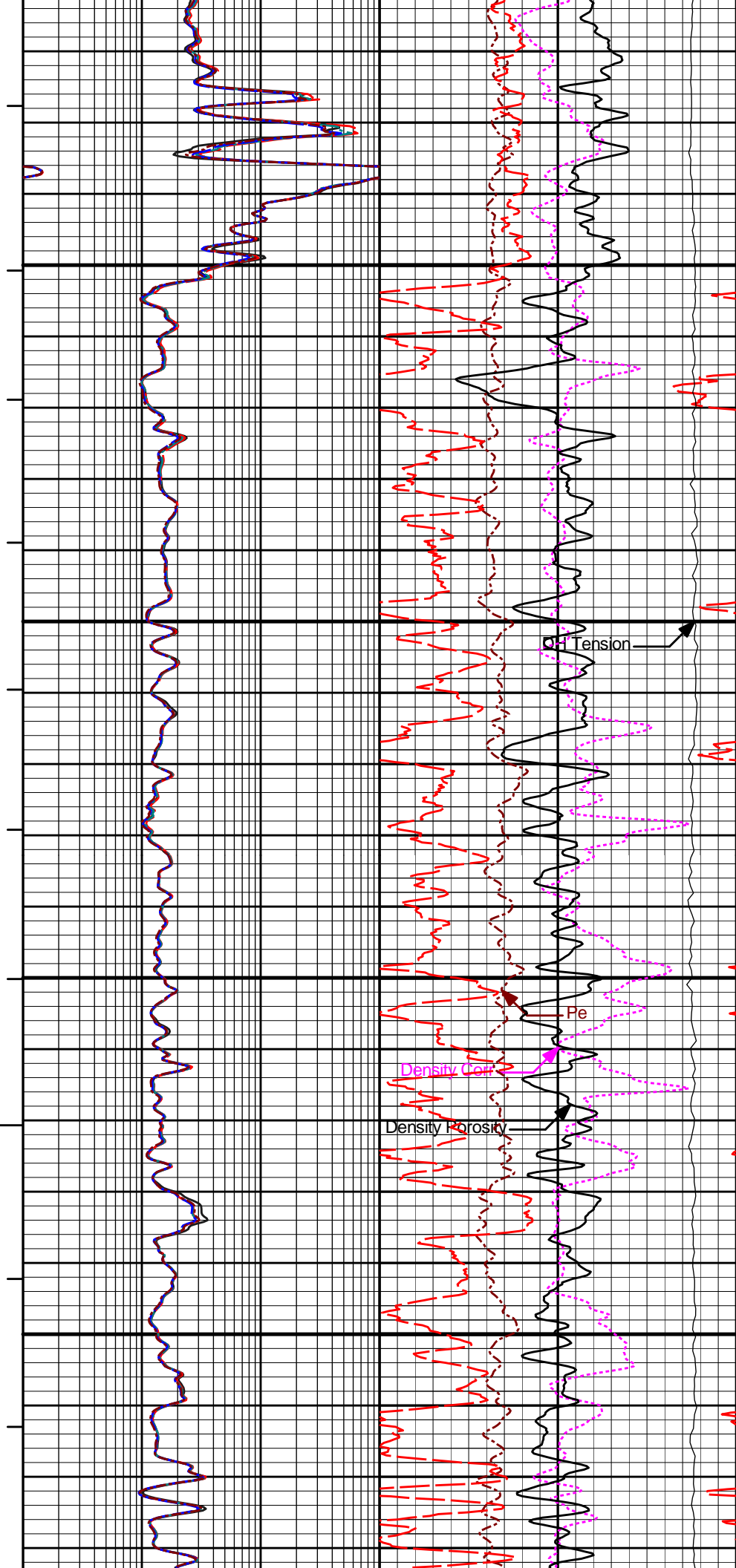
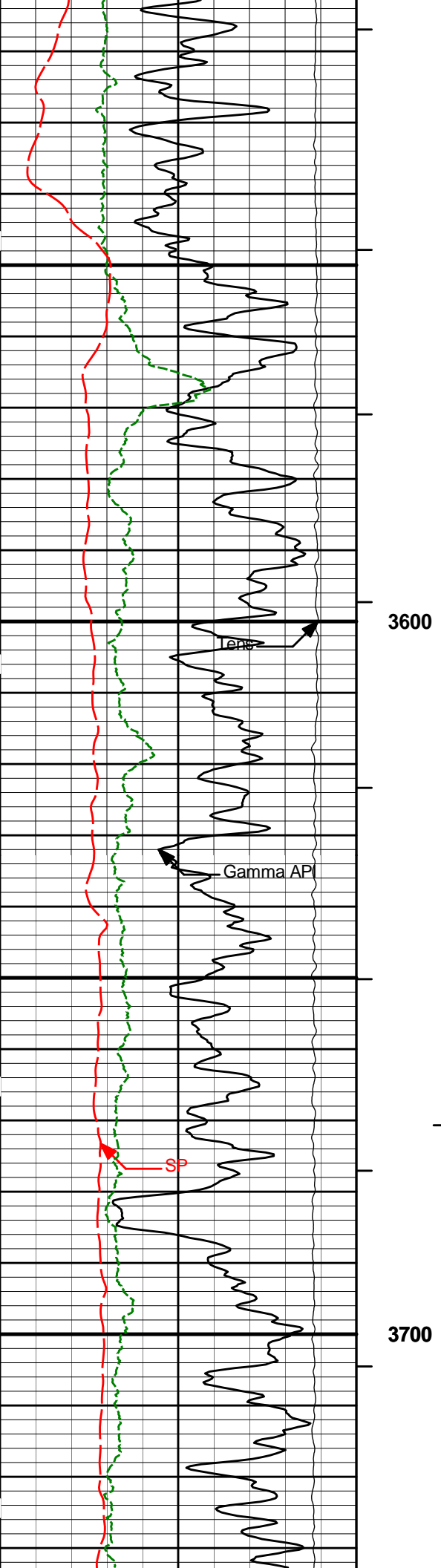


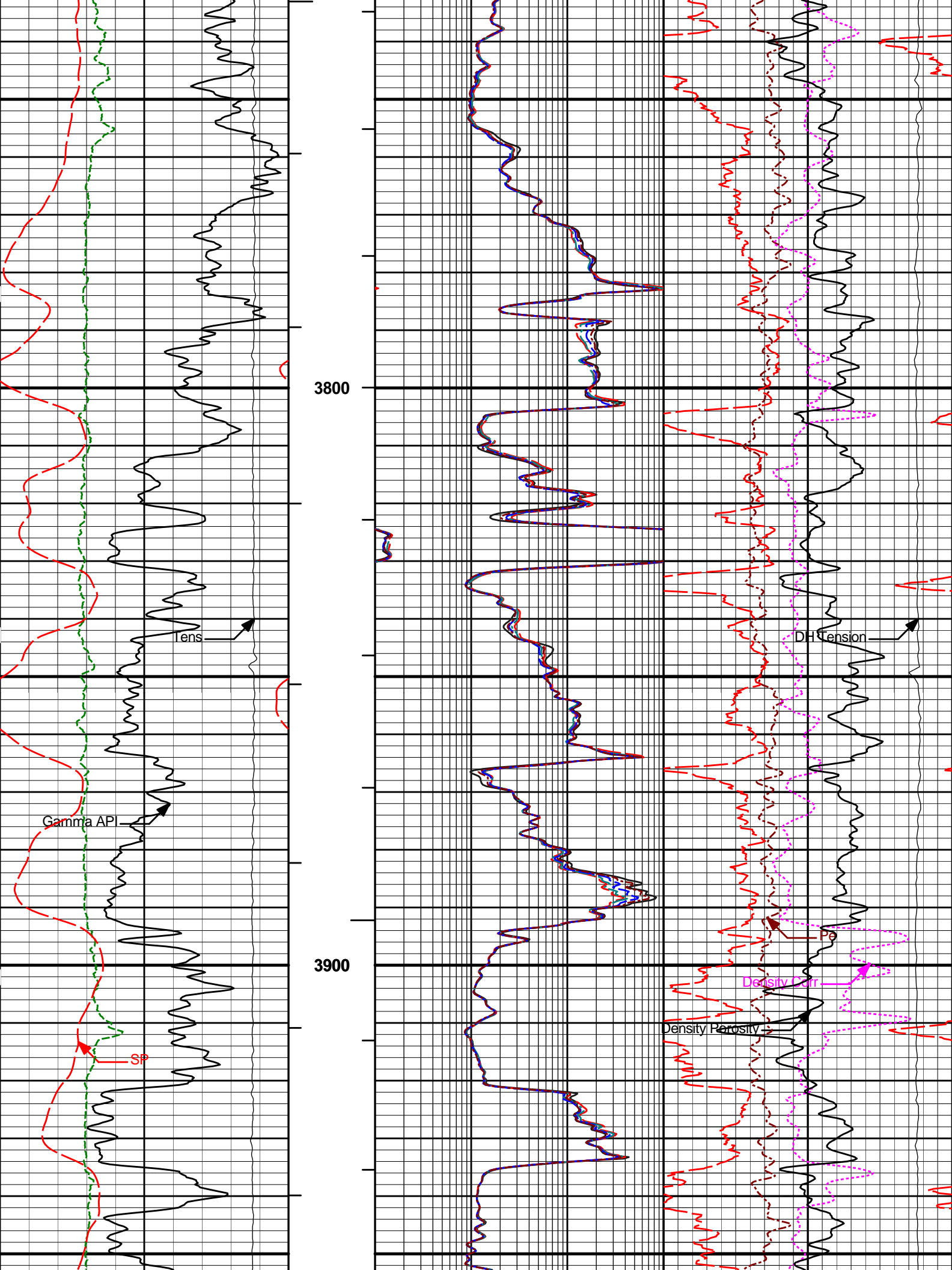


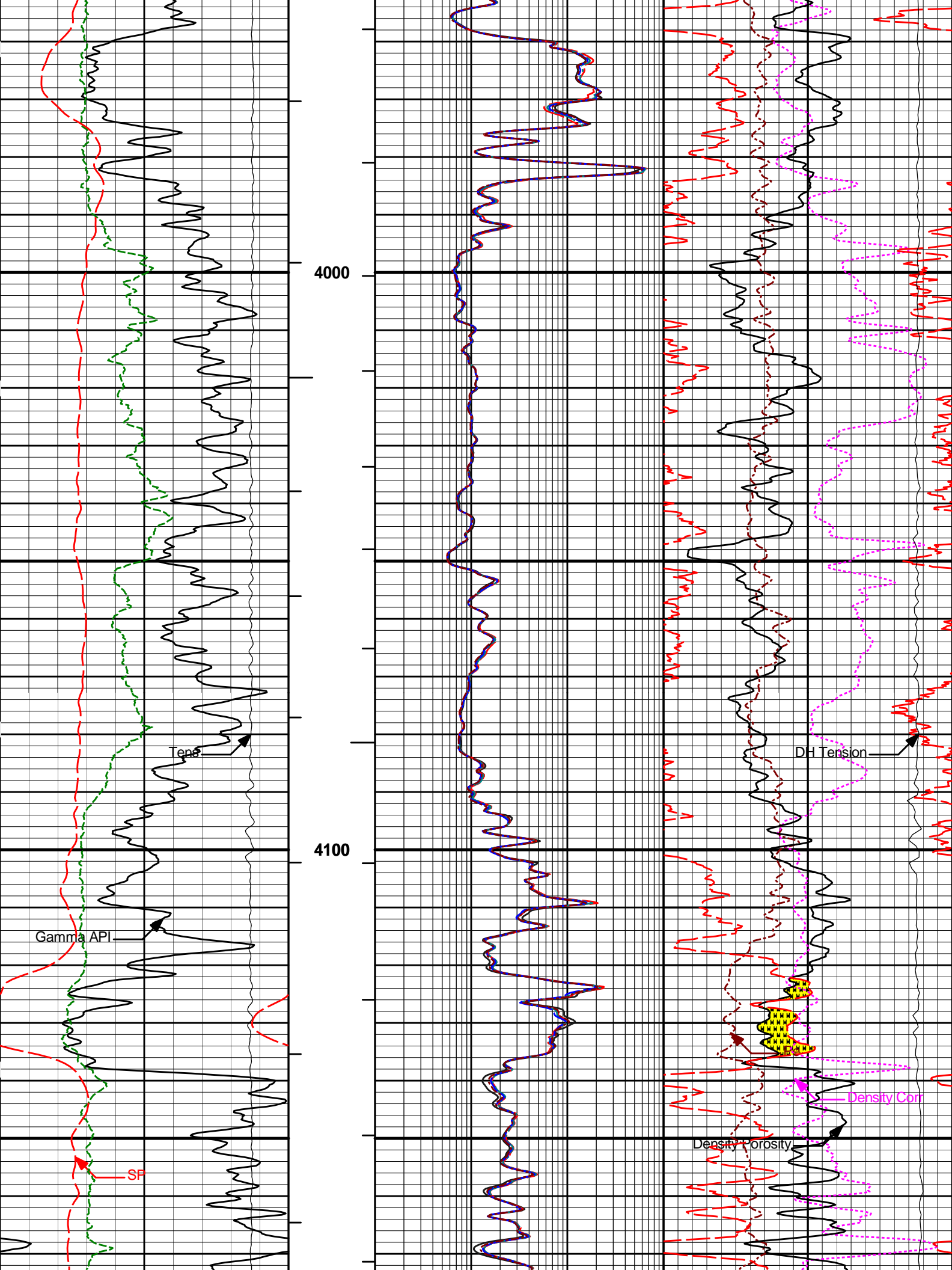


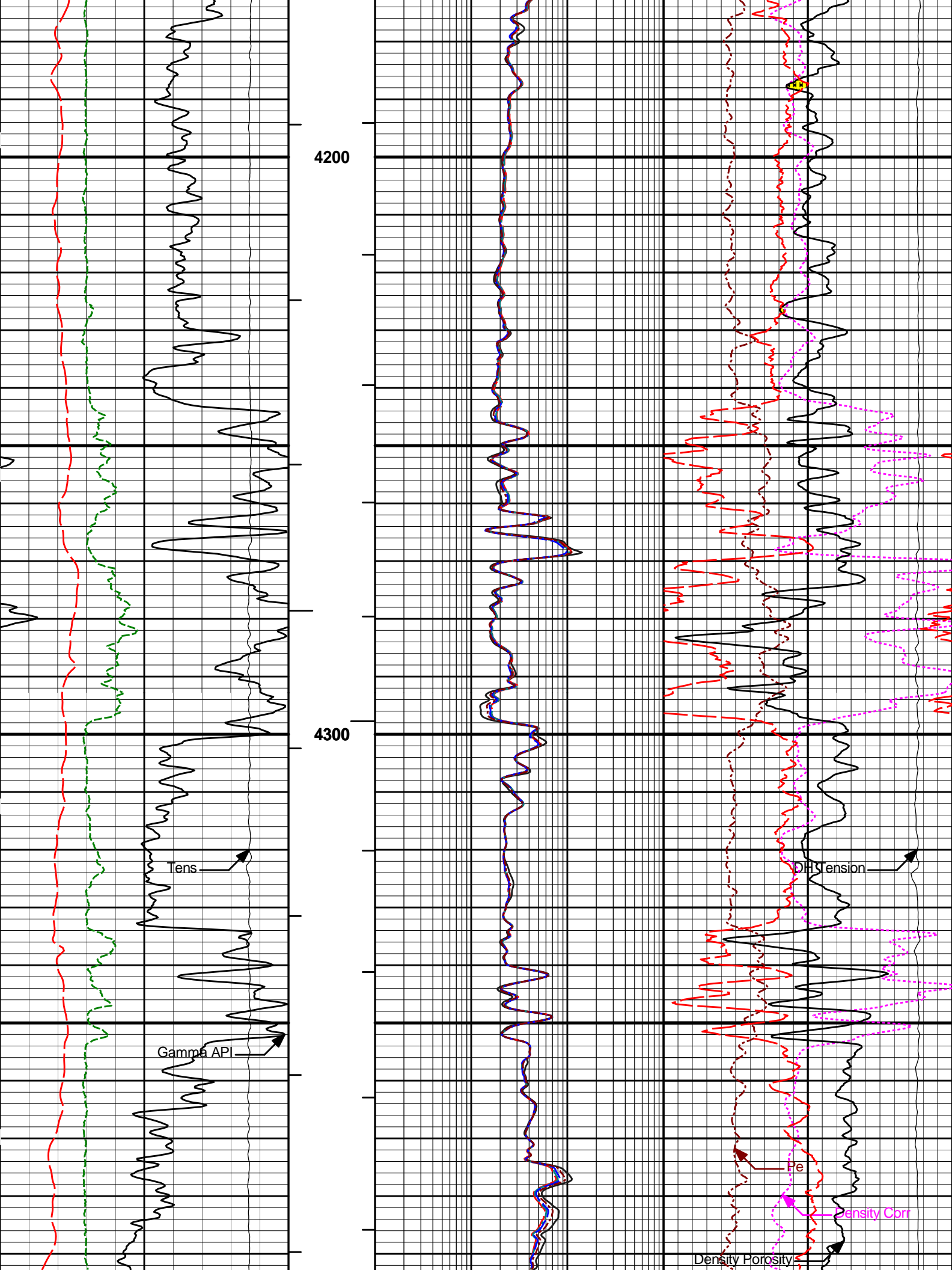


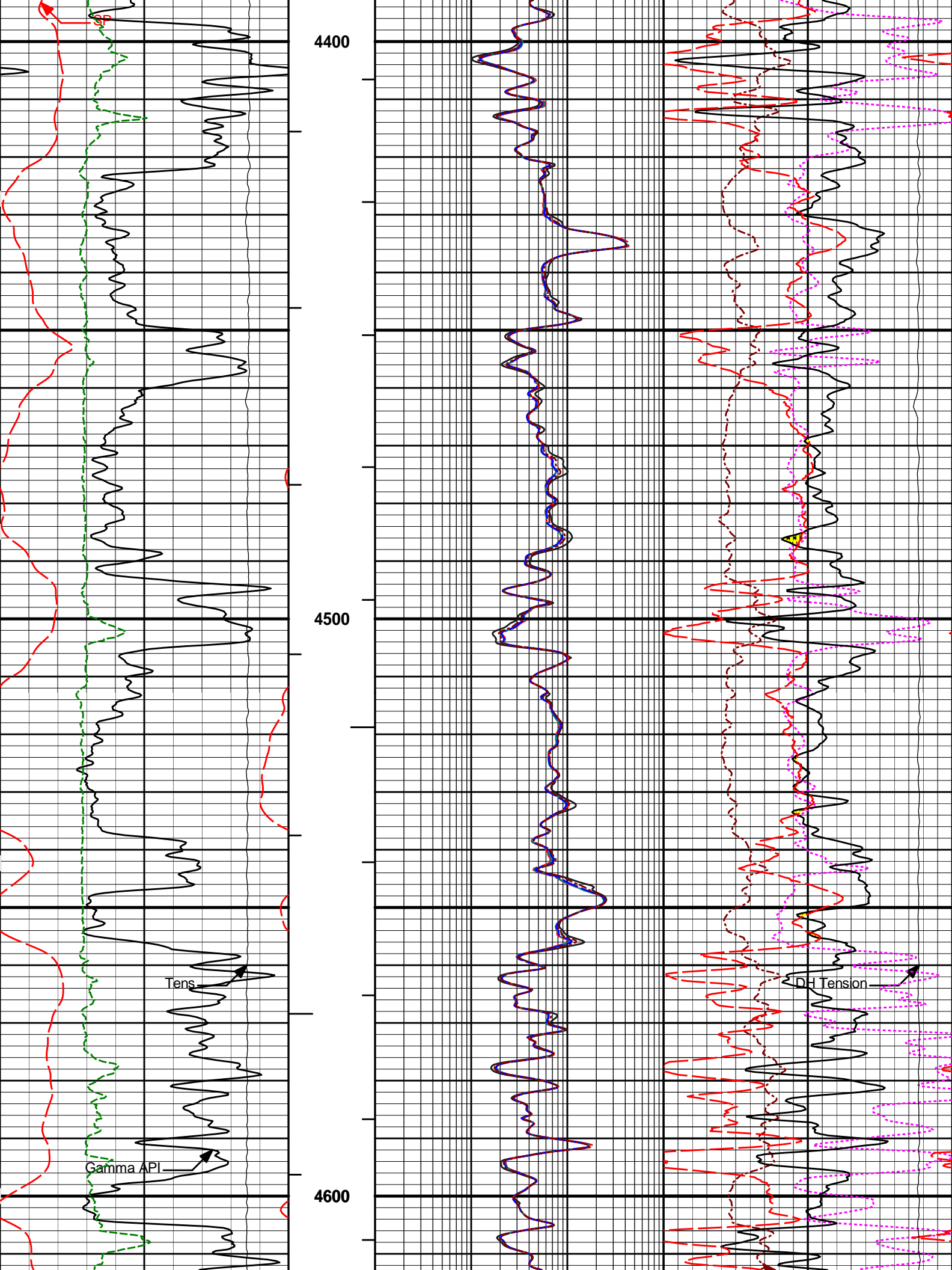


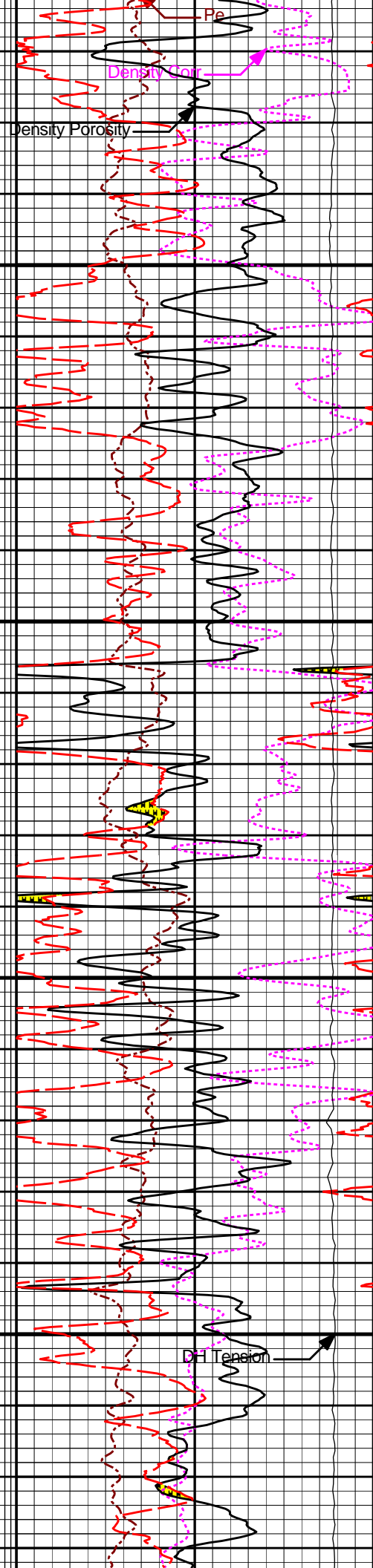
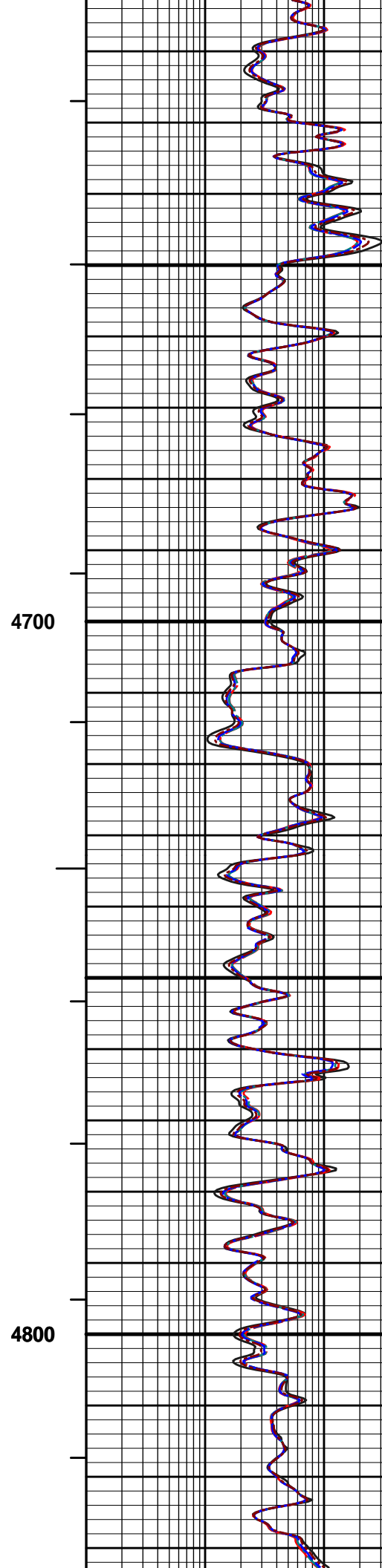
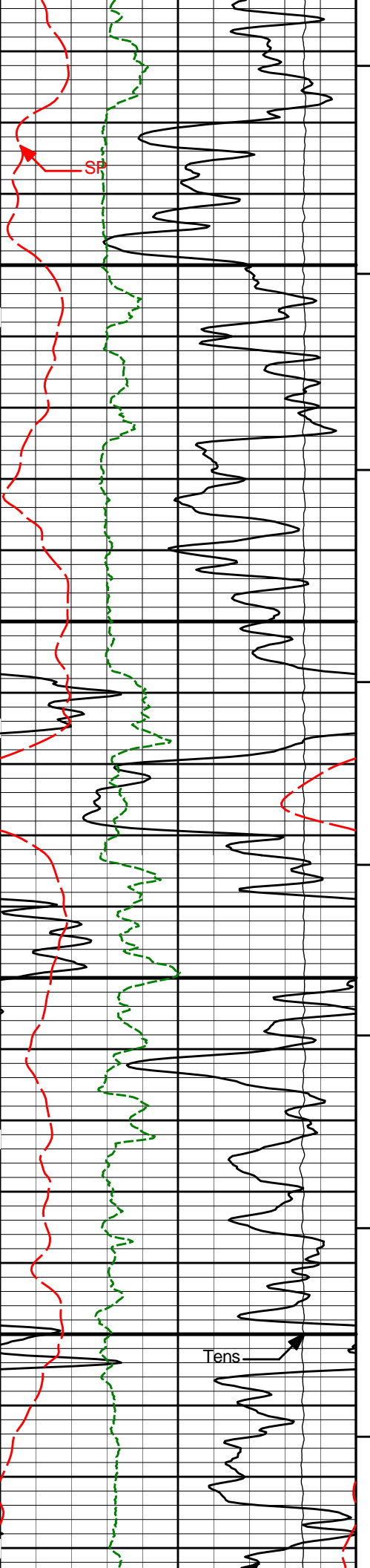


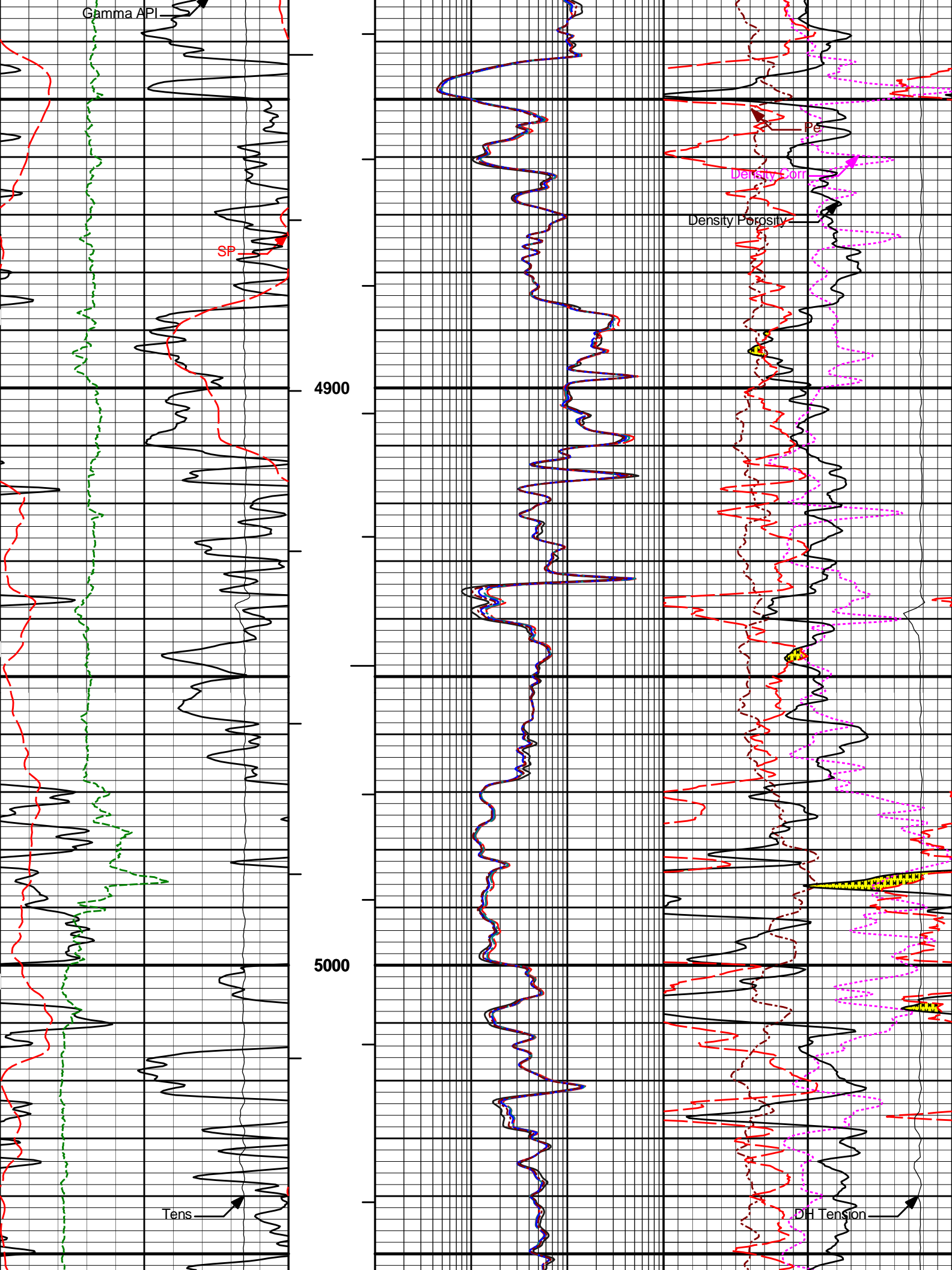


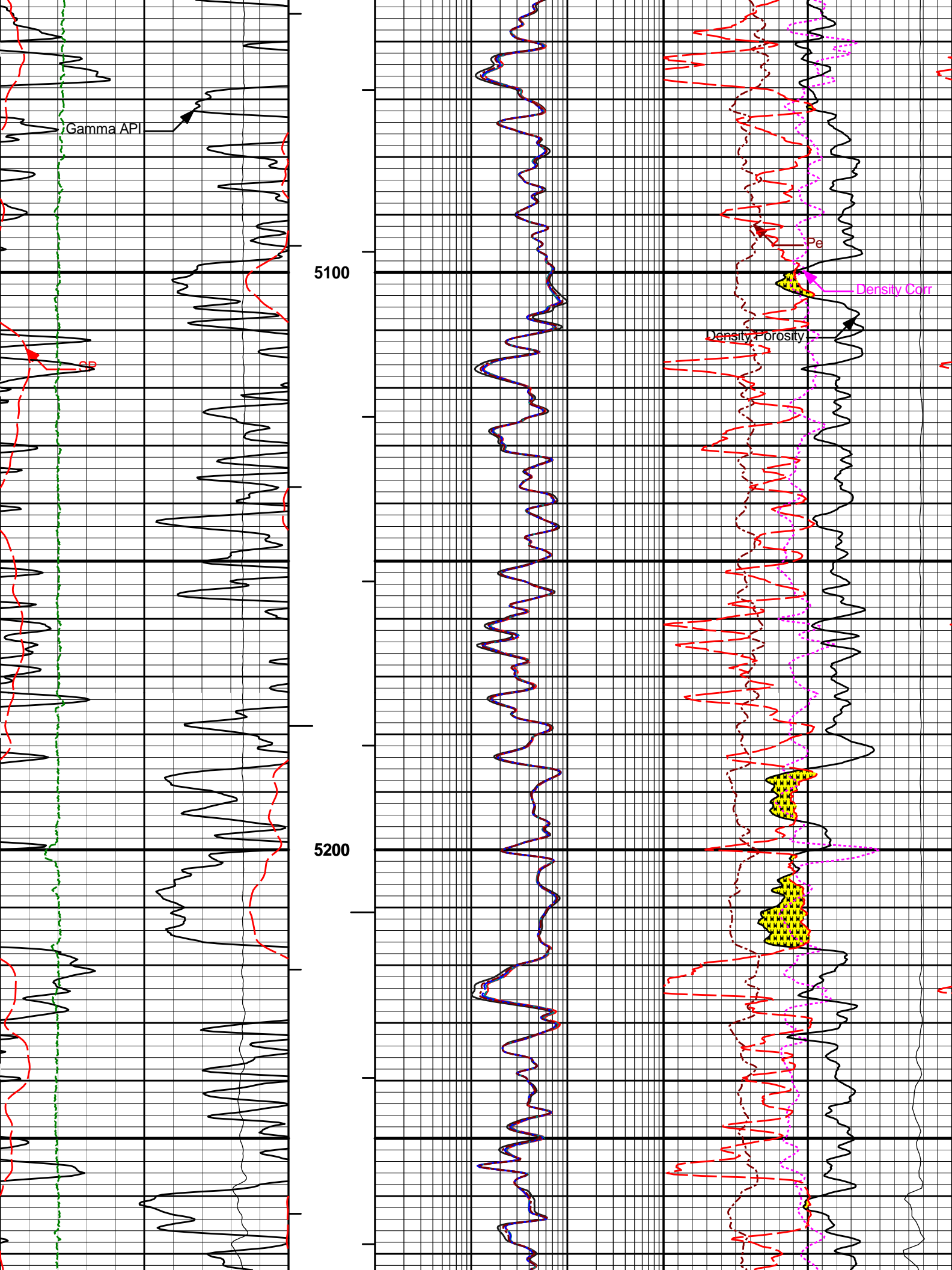


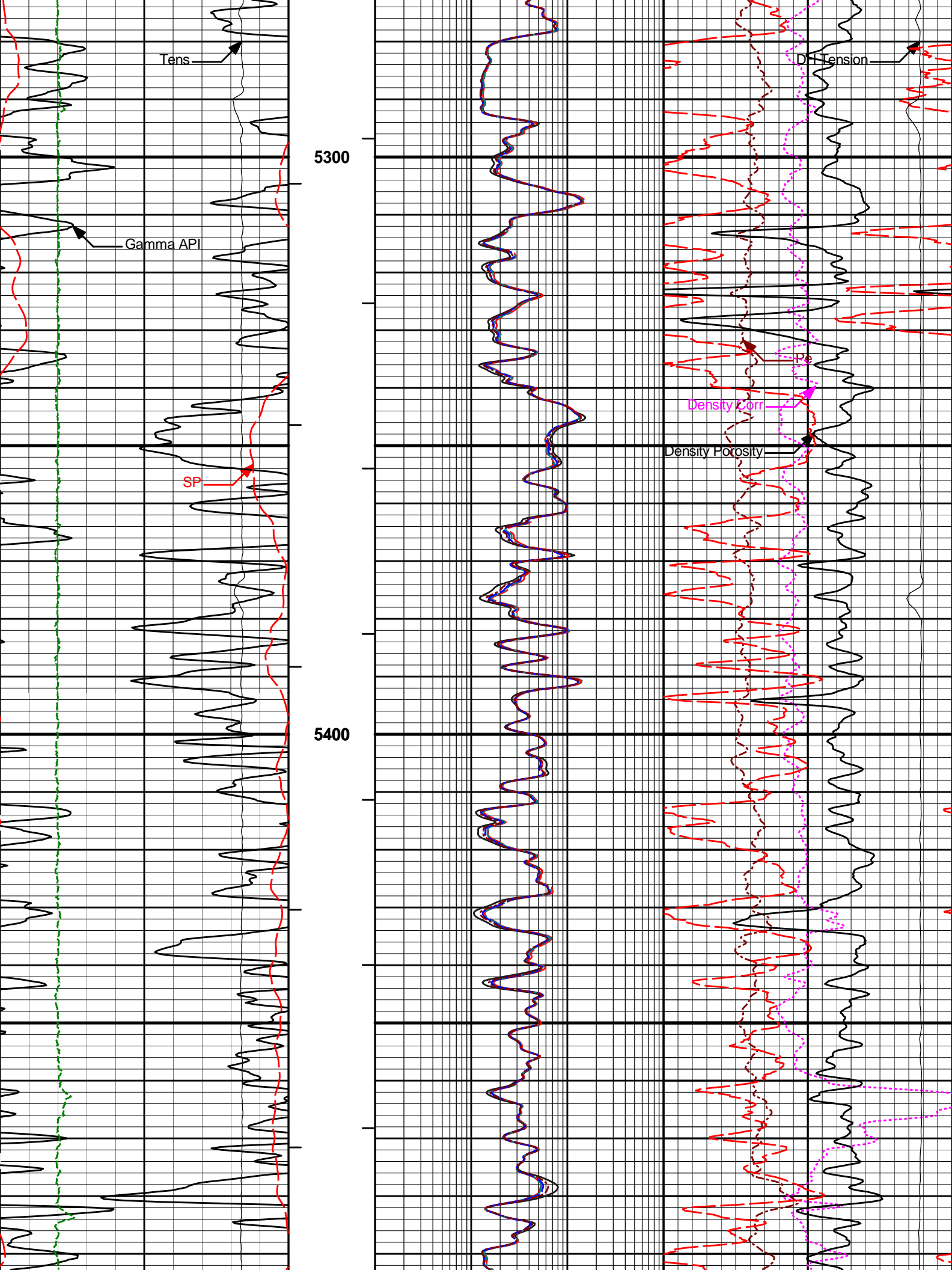


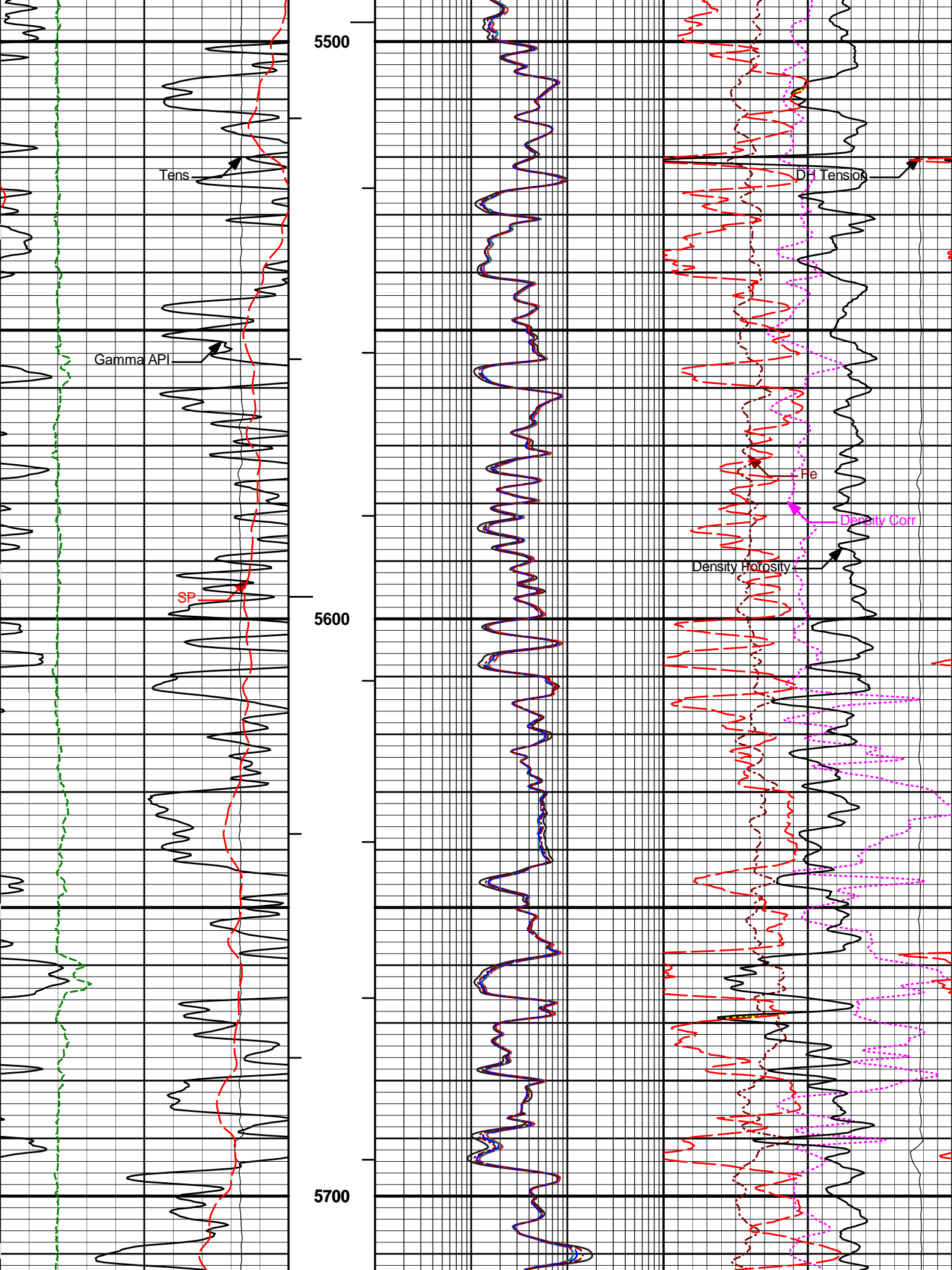


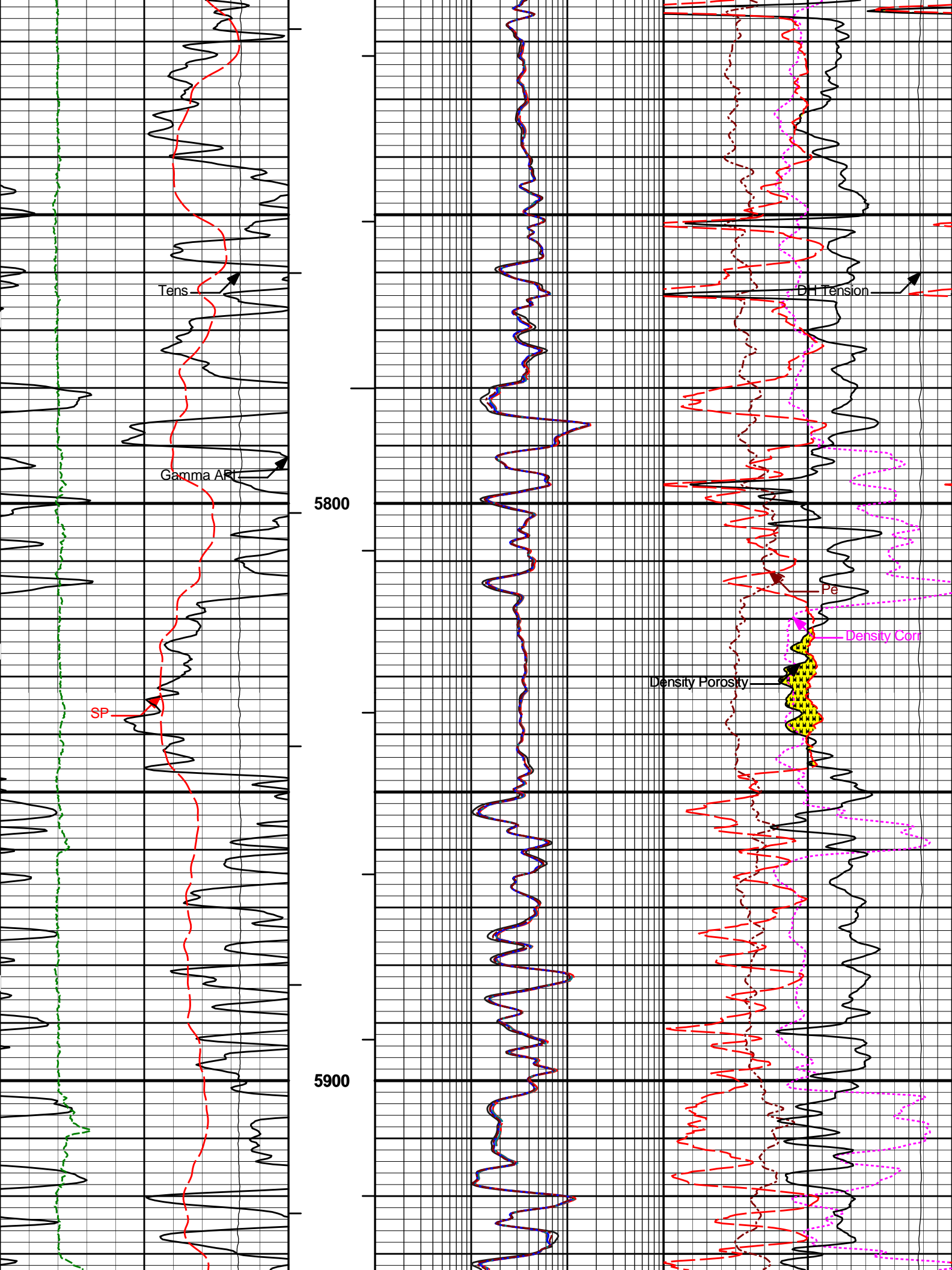


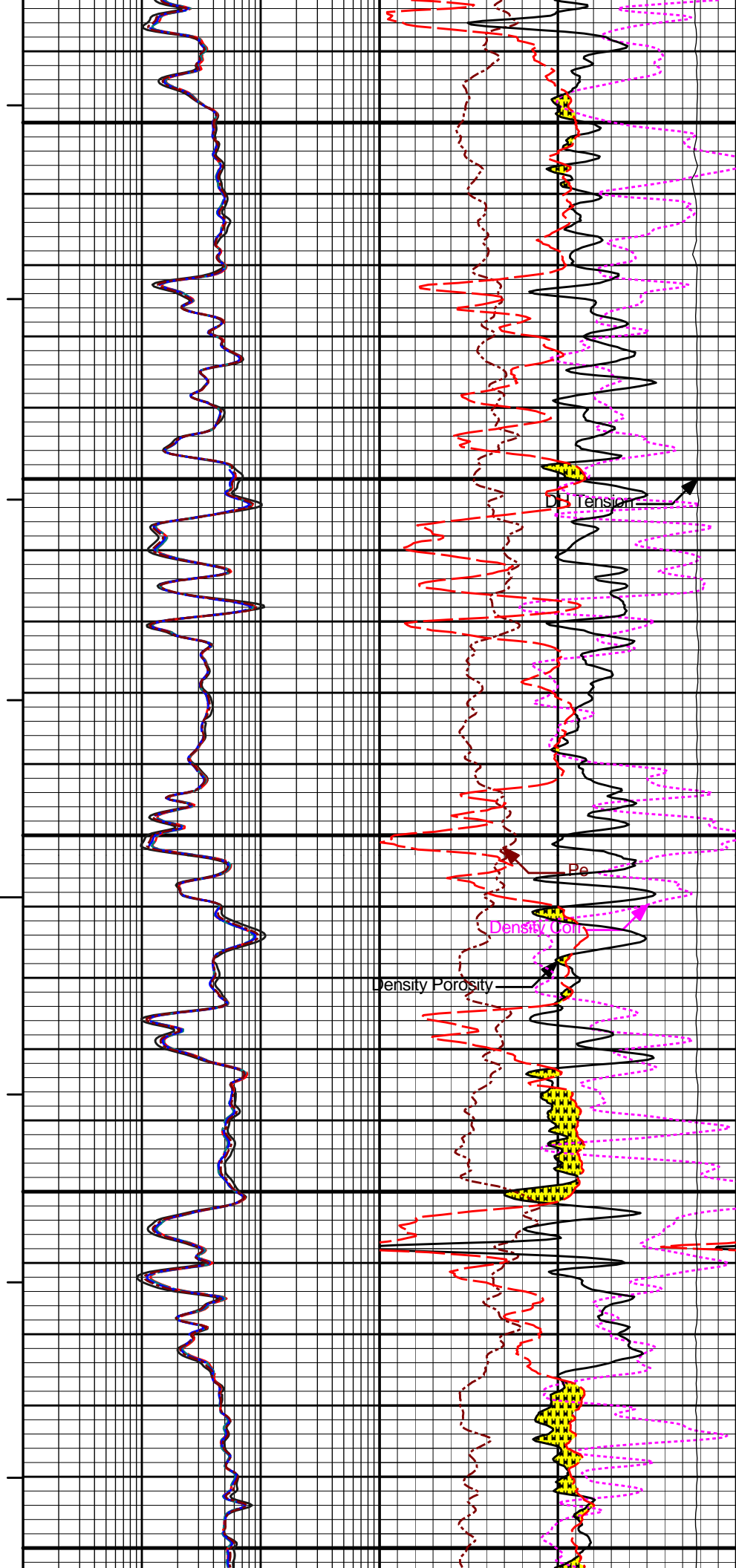
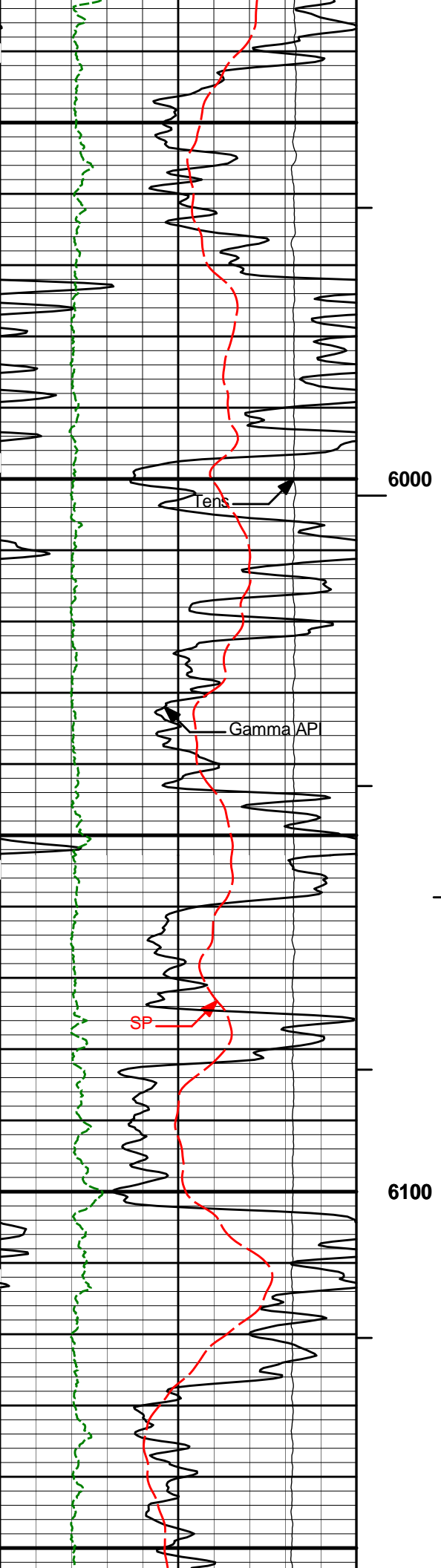


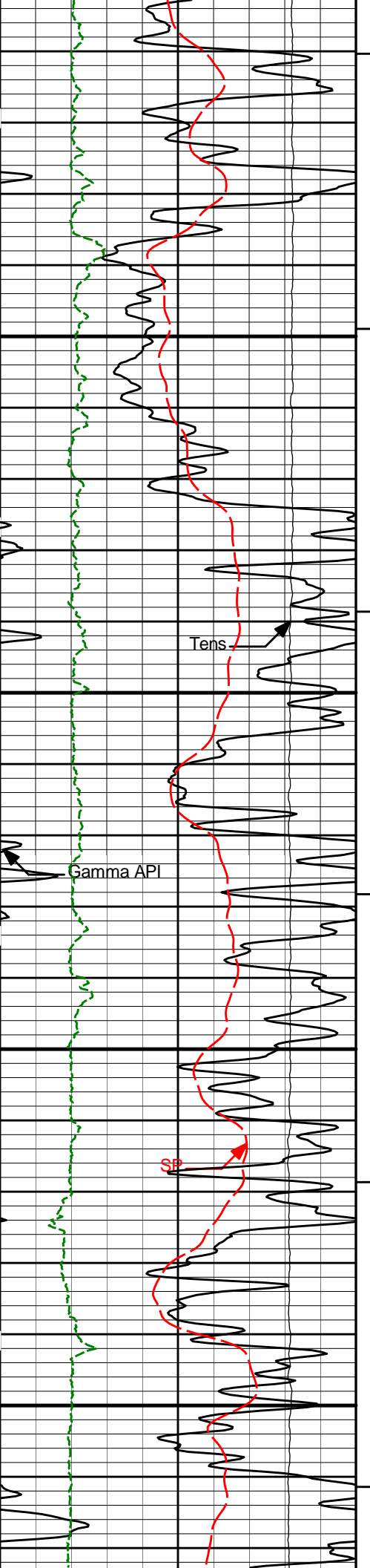






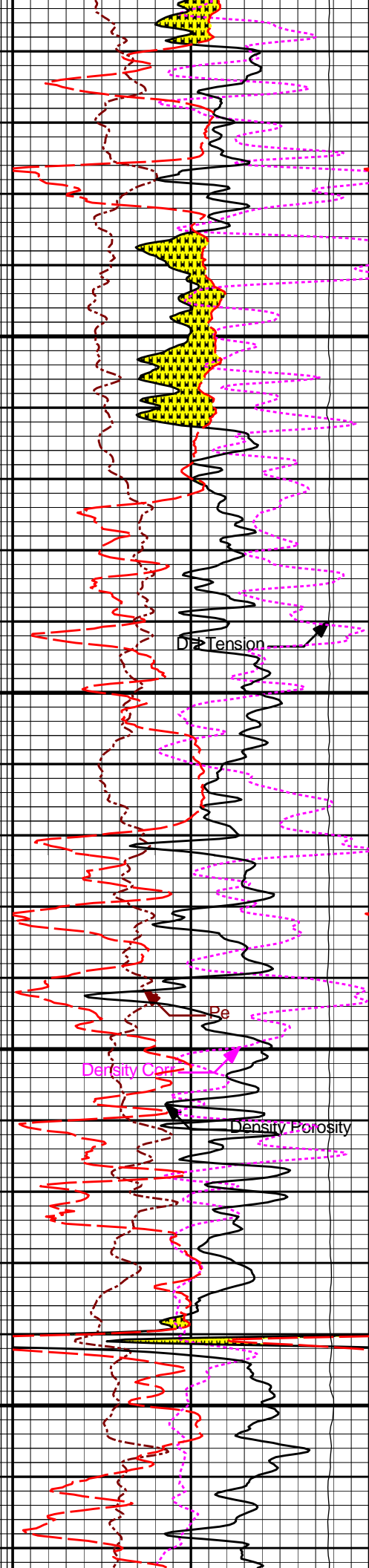
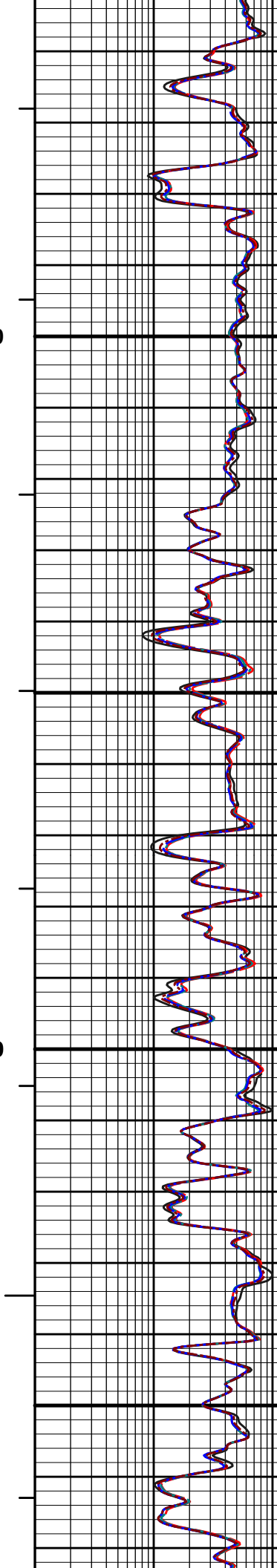


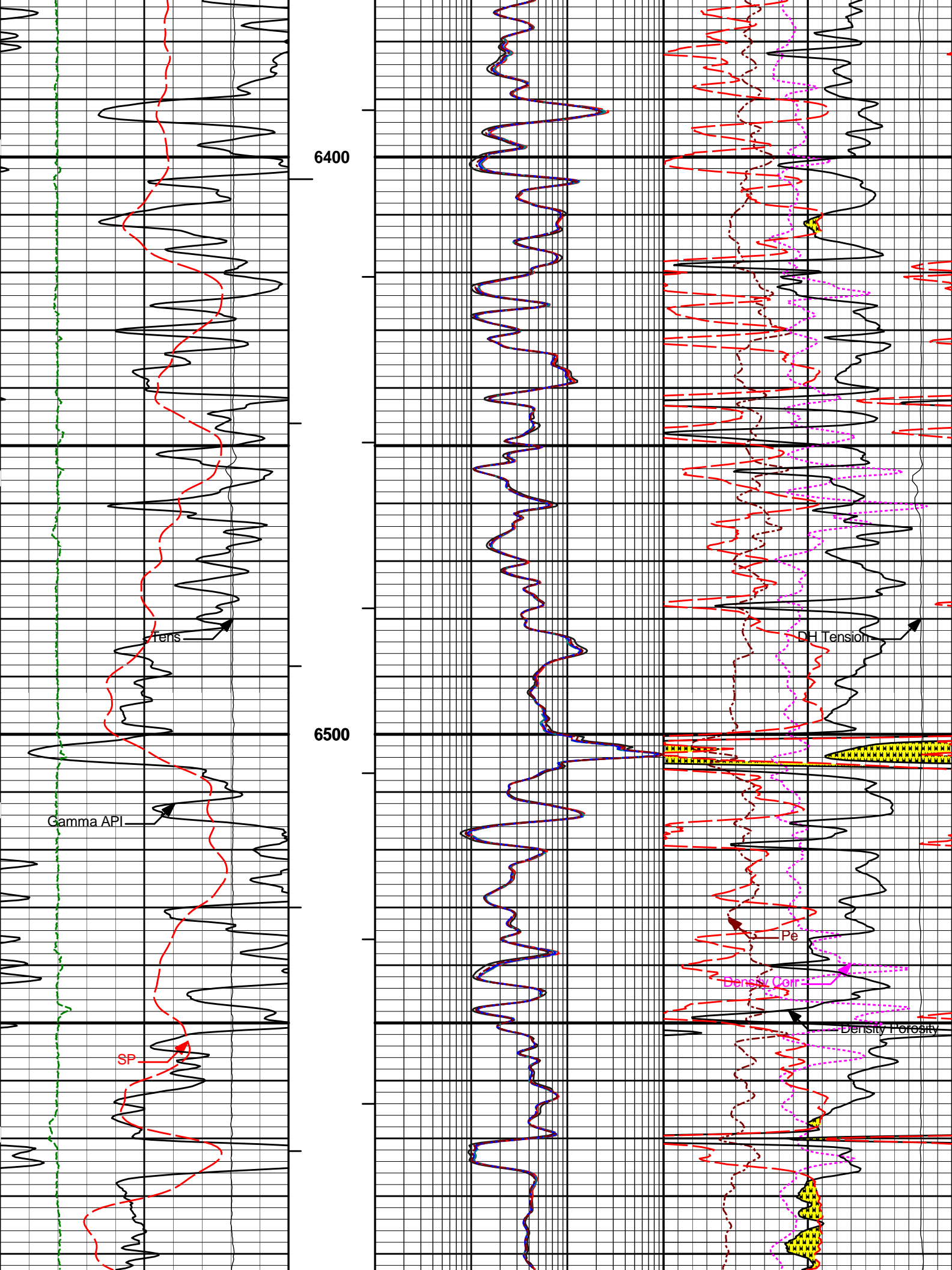


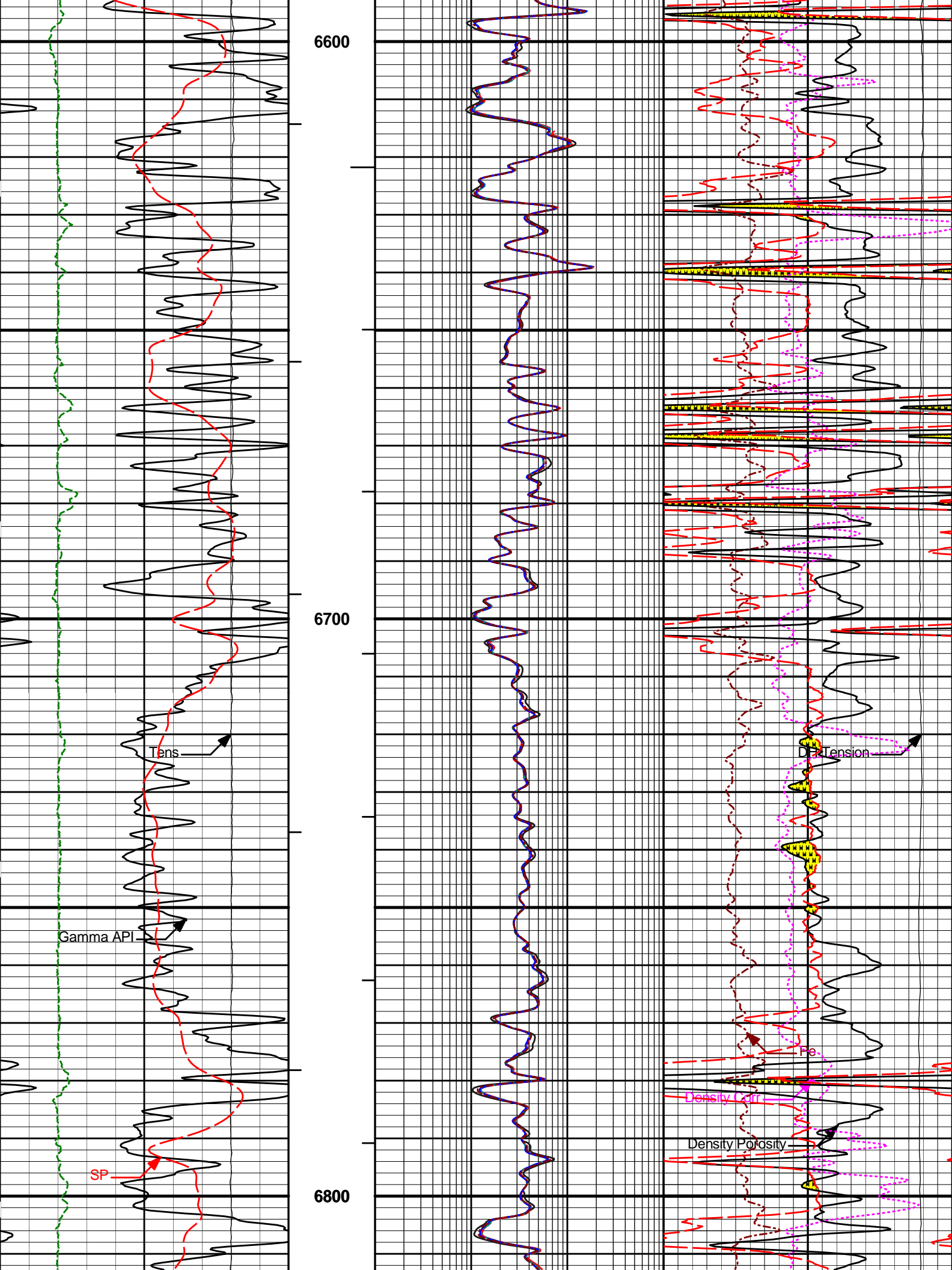


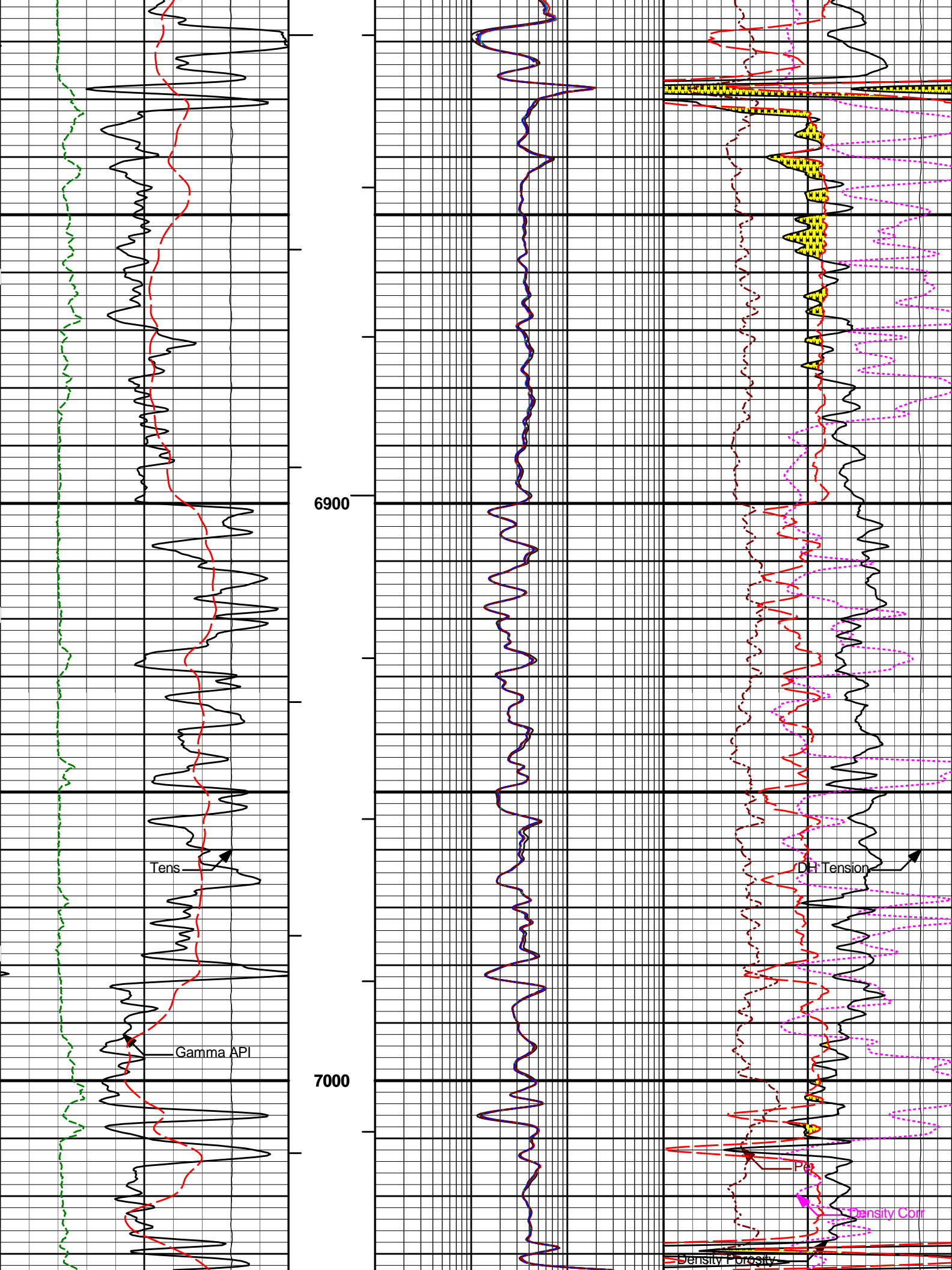
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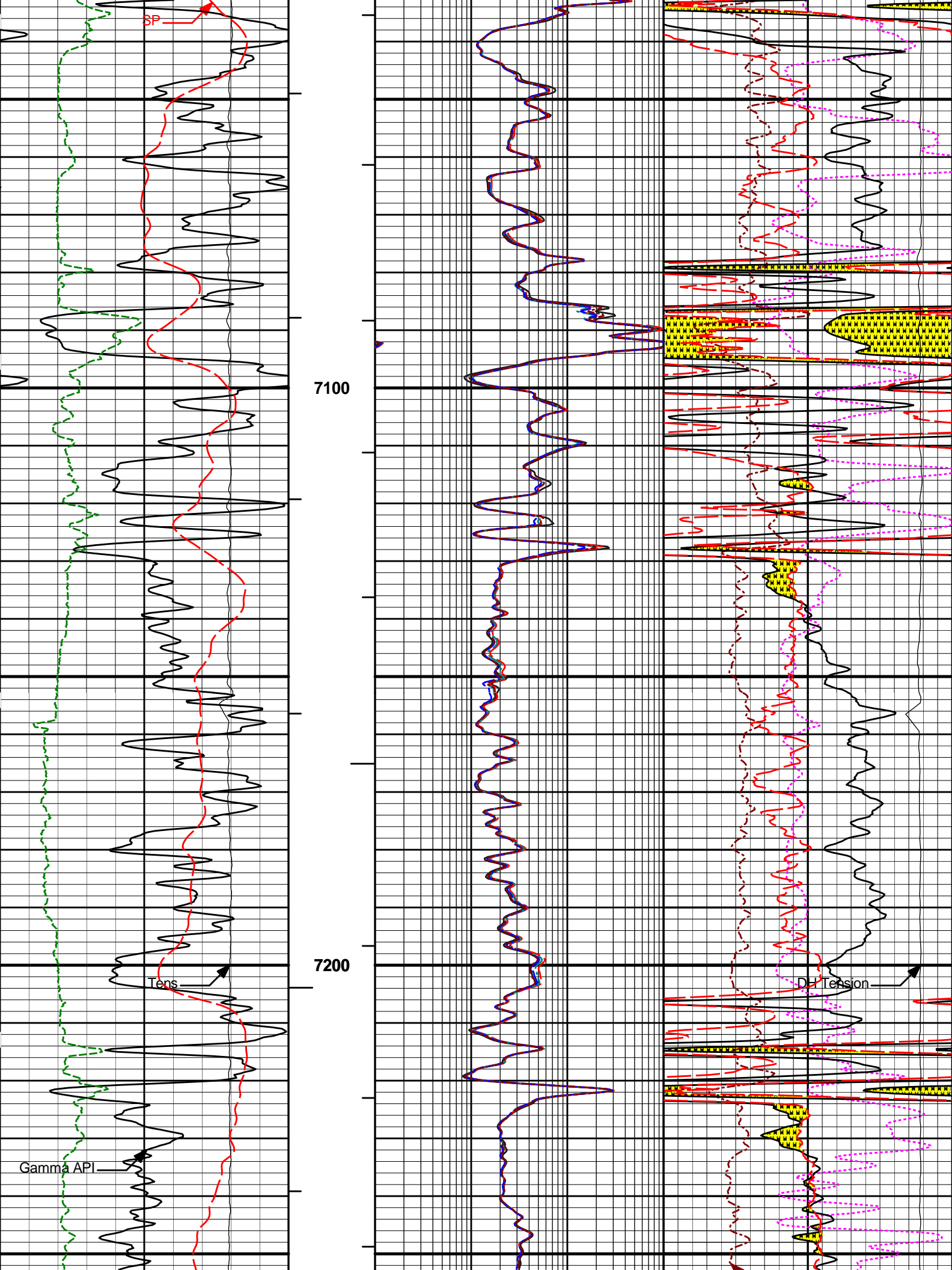
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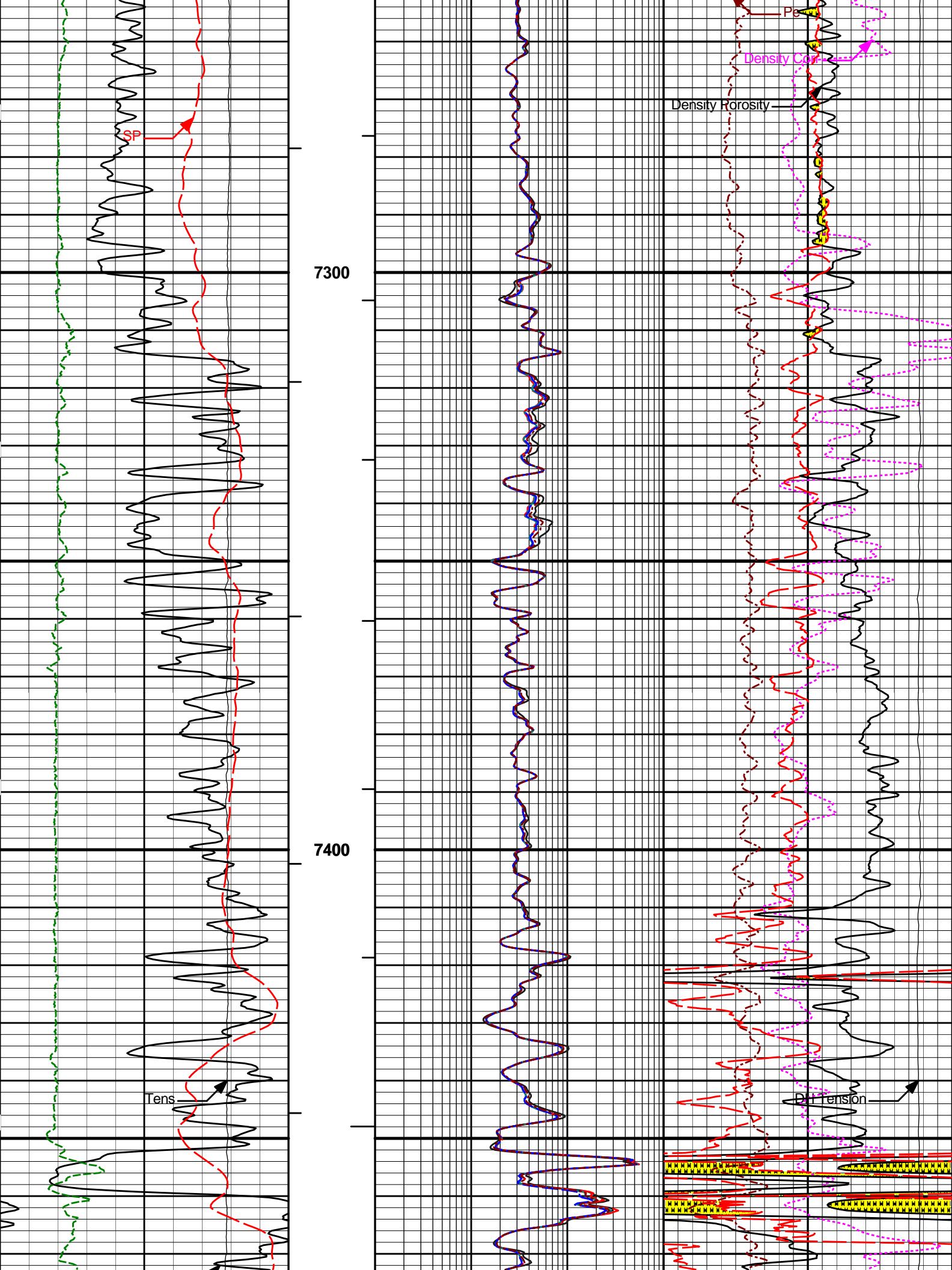


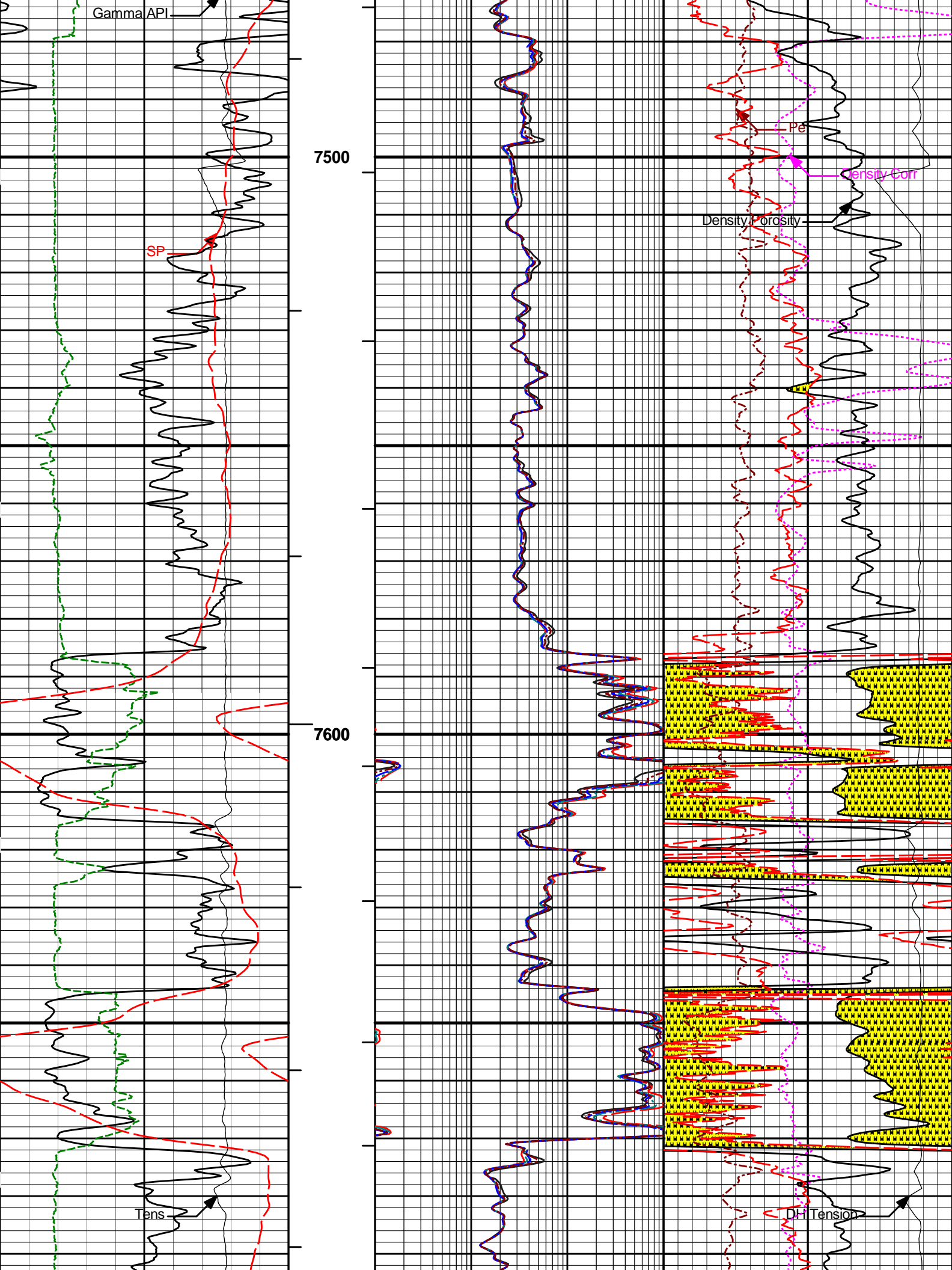


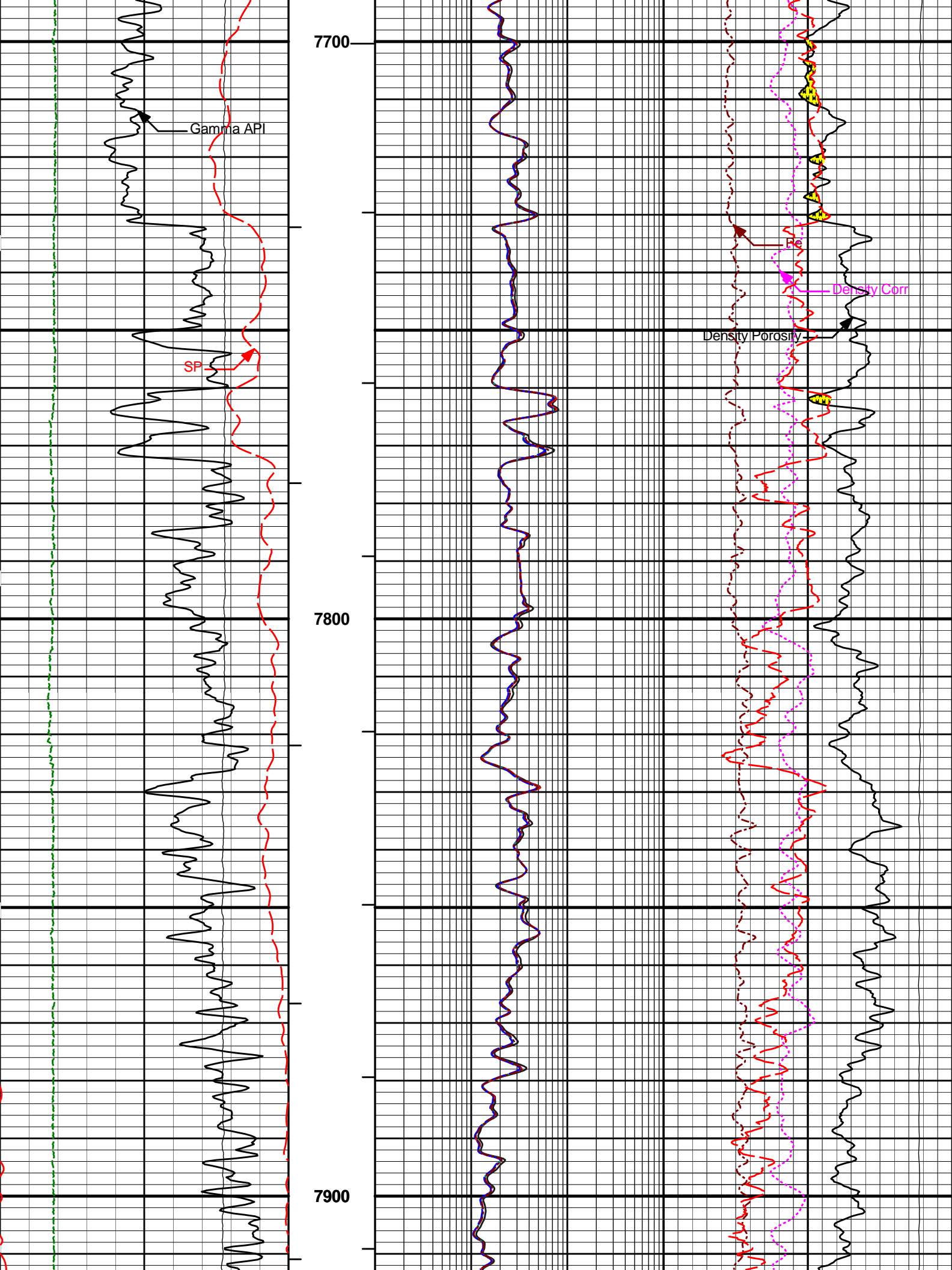


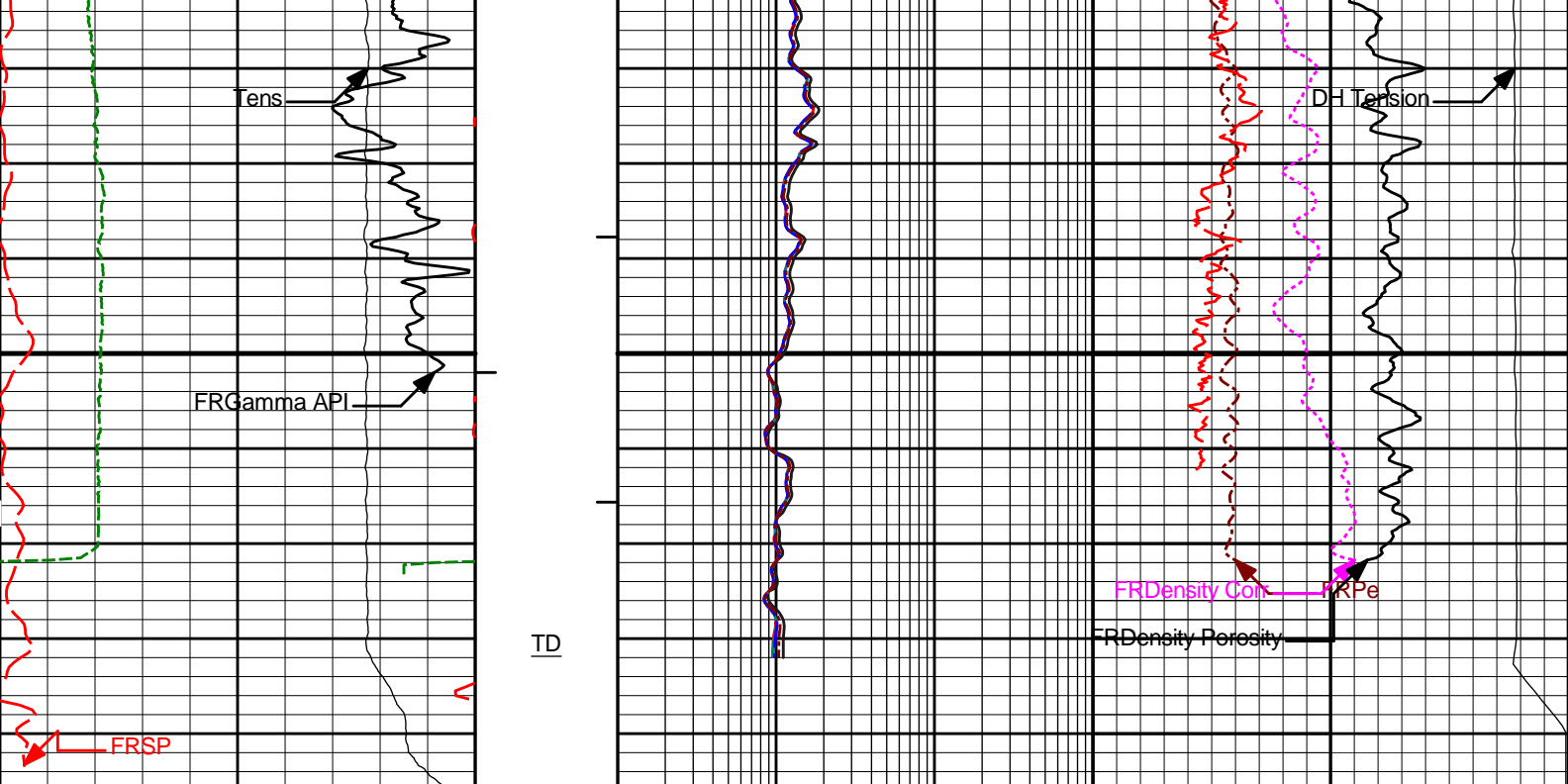












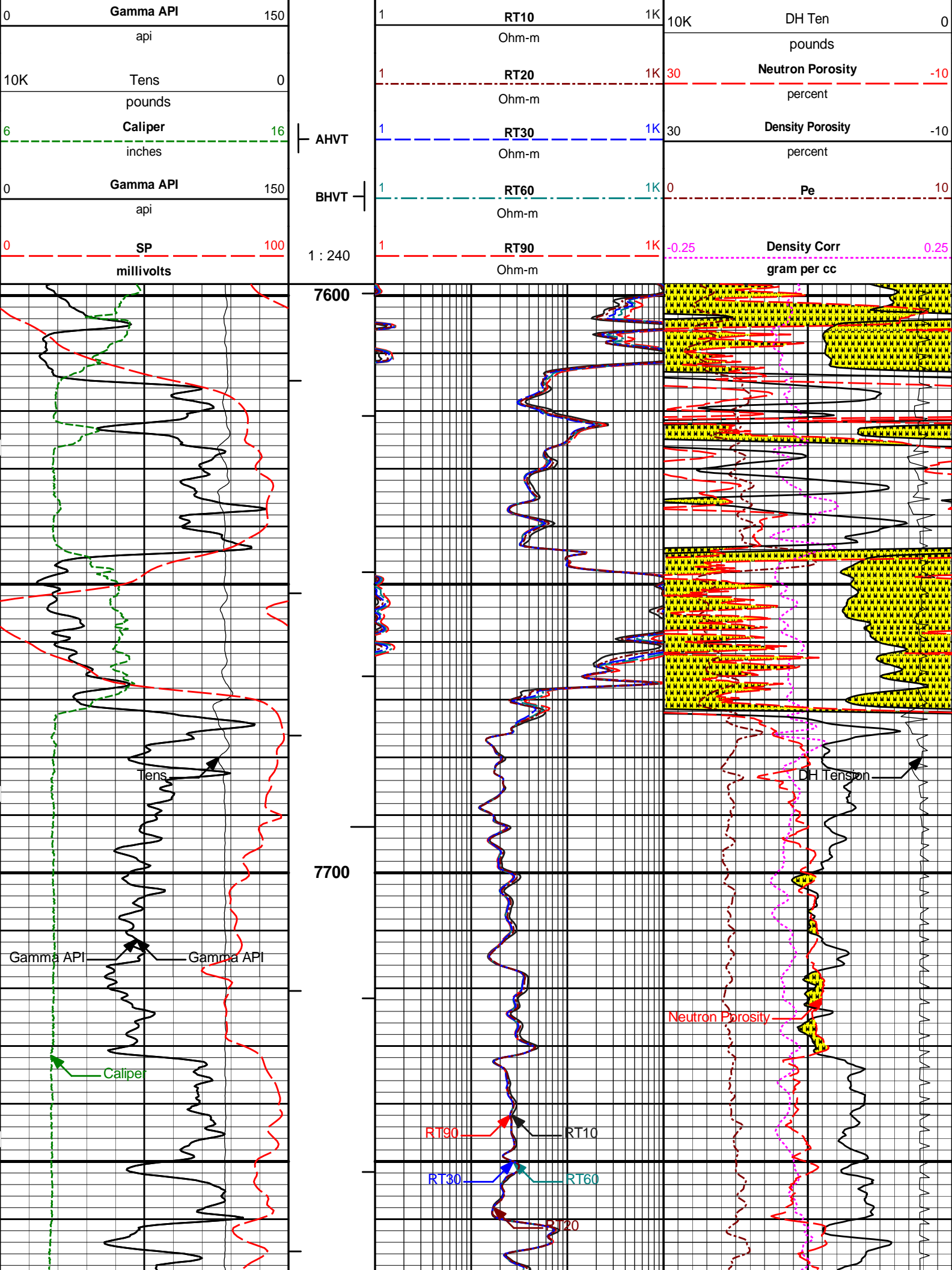
0	SP	100	1	RT90	1K	-0.25	Density Corr	0.25
	millivolts			Ohm-m			gram per cc	
0	Gamma API	150	1	RT60	1K	0	Pe	10
	api			Ohm-m				
6	Caliper	16	1	RT30	1K	30	Density Porosity	-10
	inches			Ohm-m			percent	
10K	Tens	0	1	RT20	1K	30	Neutron Porosity	-10
	pounds			Ohm-m			percent	
			1	RT10	1K	10K	DH Ten	0
				Ohm-m			pounds	

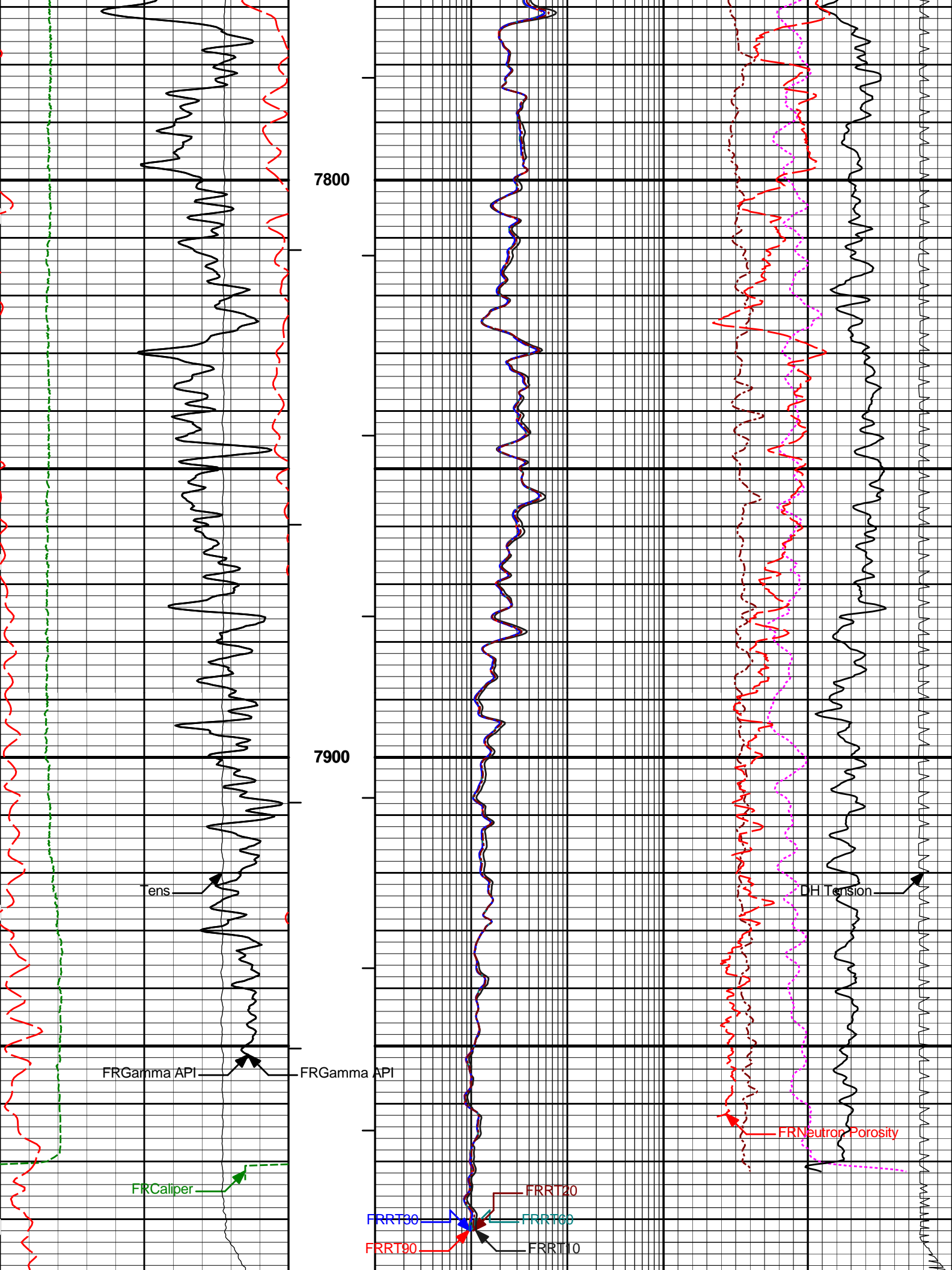
**HALLIBURTON** Plot Time: 22-Jul-11 15:44:00  
 Plot Range: 42.33 ft to 7995.67 ft  
 Data: BBJOLL42D20\_691\Well Based\\*\\*  
 Plot File: \\COMP\BBC\_9MC\_COMP

MAIN PASS 5" = 100'

**HALLIBURTON** Plot Time: 22-Jul-11 15:44:00  
 Plot Range: 7598 ft to 7995.25 ft  
 Data: BBJOLL42D20\_691\Well Based\REPEAT\\*  
 Plot File: \\COMP\BBC\_9MC\_COMP

REPEAT SECTION 5" = 100'





0	SP	100	1 : 240	1	RT90	1K	-0.25	Density Corr	0.25
	millivolts				Ohm-m			gram per cc	
0	Gamma API	150	BHVT	1	RT60	1K	0	Pe	10
	api				Ohm-m				
6	Caliper	16	AHVT	1	RT30	1K	30	Density Porosity	-10
	inches				Ohm-m			percent	
10K	Tens	0		1	RT20	1K	30	Neutron Porosity	-10
	pounds				Ohm-m			percent	
0	Gamma API	150		1	RT10	1K	10K	DH Ten	0
	api				Ohm-m			pounds	

HALLIBURTON

Plot Time: 22-Jul-11 15:44:04  
Plot Range: 7598 ft to 7995.25 ft  
Data: BBJOLL42D20\_691\Well Based\REPEAT\\*  
Plot File: \\COMP\BBC\_9MC\_COMP

REPEAT SECTION 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11004661	Reference Calibration Date:	26-May-11 06:12:39
Engineer:	J. KRONABLE	Calibration Date:	15-Jul-11 09:44:38
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1

Calibrator Source S/N: 110  
Calibrator API Reference:239.00 api  
Equivalent Calibrator API Reference:243.2 api

Measurement	Measured	Calibrated	Units
Background	41.4	42.0	api
Background + Calibrator	281.1	285.2	api
Calibrator	243.8	243.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11004661	Reference Calibration Date:	15-Jul-11 09:44:38
Engineer:	J. KRONABLE	Calibration Date:	22-Jul-11 08:30:51
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1

Calibrator Source S/N: 110  
Calibrator API Reference:239.00 api  
Equivalent Calibrator API Reference:243.2 api

Field Verification	Shop	Field	Units
Background	42.0	50.7	api
Background + Calibrator	285.2	297.4	api
Calibrator	243.2	246.7	api

Shop	Field	Difference	Tolerance
243.2	246.7	-3.5	+/- 9.00

### DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10993888	Reference Calibration Date:	16-Jul-11 12:00:50
Engineer:	J. KRONABLE	Calibration Date:	16-Jul-11 12:15:09
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1

Logging Source S/N: DSN-388  
Tank Serial Number: GJWATERTANK  
Reference value assigned to Tank: 52.750  
Snow Block S/N: GJ  
Calibration Tank Water Temperature: 71 degF  
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.976	0.980	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	0.0012	+/- 0.0020
Calibrated Ratio:	9.89	9.93	0.040	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0773	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	Reference Calibration Date:	16-Jul-11 12:15:09
Engineer:	J. KRONABLE	Calibration Date:	22-Jul-11 09:00:19
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1

Logging Source S/N: DSN-388  
Snow Block S/N: GJ

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0773	0.0783	0.0010	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

### SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	13-Jul-11 23:48:08
Engineer:	J. KRONABLE	Calibration Date:	14-Jul-11 00:12:41

Logging Source S/N: 5153GW

Aluminum Block S/N: 63094

Magnesium Block S/N: 63387

Density: 2.610g/cc

Density: 1.685g/cc

Pe: 3.100

Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0427	1.0596	0.90 - 1.10
Near Dens Gain	1.0035	1.0168	0.90 - 1.10
Near Peak Gain	0.9679	0.9873	0.90 - 1.10
Near Lith Gain	0.9217	0.9303	0.90 - 1.10
Far Bar Gain	1.0089	1.0121	0.90 - 1.10
Far Dens Gain	0.9978	0.9999	0.90 - 1.10
Far Peak Gain	0.9880	0.9862	0.90 - 1.10
Far Lith Gain	0.9626	0.9629	0.90 - 1.10
Near Bar Offset	-0.2761	-0.4345	NONE
Near Dens Offset	0.0867	-0.0332	NONE
Near Peak Offset	0.3896	0.2252	NONE
Near Lith Offset	0.7509	0.6780	NONE
Far Bar Offset	-0.0079	-0.0382	NONE
Far Dens Offset	0.0753	0.0573	NONE
Far Peak Offset	0.1416	0.1570	NONE
Far Lith Offset	0.3058	0.3007	NONE
Near Bar Background	938.66	937.58	700 - 1450
Near Dens Background	312.95	312.57	230 - 480
Near Peak Background	136.25	134.88	100 - 210
Near Lith Background	168.10	168.06	125 - 260
Far Bar Background	567.27	567.87	450 - 900
Far Dens Background	219.03	220.19	175 - 345
Far Peak Background	85.47	87.57	70 - 140
Far Lith Background	90.70	89.70	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.685	1.685	0.000	+/- 0.015
Pe	2.561	2.557	-0.004	+/- 0.150
ALUMINUM				
Density (g/cc)	2.610	2.610	0.000	+/- 0.01500
Pe	3.077	3.066	-0.011	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0012	+/- 0.0110	0.0015	+/- 0.0140
Magnesium Block	-0.0007	+/- 0.0110	-0.0005	+/- 0.0140
Aluminum Block	-0.0003	+/- 0.0110	-0.0004	+/- 0.0140
Resolution	9.50	6.00 - 11.50	9.49	6.00 - 11.50
Internal Verify (P.D.P. 1)	1550	1000 - 2700	825	200 - 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 - 10951314**Reference Calibration Date:** 14-Jul-11 00:12:41**Engineer:** J. KRONABLE**Calibration Date:** 22-Jul-11 08:56:49**Software Version:** WL INSITE R3.2.1 (Build 7)**Calibration Version:** 1

Pad Temperature: 73.4 degF

**DENSITY FIELD CALIBRATION SUMMARY**

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1553.090	1553.768	0.678	15.862
Far (B+D+P+L) cps	965.332	959.801	-5.531	16.717
Near Resolution	9.50	9.56	0.060	0.50
Far Resolution	9.49	9.56	0.070	1.00

**PASS/FAIL SUMMARY**

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

**DENSITY CALIPER SHOP CALIBRATION****Tool Name:** SDLT - 10951314**Reference Calibration Date:** 03-Jun-11 09:12:57**Engineer:** W. MATSON**Calibration Date:** 16-Jul-11 09:37:21**Software Version:** WL INSITE R3.2.1 (Build 7)**Calibration Version:** 1**CALIBRATION COEFFICIENTS**

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1290.48	-1475.34	-7000.00 - -1000.00
Pad Gain	0.0003801	0.0003752	0.000200 - 0.000600
Arm Offset	-1327.38	-1505.54	-5000.00 - 3000.00
Arm Gain	0.0005221	0.0005269	0.000300 - 0.000700
Arm Power	-0.000005263	-0.000005579	-0.000010 - 0.000010

The ring diameter is computed from:  $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$ 

Tool Diameter: 4.50 in

**CALIBRATION RINGS**

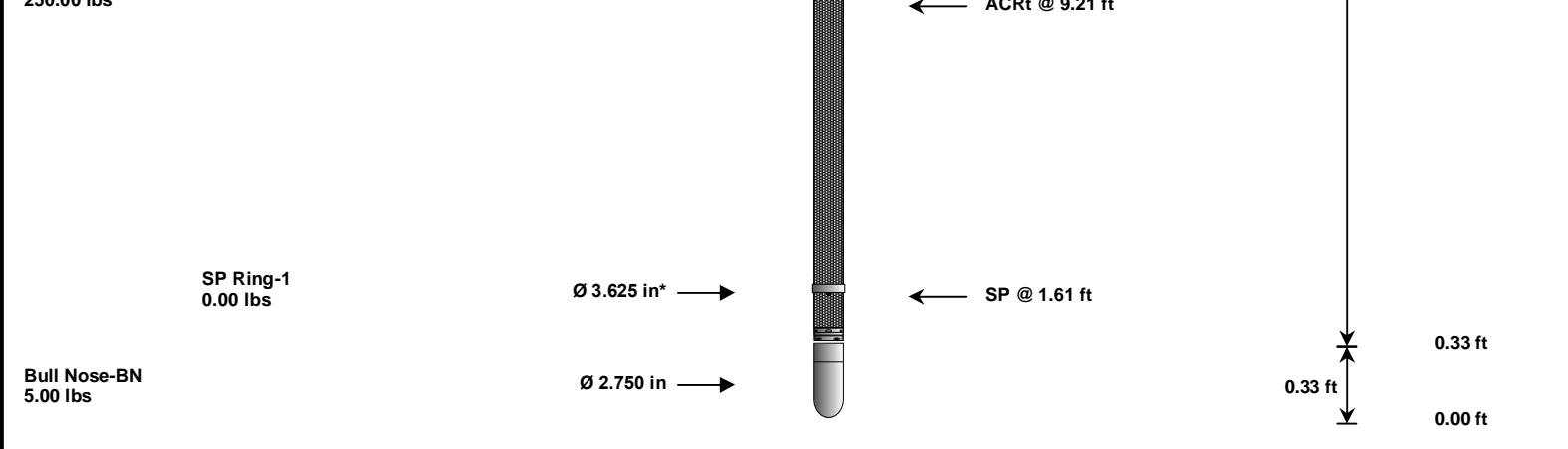
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.10	2.00	-0.10	+/- 0.20
Medium Ring (in)	3.87	3.75	-0.12	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.64	6.50	-0.14	+/- 0.20
Medium Ring (in)	8.38	8.25	-0.13	+/- 0.20

Large Ring (in)				15.13	15.00	-0.13	+/- 0.20		
PASS/FAIL SUMMARY									
Calibration-Coefficients Range Check:						Passed			
Ring-Measurement Check:						Passed			
PASS/FAIL SUMMARY									
Calibration-Coefficients Range Check:						Passed			
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name: ACRt - 90194258-E7486-				Reference Calibration Date: 20-Apr-11 09:31:46					
Engineer: J. KRONABLE				Calibration Date: 12-May-11 08:39:50					
Software Version: WL INSITE R3.2.1 (Build 7)				Calibration Version: 1					
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	0.9959	1.05	0.95	0.9974	1.05	0.95	0.9947	1.05
A2 (50")	0.95	1.0051	1.05	0.95	1.0065	1.05	0.95	1.0042	1.05
A3 (29")	0.95	0.9964	1.05	0.95	0.9972	1.05	0.95	0.9935	1.05
A4 (17")	0.95	0.9895	1.05	0.95	0.9890	1.05	0.95	0.9864	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9832	1.05	0.95	0.9793	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9883	1.05	0.95	0.9843	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	-0.557	2	-6	-4.039	-2	-8	-5.184	-2
A2 (50")	-7	-2.016	-1	-6	-3.873	-2	-7	-4.681	-2
A3 (29")	-27	-10.979	-9	-9	-3.410	-3	-7	-2.863	-1
A4 (17")	-180	-101.126	-60	-45	-31.893	-15	-39	-25.562	-13
A5 (10")	N/A	N/A	N/A	-150	-66.665	-50	-80	-34.234	-10
A6 (6")	N/A	N/A	N/A	175	271.250	525	90	141.580	270
TRANSMITTER CURRENT GAIN						R-MUD VERIFICATION			
Signal	Lower		R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K		0.6	0.8496	1.3		Mud Cell	0.95	1.004	1.05
36K		1.0	1.8032	2.0					
72K		1.0	1.0954	2.0					
CALIBRATION SUMMARY									
Sensor	Shop	Field	Post	Difference	Tolerance	Units			
GTET-11004661									
Gamma Ray Calibrator	243.2	246.7	-----	-3.5	+/- 9.00	api			
DSNT-10993888									
Snow-Block Porosity	0.0773	0.0783	-----	-0.0010	+/- 0.0150	decp			
SDLT-10951314									
Near(B+D+P+L)	1553.090	1553.768	-----	-0.678	+/-15.862	cps			
Far(B+D+P+L)	965.332	959.801	-----	5.531	+/-16.717	cps			
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in			
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in			
ACRt-90194258-E7486-									
Mud Cell	1.004			0.000		ohm-m			

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-A032 135.00 lbs		Ø 3.625 in →		← Load Cell @ 51.17 ft ← BH Temperature @ 50.60 ft	6.25 ft	54.85 ft
GTET-11004661 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	48.60 ft
DSNT-10993888 174.00 lbs	DSN Decentralizer- 10839203 6.60 lbs	Ø 3.625 in* → Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	40.08 ft
SDLT-10951314 360.00 lbs		Ø 4.500 in → Ø 4.750 in →		← SDL Microlog @ 22.58 ft ← SDL Caliper @ 22.40 ft ← SDL @ 22.39 ft	10.81 ft	30.40 ft
ACRt-90194258-E7486 250.00 lbs		Ø 3.625 in →		← Mud Resistivity @ 13.19 ft	19.58 ft	19.58 ft
					19.25 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	48.60	300.00
GTET	Gamma Telemetry Tool		11004661	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron		10993888	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer		10839203	6.60	5.13	*	33.73
SDLT	Spectral Density Tool		10951314	360.00	10.81	19.58	60.00
ACRt	Array Compensated True Resistivity		90194258-E7486-	250.00	19.25	0.33	300.00
SP	SP Ring		1	0.00	0.25	*	1.61
BLNS	Bull Nose		BN	5.00	0.33	0.00	300.00
Total				1,095.60	54.85		
* Not included in Total Length and Length Accumulation.							
Data: BBJOLL42D20_691\0001 TRIPLE\IDLE						Date: 22-Jul-11 12:33:54	

COMPANY	BILL BARRETT CORPORATION		
WELL	JOLLEY 42D-20-691		
FIELD	JOLLEY		
COUNTY	GARFIELD	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY	