

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY		AXIA ENERGY LCC	
WELL		KIMBALL CREEK #11-416D-995	
FIELD		BUZZARD	
COUNTY		MESA	
STATE		CO	
Permanent Datum Log measured from Drilling measured from	GL	API No. 05077101370000	Other Services: RWCH
	KB	Location SURFACE HOLE LOCATION: 1678 FNL & 347 FEL (SENE) SEC 14, T-9S, R-95W	
	KB	BOTTOM HOLE LOCATION: 165 FSL & 660 FEL SEC 11, T-9S, R95W	
	KB	Sect. 14 Twp. 9S Rge. 95W	
Date	25-Jan-11	Elev. 6871.0 ft	Elev.: K.B. 6896.0 ft
Run No.	ONE		D.F. 6895.0 ft
Depth - Driller	7815.00 ft		G.L. 6871.0 ft
Depth - Logger	7228.0 ft		
Bottom - Logged Interval	7216.0 ft		
Top - Logged Interval	1957.0 ft		
Casing - Driller	8.625 in @ 1970.0 ft		@
Casing - Logger	1957.0 ft		
Bit Size	7.875 in	@	@
Type Fluid in Hole	WATER BASED MUD		
Density	9.5 ppq	39.00 s/qt	
PH	9.30 pH	5.6 cp/m	
Source of Sample	MUD TANK		
Rm @ Meas. Temperature	2.700 ohmm @ 48.00 degF	@	@
Rmf @ Meas. Temperature	1.60 ohmm @ 75.00 degF	@	@
Rmc @ Meas. Temperature	1.533 ohmm @ 75.00 degF	@	@
Source Rmf	CHART	CHART	
Rm @ BHT	0.79 ohmm @ 181.0 degF	@	@
Time Since Circulation	6.5 hr		
Time on Bottom	25-Jan-11 19:13		
Max. Rec. Temperature	181.0 degF @ 7228.0 ft	@	@
Equipment	11392047	VERNAL, UT	
Recorded By	M. LECUREUX		
Witnessed By	K. CRUTH		

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Service Ticket No.: 7920647						API Serial No.: 05077101370000						PGM Version: WL INSITE R3.2.3 (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 I777S201		N/A		1.5" STANDOFF		N/A			
Rmc @ Meas. Temp.				@				@															
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.		11016184		Serial No.								Serial No.		10950493		Serial No.		11013116					
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		GAMMA		Log Type		THERMAL					
Type		SCINT.										Source Type		Cs137		Source Type		Am241Be					
Length		8"		LSA [Y/N]								Serial No.		24520B		Serial No.		08-040					
Distance to Source		10'		FWDA [Y/N]								Strength		1.5 Ci		Strength		15 Ci					

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	7228	1957	REC	0	150				30%	-10%	2.68 g/cc	30%	-10%	SAND		
DIRECTIONAL INFORMATION																
Maximum Deviation								@	KOP							@
Remarks:																
TENSION PULLS AND HOLE RUGOSITY MAY AFFECT LOG QUALITY AND REPEATABILITY																
ANNULAR HOLE VOLUME CALCULATED FOR 4.5 INCH CASING																
CHLORIDES REPORTED AT 600 mg/l																
DSN BOW SPRING NOT RAN PER COMPANY MAN REQUEST																
LATITUDE: 39.279452° N																
LONGITUDE: 107.953115° W																
IQ CREW: R. HENLINE, J. MATHIS, W. HALL																
THANK YOU FOR CHOOSING HALLIBURTON LOGGING SERVICES - VERNAL, UT (435) 789 - 2550															RIG: H&P 307	
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					
	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	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	2.700	ohmm
	SHARED	TRM	Temperature of Mud	48.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	20.0	degF
	SHARED	TD	Total Well Depth	7228.00	ft
	SHARED	BHT	Bottom Hole Temperature	181.0	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	
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	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	0.000	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	

HALLIBURTON

Plot Time: 25-Jan-11 22:05:31

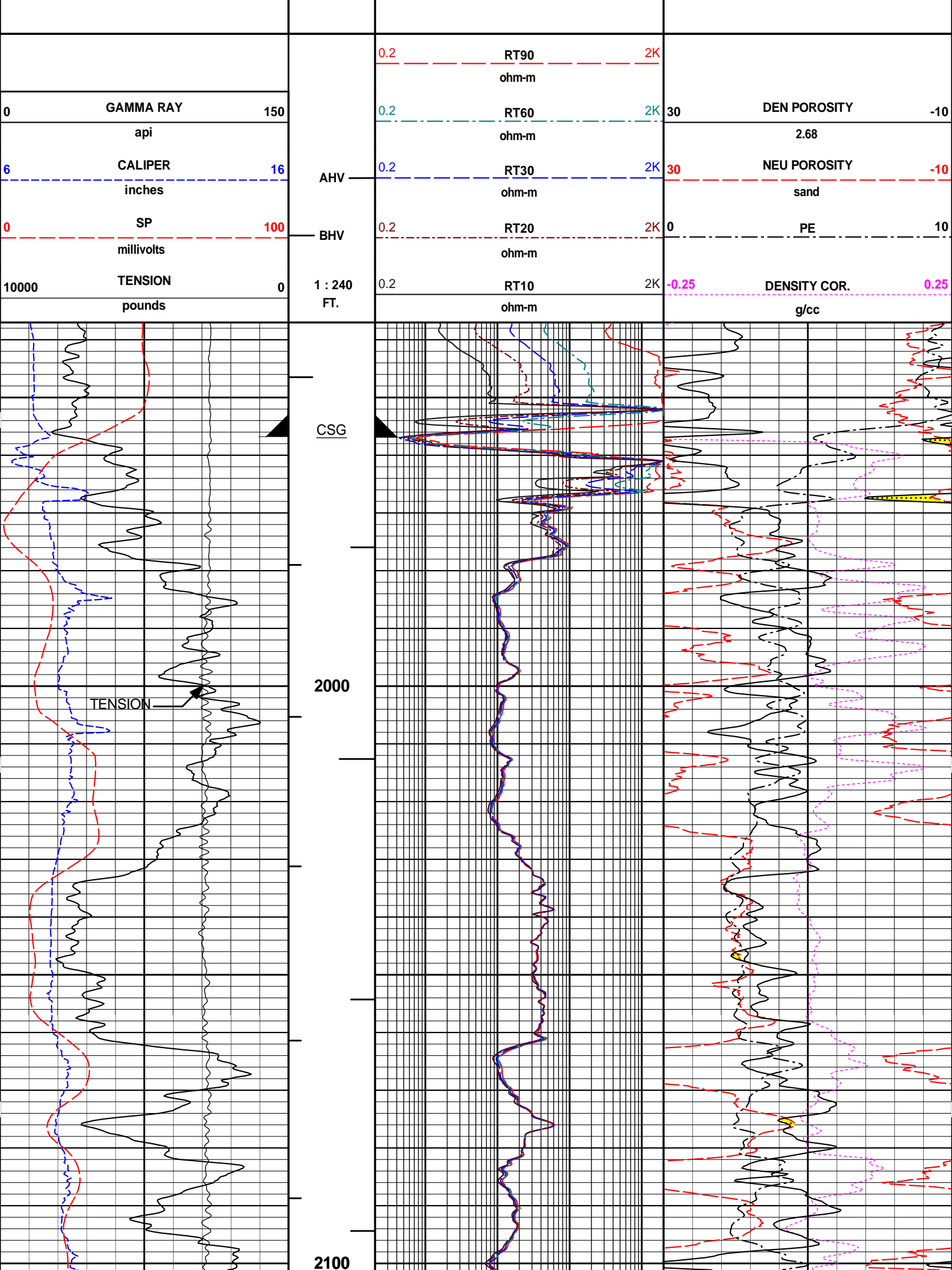
Plot Range: 1937 ft to 7236 ft

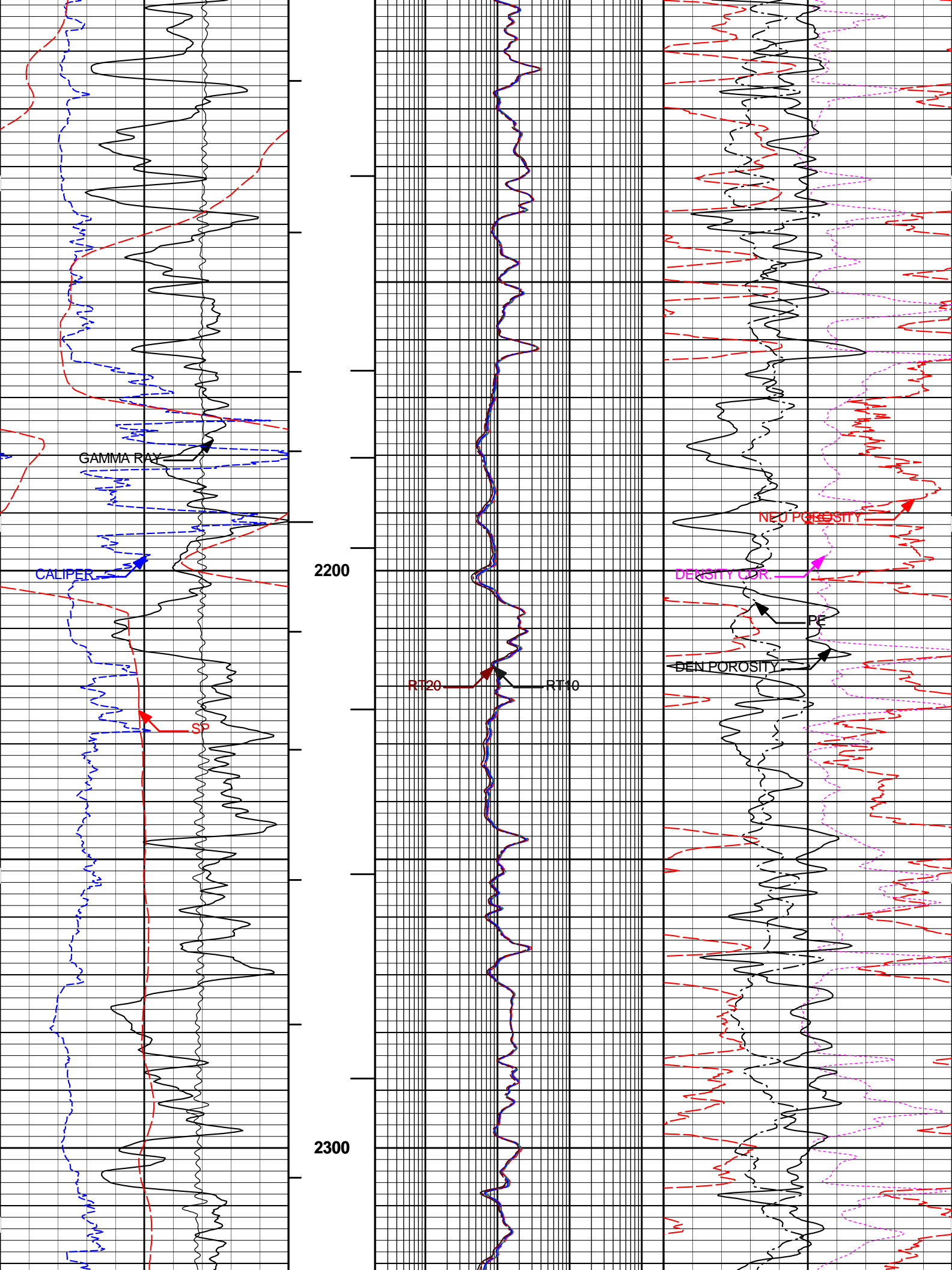
Data: K_C_11_416D_995\Well Based\MAIN

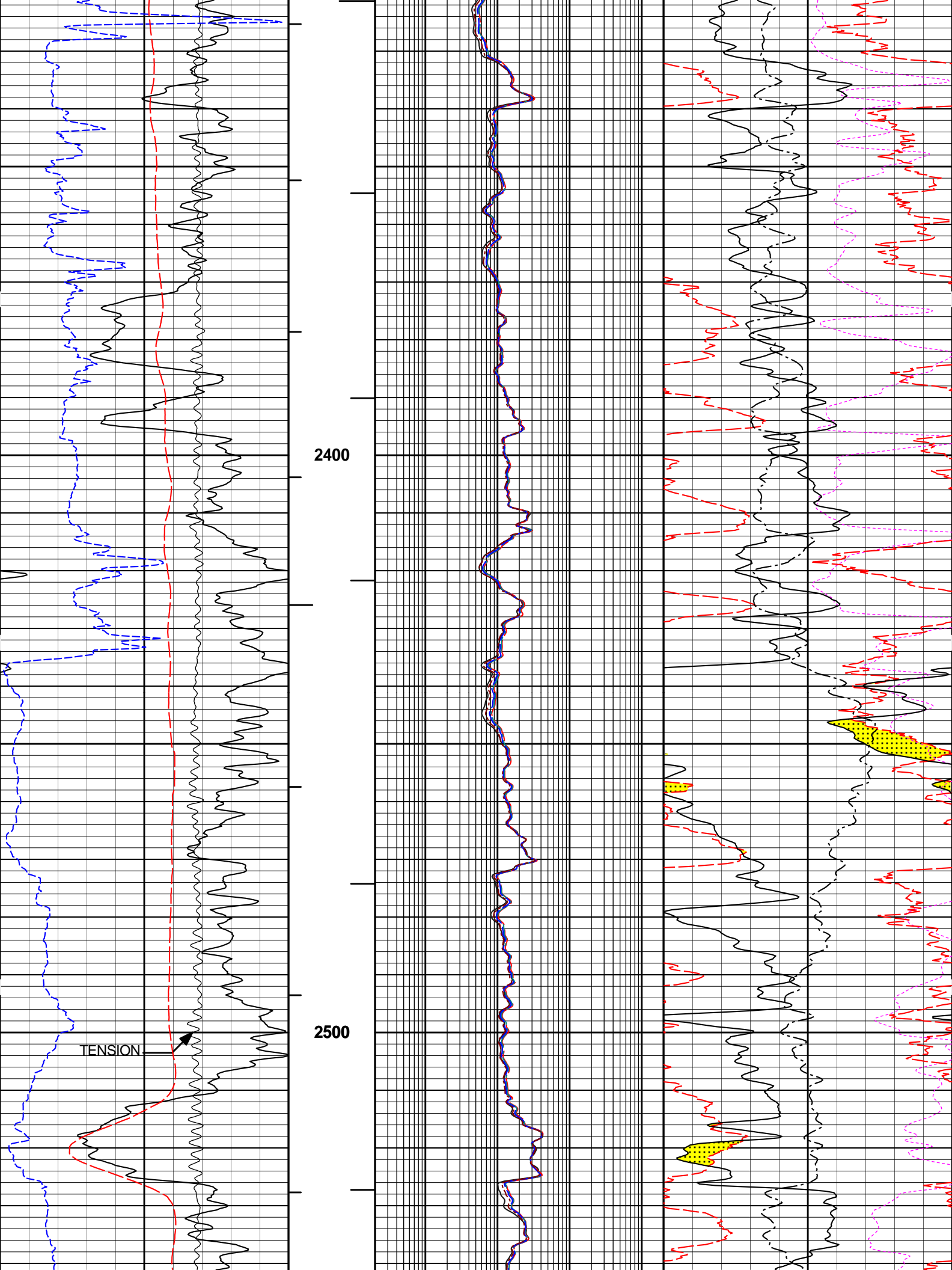
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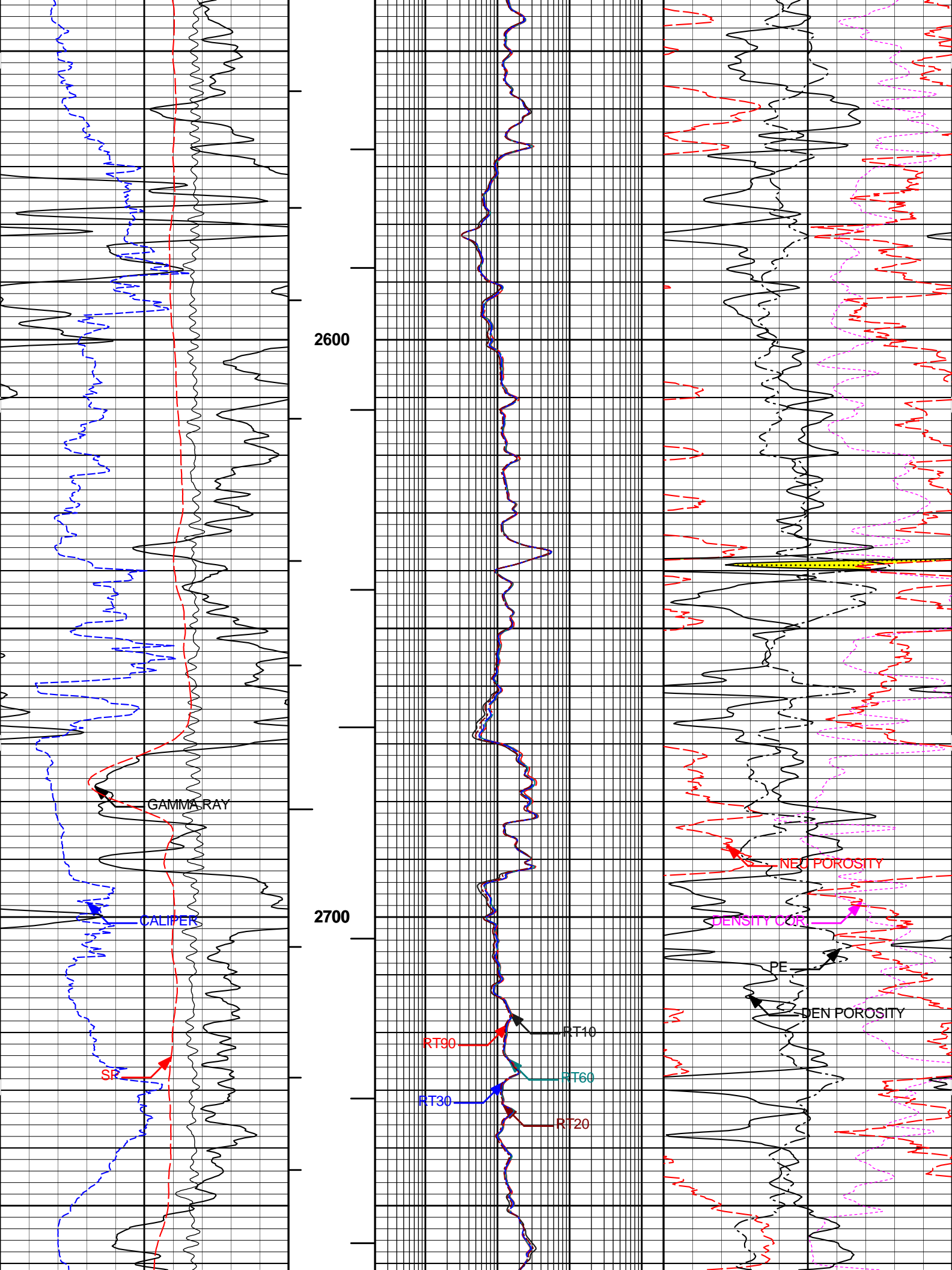
MAIN PASS 5" = 100'

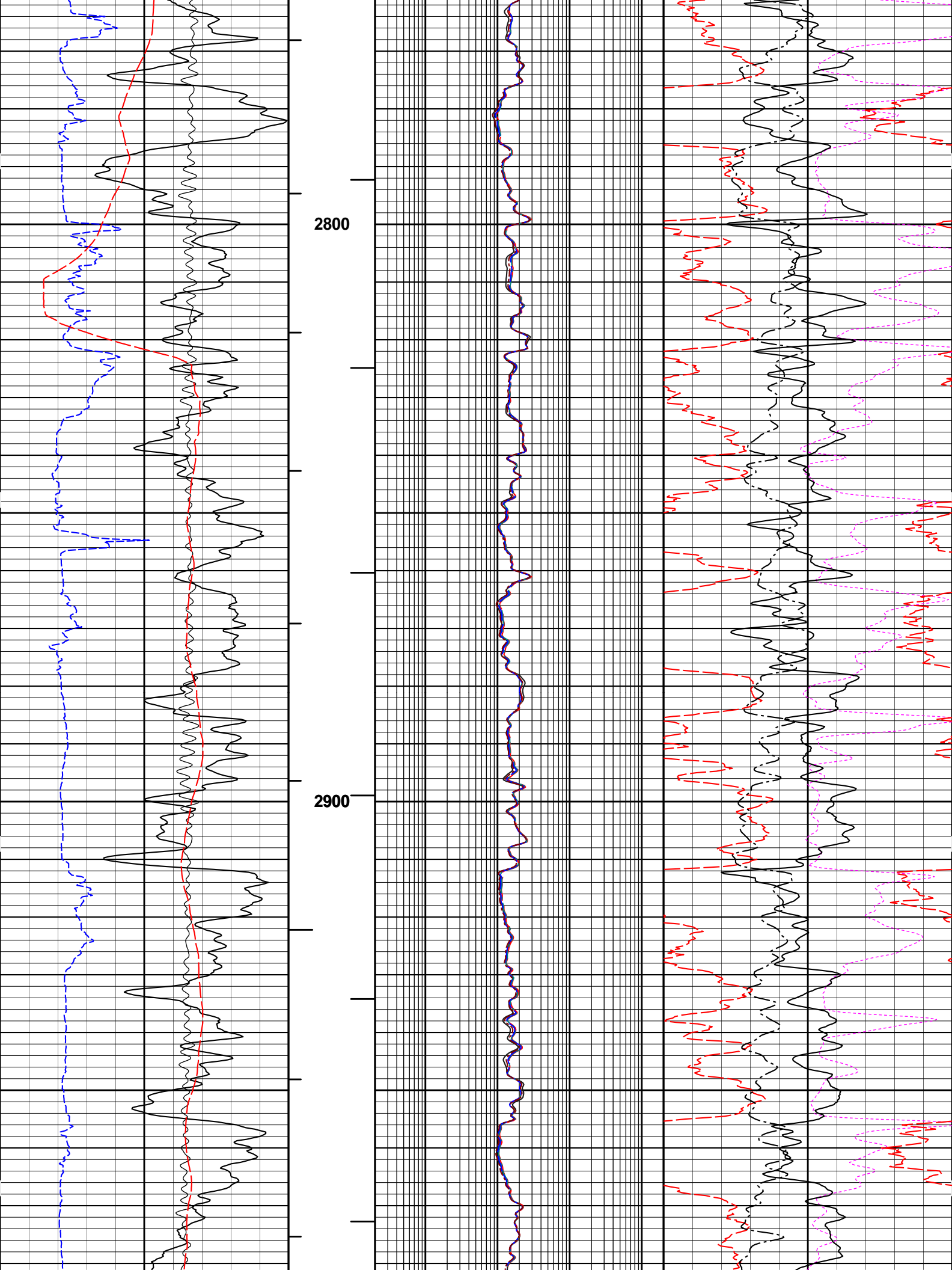
Track 1	Depth Track	Track 2	Track 3
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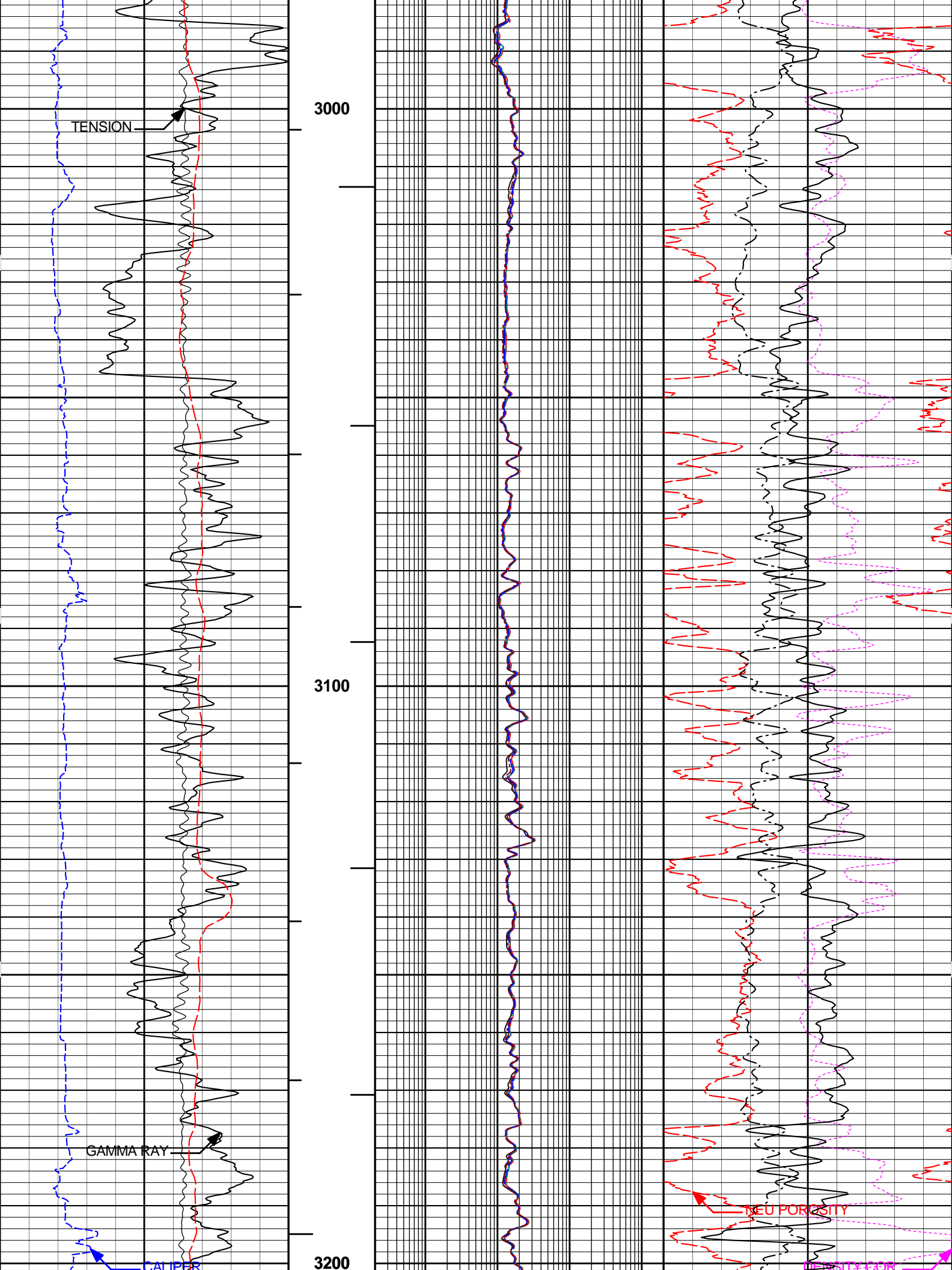


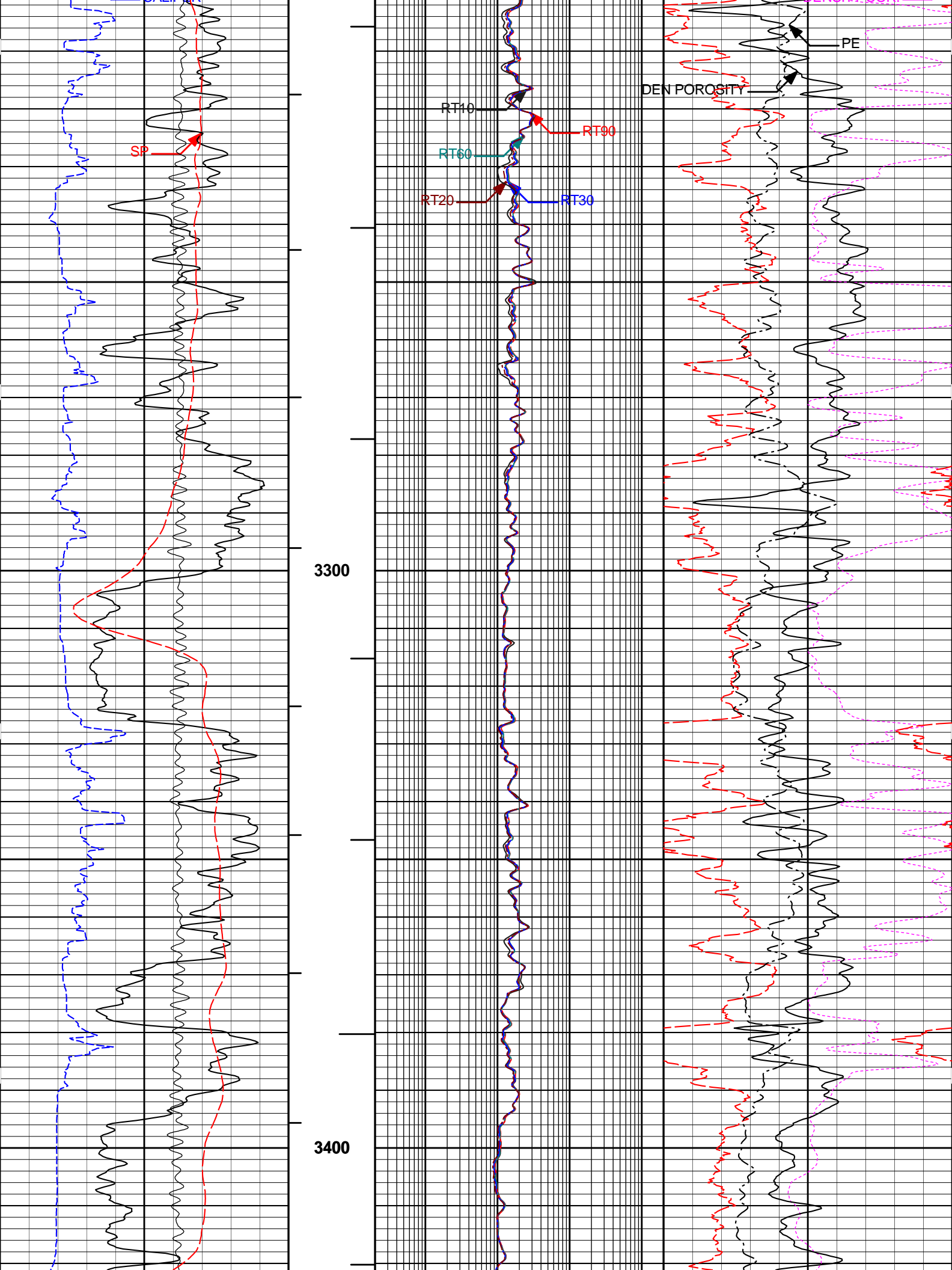


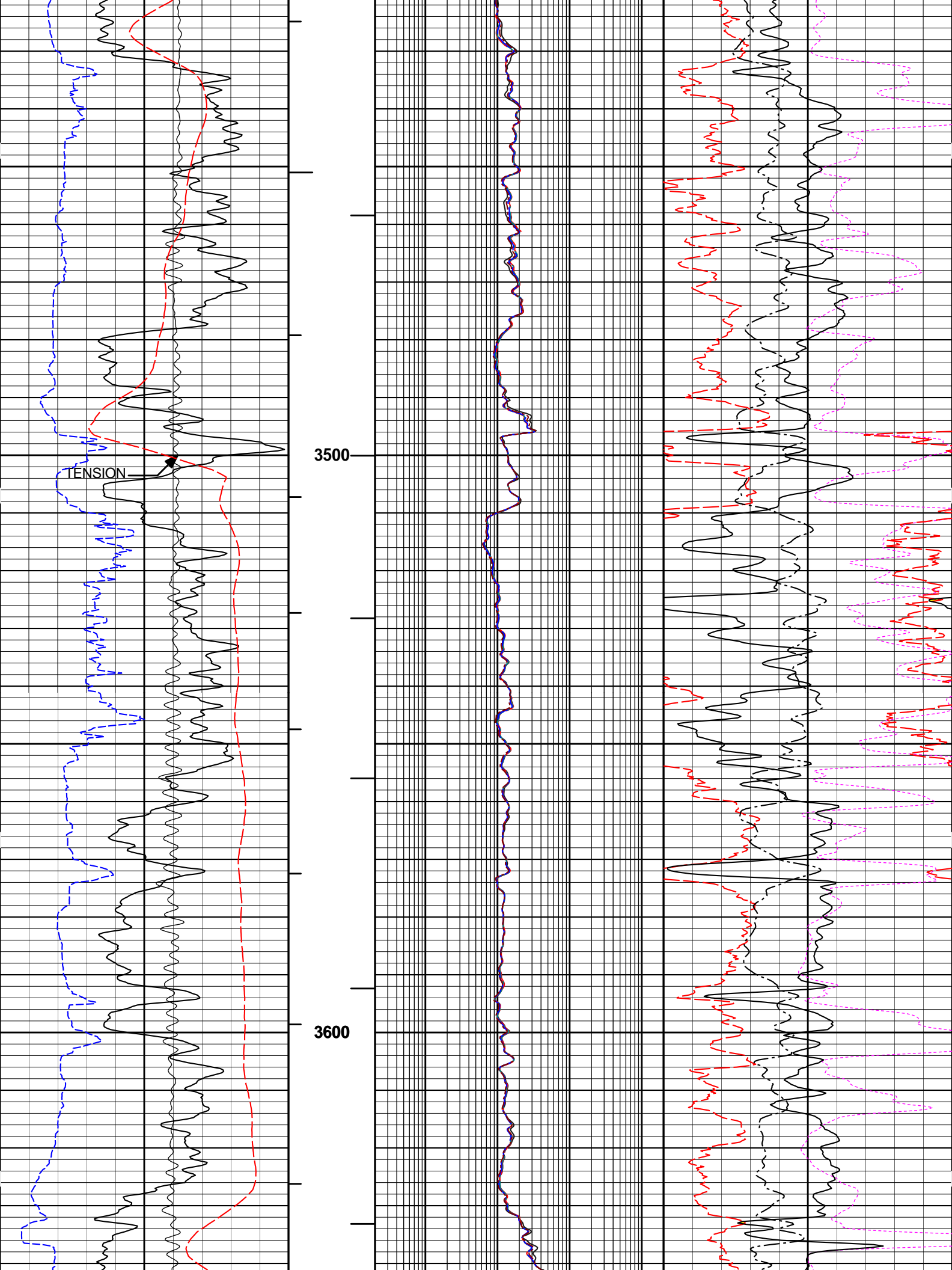


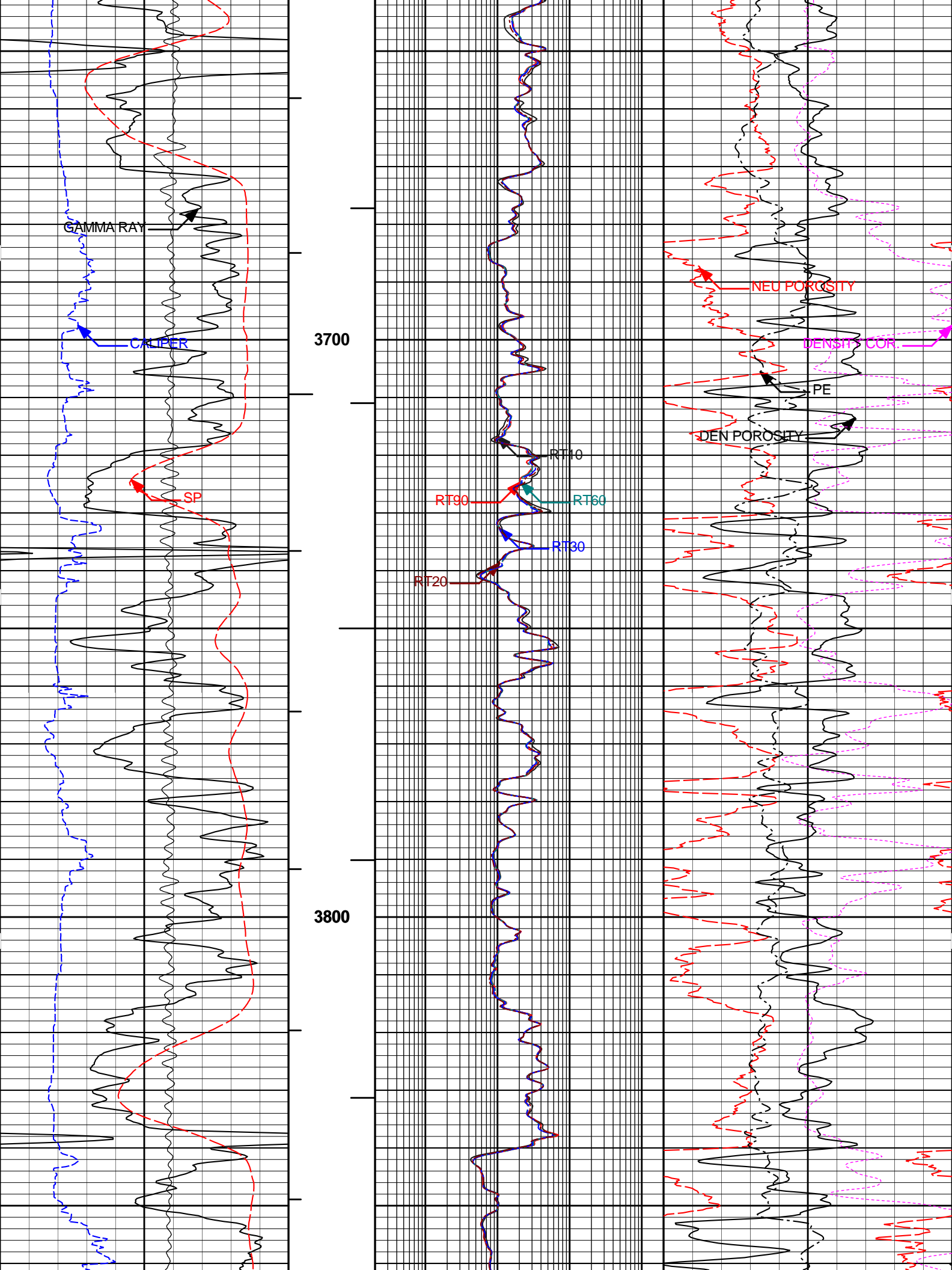


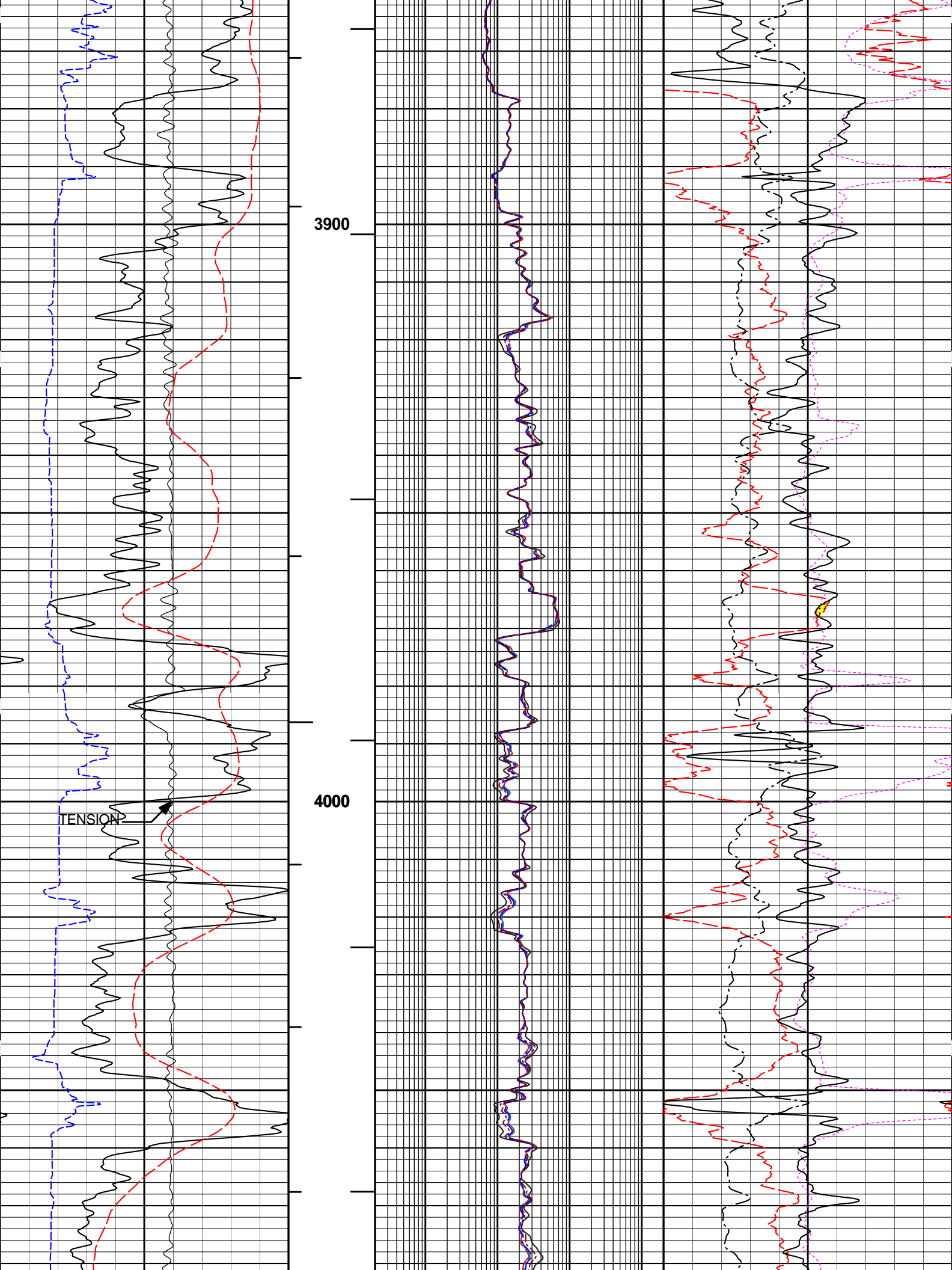


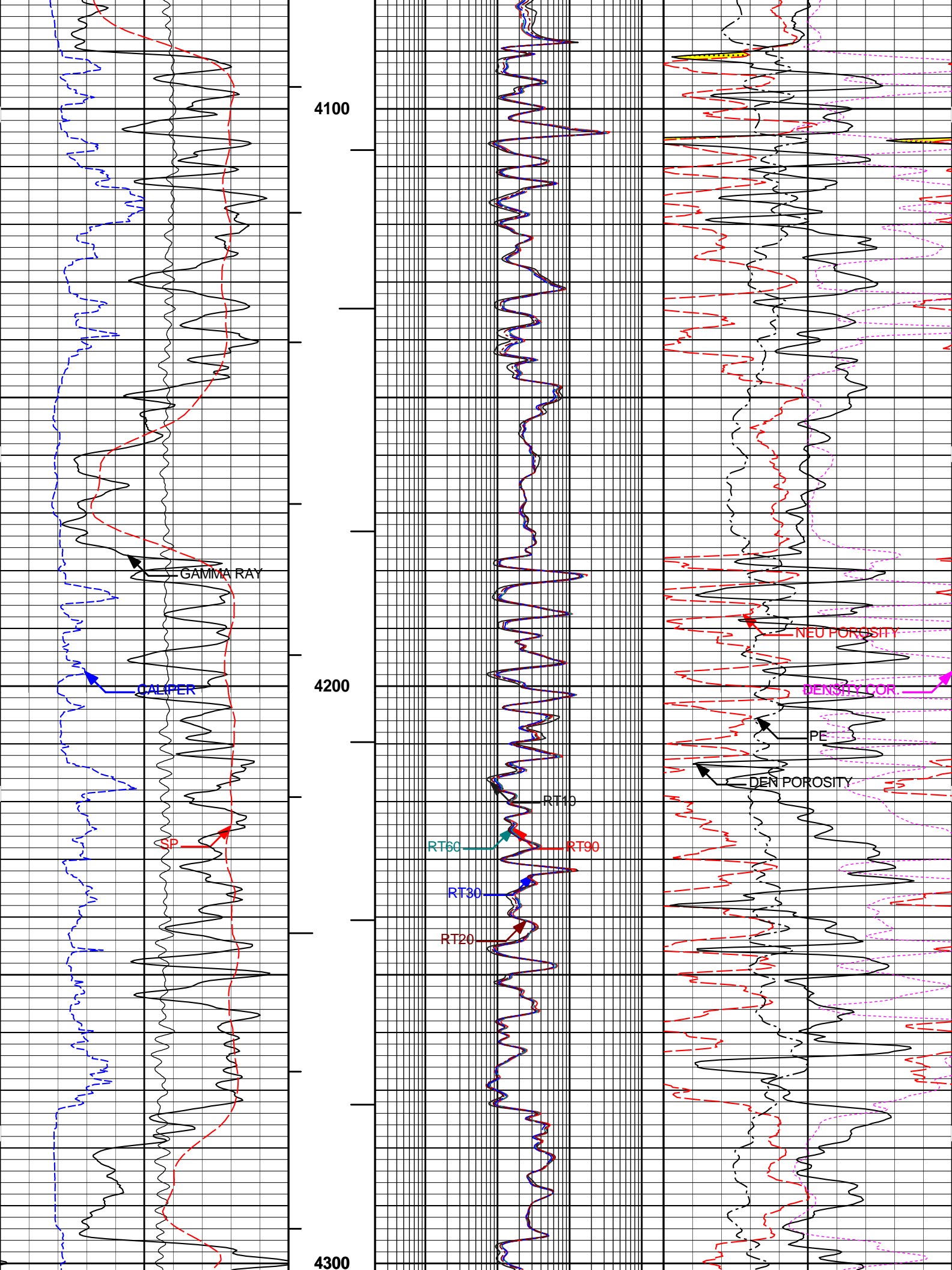


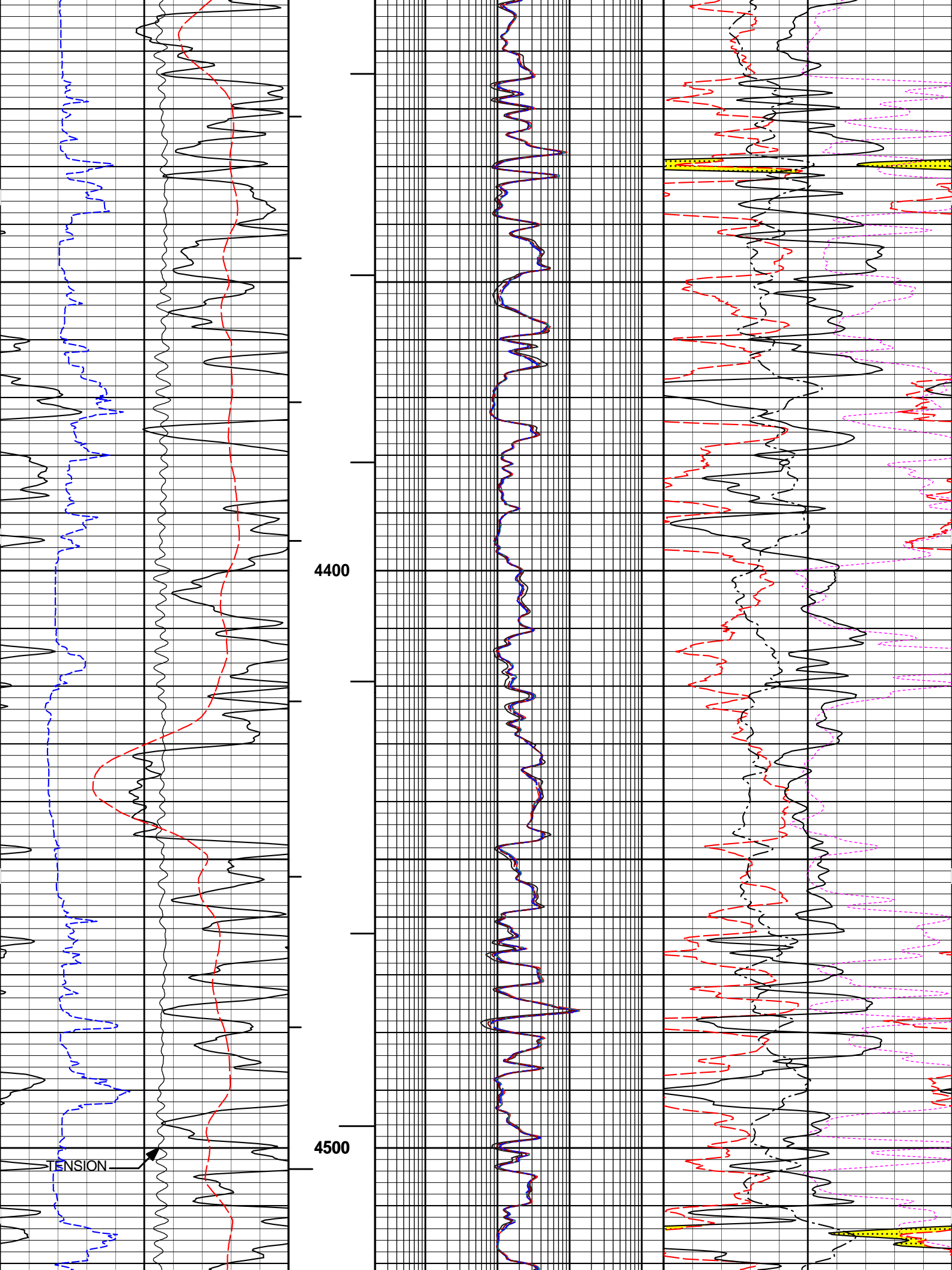


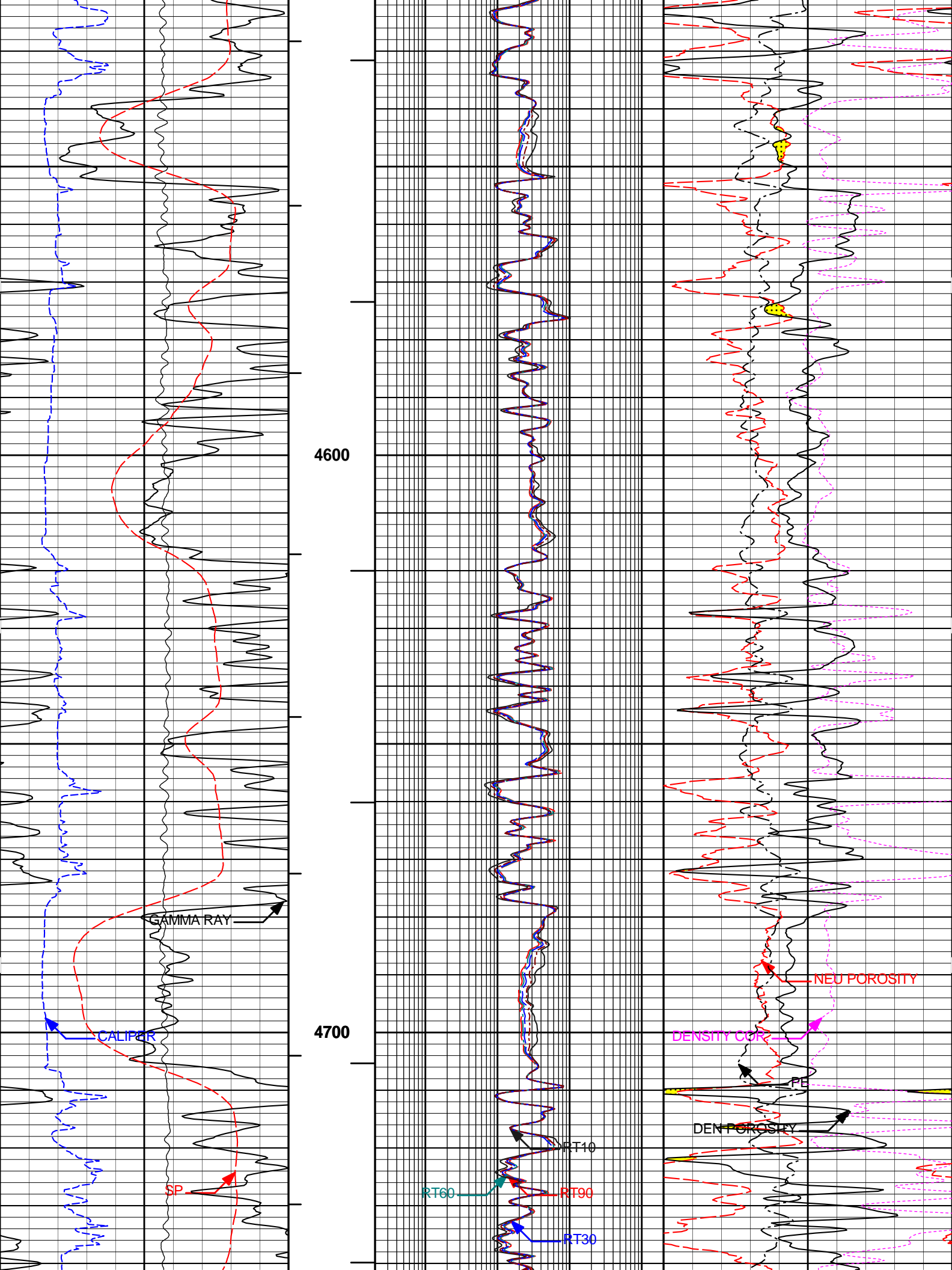


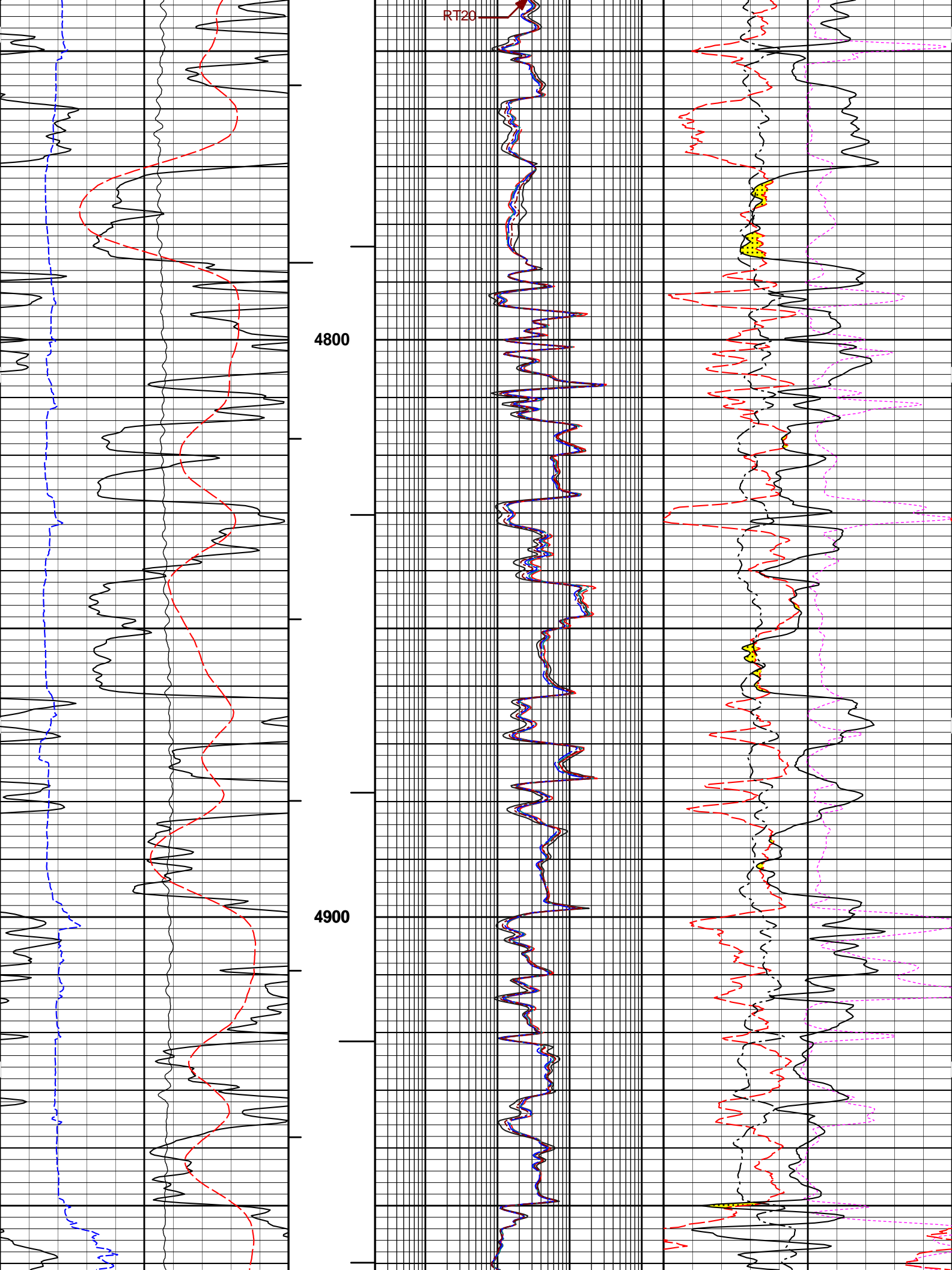


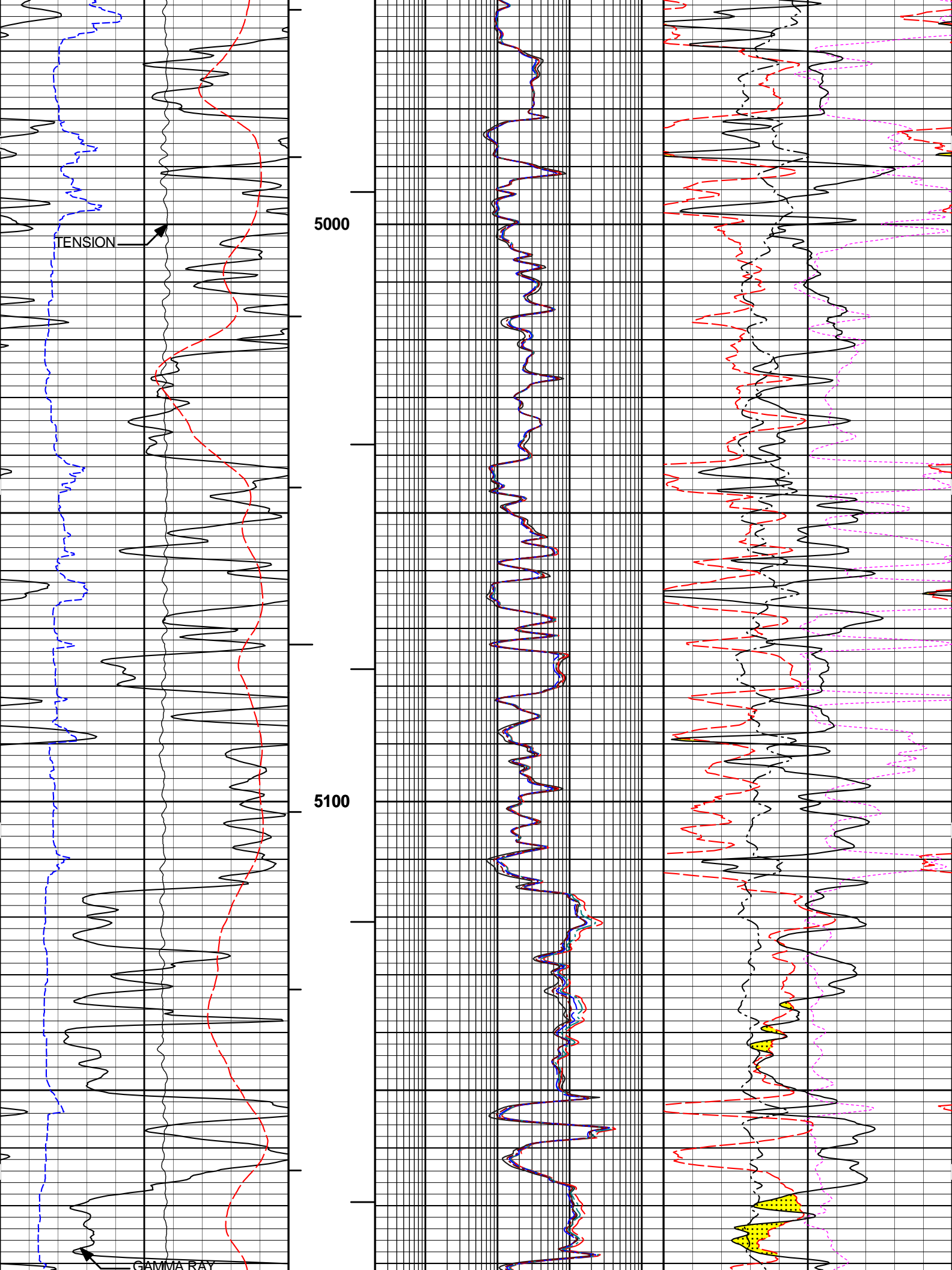


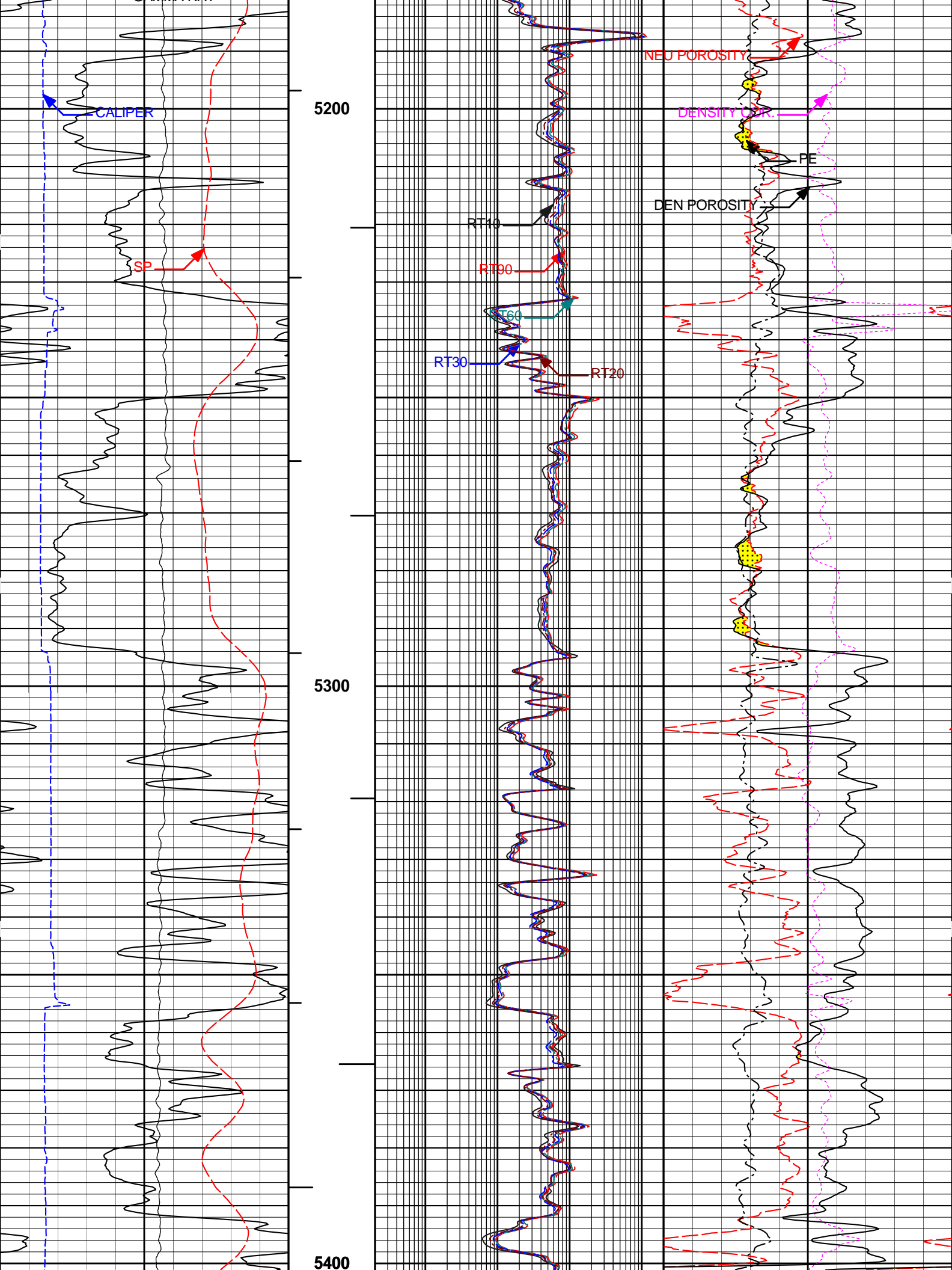


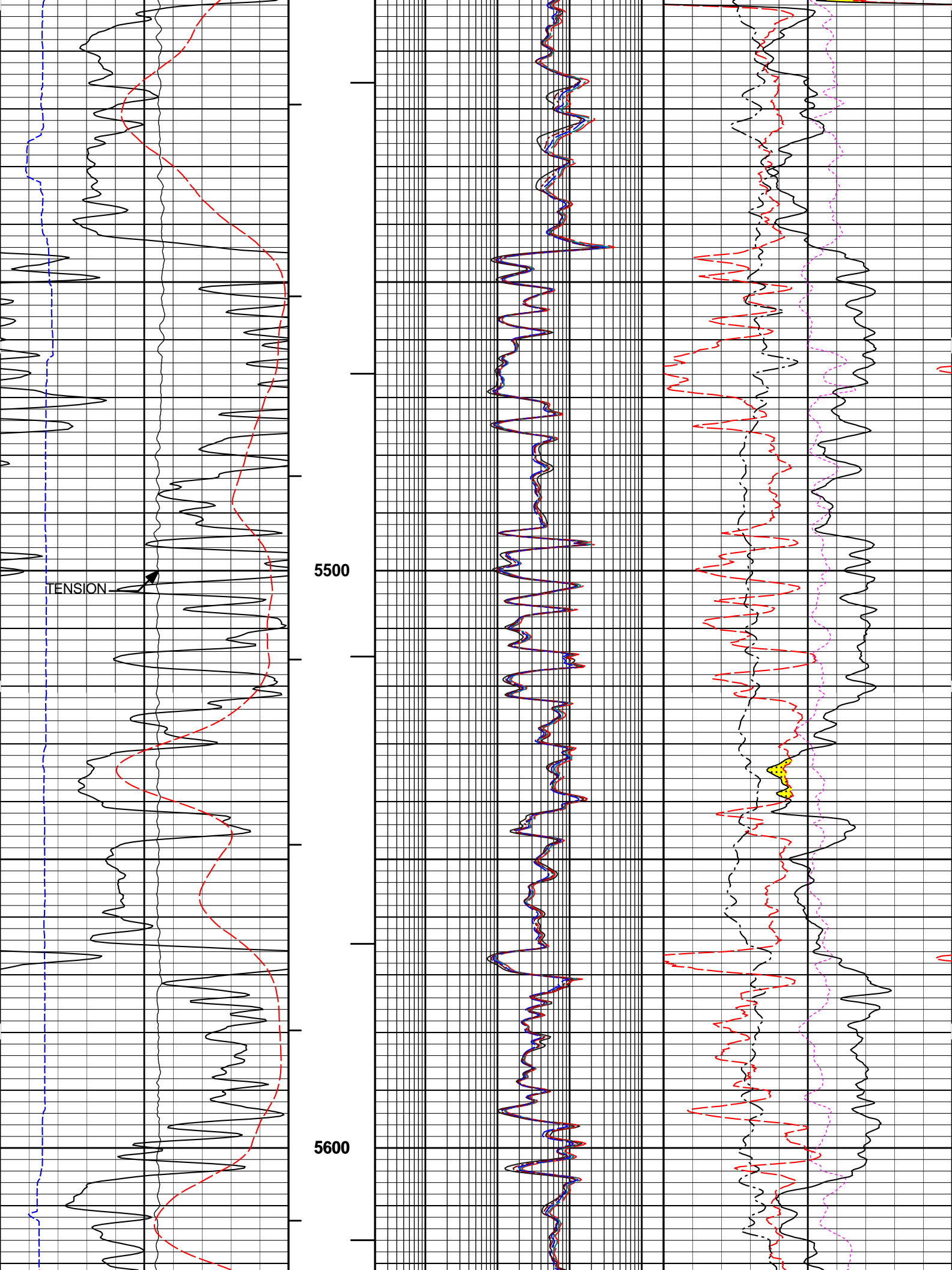


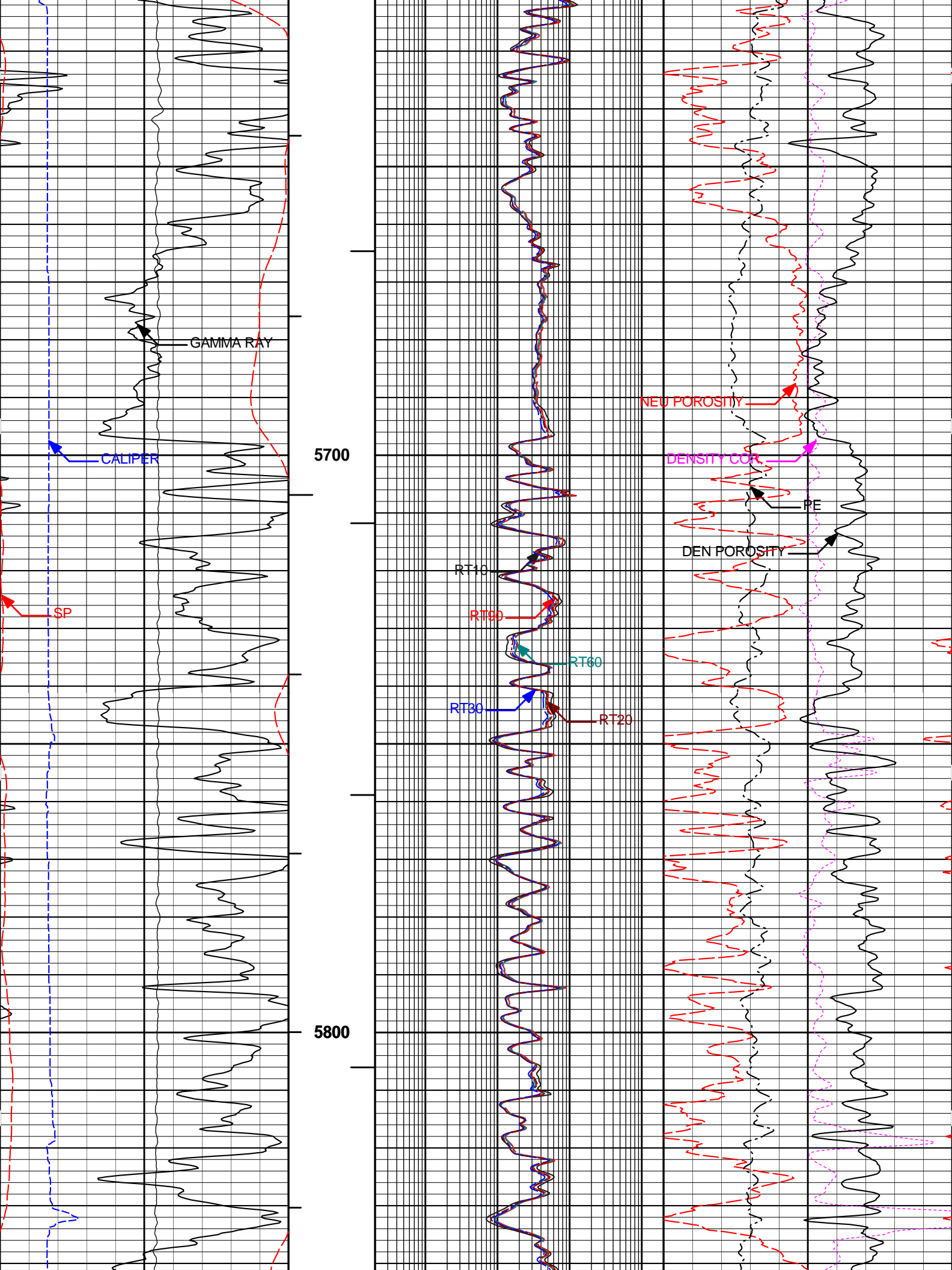


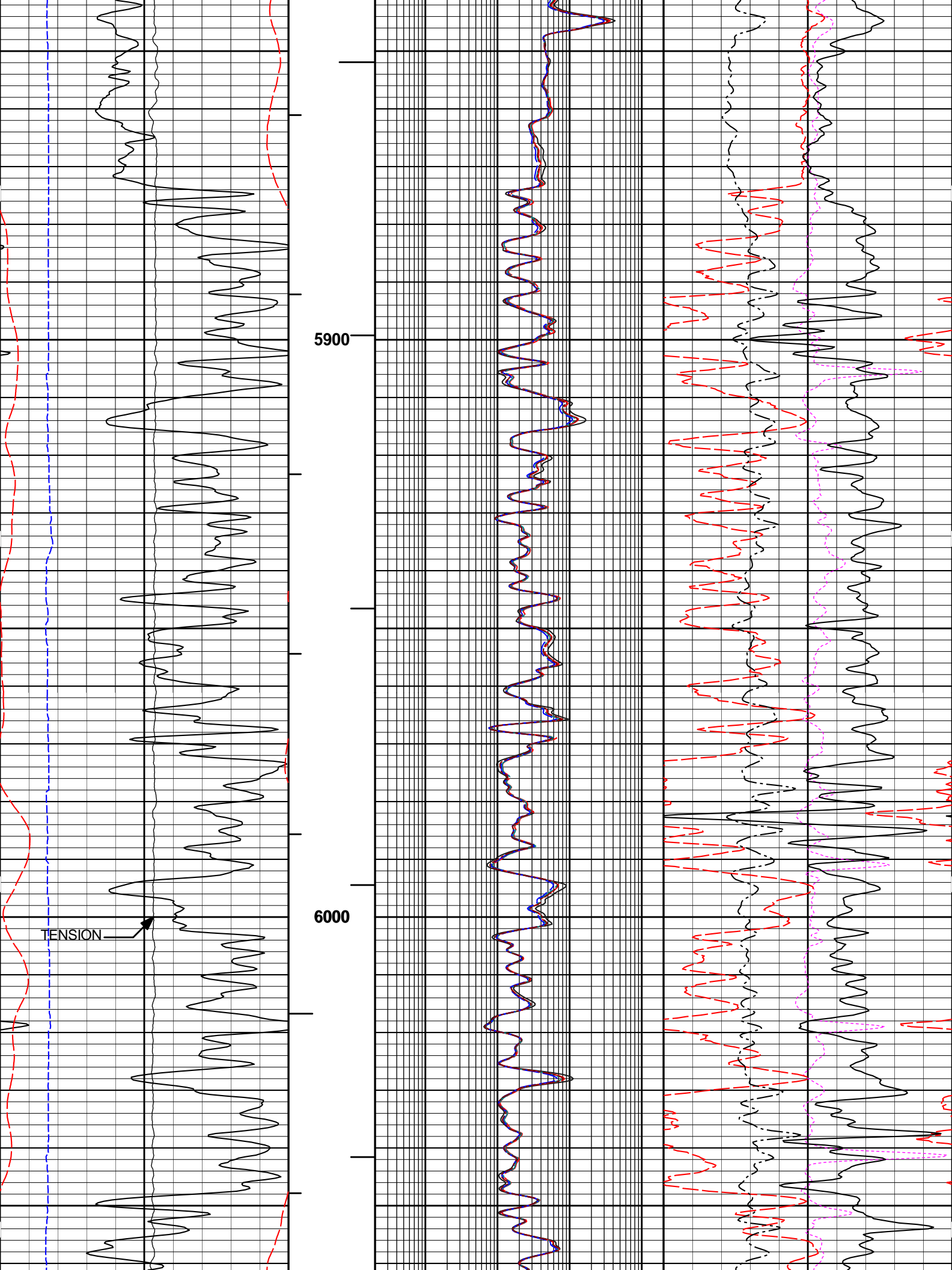


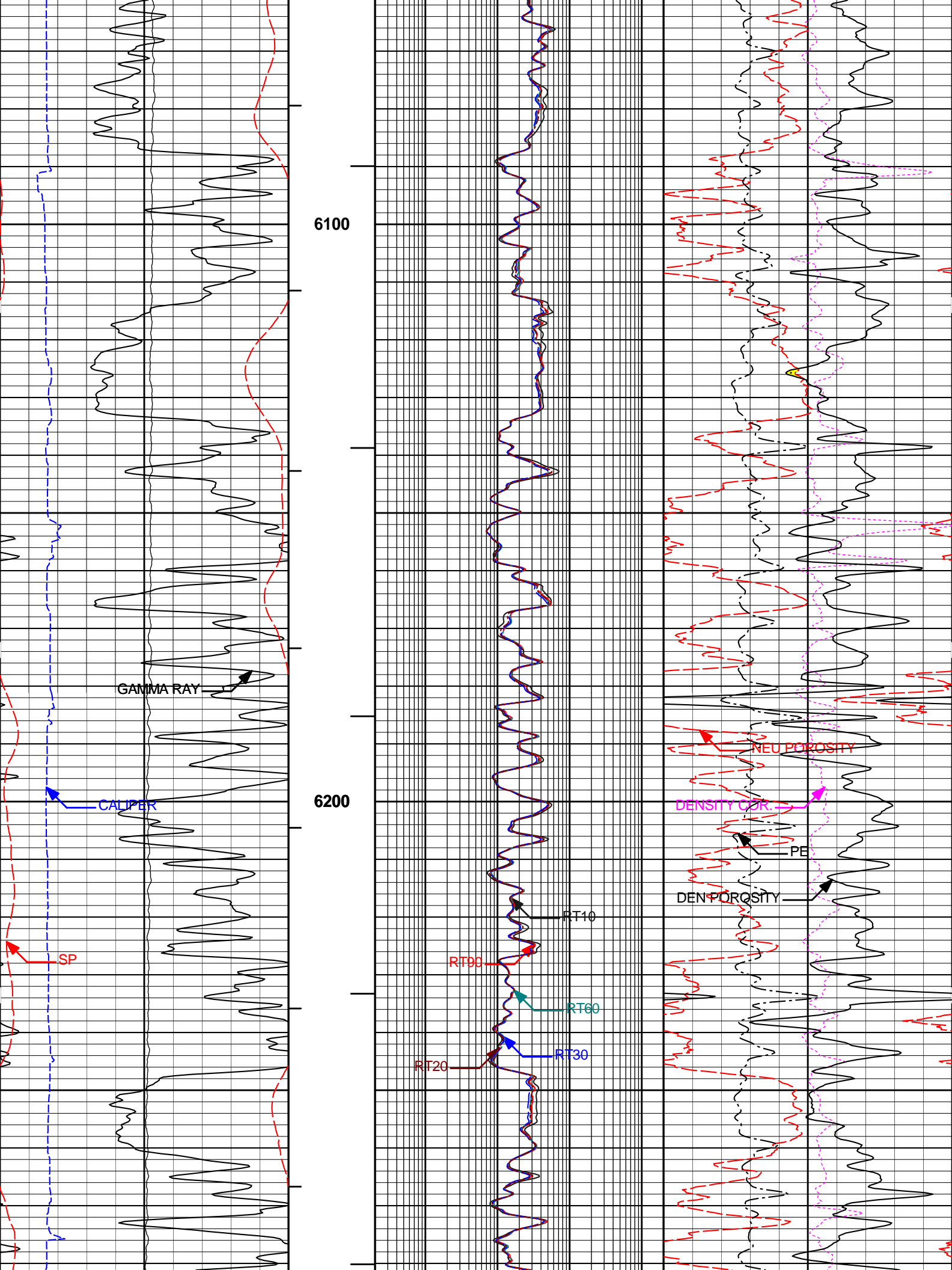


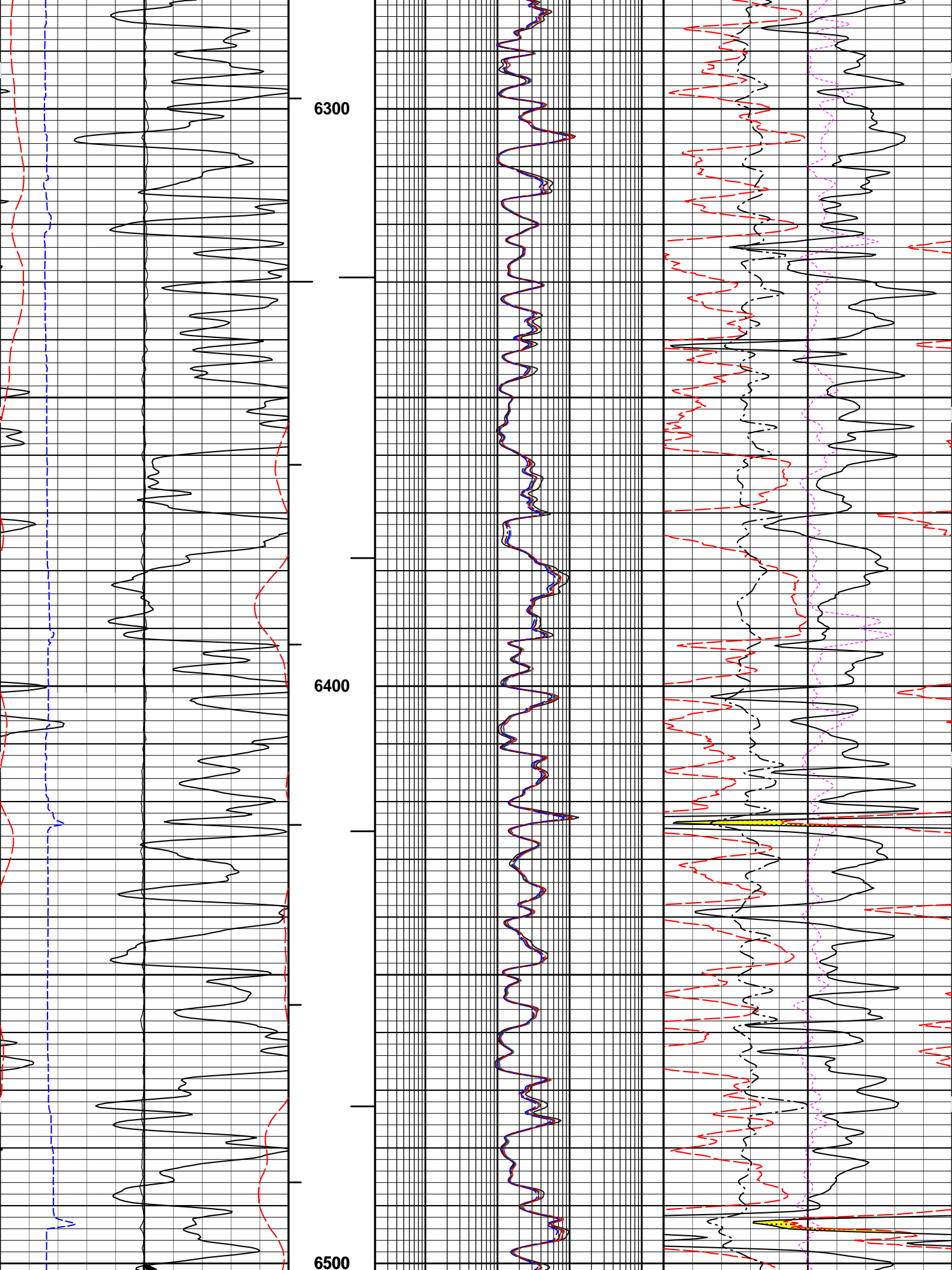


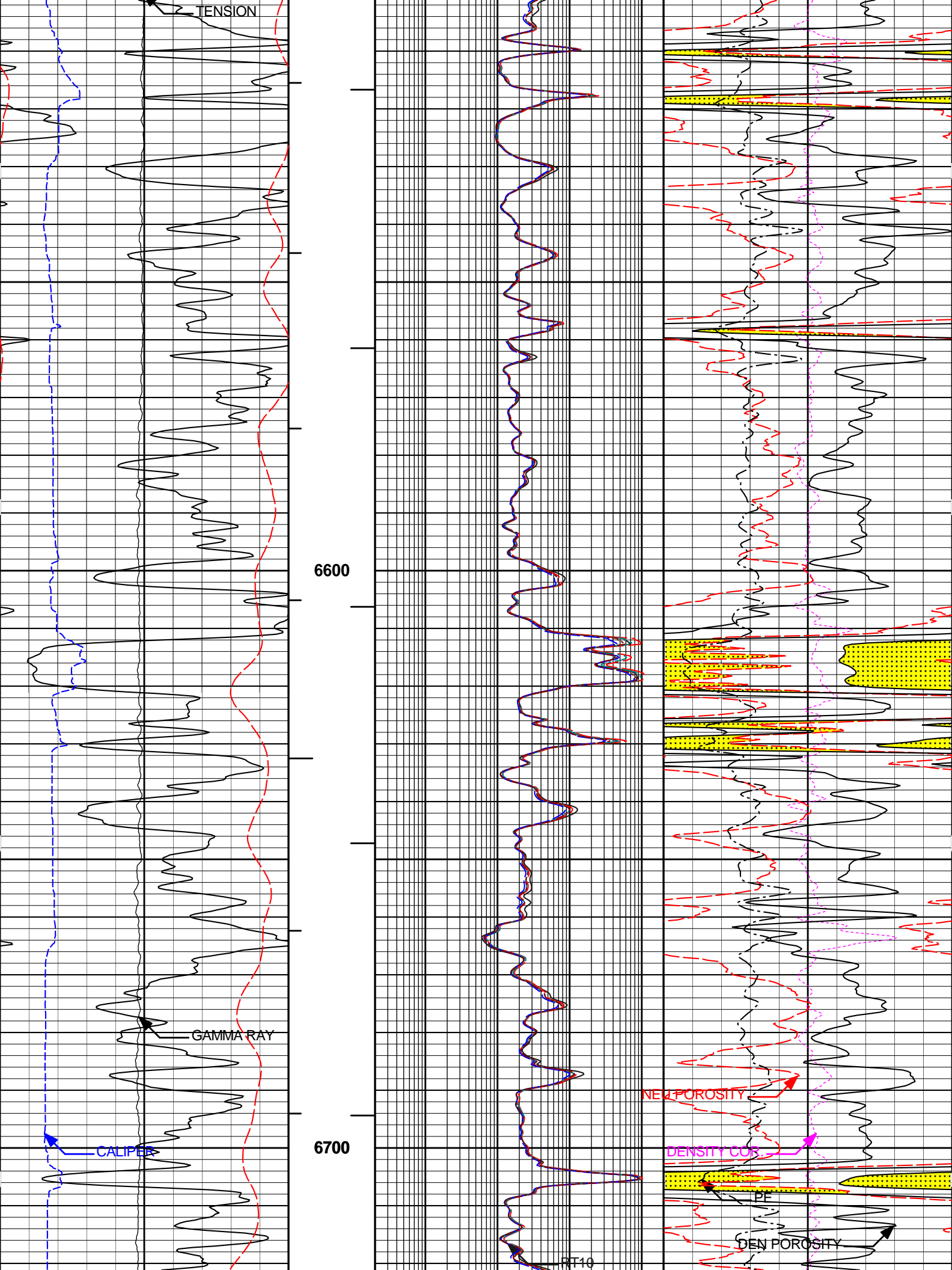


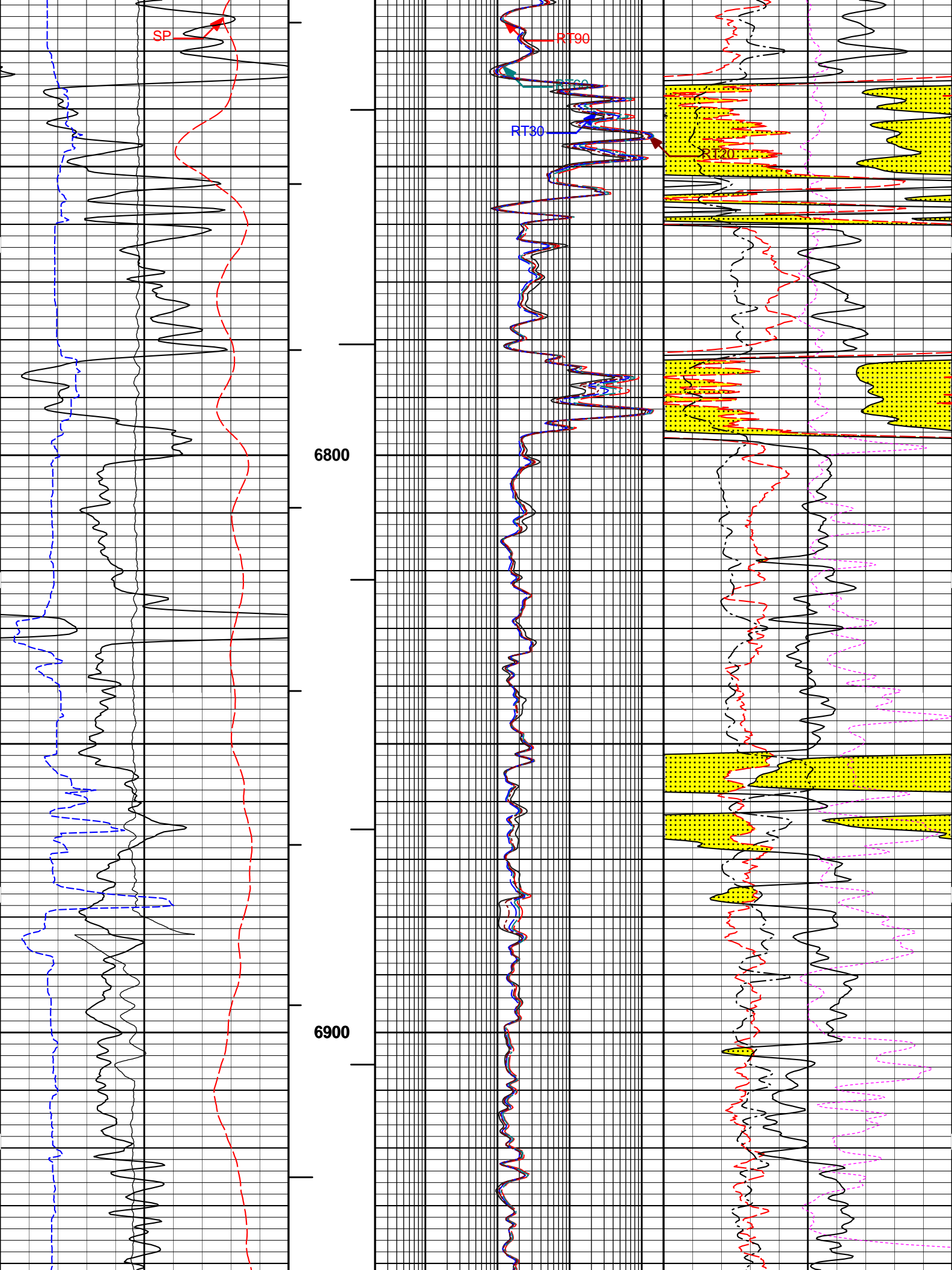


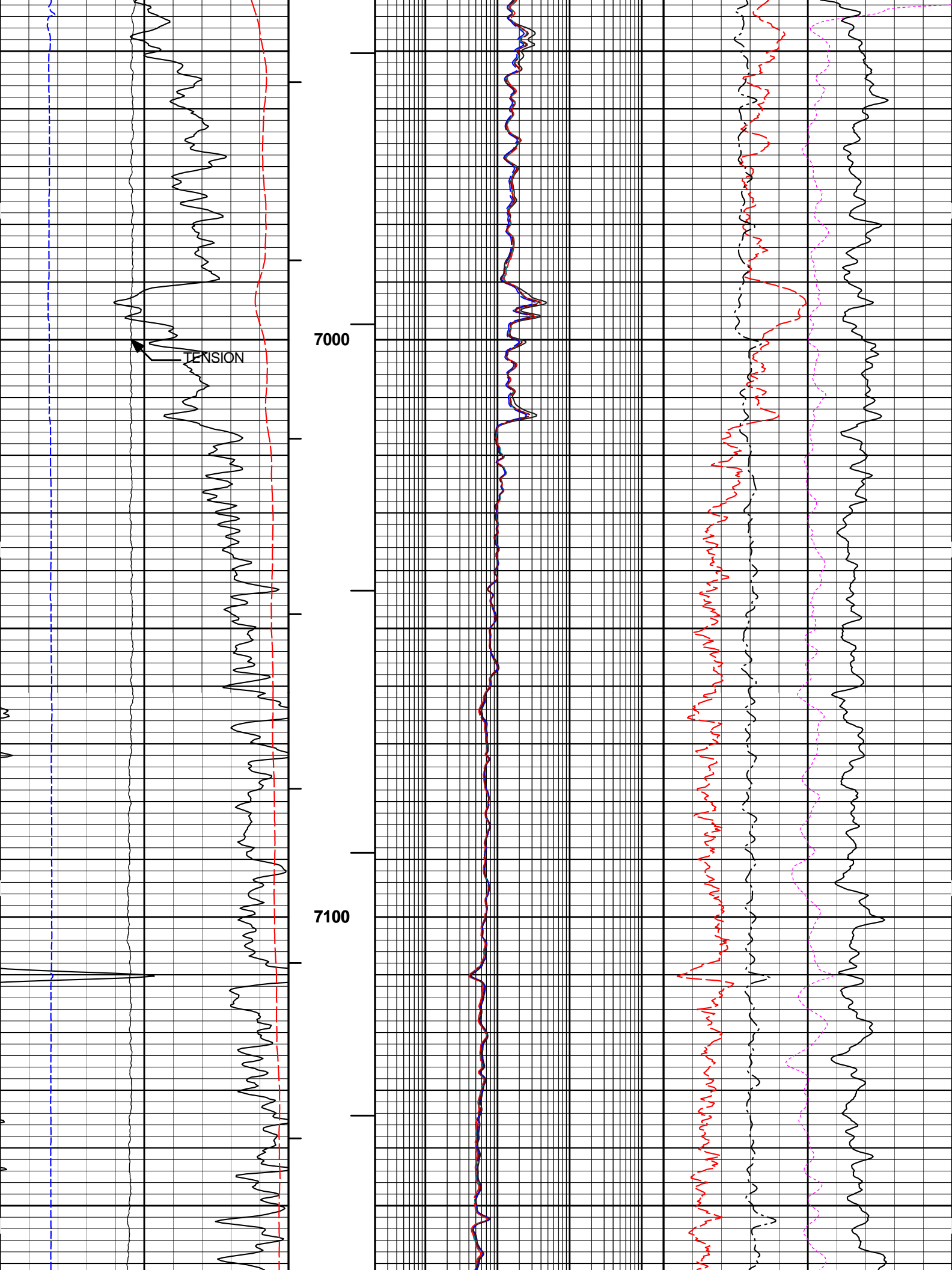


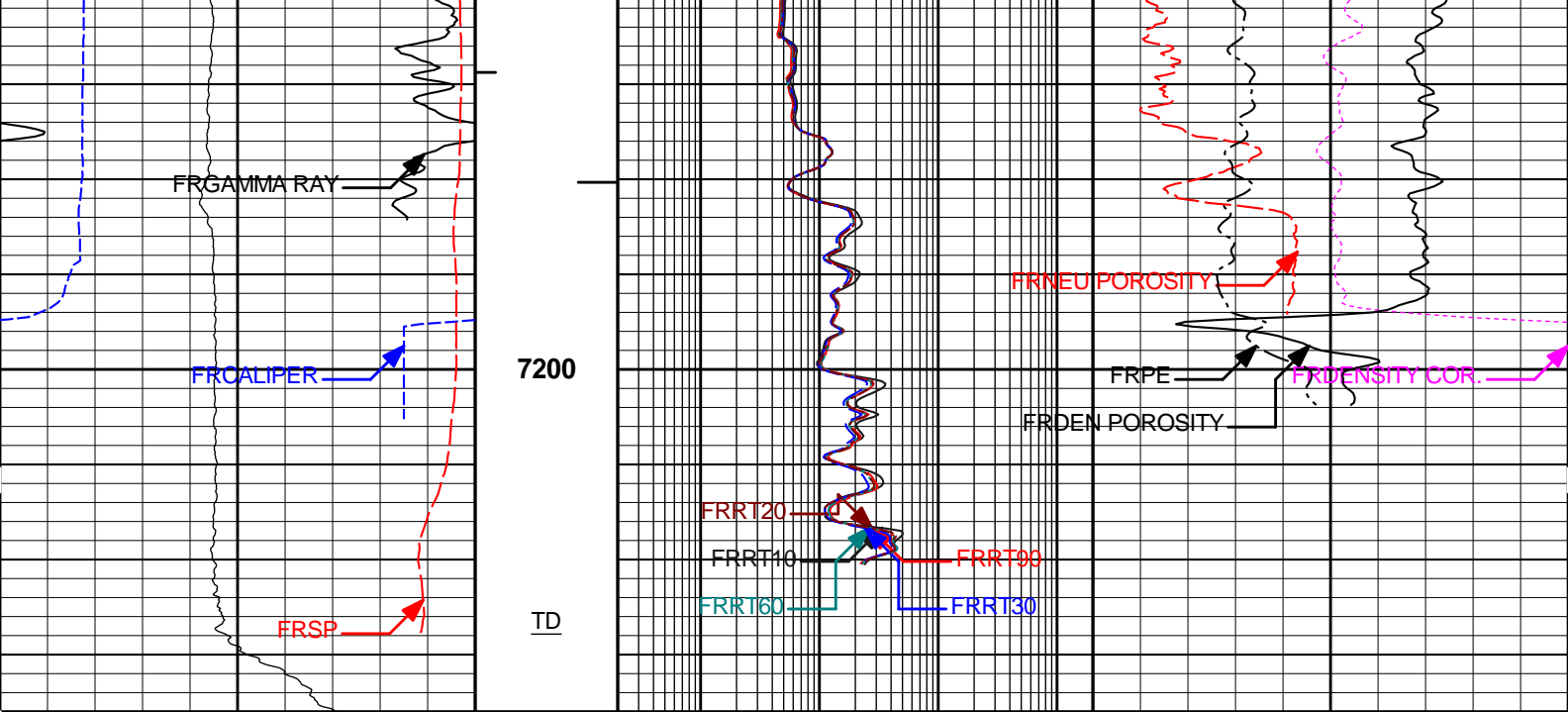












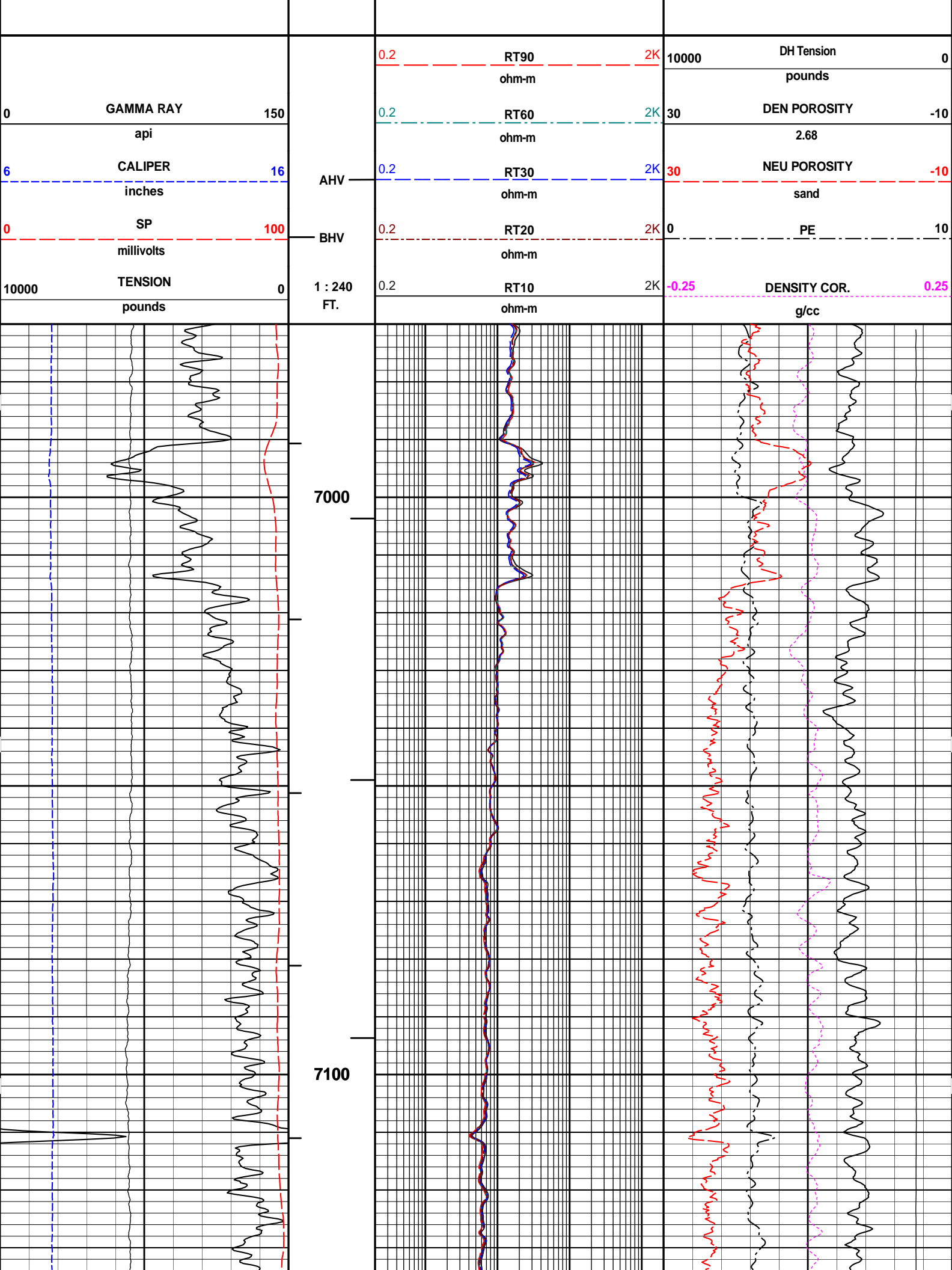
10000	TENSION	0	1 : 240	0.2	RT10	2K	-0.25	DENSITY COR.	0.25
	pounds		FT.		ohm-m			g/cc	
0	SP	100	BHV	0.2	RT20	2K	0	PE	10
	millivolts				ohm-m				
6	CALIPER	16	AHV	0.2	RT30	2K	30	NEU POROSITY	-10
	inches				ohm-m			sand	
0	GAMMA RAY	150		0.2	RT60	2K	30	DEN POROSITY	-10
	api				ohm-m			2.68	
				0.2	RT90	2K			
					ohm-m				

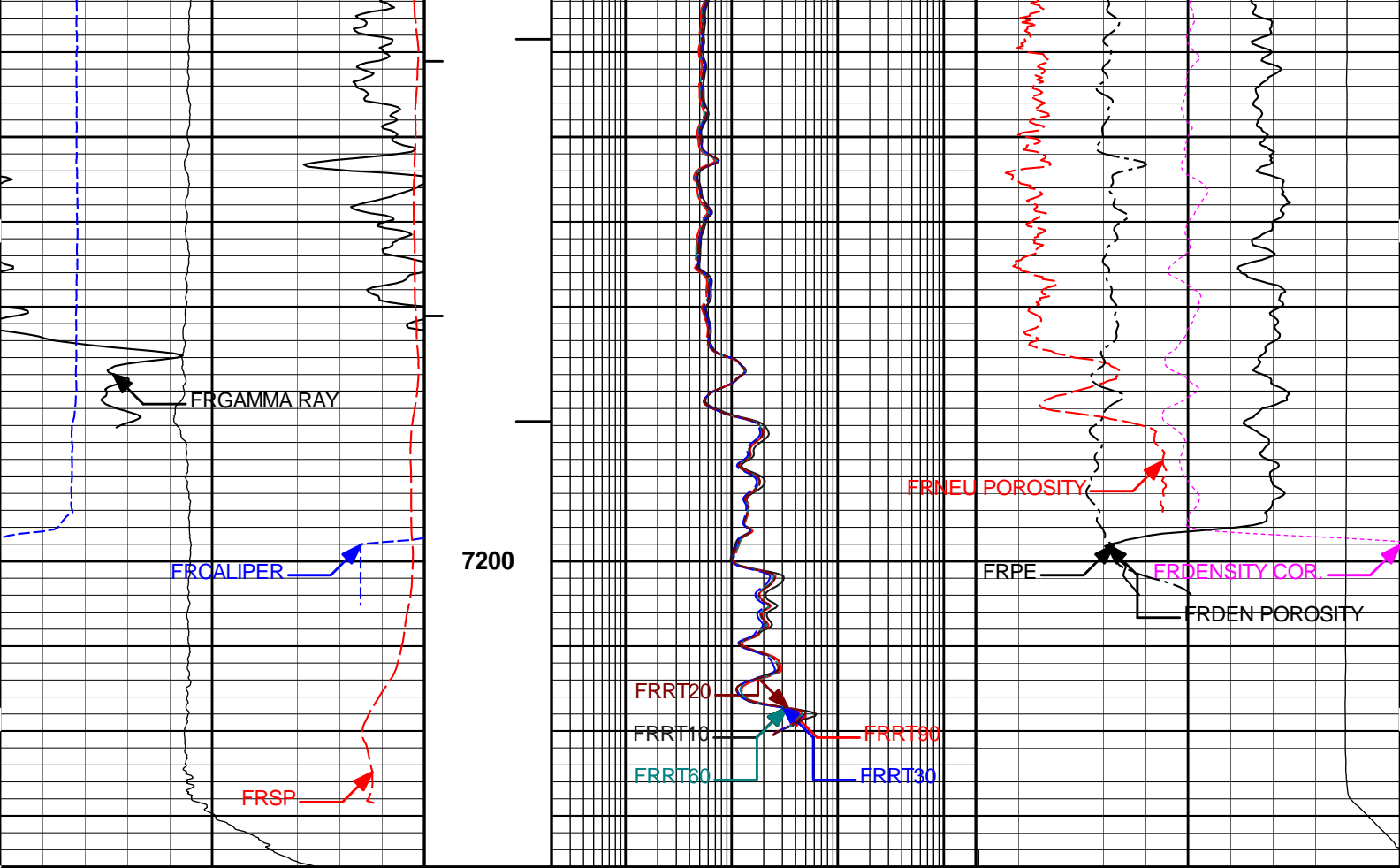
HALLIBURTON Plot Time: 25-Jan-11 22:06:09
 Plot Range: 1937 ft to 7236 ft
 Data: K_C_11_416D_995Well Based\MAIN\
 Plot File: \\TRIPLE\BP_TRIPLE_M

MAIN PASS 5" = 100'

HALLIBURTON Plot Time: 25-Jan-11 22:06:10
 Plot Range: 6970 ft to 7236 ft
 Data: K_C_11_416D_995Well Based\REPEAT\
 Plot File: \\TRIPLE\BP_TRIPLE_R

REPEAT PASS 5" = 100'





10000	TENSION	0	1 : 240	0.2	RT10	2K	-0.25	DENSITY COR.	0.25
	pounds		FT.		ohm-m			g/cc	
0	SP	100	BHV	0.2	RT20	2K	0	PE	10
	millivolts				ohm-m				
6	CALIPER	16	AHV	0.2	RT30	2K	30	NEU POROSITY	-10
	inches				ohm-m			sand	
0	GAMMA RAY	150		0.2	RT60	2K	30	DEN POROSITY	-10
	api				ohm-m			2.68	
				0.2	RT90	2K	10000	DH Tension	0
					ohm-m			pounds	

HALLIBURTON

Plot Time: 25-Jan-11 22:06:14
Plot Range: 6970 ft to 7236 ft
Data: K_C_11_416D_995\Well Based\REPEAT\
Plot File: \\TRIPLE\BP_TRIPLE_R

REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11016184	Reference Calibration Date:	23-Nov-10 14:31:00
Engineer:	J. MELANCON	Calibration Date:	23-Dec-10 14:14:53
Software Version:	WL INSITE R3.0.6 (Build 4)	Calibration Version:	1
Calibrator Source S/N: TB-549			
Calibrator API Reference:240.00 api			
Equivalent Calibrator API Reference:244.2 api			
Measurement	Measured	Calibrated	Units
Background	37.5	37.7	api
Background + Calibrator	280.9	281.9	api
Calibrator	244.3	244.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11016184	Reference Calibration Date:	23-Dec-10 14:14:53
Engineer:	M. LECUREUX	Calibration Date:	24-Jan-11 16:23:48
Software Version:	WL INSITE R3.2.3 (Build 5)	Calibration Version:	1
Calibrator Source S/N: TB-549			
Calibrator API Reference:240.00 api			
Equivalent Calibrator API Reference:244.2 api			
Field Verification	Shop	Field	Units
Background	37.7	28.2	api
Background + Calibrator	281.9	279.4	api
Calibrator	244.2	251.2	api
Shop	Field	Difference	Tolerance
244.2	251.2	-7.0	+/- 9.00

ACCELEROMETER SHOP CALIBRATION			
Tool Name:	GTET - 11016184	Reference Calibration Date:	23-Nov-10 14:36:57
Engineer:	J. MELANCON	Calibration Date:	23-Dec-10 14:21:26
Software Version:	WL INSITE R3.0.6 (Build 4)	Calibration Version:	1
Horizontal-1 Telemetry	Horizontal-2 Telemetry	Vertical Telemetry	Units
-285.55	-282.36	-16632.91	cnts
Coefficient	Coefficient Value	Tolerance	
Gain	-0.000061	-0.0100 - 0.0100	
Offset	-0.017	-----	
Noise	0.0004	0.0030	
Orientation	Measured	Calibrated	
Horizontal	0.00	0.00	
Vertical	1.01	1.00	

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 11013116	Reference Calibration Date:	23-Nov-10 09:54:50
Engineer:	J. MELANCON	Calibration Date:	23-Dec-10 14:02:20
Software Version:	WL INSITE R3.0.6 (Build 4)	Calibration Version:	1
Logging Source S/N: 08-040			
Tank Serial Number: 105045			
Reference value assigned to Tank: 52.630			
Snow Block S/N: 37526			
Calibration Tank Water Temperature: 63 degF			
Min. Tool Housing Outside Diameter: 3.625 in			

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.959	0.955	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):	0.2176	0.2162	0.0013	+/- 0.0020
Calibrated Ratio:	9.95	9.91	0.044	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0593	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 - 11013116	Reference Calibration Date:	23-Dec-10 14:02:20
Engineer:	M. LECUREUX	Calibration Date:	24-Jan-11 16:40:51
Software Version:	WL INSITE R3.2.3 (Build 5)	Calibration Version:	1

Logging Source S/N: 08-040
Snow Block S/N: 37526

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0593	0.0691	0.0098	+/- 0.0150

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

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT - 10950493	Reference Calibration Date:	23-Nov-10 11:52:40
Engineer:	J. MELANCON	Calibration Date:	23-Dec-10 11:23:17
Software Version:	WL INSITE R3.0.6 (Build 4)	Calibration Version:	1

Logging Source S/N: 24520B
Aluminum Block S/N: 8261
Magnesium Block S/N: 8260

Density: 2.602g/cc Pe: 3.100
Density: 1.688g/cc Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0295	1.0304	0.90 - 1.10
Near Dens Gain	1.0126	1.0111	0.90 - 1.10
Near Peak Gain	0.9920	0.9936	0.90 - 1.10
Near Lith Gain	0.9543	0.9624	0.90 - 1.10
Far Bar Gain	1.0102	1.0110	0.90 - 1.10

Far Dens Gain	0.9976	0.9996	0.90 - 1.10
Far Peak Gain	0.9936	0.9905	0.90 - 1.10
Far Lith Gain	0.9691	0.9687	0.90 - 1.10
Near Bar Offset	-0.1869	-0.2011	NONE
Near Dens Offset	-0.0422	-0.0359	NONE
Near Peak Offset	0.1267	0.1065	NONE
Near Lith Offset	0.4149	0.3371	NONE
Far Bar Offset	-0.0444	-0.0530	NONE
Far Dens Offset	0.0513	0.0329	NONE
Far Peak Offset	0.0447	0.0689	NONE
Far Lith Offset	0.2185	0.2108	NONE
Near Bar Background	955.12	956.75	700 - 1450
Near Dens Background	314.05	311.42	230 - 480
Near Peak Background	135.68	136.13	100 - 210
Near Lith Background	167.16	167.68	125 - 260
Far Bar Background	561.16	558.14	450 - 900
Far Dens Background	218.69	215.73	175 - 345
Far Peak Background	86.46	86.20	70 - 140
Far Lith Background	90.57	88.79	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.693	1.688	-0.005	+/- 0.015
Pe	2.557	2.590	0.033	+/- 0.150
ALUMINUM				
Density (g/cc)	2.605	2.602	-0.003	+/- 0.01500
Pe	3.053	3.095	0.042	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0001	+/- 0.0110	-0.0016	+/- 0.0140
Magnesium Block	0.0002	+/- 0.0110	0.0018	+/- 0.0140
Aluminum Block	0.0013	+/- 0.0110	0.0006	+/- 0.0140
Resolution	9.18	6.00 - 11.50	9.03	6.00 - 11.50
Internal Verifier(B+D+P+L)	1572	1200 - 2700	949	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

Tool Name: SDLT - 10950493		Reference Calibration Date: 23-Dec-10 11:23:17	
Engineer: M. LECUREUX		Calibration Date: 24-Jan-11 16:24:00	
Software Version: WL INSITE R3.2.3 (Build 5)		Calibration Version: 1	

Pad Temperature: 60.9 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1571.975	1561.388	-10.587	15.952
Far (B+D+P+L) cps	948.859	946.404	-2.455	16.617
Near Resolution	9.18	9.14	-0.040	0.50
Far Resolution	9.03	9.18	0.150	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name: SDLT - 10950493		Reference Calibration Date: 23-Nov-10 14:03:25	
Engineer: J. MELANCON		Calibration Date: 23-Dec-10 13:09:36	
Software Version: WL INSITE R3.0.6 (Build 4)		Calibration Version: 1	

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1783.58	-1466.63	-7000.00 - -1000.00
Pad Gain	0.0003780	0.0003773	0.000200 - 0.000600
Arm Offset	-3805.26	-2698.69	-5000.00 - 3000.00
Arm Gain	0.0005781	0.0004219	0.000300 - 0.000700
Arm Power	-0.000006541	0.000005621	-0.000010 - 0.000010

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)	1.88	2.00	0.12	+/- 0.20
Medium Ring (in)	3.64	3.75	0.11	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.33	6.50	0.17	+/- 0.20
Medium Ring (in)	8.39	8.25	-0.14	+/- 0.20
Large Ring (in)	14.92	15.00	0.08	+/- 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 - 10950493		Reference Calibration Date: 23-Dec-10 13:09:36	
Engineer: M. LECUREUX		Calibration Date: 24-Jan-11 16:33:32	
Software Version: WL INSITE R3.2.3 (Build 5)		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		8.31		0.06		+/- 0.15
PASS/FAIL SUMMARY									
Pad Extension Check:							Passed		
Diameter Check:							Passed		

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		ACRt - I777S201				Reference Calibration Date:		15-Sep-10 14:58:24	
Engineer:		J. MELANCON				Calibration Date:		15-Sep-10 15:07:18	
Software Version:		WL INSITE R3.0.6 (Build 4)				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	1.0109	1.05	0.95	1.0149	1.05	0.95	1.0204	1.05
A2 (50")	0.95	1.0156	1.05	0.95	1.0196	1.05	0.95	1.0262	1.05
A3 (29")	0.95	1.0108	1.05	0.95	1.0146	1.05	0.95	1.0194	1.05
A4 (17")	0.95	1.0063	1.05	0.95	1.0086	1.05	0.95	1.0155	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9945	1.05	0.95	1.0007	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9895	1.05	0.95	0.9951	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	-0.855	2	-6	-4.136	-2	-8	-4.714	-2
A2 (50")	-7	-2.497	-1	-6	-3.925	-2	-7	-4.081	-2
A3 (29")	-27	-13.058	-9	-9	-3.916	-3	-7	-2.497	-1
A4 (17")	-180	-98.371	-60	-45	-32.262	-15	-39	-26.604	-13
A5 (10")	N/A	N/A	N/A	-150	-87.638	-50	-80	-41.542	-10
A6 (6")	N/A	N/A	N/A	175	331.236	525	90	166.752	270

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower		R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K		0.6	0.9915	1.3	Mud Cell	0.95	1.005	1.05
36K		1.0	1.3204	2.0				
72K		1.0	1.4953	2.0				

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11016184						
Gamma Ray Calibrator	244.2	251.2	-----	-7.0	+/- 9.00	api
DSNT-11013116						
Snow-Block Porosity	0.0593	0.0691	-----	-0.0098	+/- 0.0150	decp
SDLT-10950493						
Near(B+D+P+L)	1571.975	1561.388	-----	10.587	+/-15.952	cps
Far(B+D+P+L)	948.859	946.404	-----	2.455	+/-16.617	cps
Pad Extension	3.75	3.71	-----	0.04	+/-0.10	in
Ring Diameter	8.25	8.31	-----	-0.060	+/-0.15	in

Mud Cell	1.005	-----	-----	0.000	-----	ohm-m
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Data: K_C_11_416D_995\0001 LOGIQ_TRIPLEVDLE

Date: 25-Jan-11 21:09:16

HALLIBURTON

CUSTOMER EVENT LOG

Event Type	Time & Date	Depth (ft)	Event Description
	25-Jan-11 19:21:56	2300.25	Logging 001 25-Jan-11 19:21 Up @2300.3f
	25-Jan-11 19:29:30	1897.02	Halting 001 25-Jan-11 19:21 Up @2300.3f
	25-Jan-11 19:29:47	1822.50	Logging 002 25-Jan-11 19:29 Dn @1822.5f
	25-Jan-11 20:08:55	7228.94	Halting 002 25-Jan-11 19:29 Dn @1822.5f
	25-Jan-11 20:09:16	7237.00	Logging 003 25-Jan-11 20:09 Up @7237.0f
	25-Jan-11 20:17:15	6806.31	Halting 003 25-Jan-11 20:09 Up @7237.0f
	25-Jan-11 20:21:01	7237.00	Logging 004 25-Jan-11 20:21 Up @7237.0f

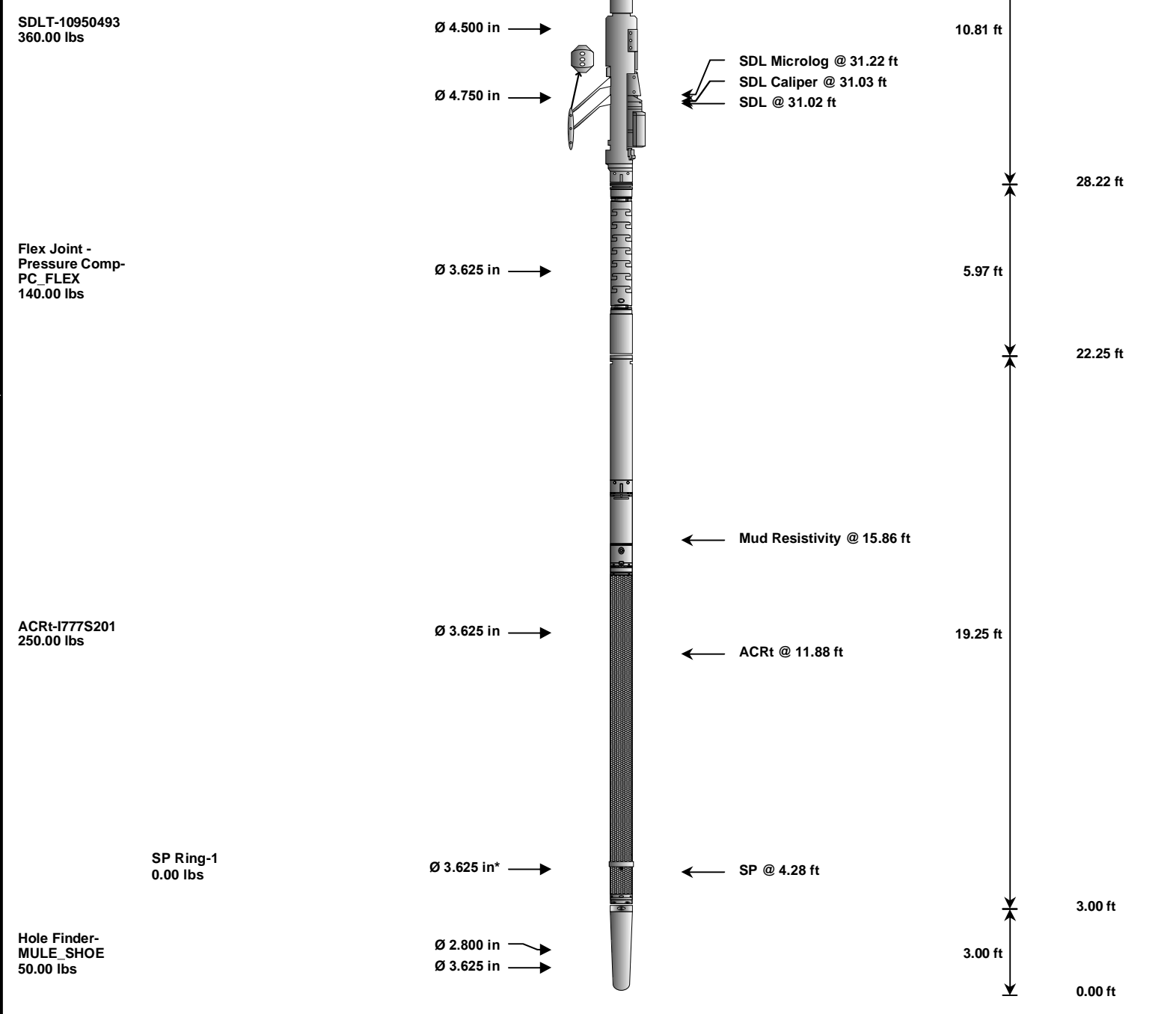
Data: K_C_11_416D_995\0001 LOGIQ_TRIPLE\HW11174

Date: 25-Jan-11 21:09:36

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-C089 135.00 lbs		Ø 3.625 in →		← Load Cell @ 59.81 ft ← BH Temperature @ 59.24 ft	6.25 ft	63.49 ft
GTET-11016184 165.00 lbs		Ø 3.625 in →		← GammaRay @ 51.18 ft	8.52 ft	57.24 ft
DSNT-11013116 174.00 lbs		Ø 3.625 in →		← DSN Far @ 41.78 ft ← DSN Near @ 41.03 ft	9.69 ft	48.72 ft
						39.03 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	C089	135.00	6.25	57.24	300.00
GTET	Gamma Telemetry Tool	11016184	165.00	8.52	48.72	60.00
DSNT	Dual Spaced Neutron	11013116	174.00	9.69	39.03	60.00
SDLT	Spectral Density Tool	10950493	360.00	10.81	28.22	60.00
FLEX	Flex Joint - Pressure Compensated	PC_FLEX	140.00	5.97	22.25	300.00
ACRt	Array Compensated True Resistivity	I777S201	250.00	19.25	3.00	300.00
SP	SP Ring	1	0.00	0.25	* 4.28	300.00
HFND	Hole Finder	MULE_SHOE	50.00	3.00	0.00	300.00
Total			1,274.00	63.49		

* Not included in Total Length and Length Accumulation.

Date: 25-Jan-11 18:16:13

COMPANY	AXIA ENERGY LCC
WELL	KIMBALL CREEK #11-416D-995
FIELD	BUZZARD

COUNTY	MESA	STATE	CO
HALLIBURTON	SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY		