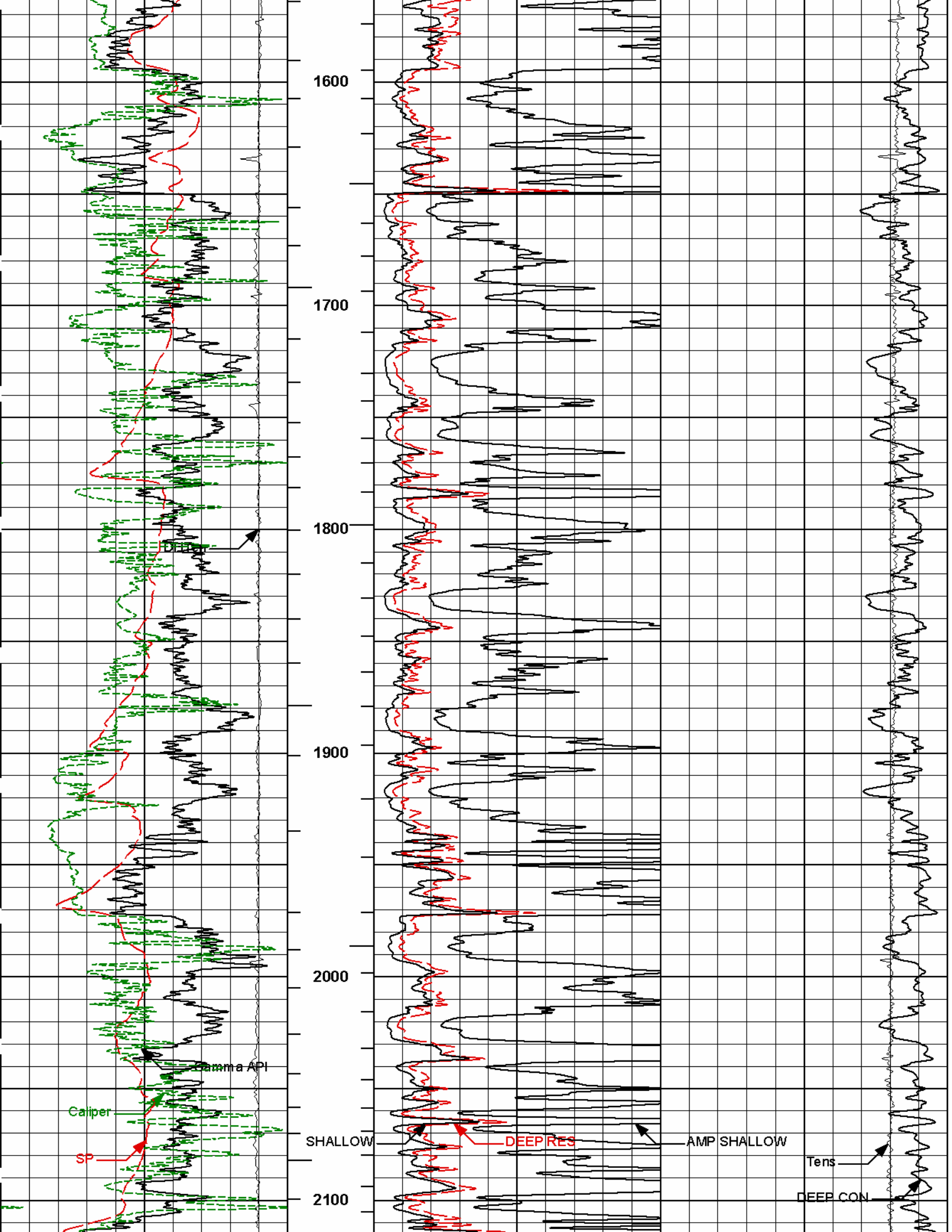


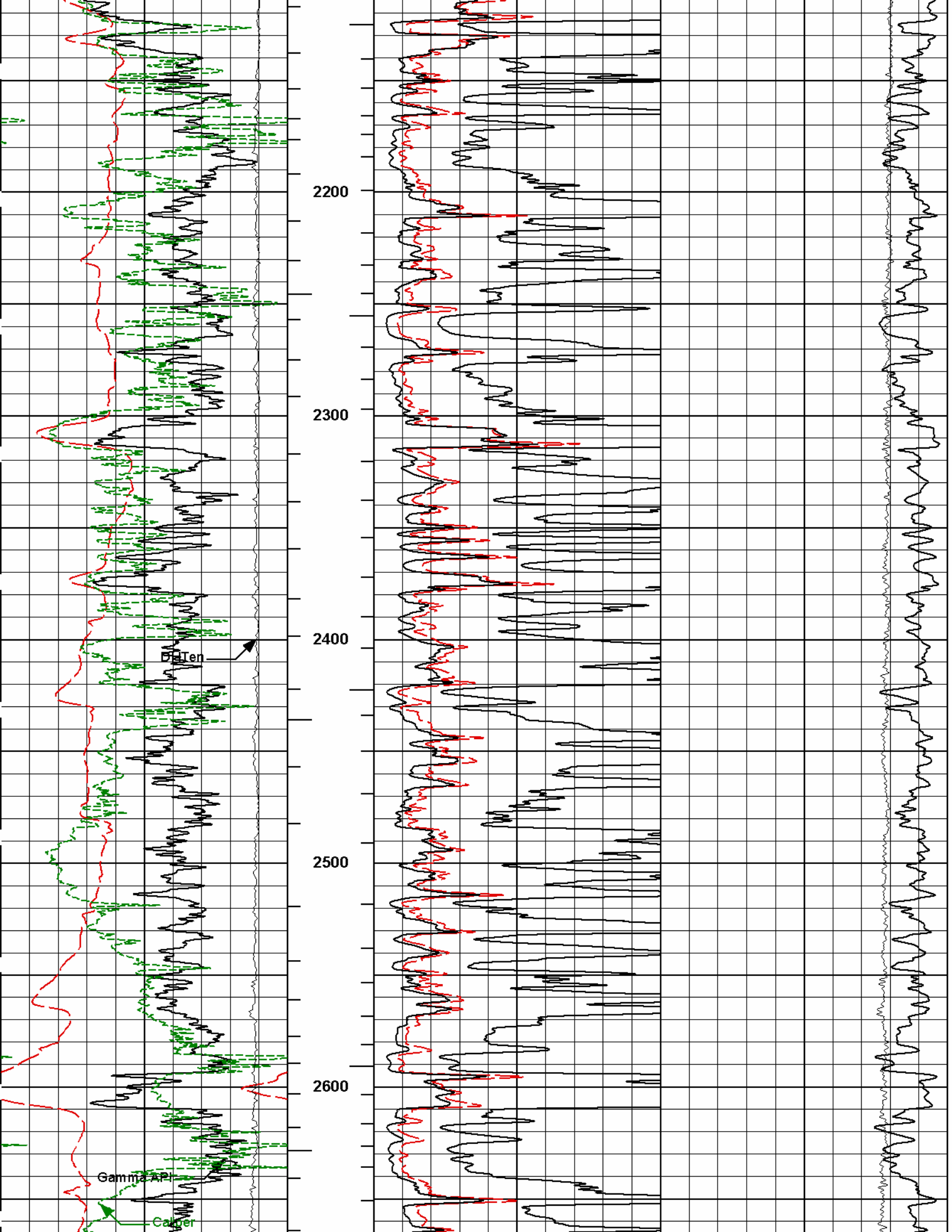
LARAMIE ENERGY				COMPANY LARAMIE ENERGY			
SOUTH LEVERICH 18 - 05D				WELL SOUTH LEVERICH 18 - 05D			
RULISON				FIELD RULISON			
GARFIELD				COUNTY GARFIELD			
COLORADO				STATE COLORADO			
COMPANY		WELL		COUNTY		STATE	
SOUTH LEVERICH 18 - 05D		RULISON		GARFIELD		COLORADO	
API No. 05045182080001		Location SURFACE HOLE LOCATION: 1414 FSL & 805 FEL		Bottom Hole Location: 2268' FNL & 706' FWL		Other Services: RWCH GAMMA DSN/SDL	
Permanent Datum		Log measured from		Drilling measured from		Elev. 8008.0 ft	
GL		KB		KB		21.0 ft above perm. Datum	
Date		Run No.		Depth - Driller		Depth - Logger	
01-Apr-09		ONE		10461.00 ft		10462.0 ft	
Bottom - Logged Interval		Top - Logged Interval		Casing - Driller		Casing - Logger	
10460.0 ft		1552.0 ft		8.625 in @ 1550.0 ft		1552.0 ft	
Bit Size		Type Fluid in Hole		Density		PH	
7.875 in		LSND		9.0 ppg		9.70 pH	
Viscosity		Fluid Loss		68.00 s/qt		6.0 cpm	
Source of Sample		Rm @ Meas. Temperature		Rmf @ Meas. Temperature		Rmc @ Meas. Temperature	
MUDTANK		1.76 ohmm @ 52.60 degF		1.61 ohmm @ 54.30 degF		1.83 ohmm @ 58.20 degF	
Source Rmf		MEAS.		MEAS.		MEAS.	
Rm @ BHT		0.52 ohmm @ 198.0 degF		15.0 hr		01-Apr-09 01:09	
Time Since Circulation		Max. Rec. Temperature		Equipment		Recorded By	
198.0 degF @ 10462.0 ft		10800786		ROCKSPRING		J. MAYNE	
GARY STAPLETON		A. HERMAN					

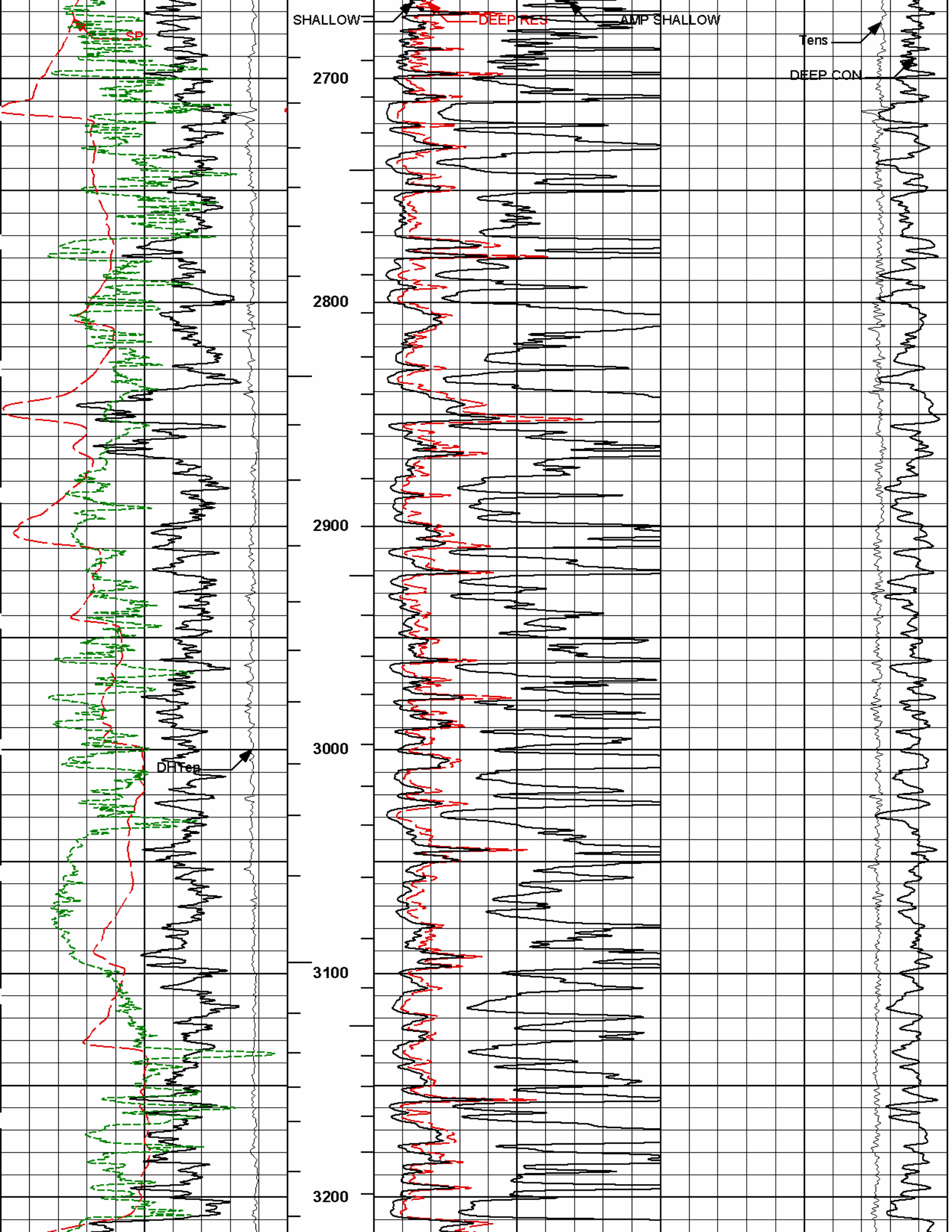
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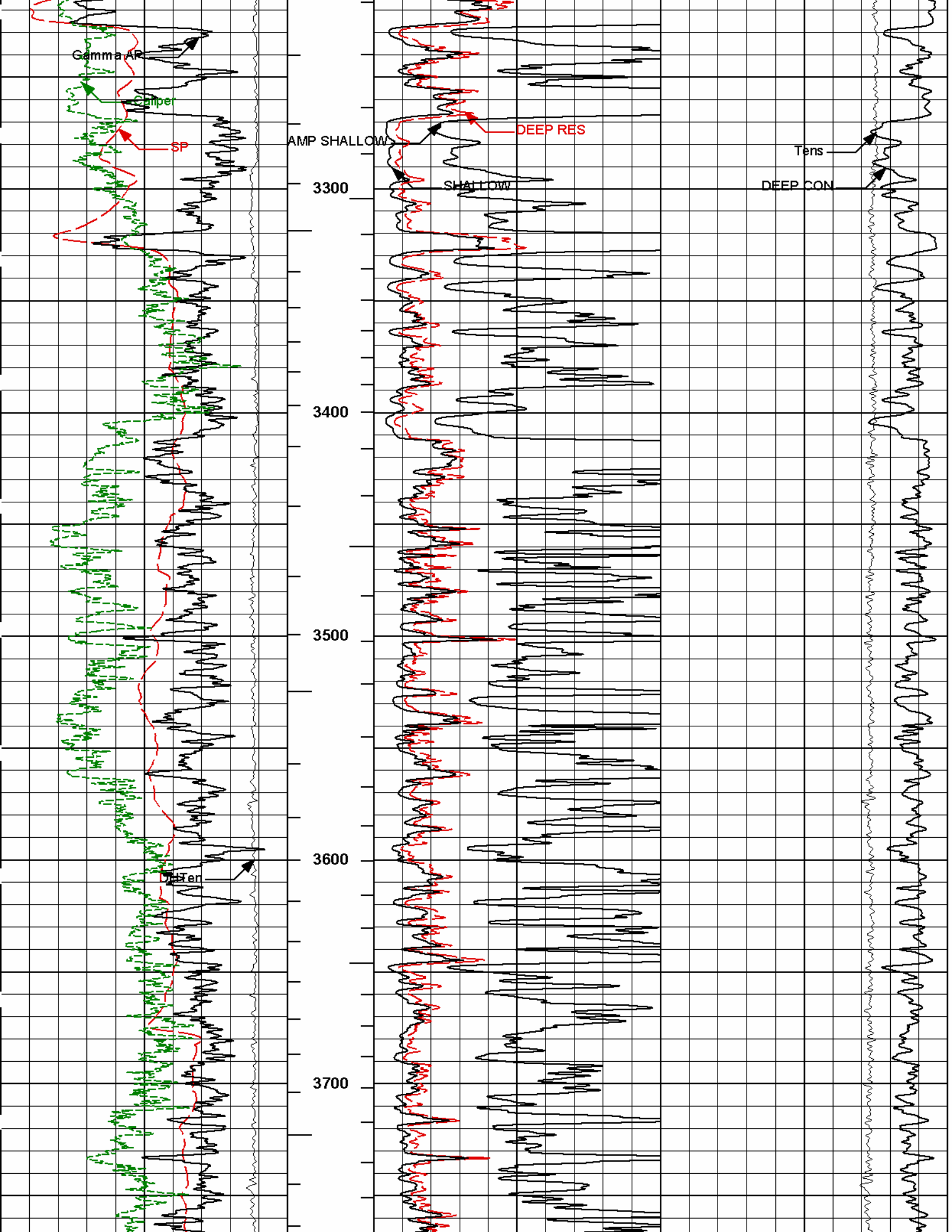
Service Ticket No.: 6563964						API Serial No.: 05045182080001						PGM Version: WL INSITE R2.4 (Build 11)															
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES															
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole							
Depth-Driller																											
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-		M/A		1.5" S.O.				N/A					
Rmc @ Meas. Temp.				@				@						E332_S570													
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.		10832795				Serial No.						Serial No.		10695353				Serial No.		10813523							
Model No.		GTET				Model No.						Model No.		SDLT				Model No.		DSN T							
Diameter		3.625"				No. of Cent.						Diam eter		4.5"				Diam eter		3.625"							
Detector Model No.		102A				Spacing						Log Type		GAM/GAM				Log Type		THERM/THERM							
Type		SCINT										Source Type		Cs137				Source Type		Am241Be							
Length		8"				LSA [Y/N]						Serial No.		20785B				Serial No.		21480B							
Distance to Source		10'				FWDA [Y/N]						Strength		1.5Ci				Strength		15Ci							

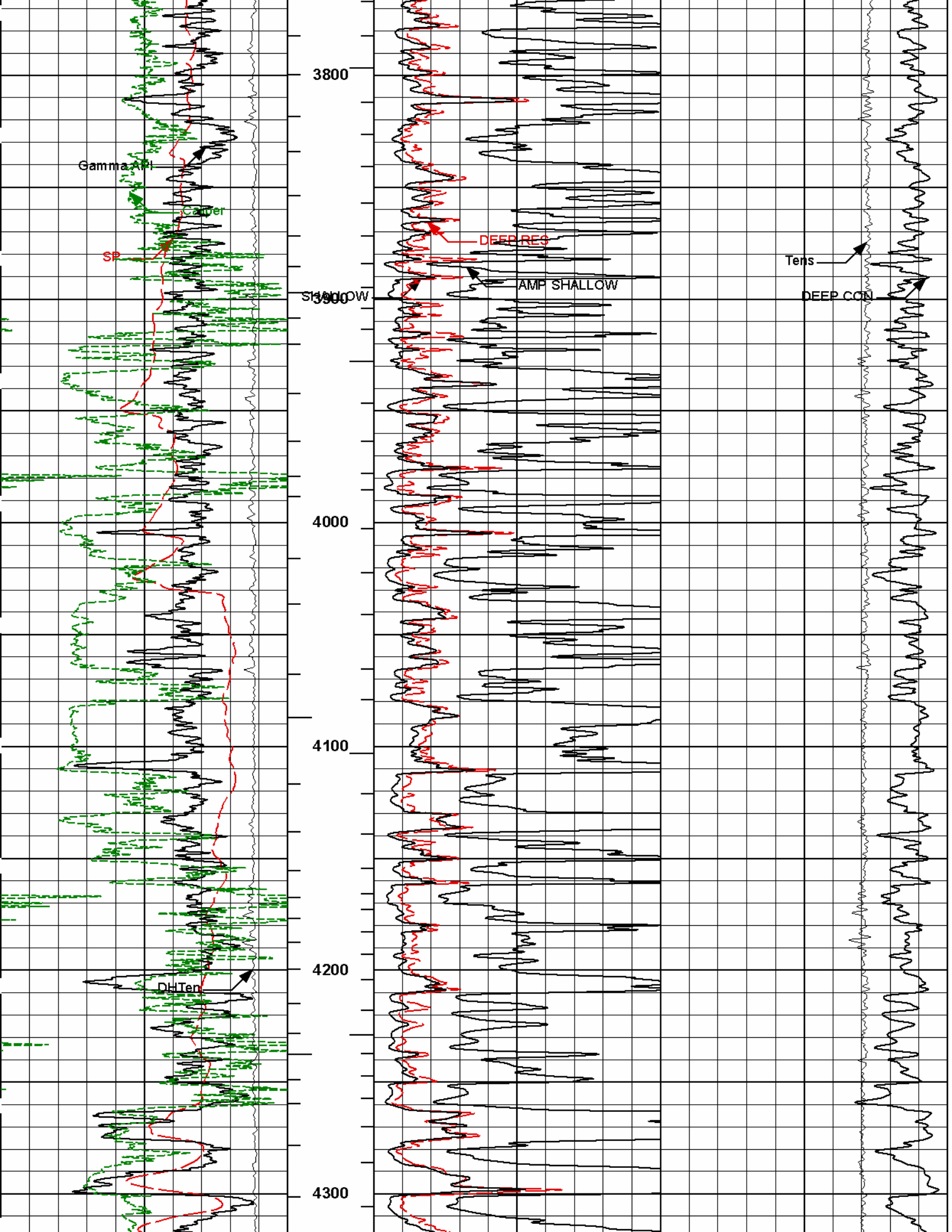
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDWT	Borehole Fluid Weight	9.000	ppg
	SHARED	RMUD	Mud Resistivity	2.000	ohm m
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	OBM	Oil Based Mud System?	No	
	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	10461.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	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	ohm m
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohm m
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in

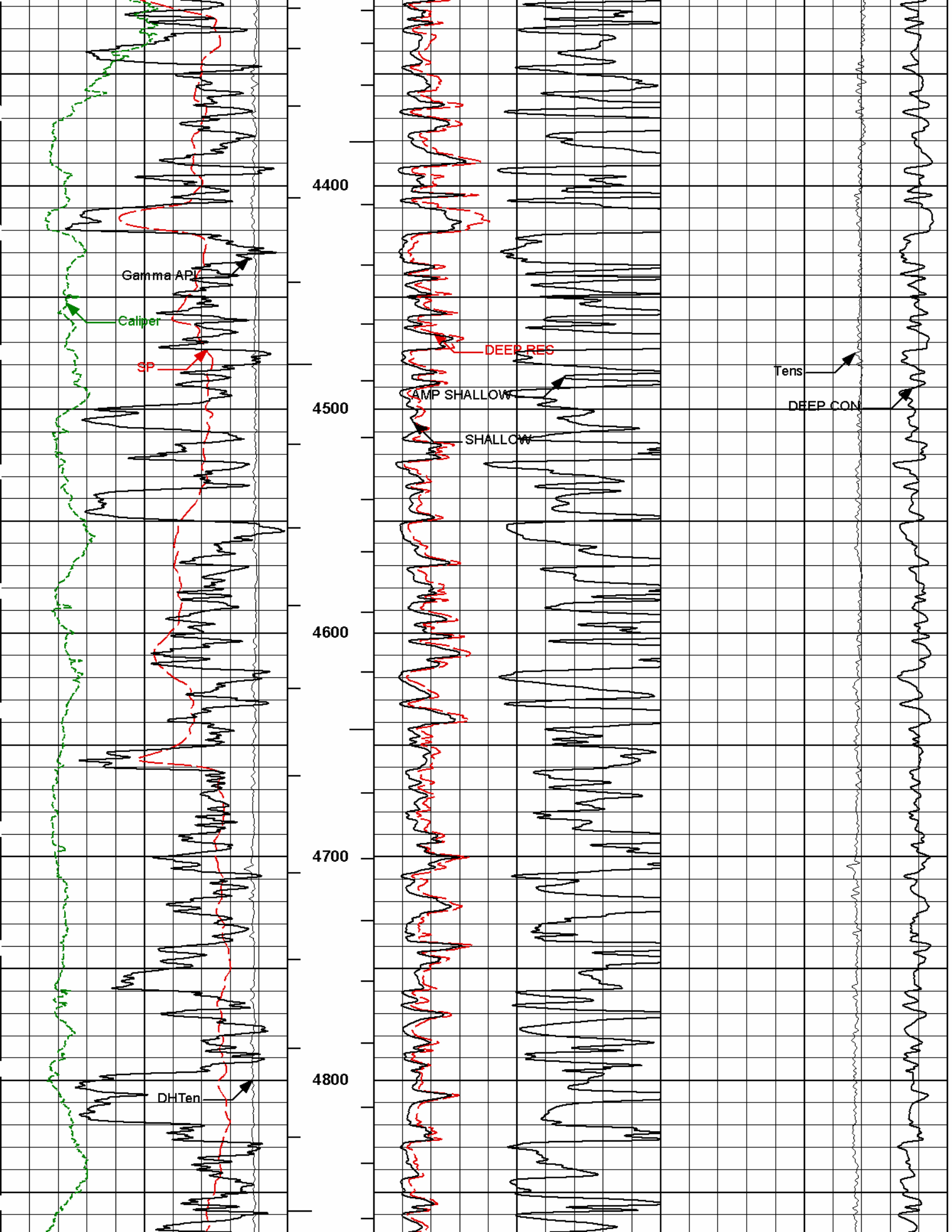


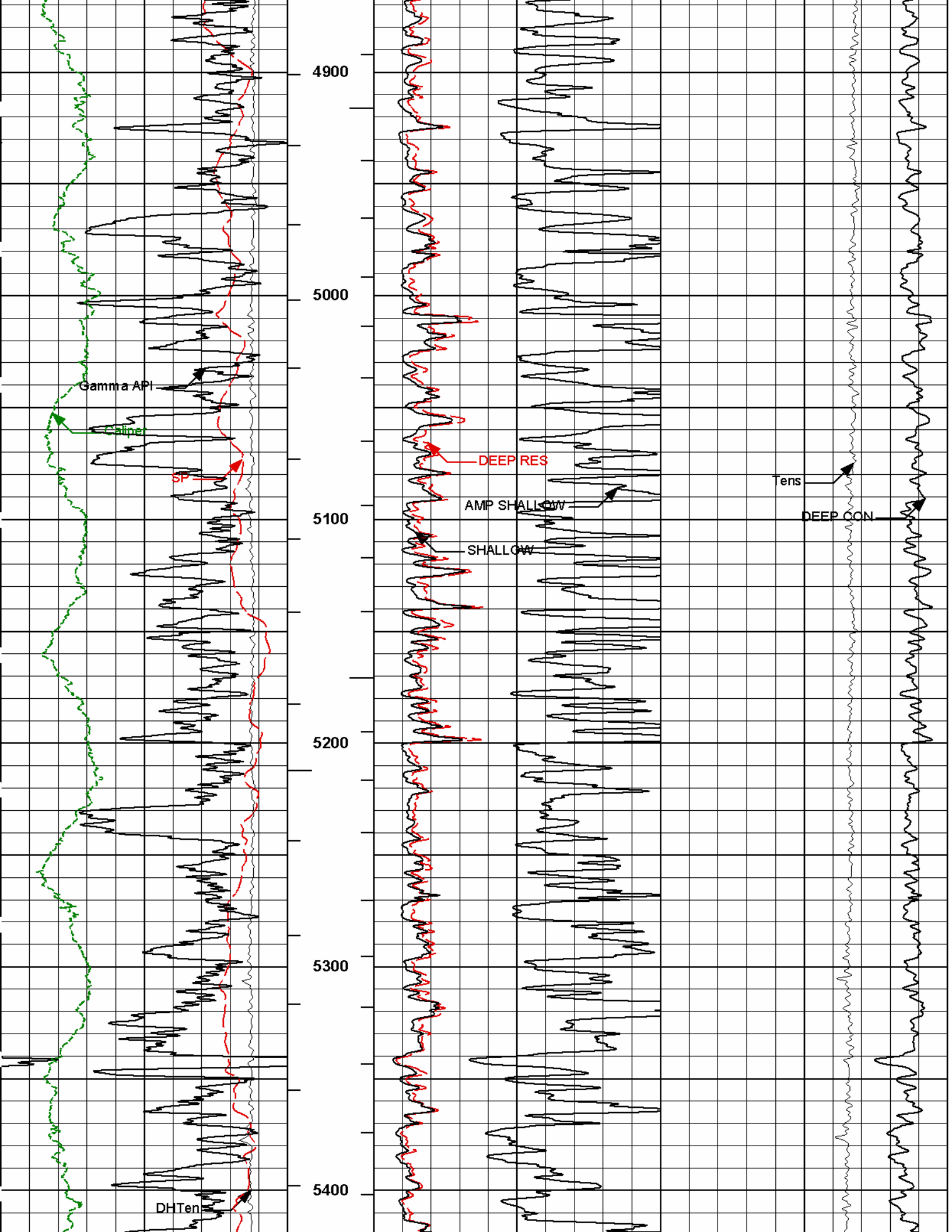


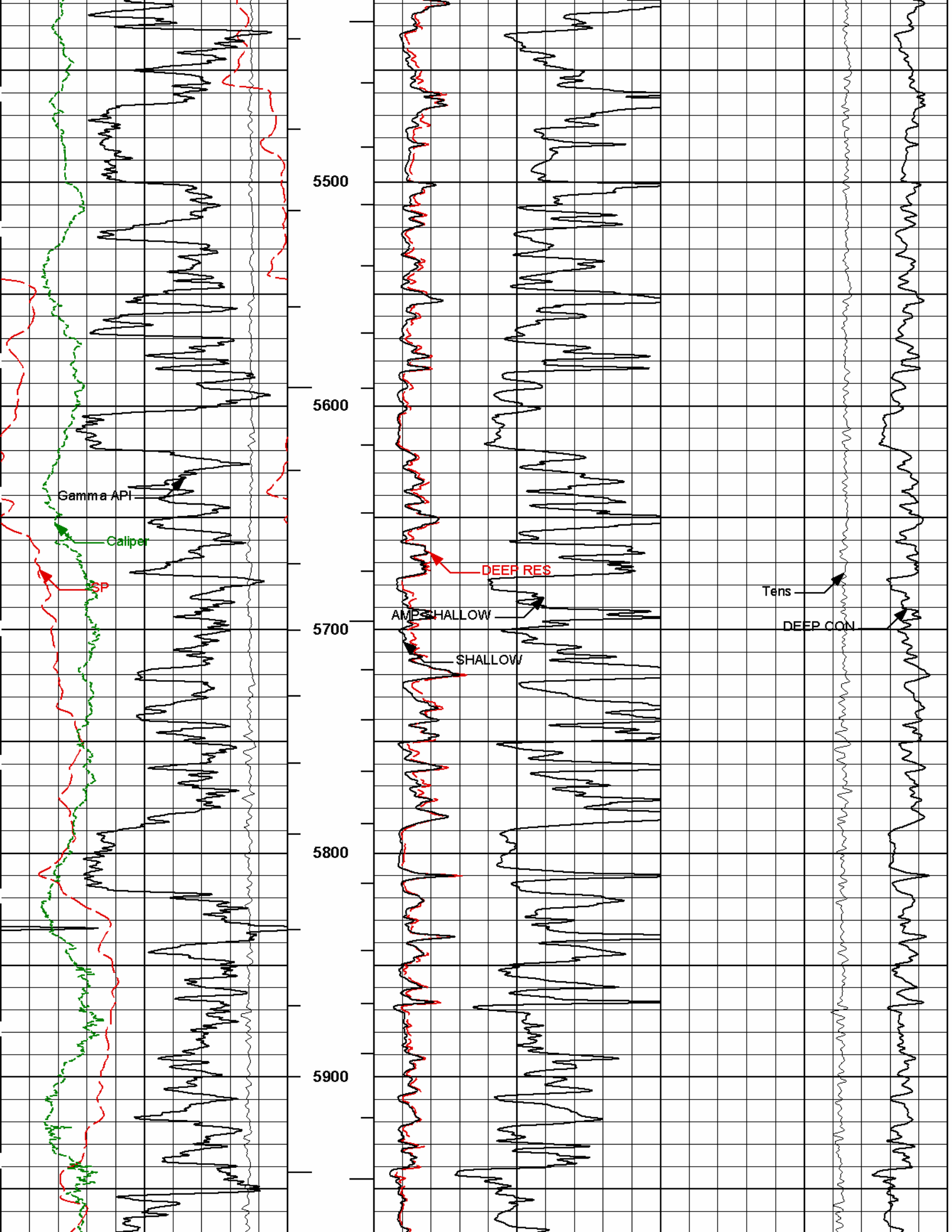


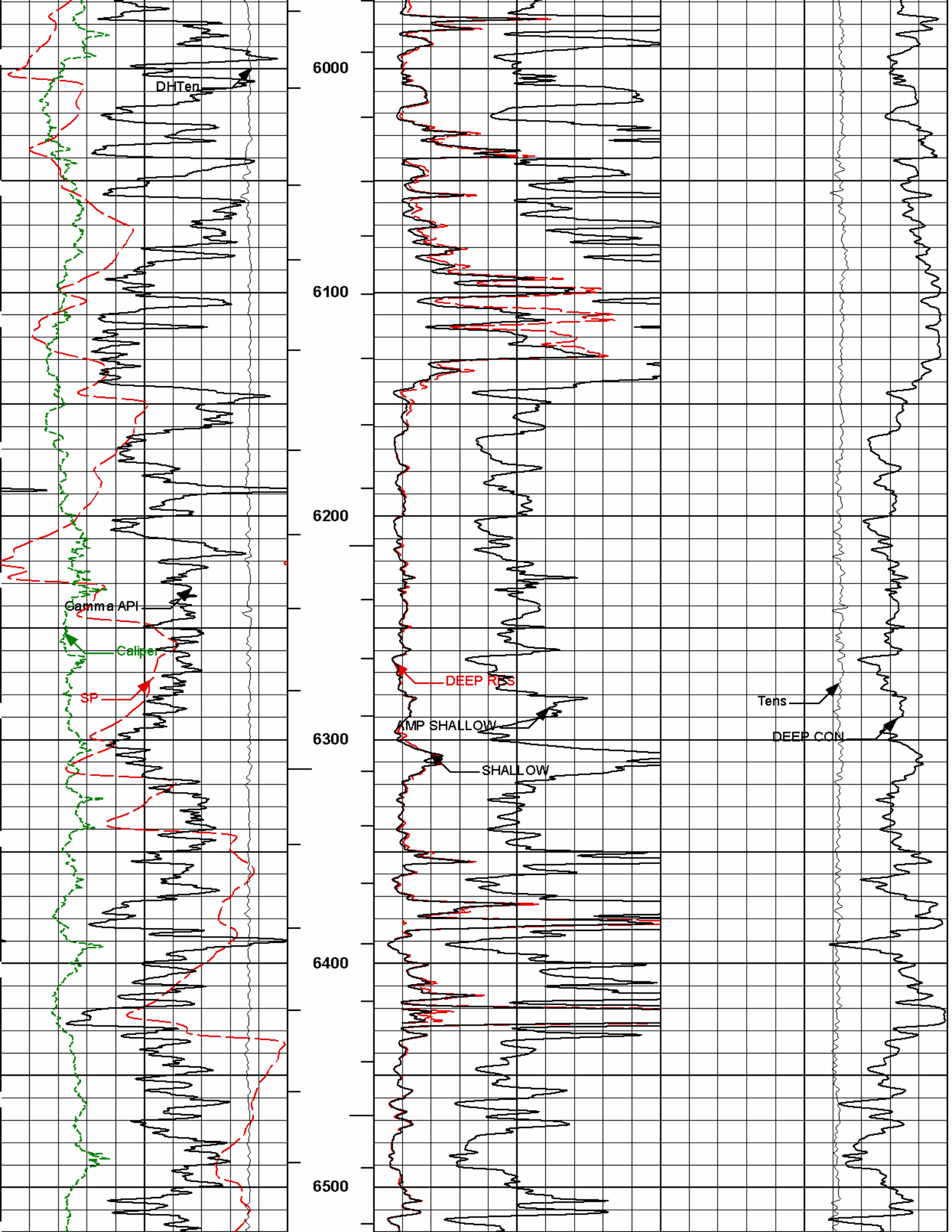


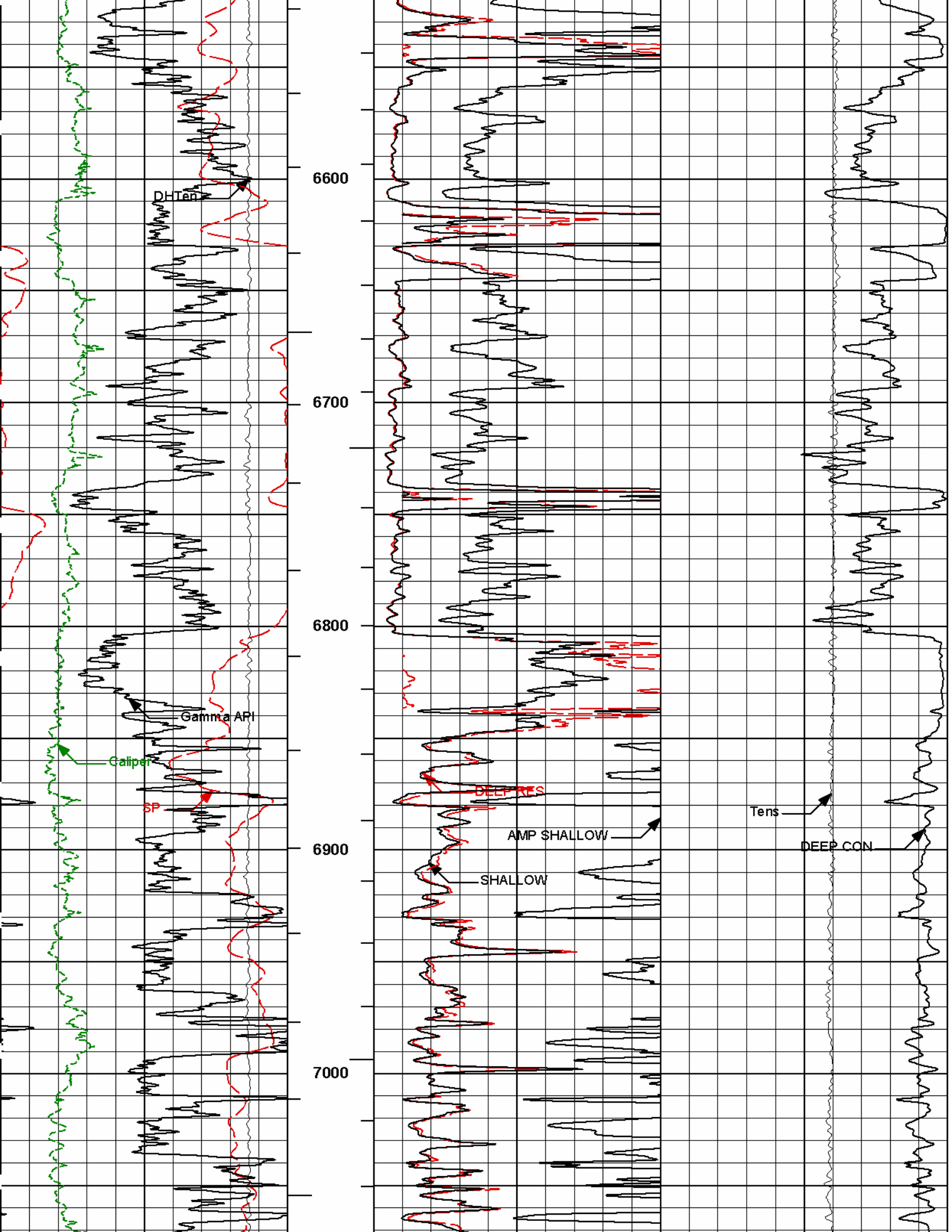


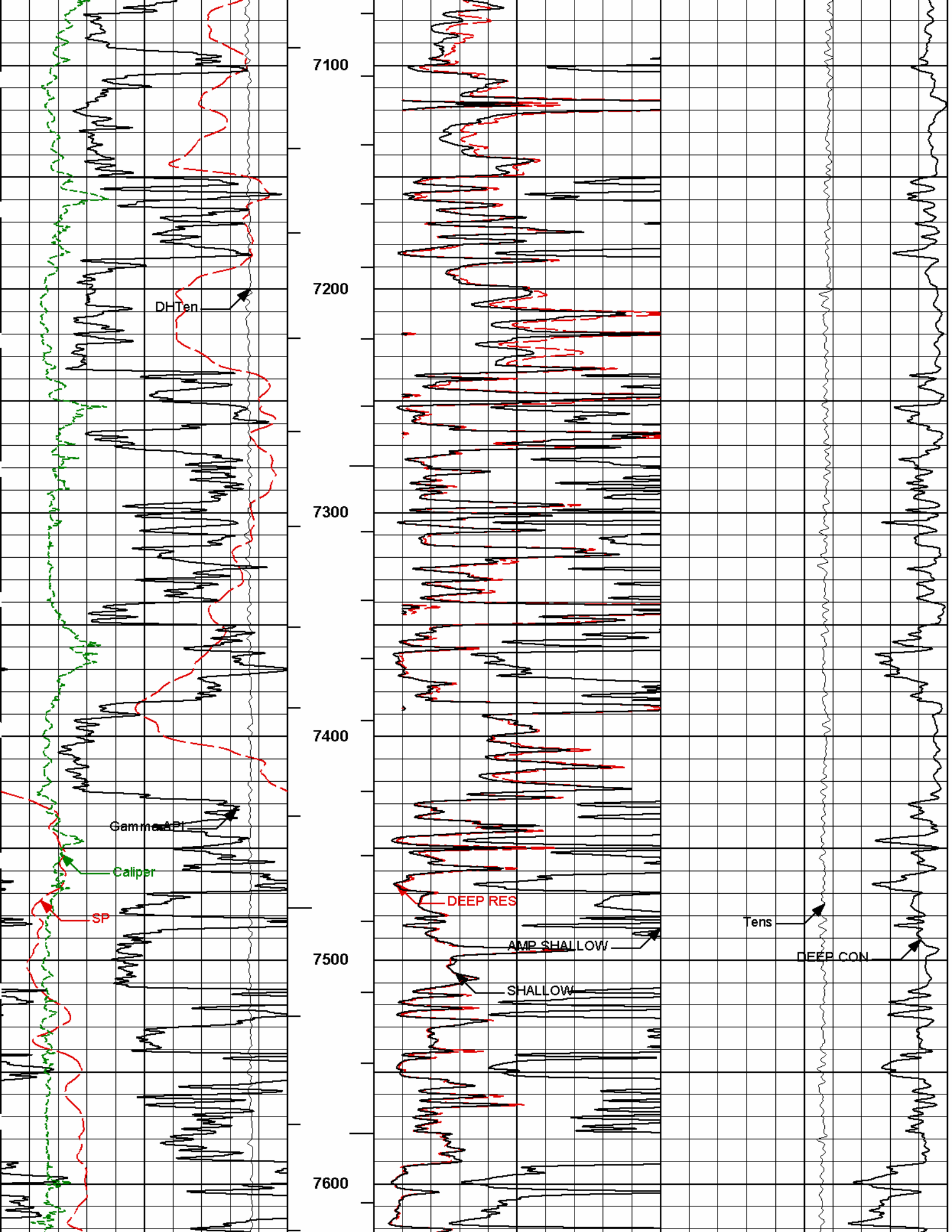


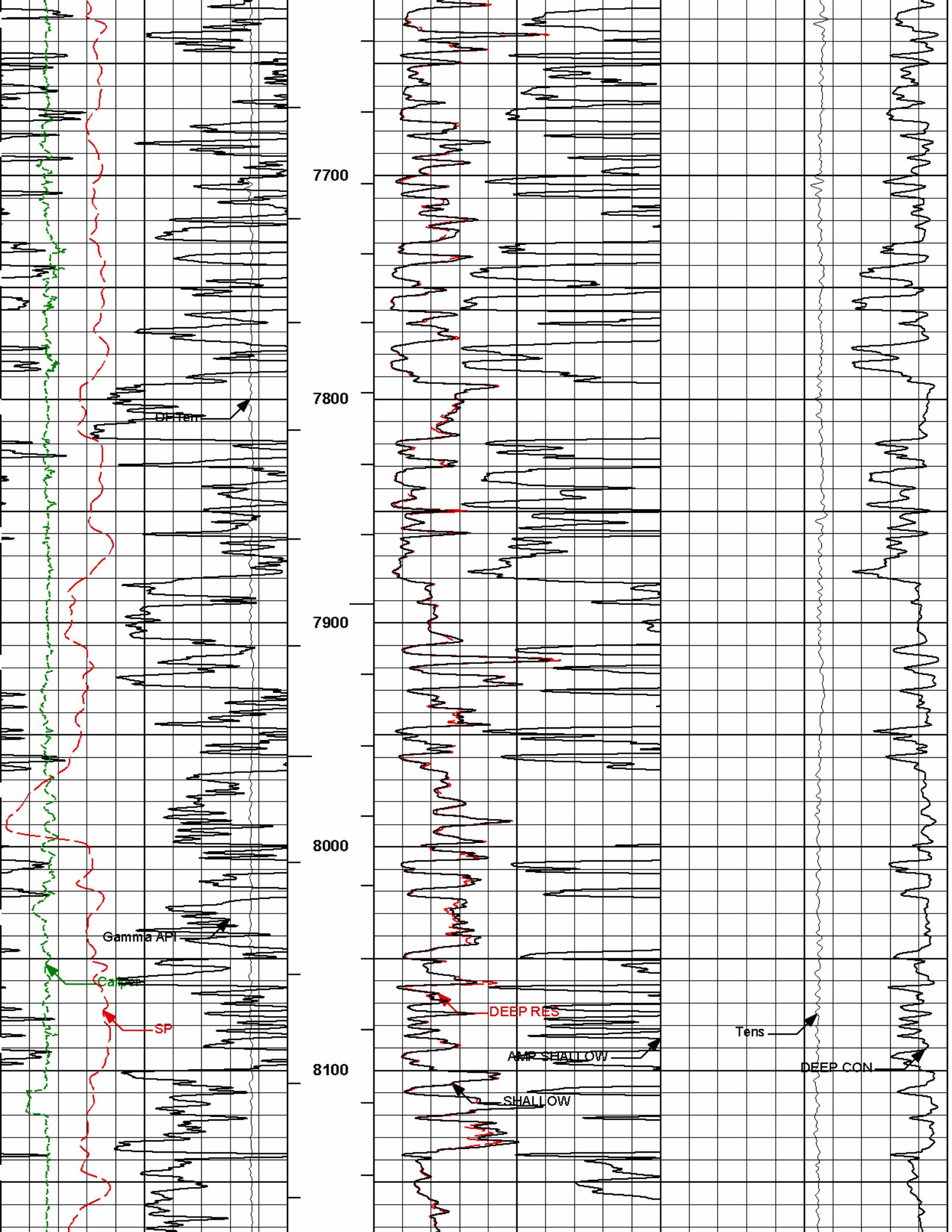


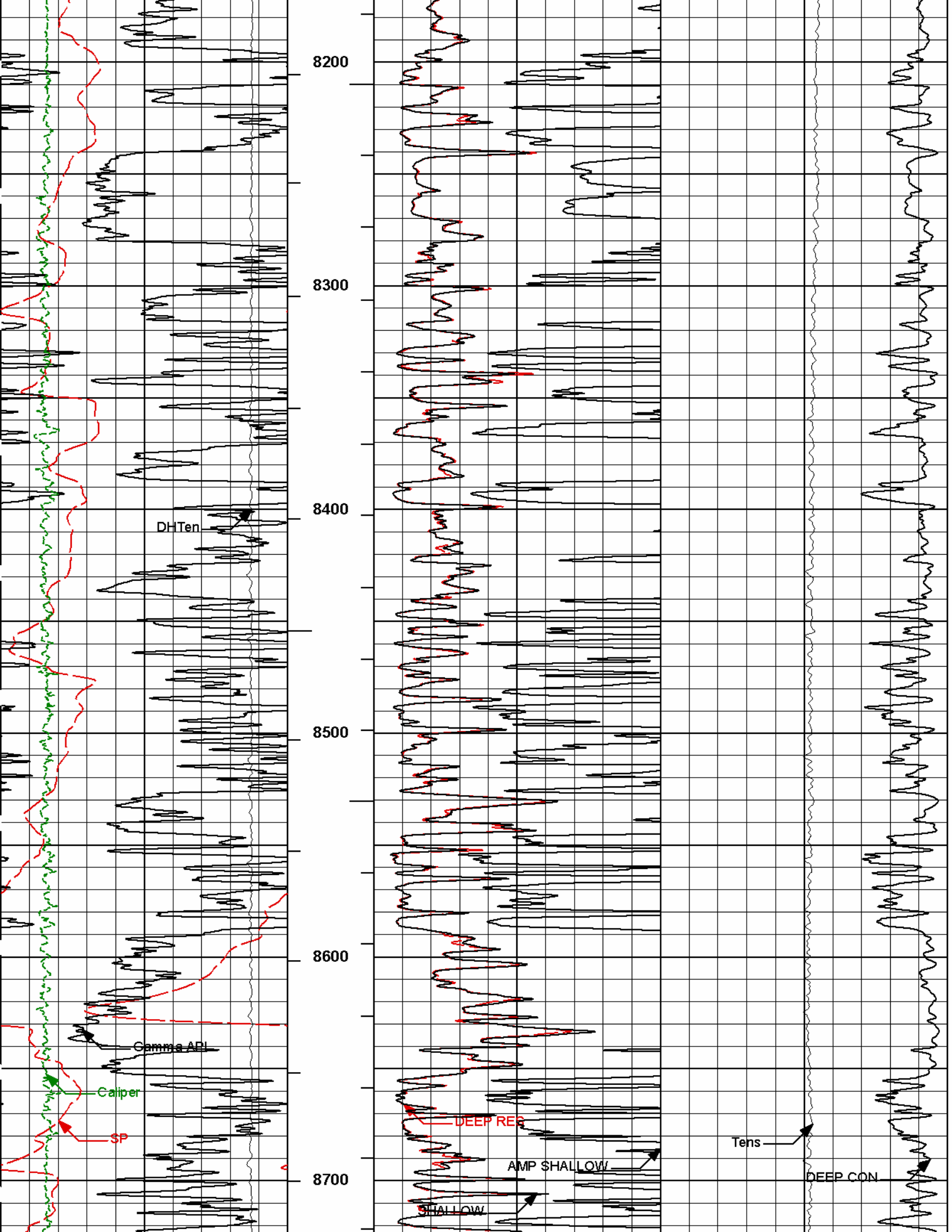


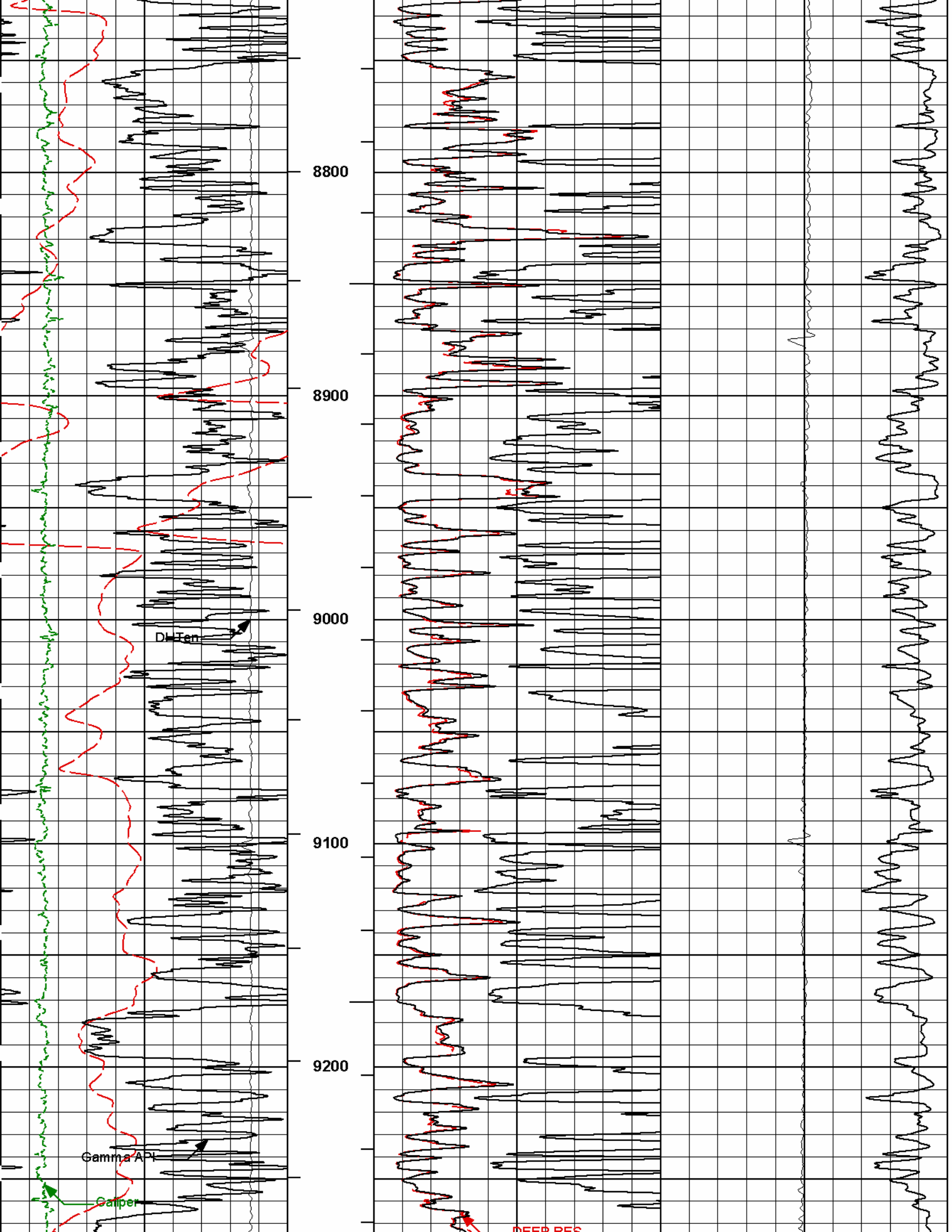


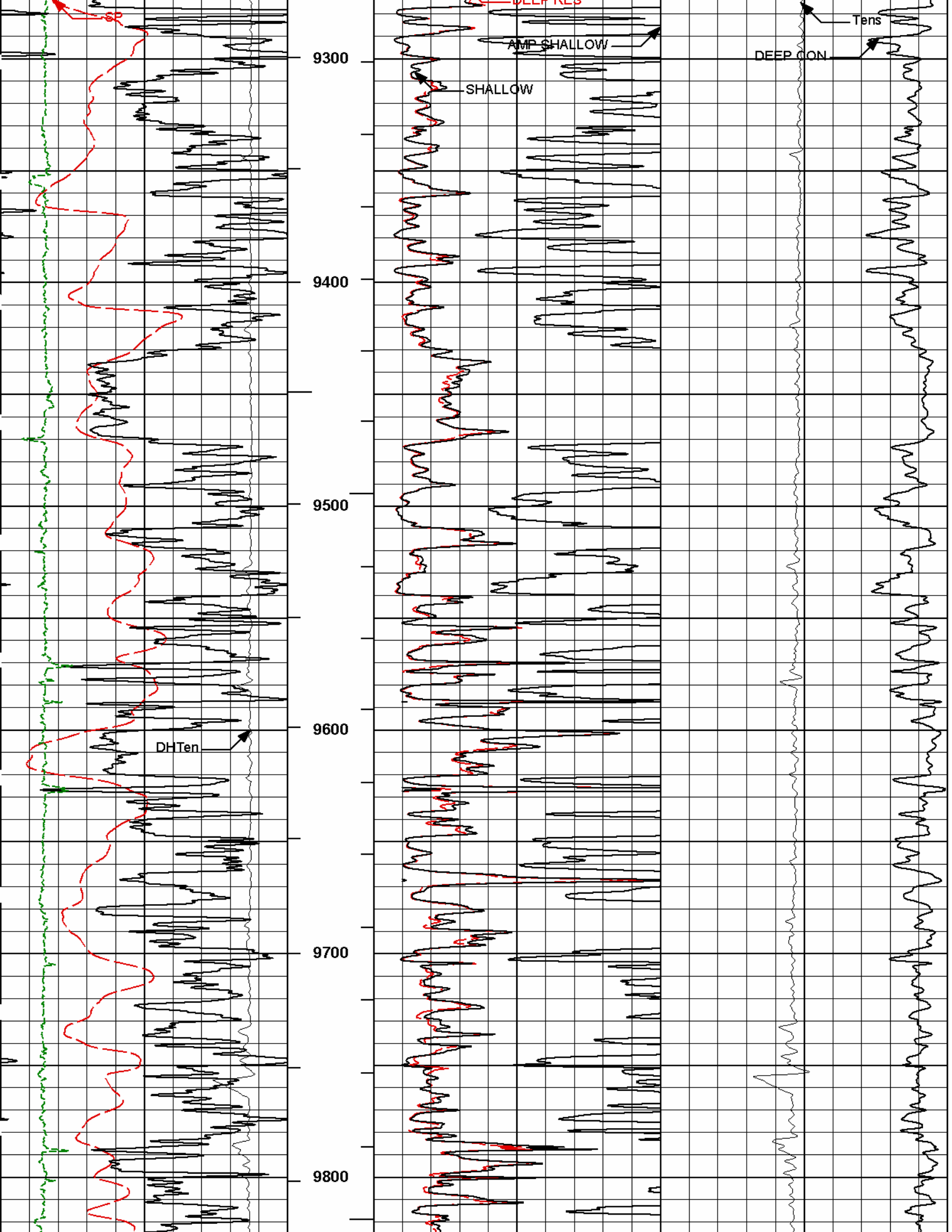


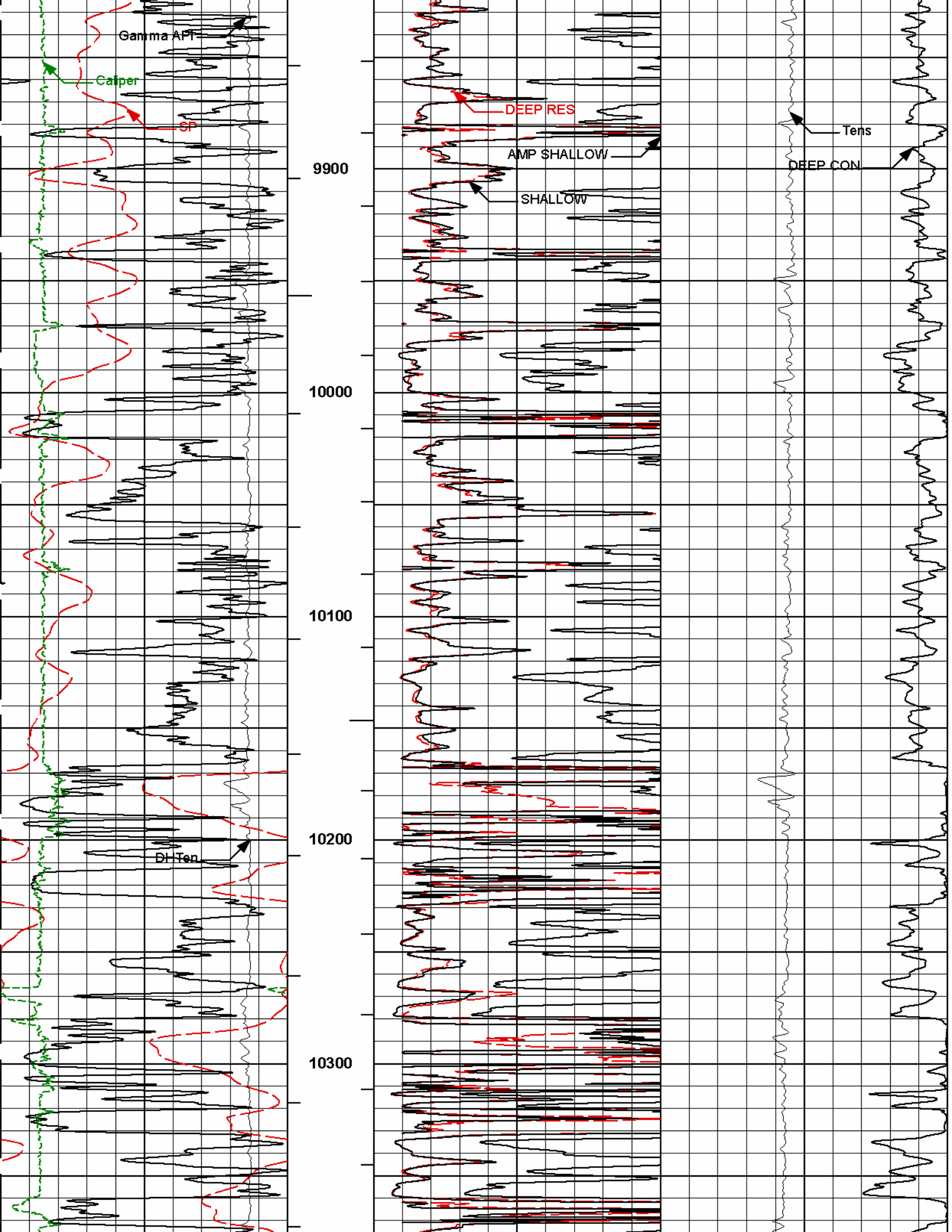


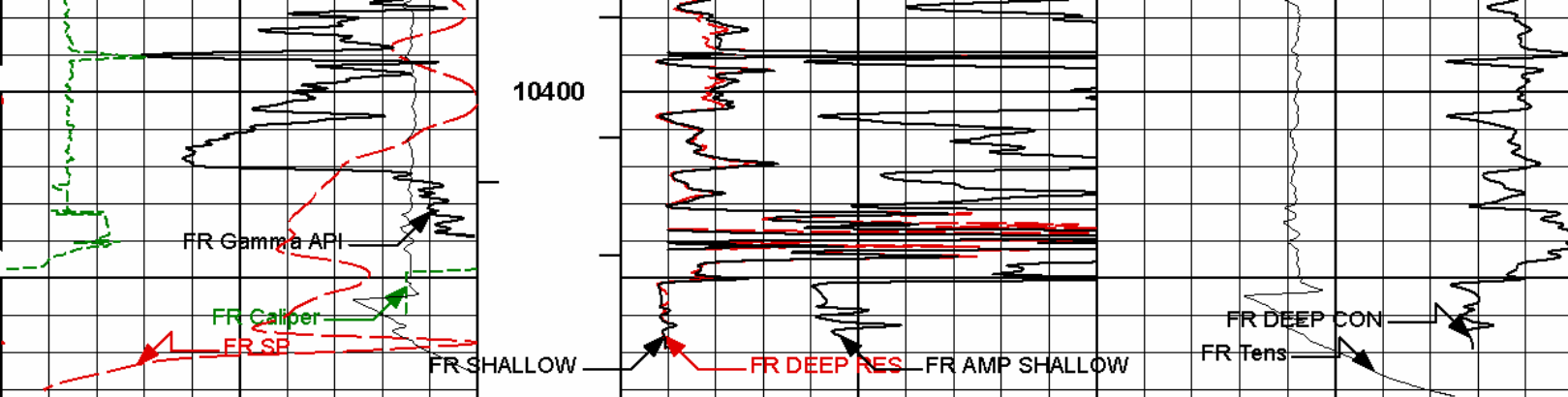












10K	DHTen	0	1 : 600	0	DEEP RES	100	10K	Tens	0
	pounds				ohm-metre			pounds	
0	SP	100	BHVT	0	SHALLOW	100	500	DEEP CON	0
	millivolts				ohm-metre			mmho per metre	
0	Gamma API	150	AHVT	0	AMP SHALLOW	20			
	api				ohm-metre				
6	Caliper	16							
	inches								

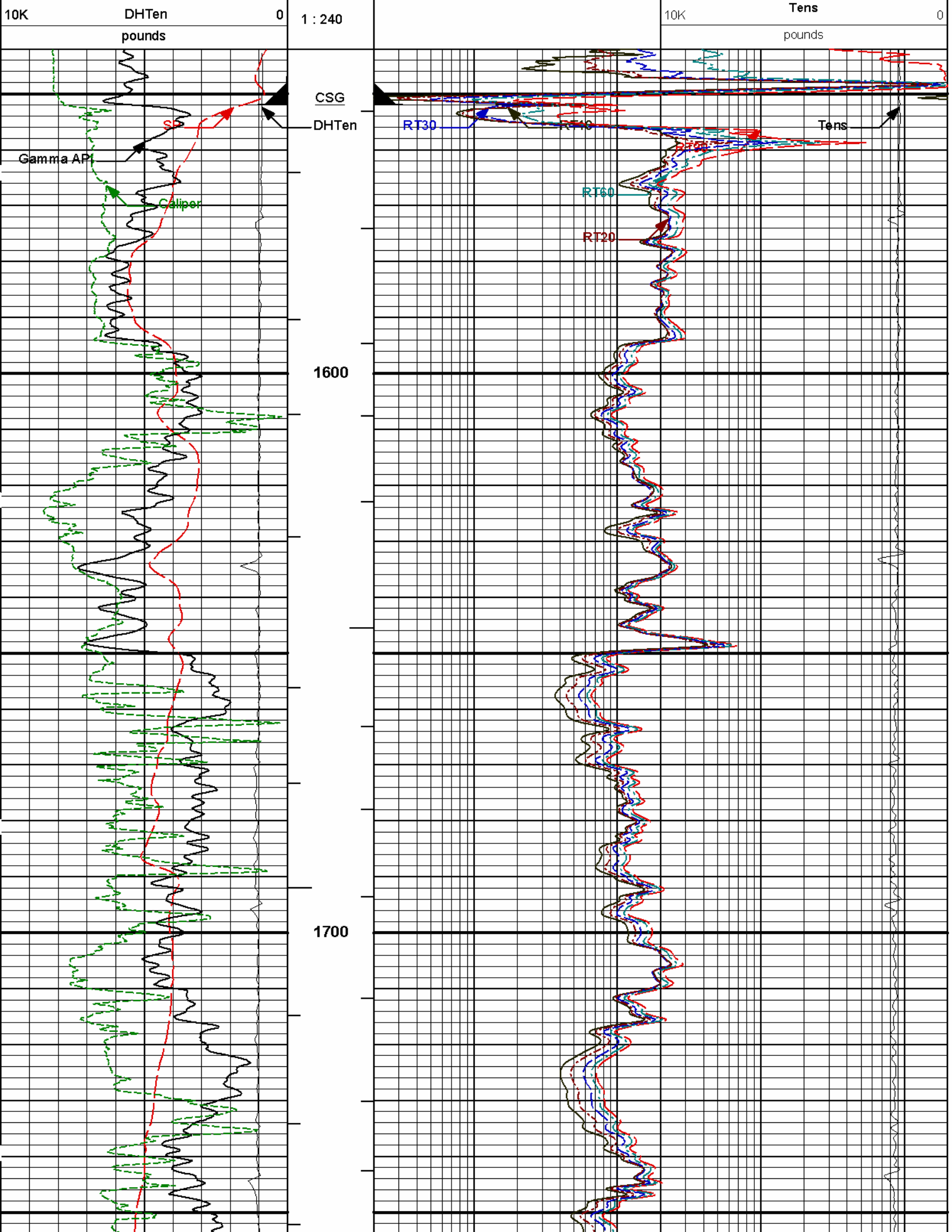
HALLIBURTON Plot Time: 01-Apr-09 05:19:45
 Plot Range: 1542 ft to 10482.7 ft
 Data: LAR_S_LE_18_05DIWell Based\DAQ-0001-0031*
 Plot File: \\ACRT\BP_2IN_ACRT

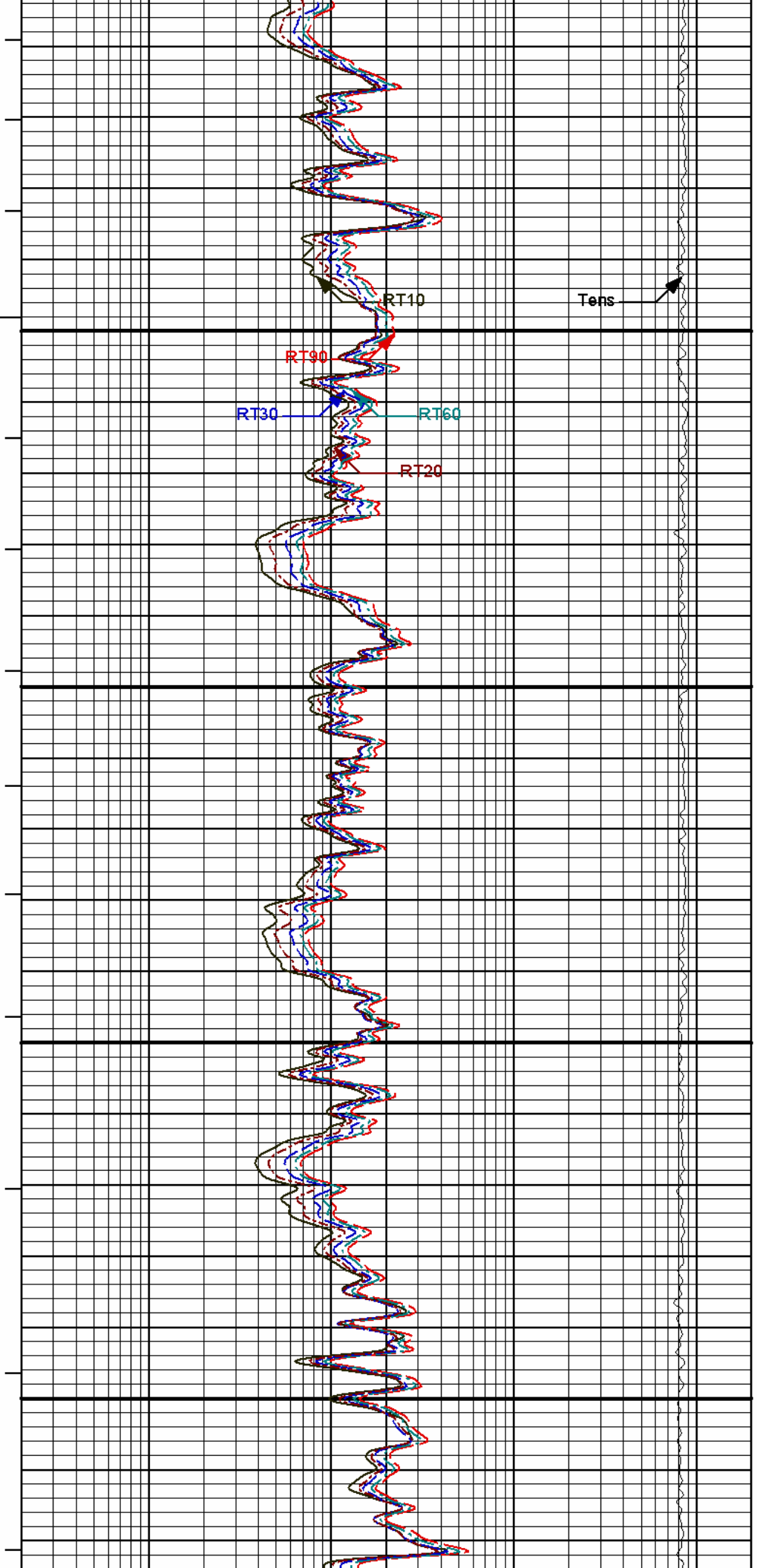
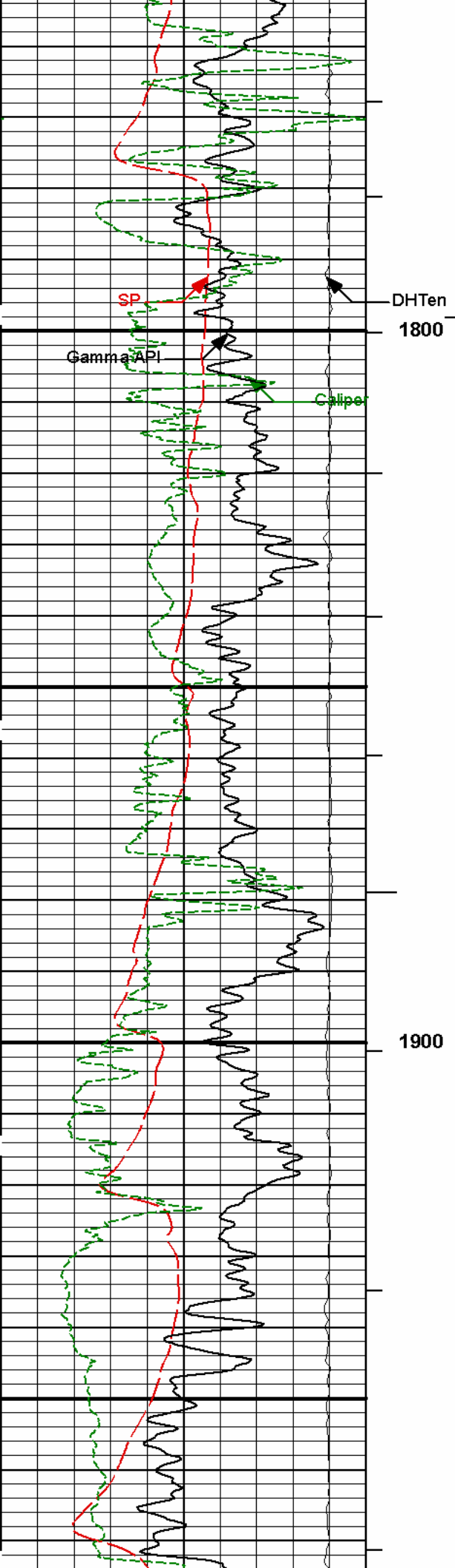
MAIN PASS 2" = 100'

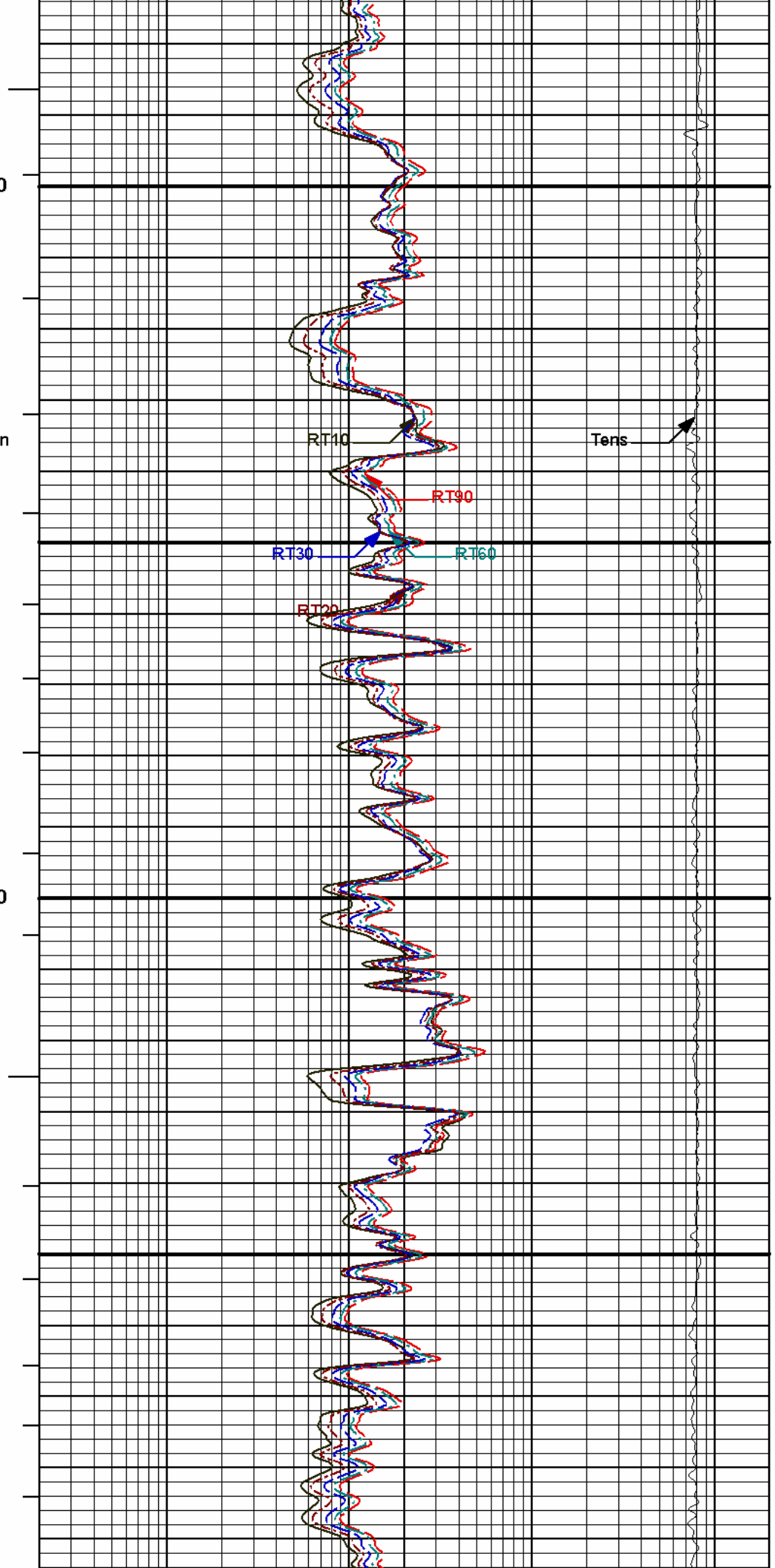
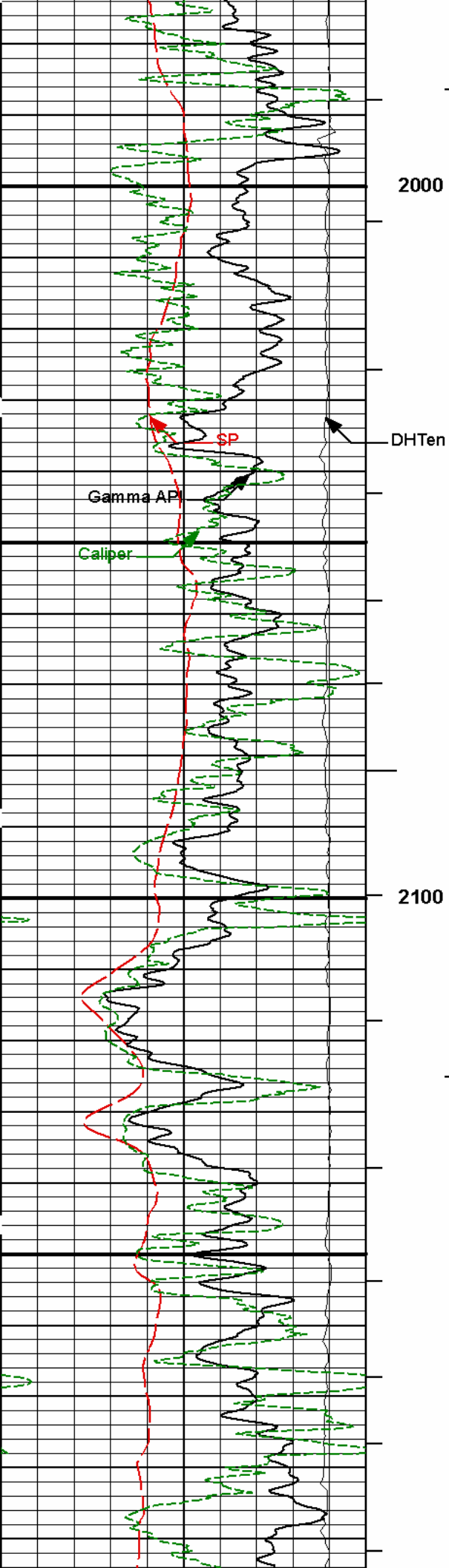
HALLIBURTON Plot Time: 01-Apr-09 05:19:46
 Plot Range: 1542 ft to 10482.7 ft
 Data: LAR_S_LE_18_05DIWell Based\DAQ-0001-0031
 Plot File: \\ACRT\BP_5IN_ACRT

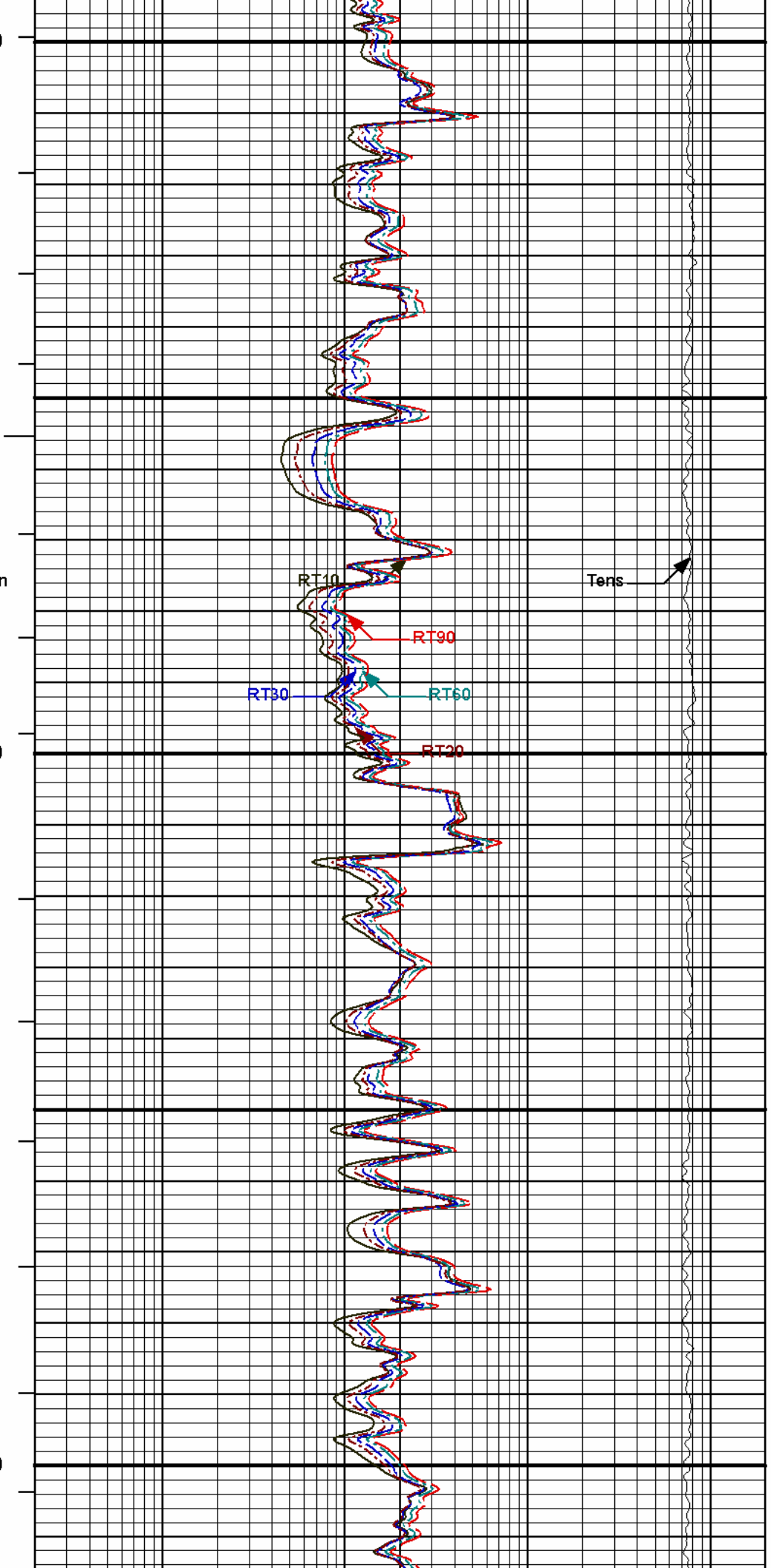
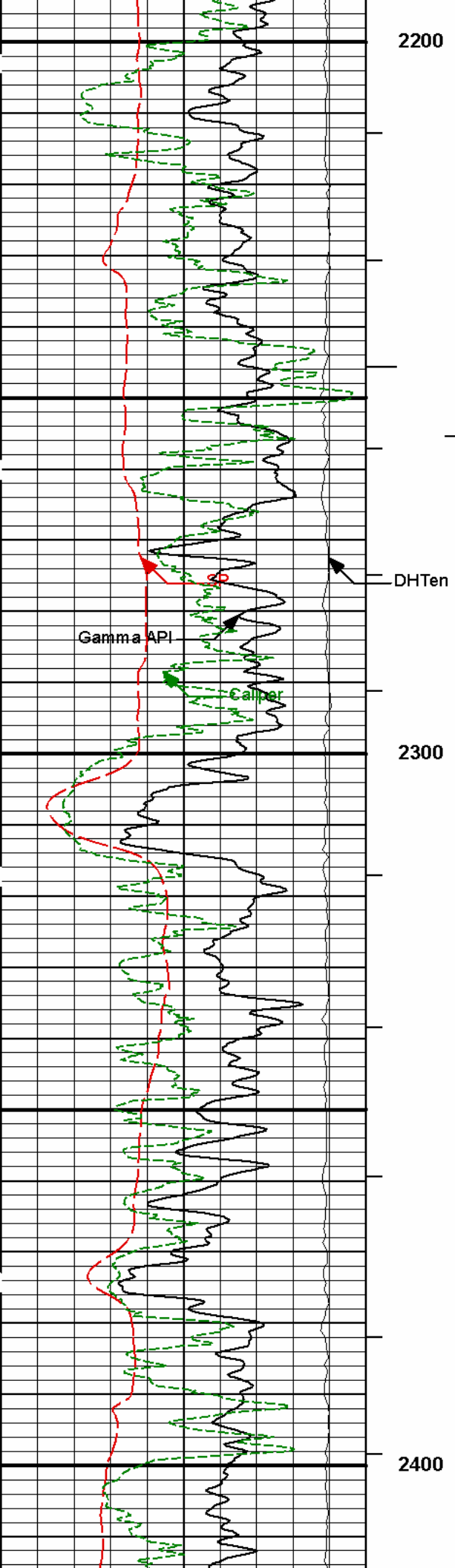
MAIN PASS 5" = 100'

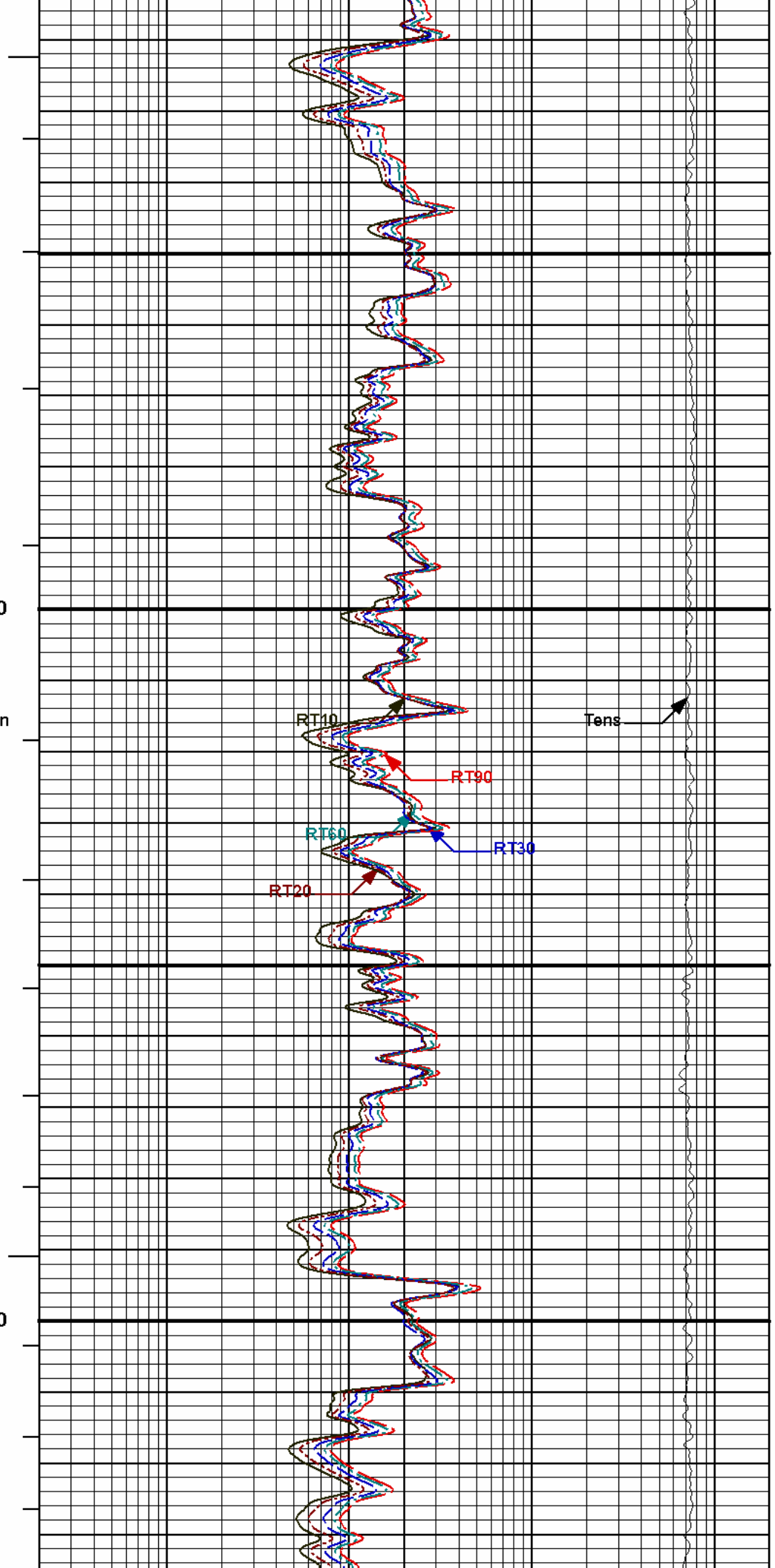
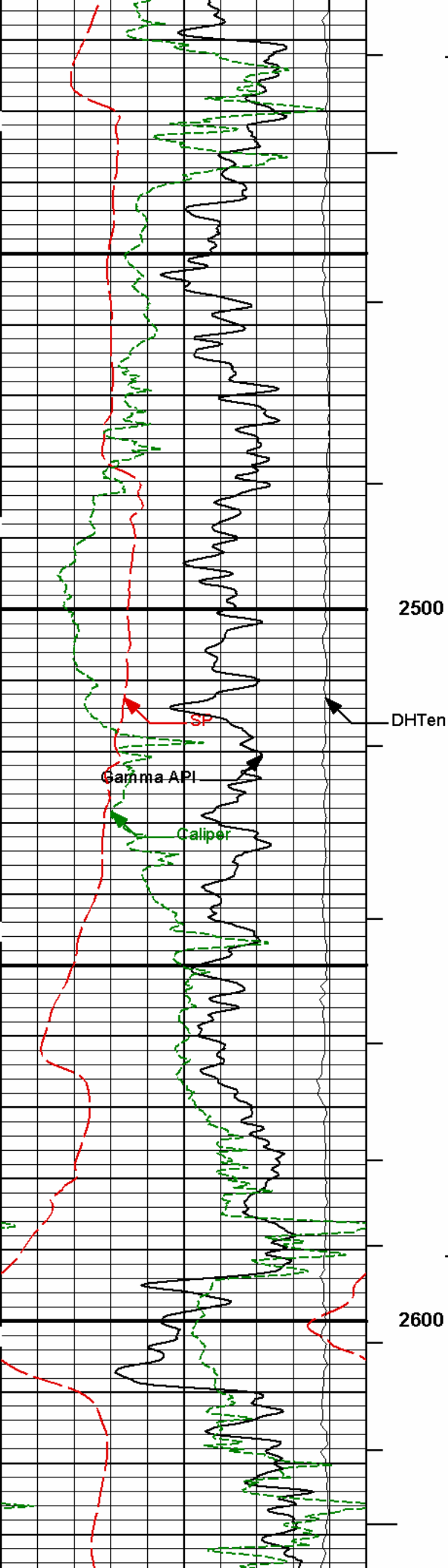
0	Gamma API	150		0.2	RT10	2K
	api				Ohm-m	
6	Caliper	16	AHVT	0.2	RT20	2K
	inches				Ohm-m	
0	SP	100	BHVT	0.2	RT30	2K
	millivolts				Ohm-m	
				0.2	RT60	2K
					Ohm-m	
				0.2	RT90	2K
					Ohm-m	

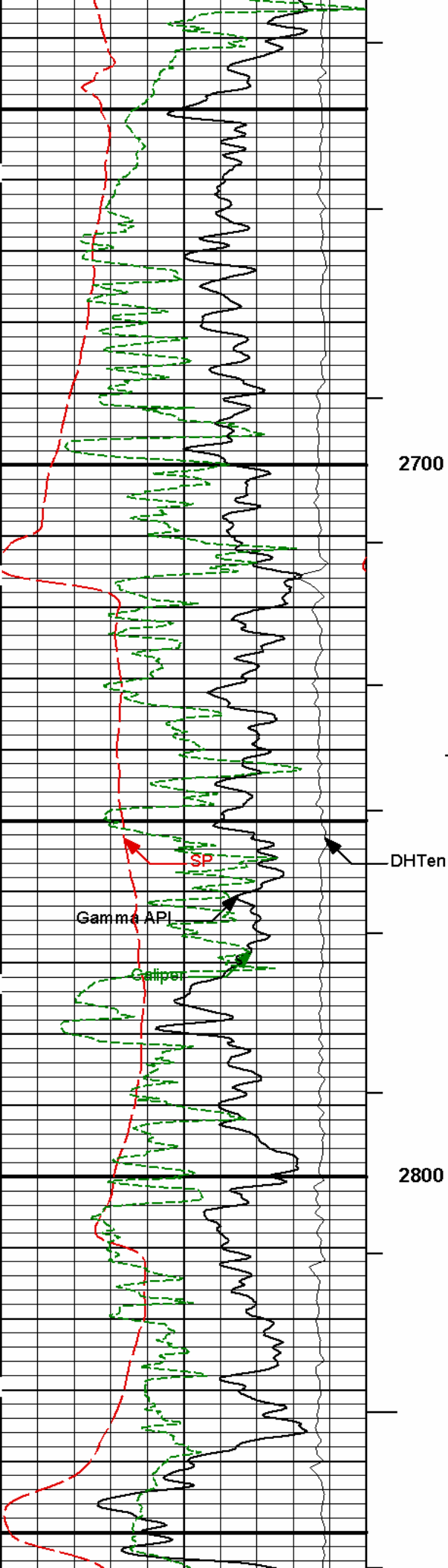








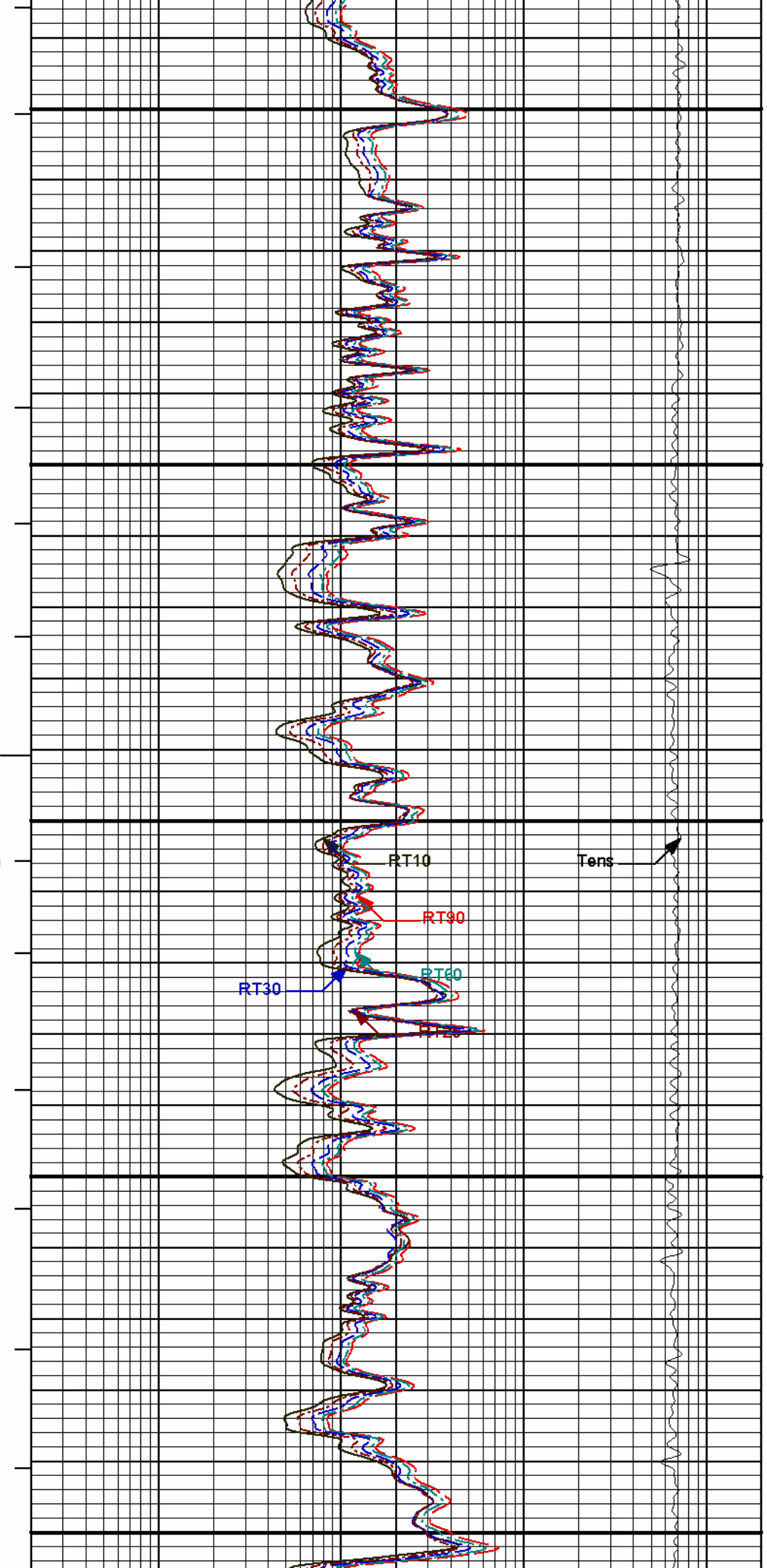


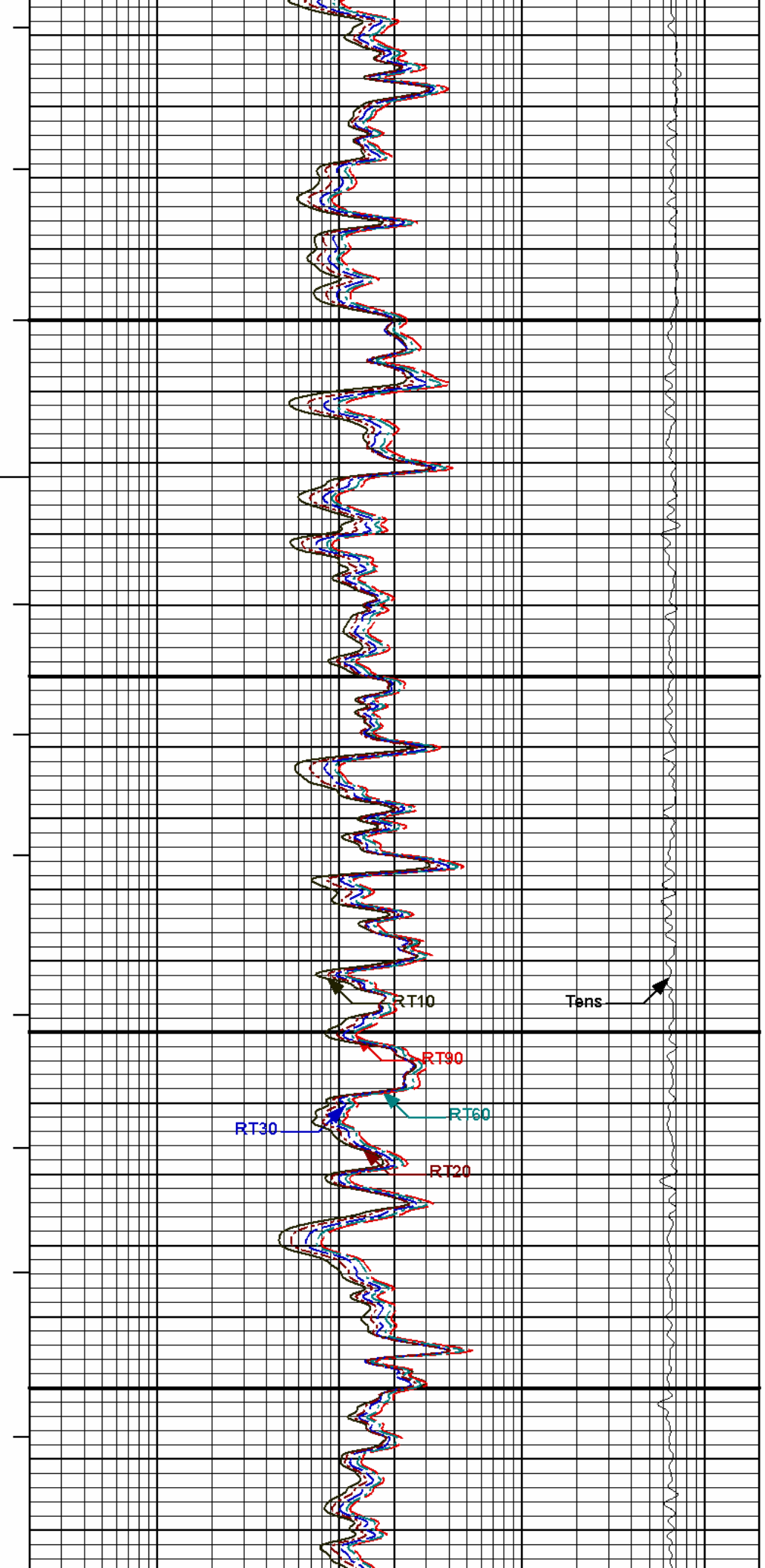
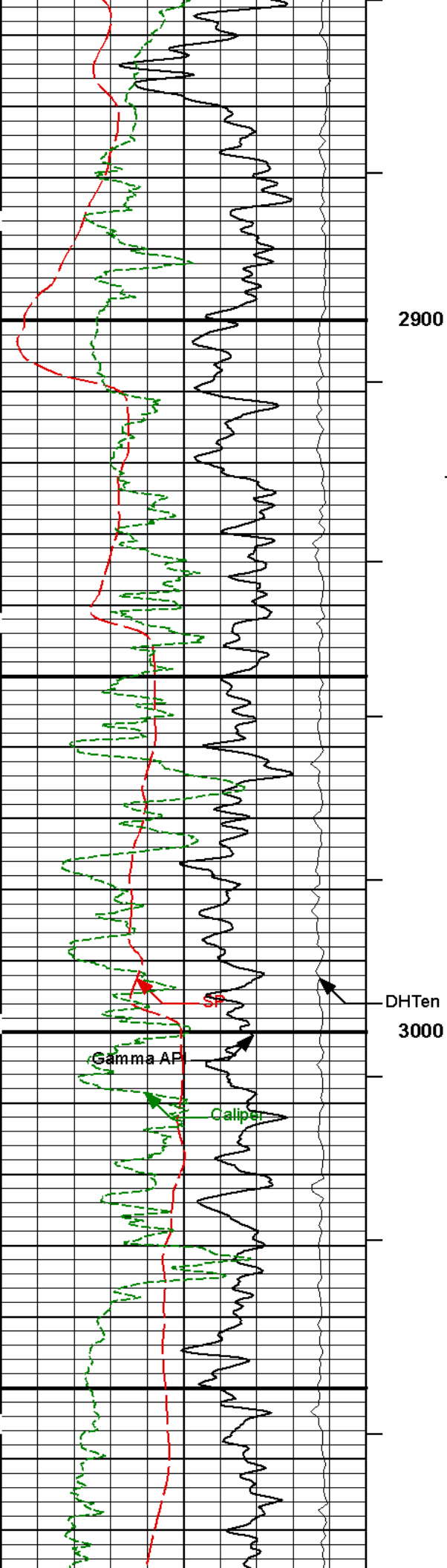


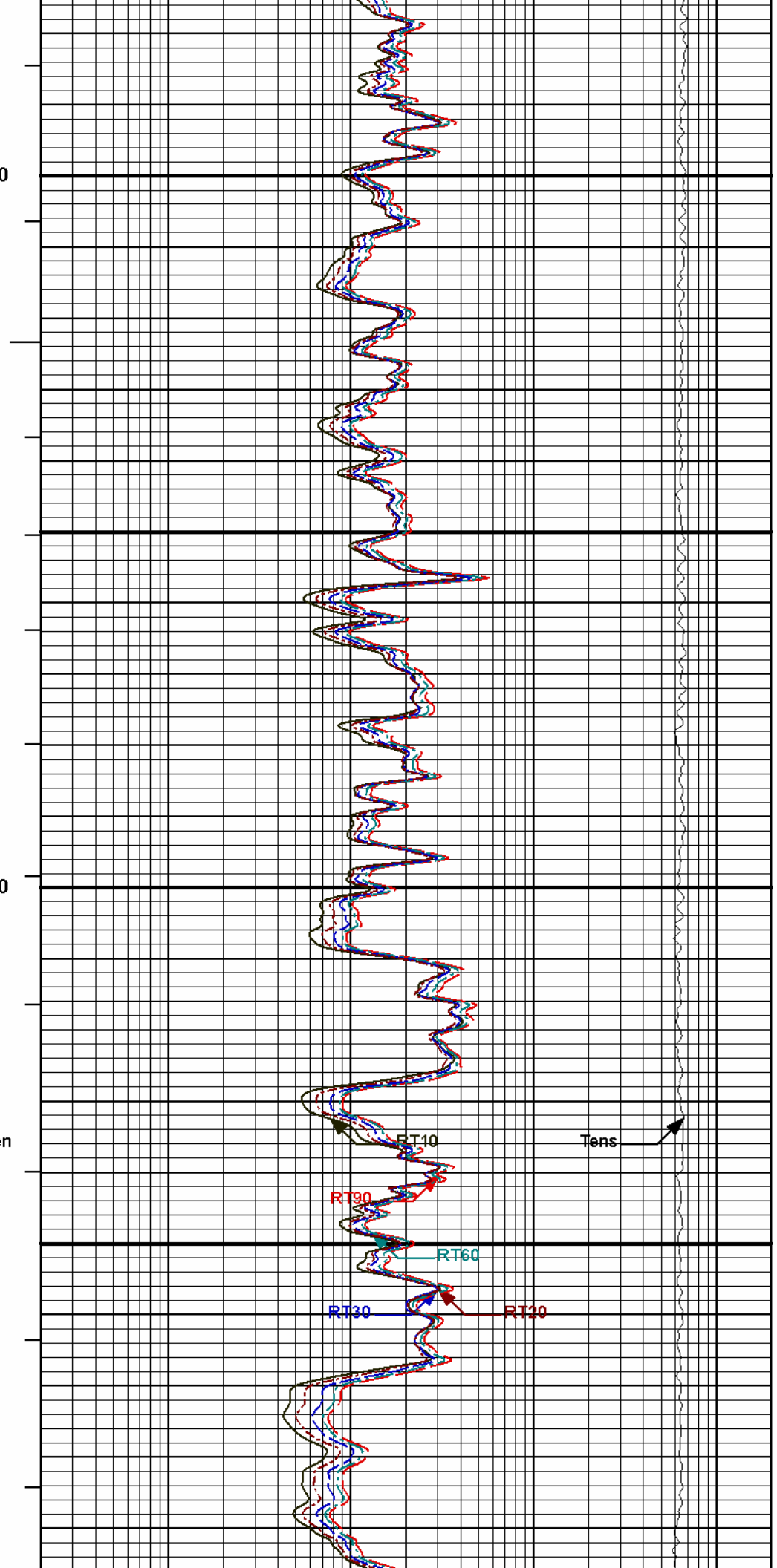
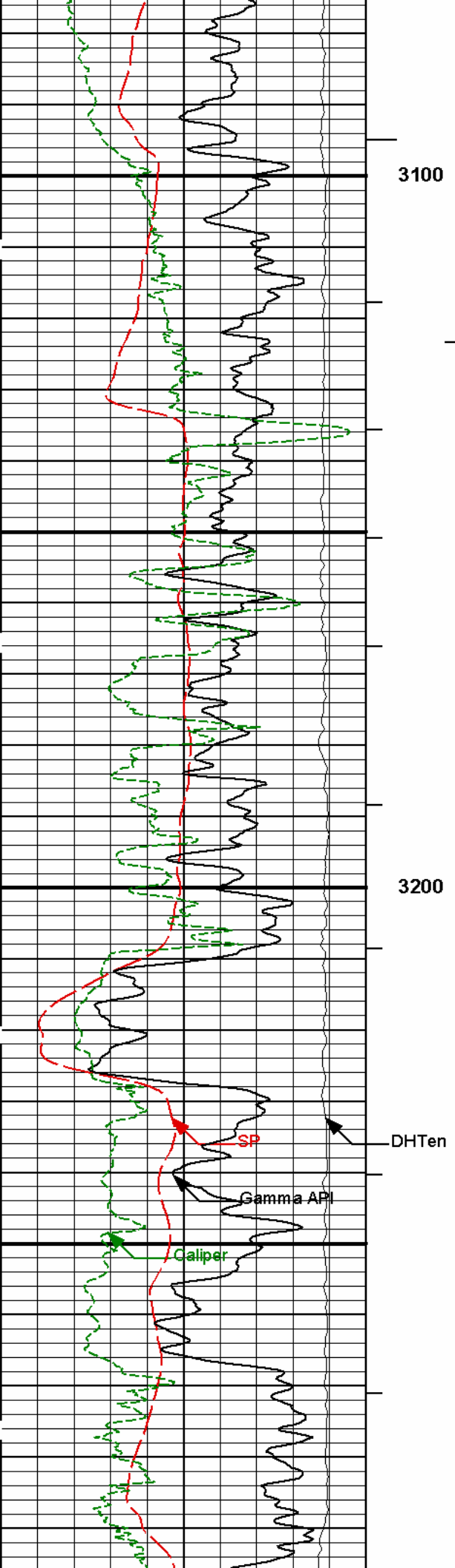
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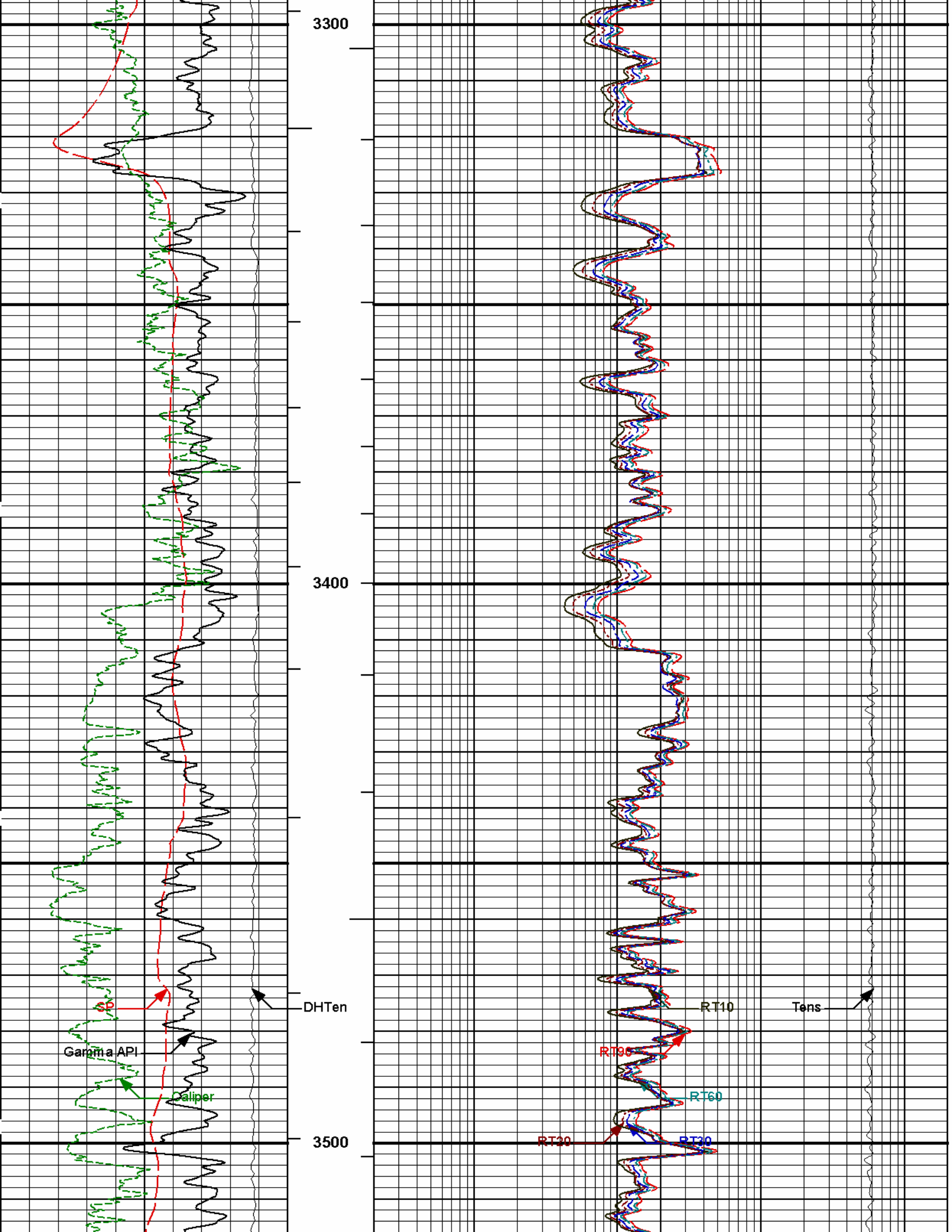
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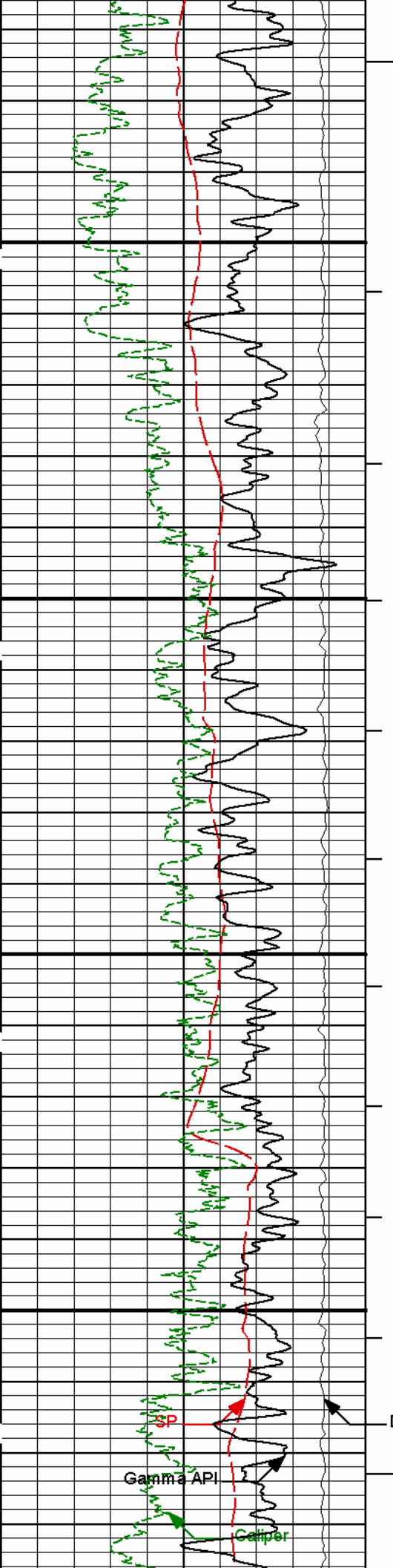
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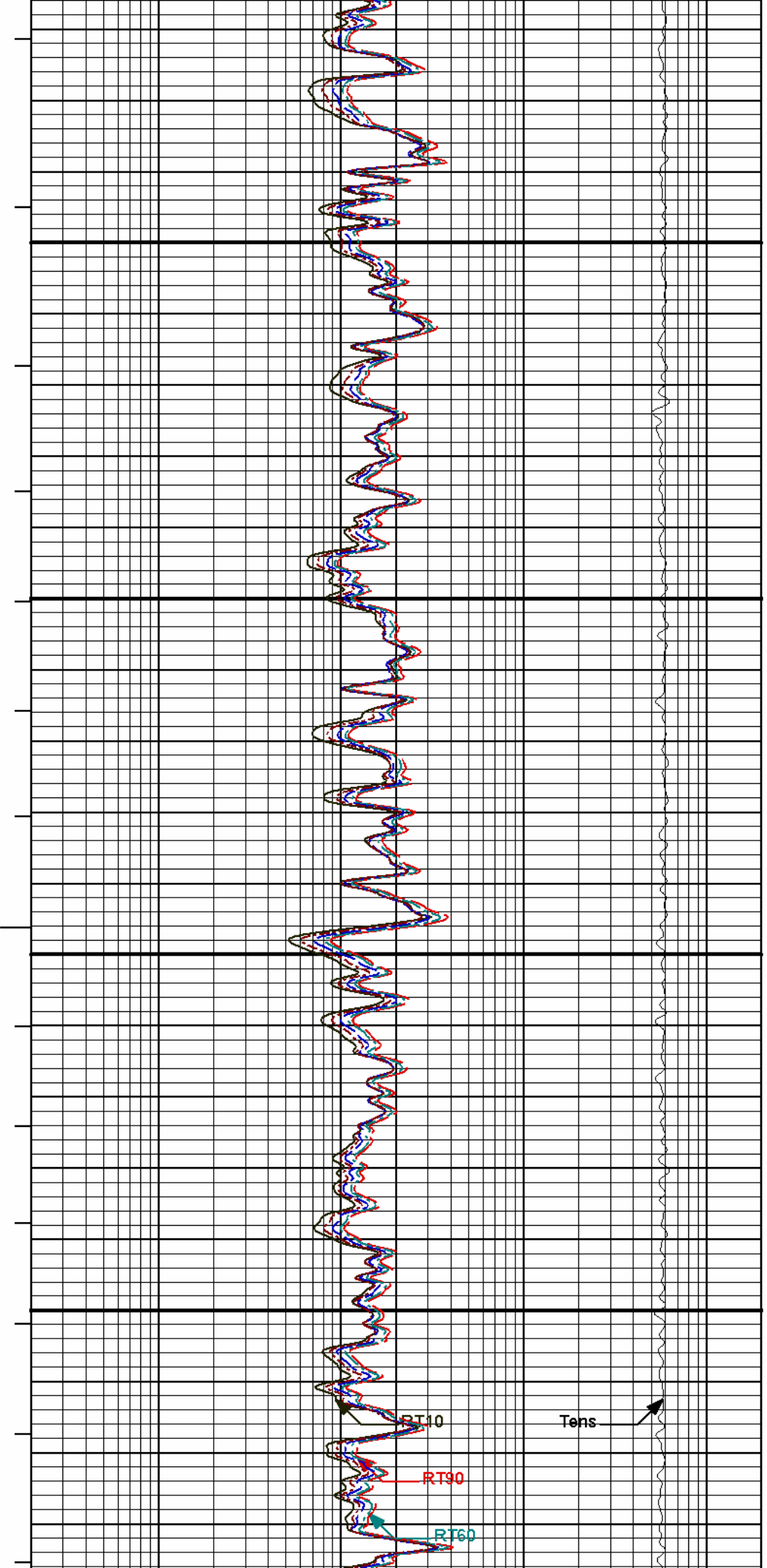
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3700

DHTen

Gamma API

Capiper

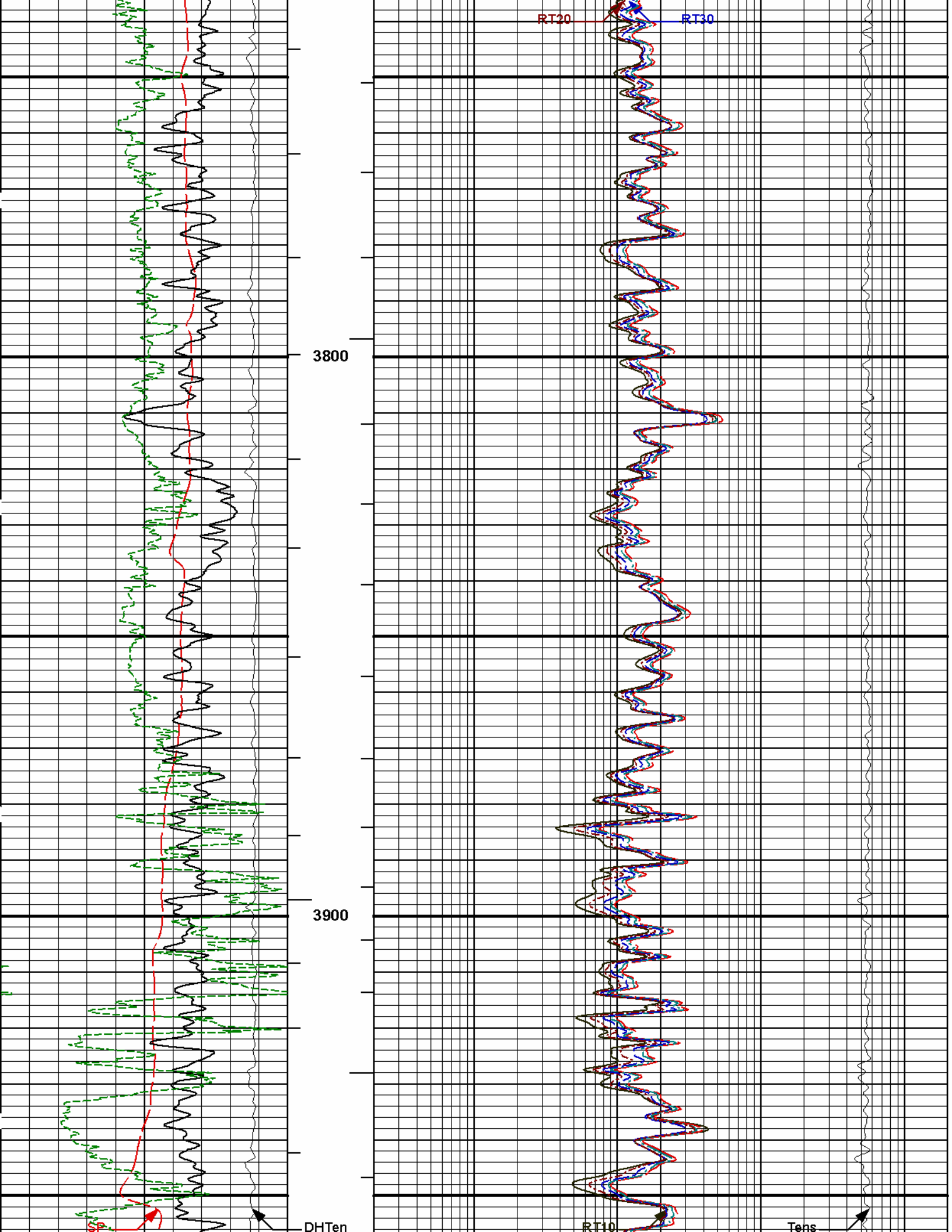


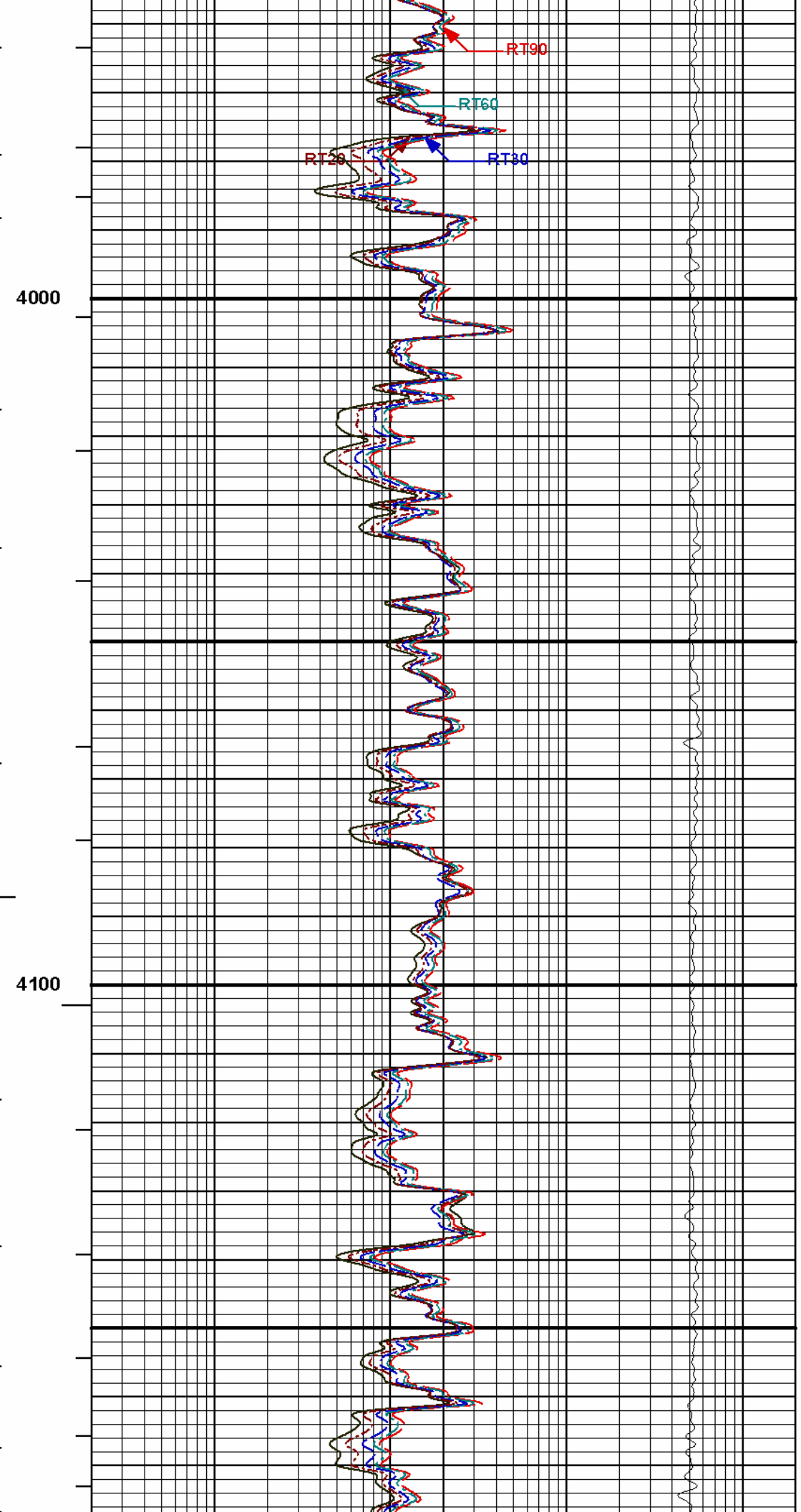
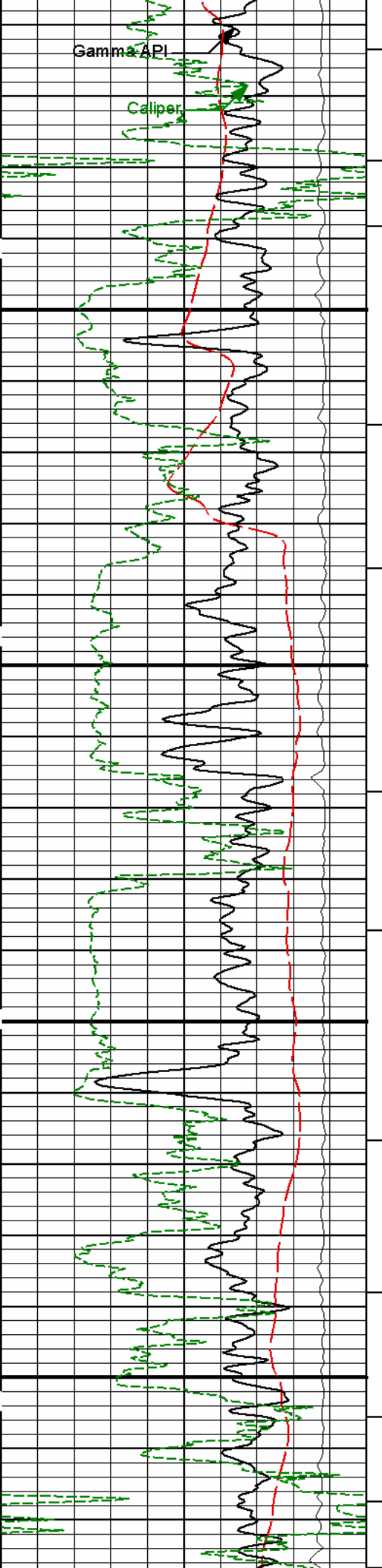
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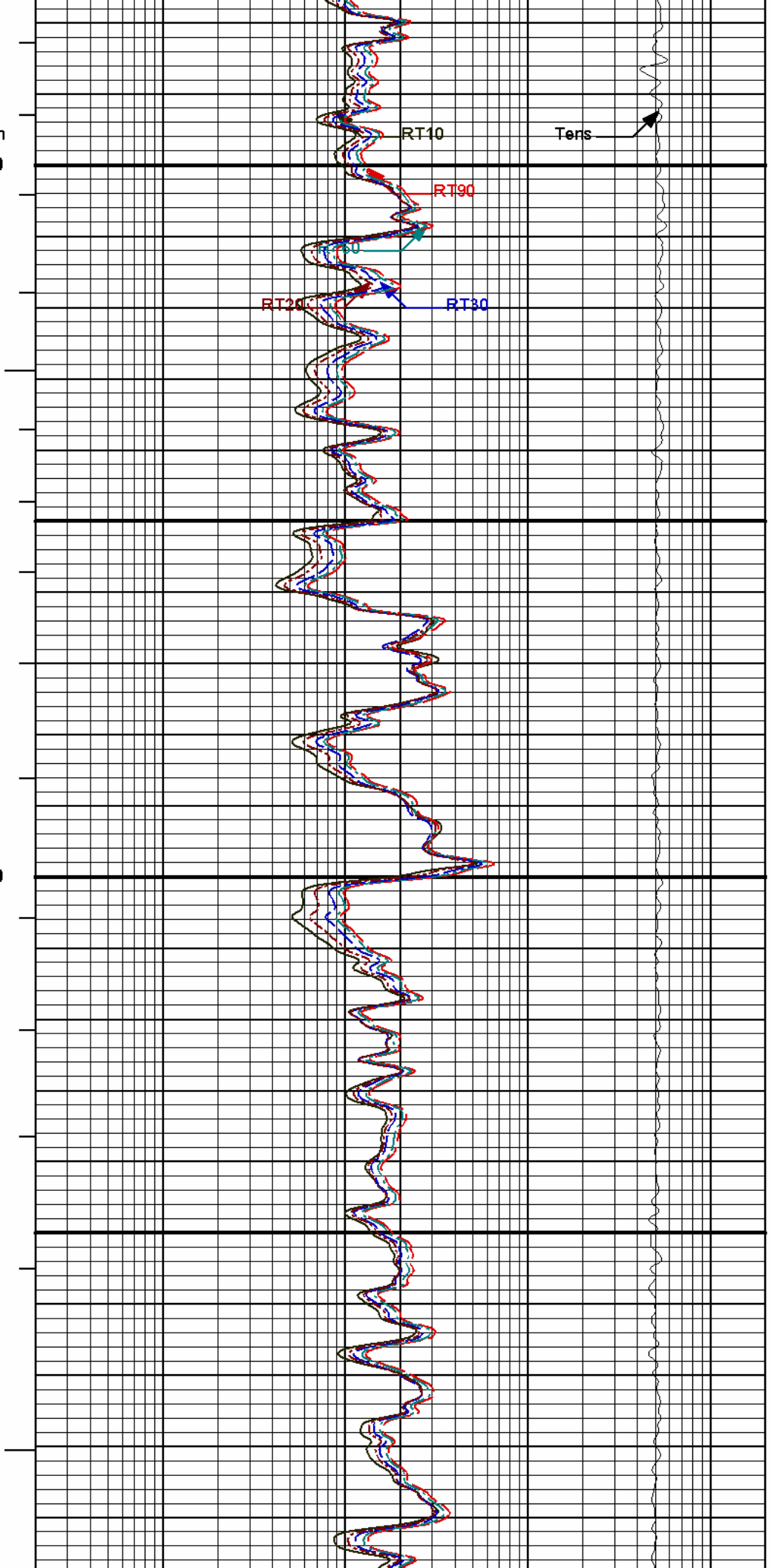
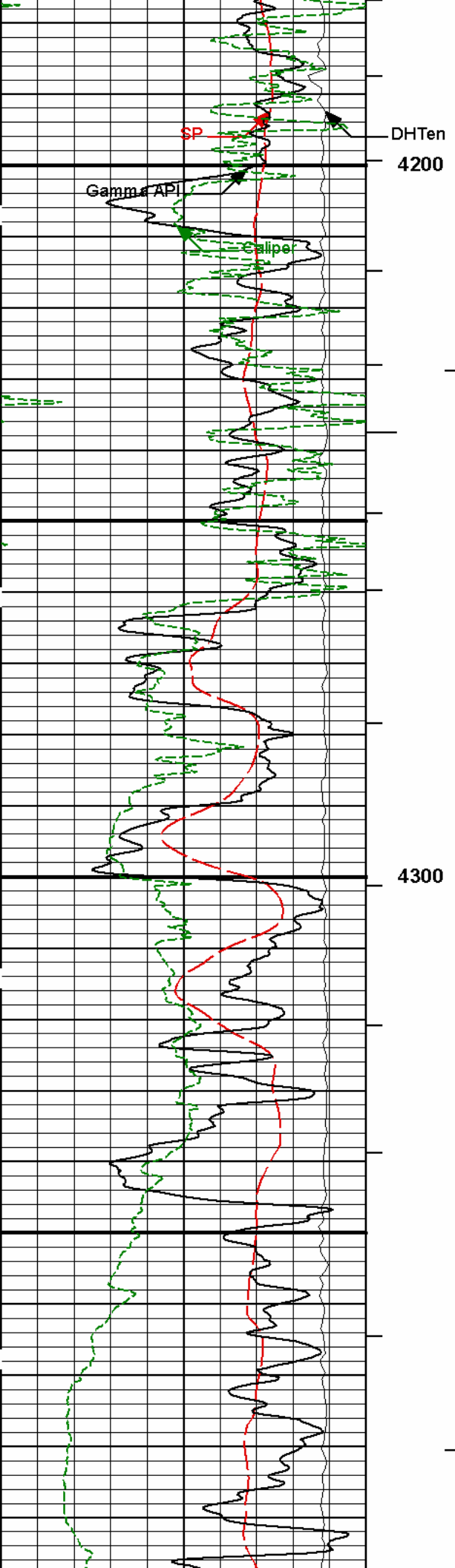
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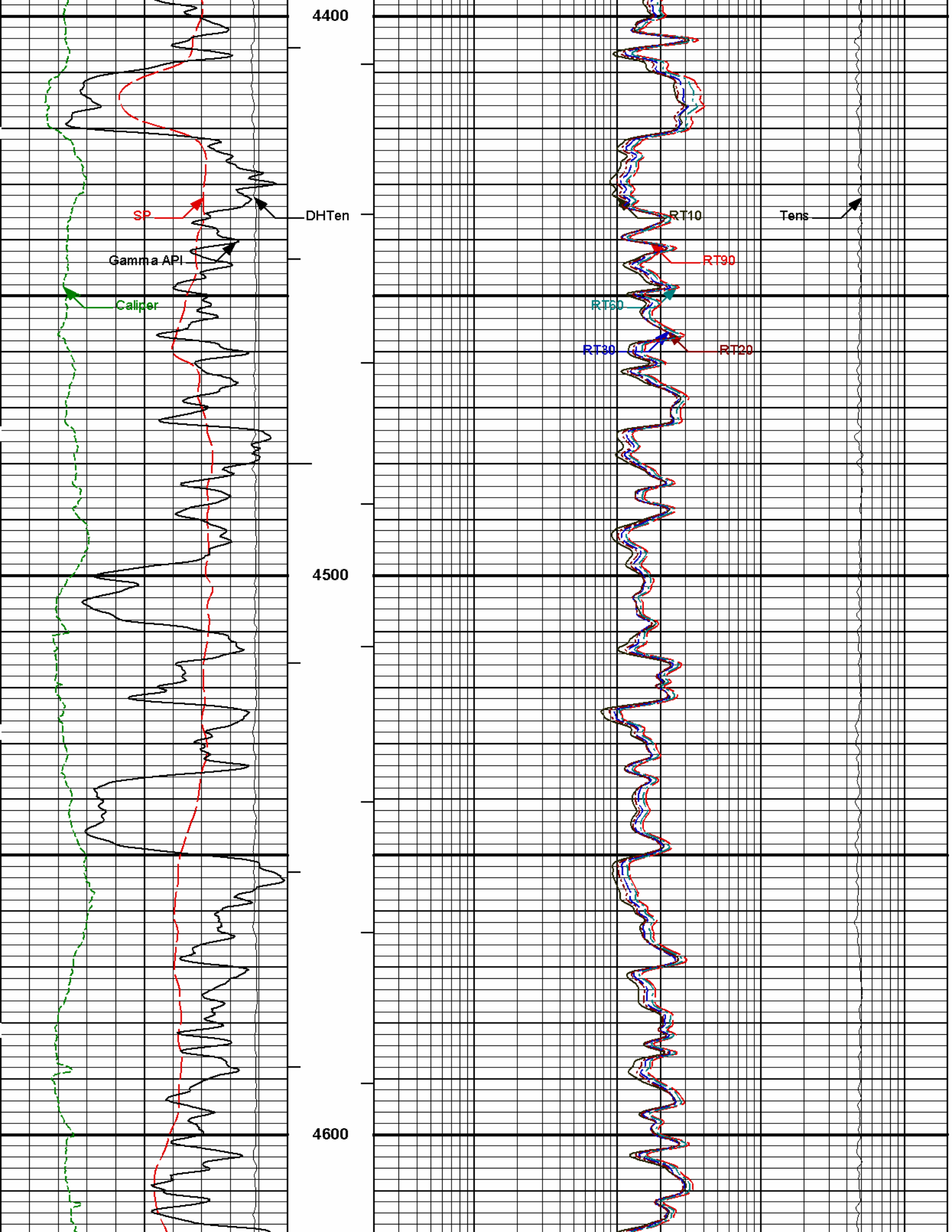
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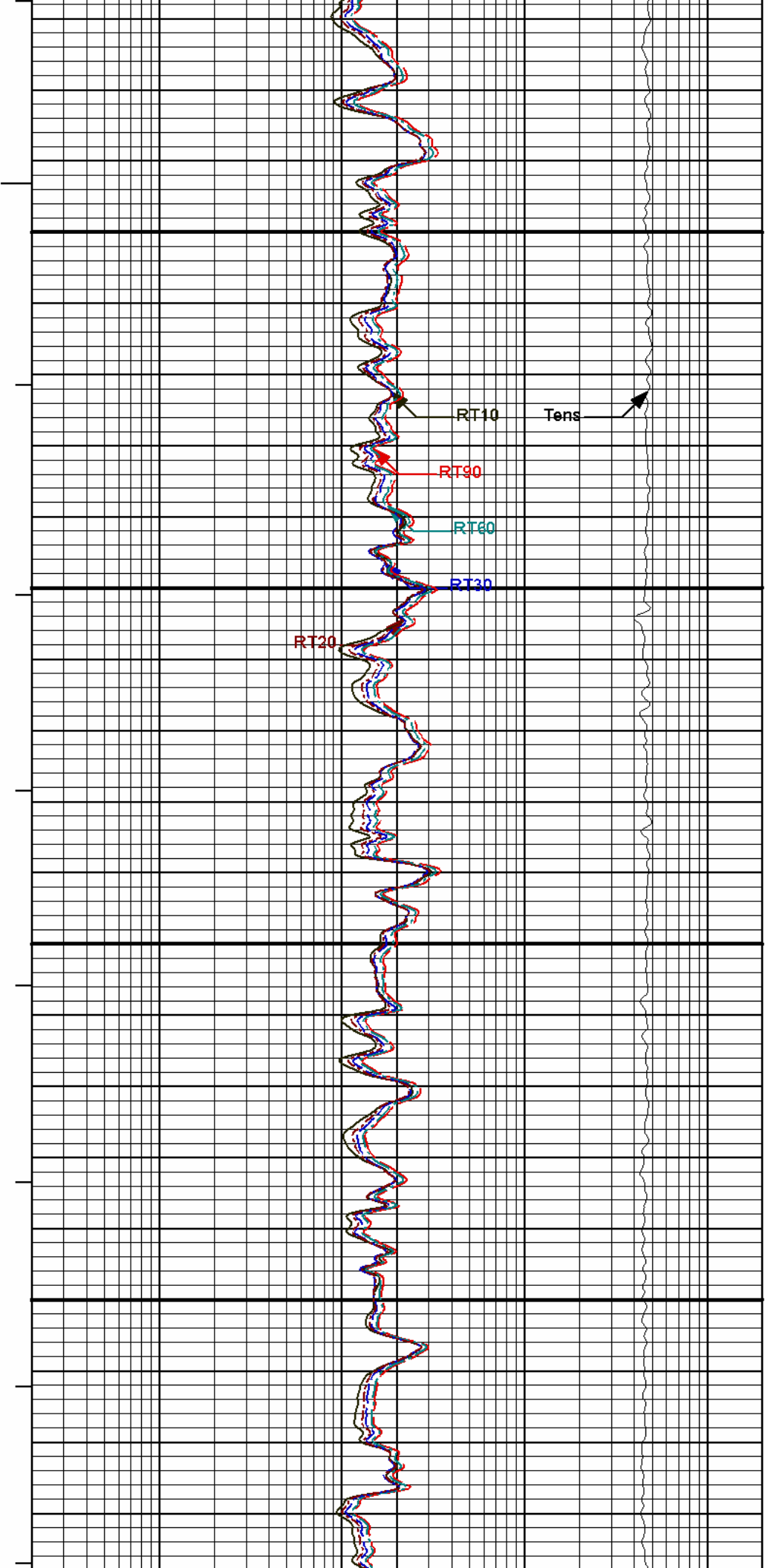
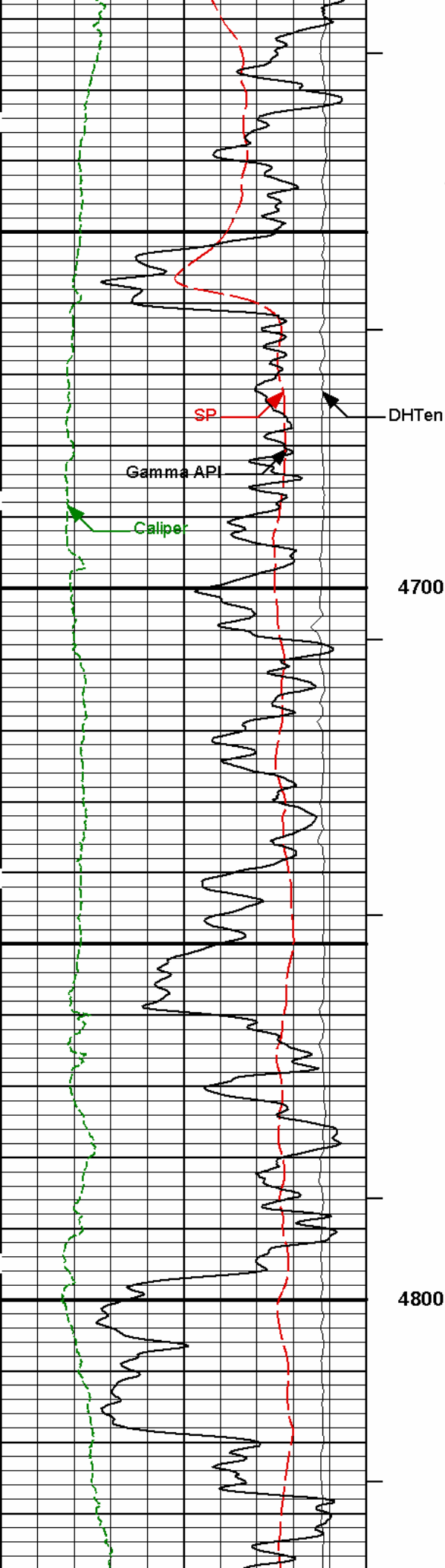
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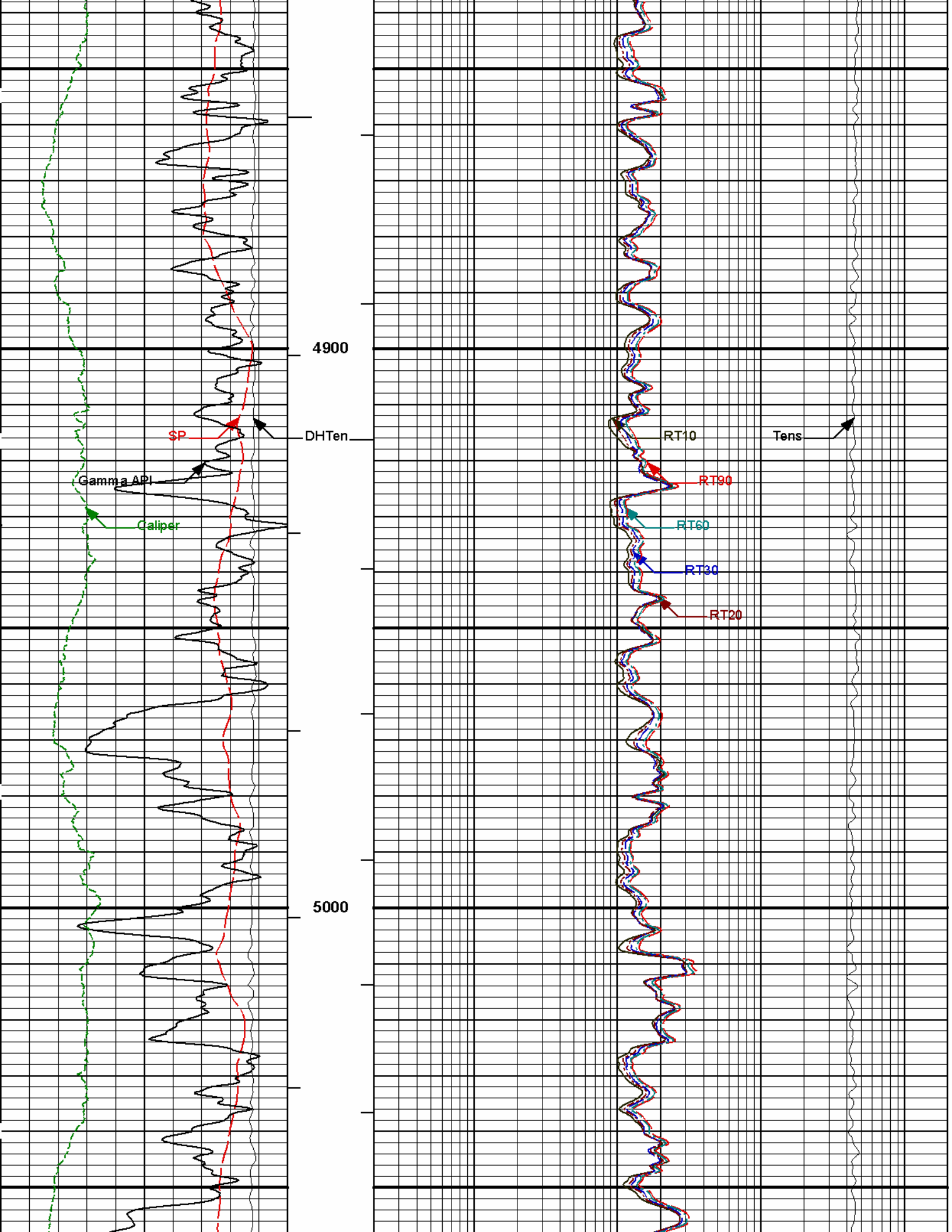


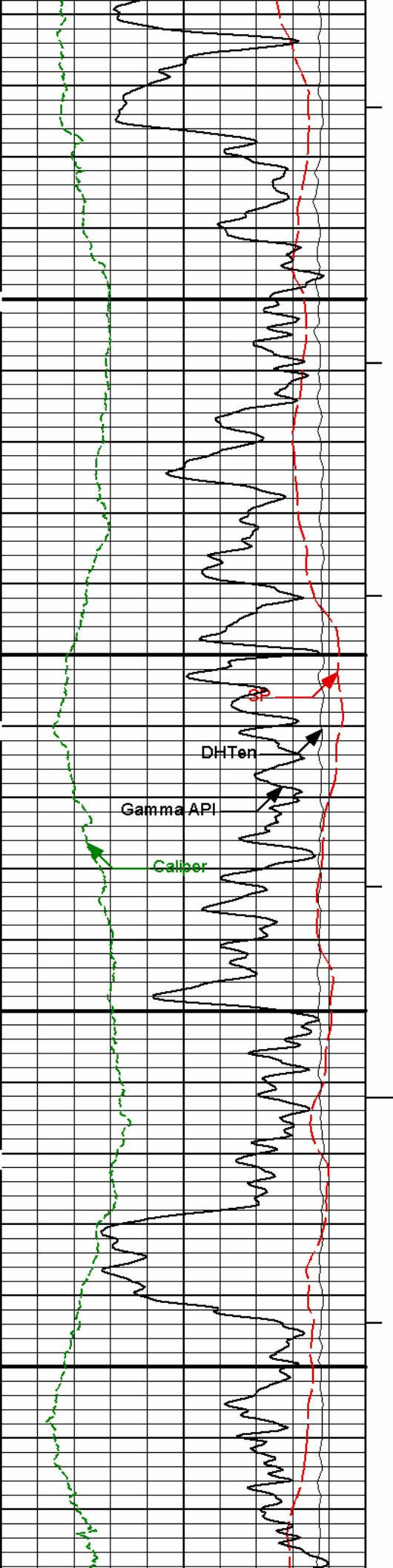






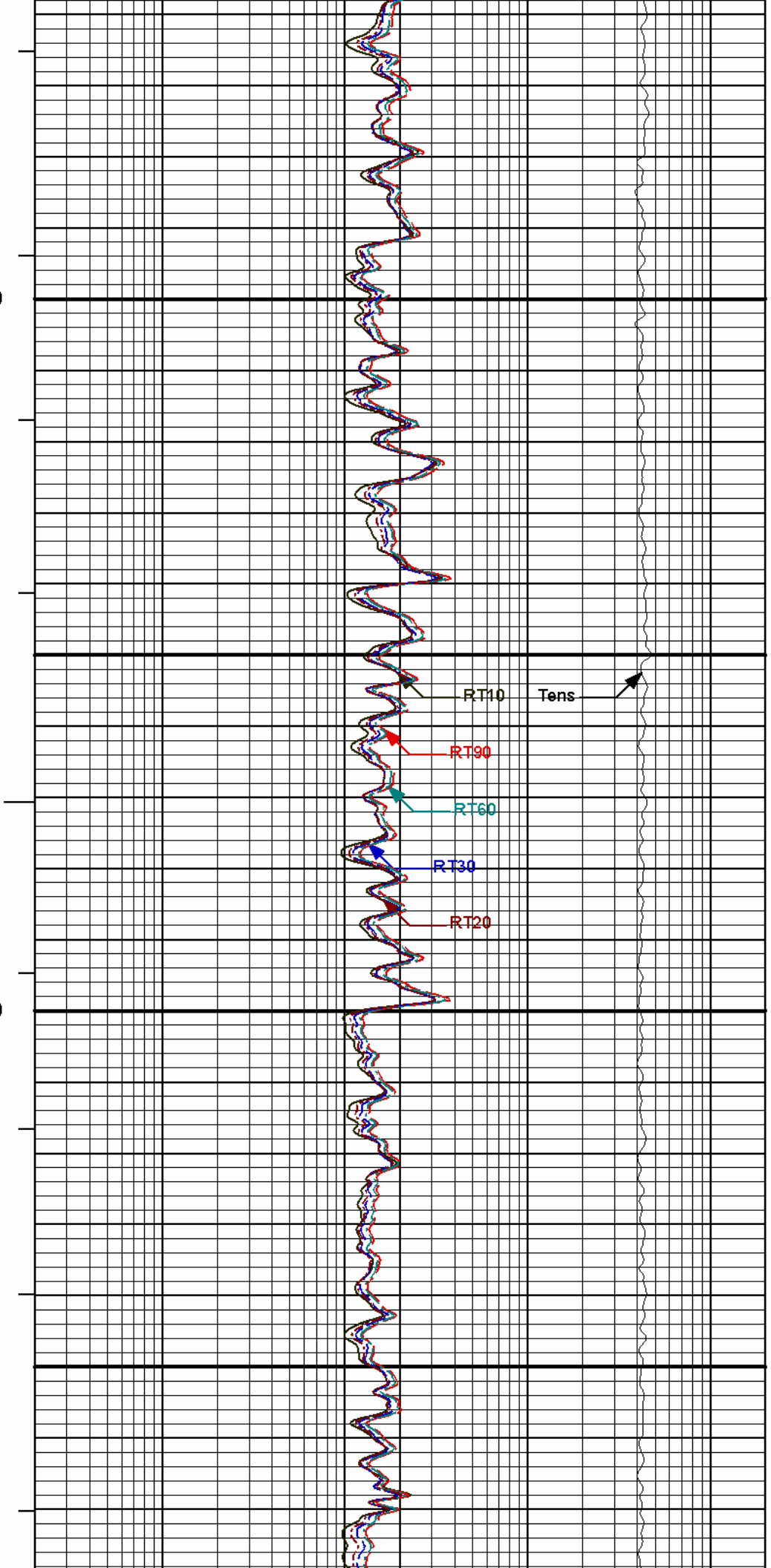


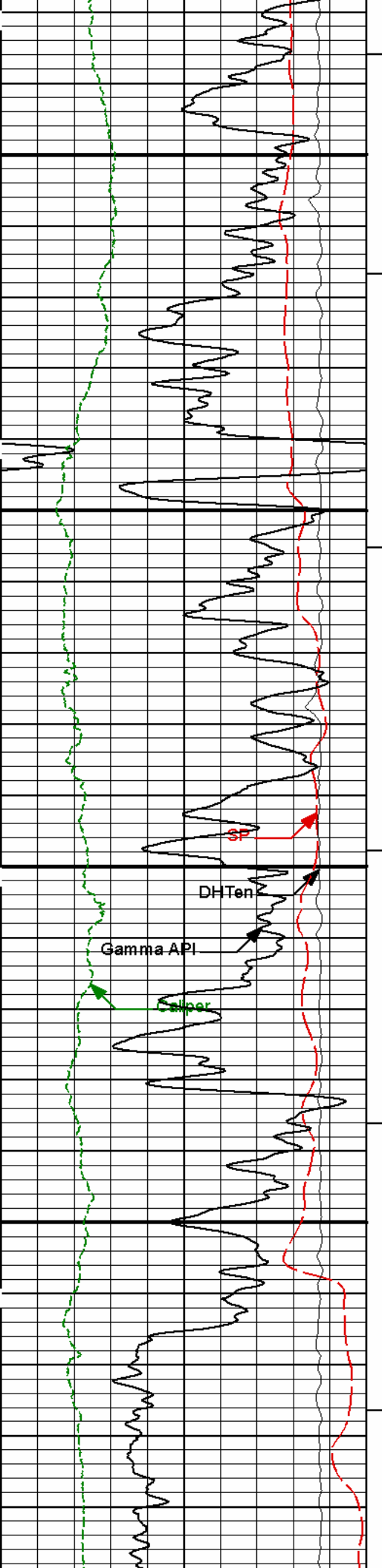




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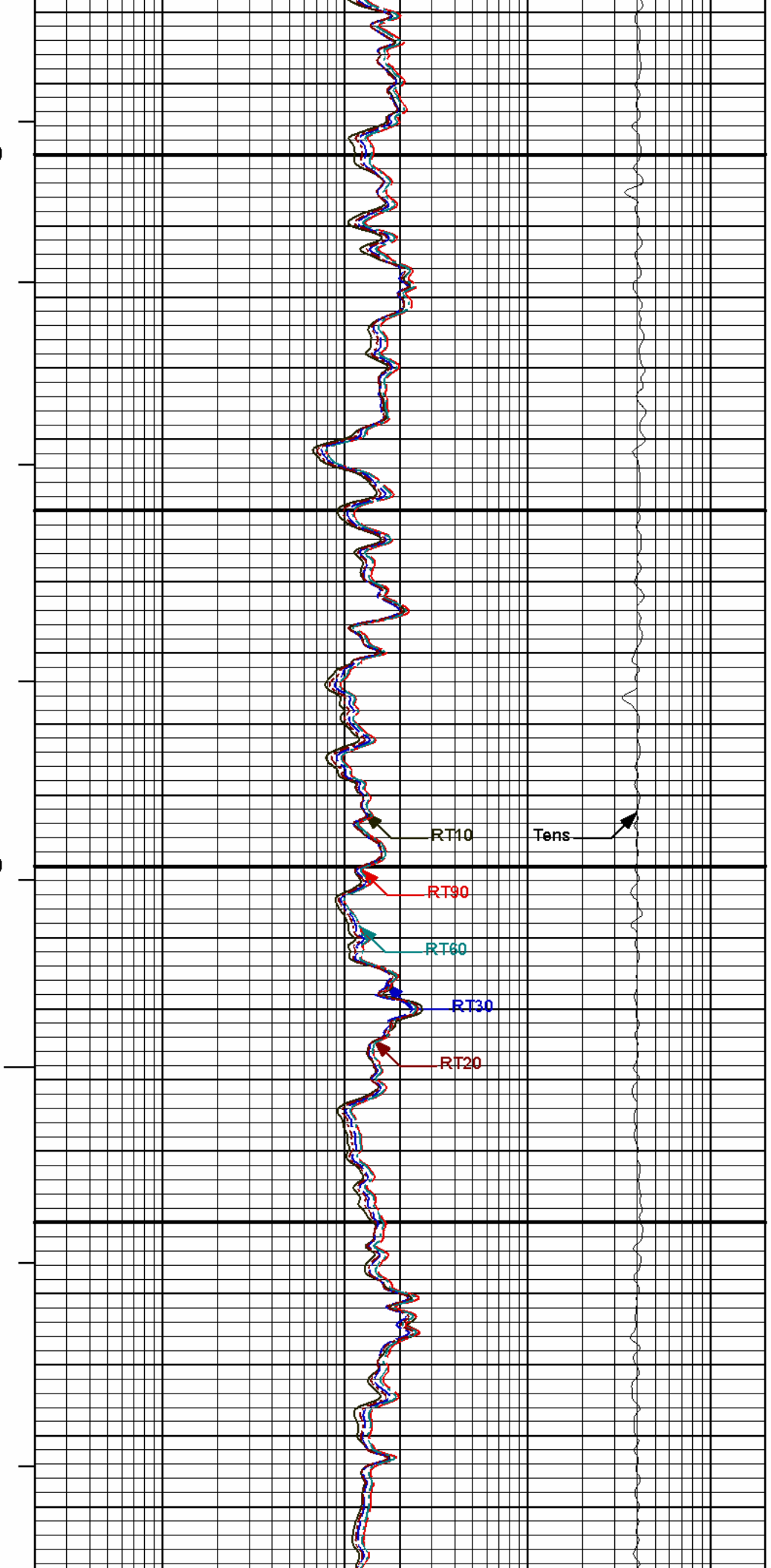
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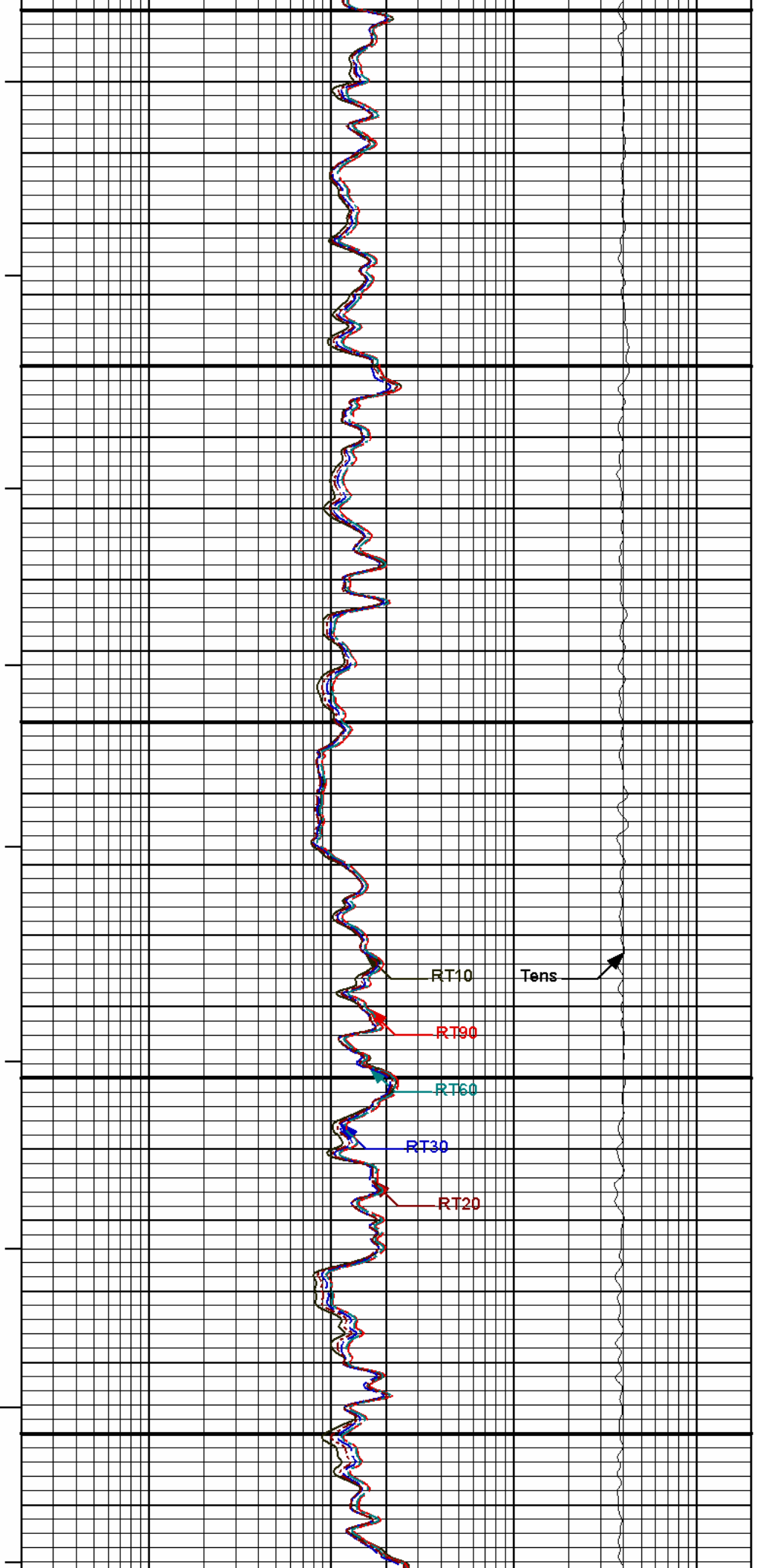
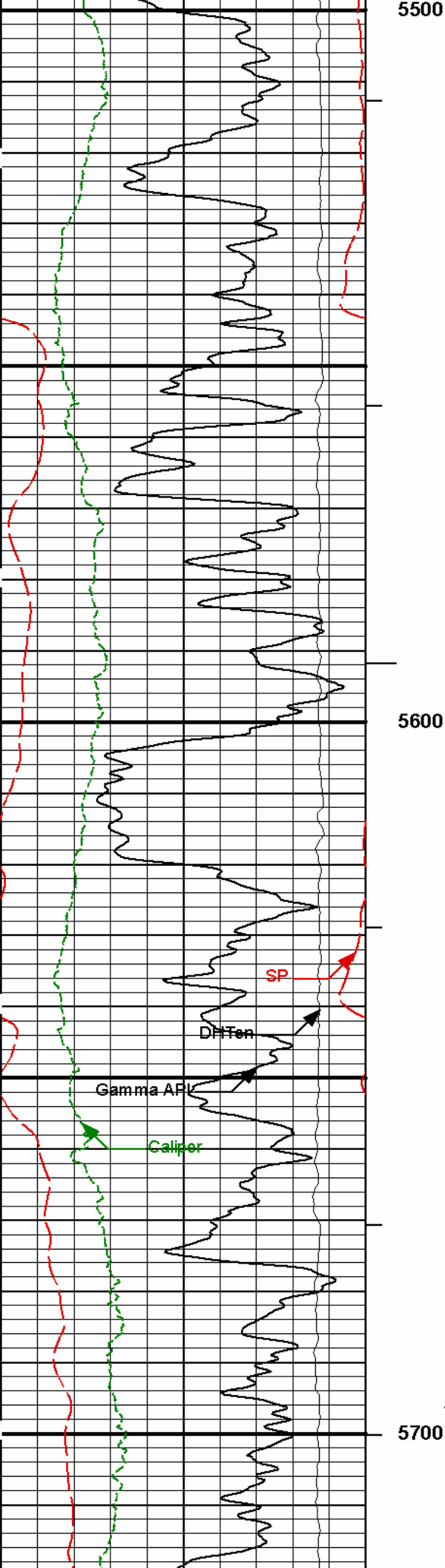


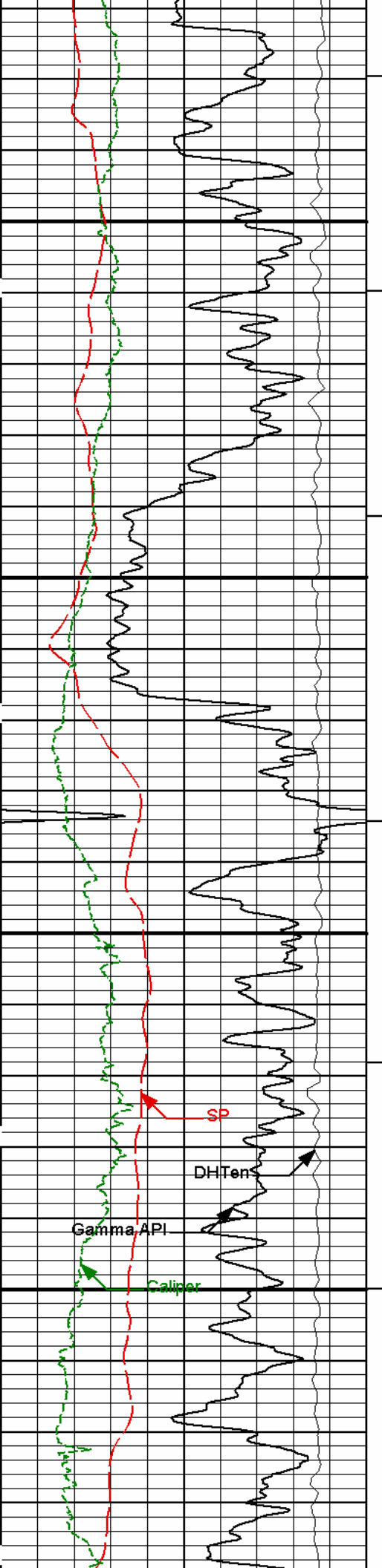


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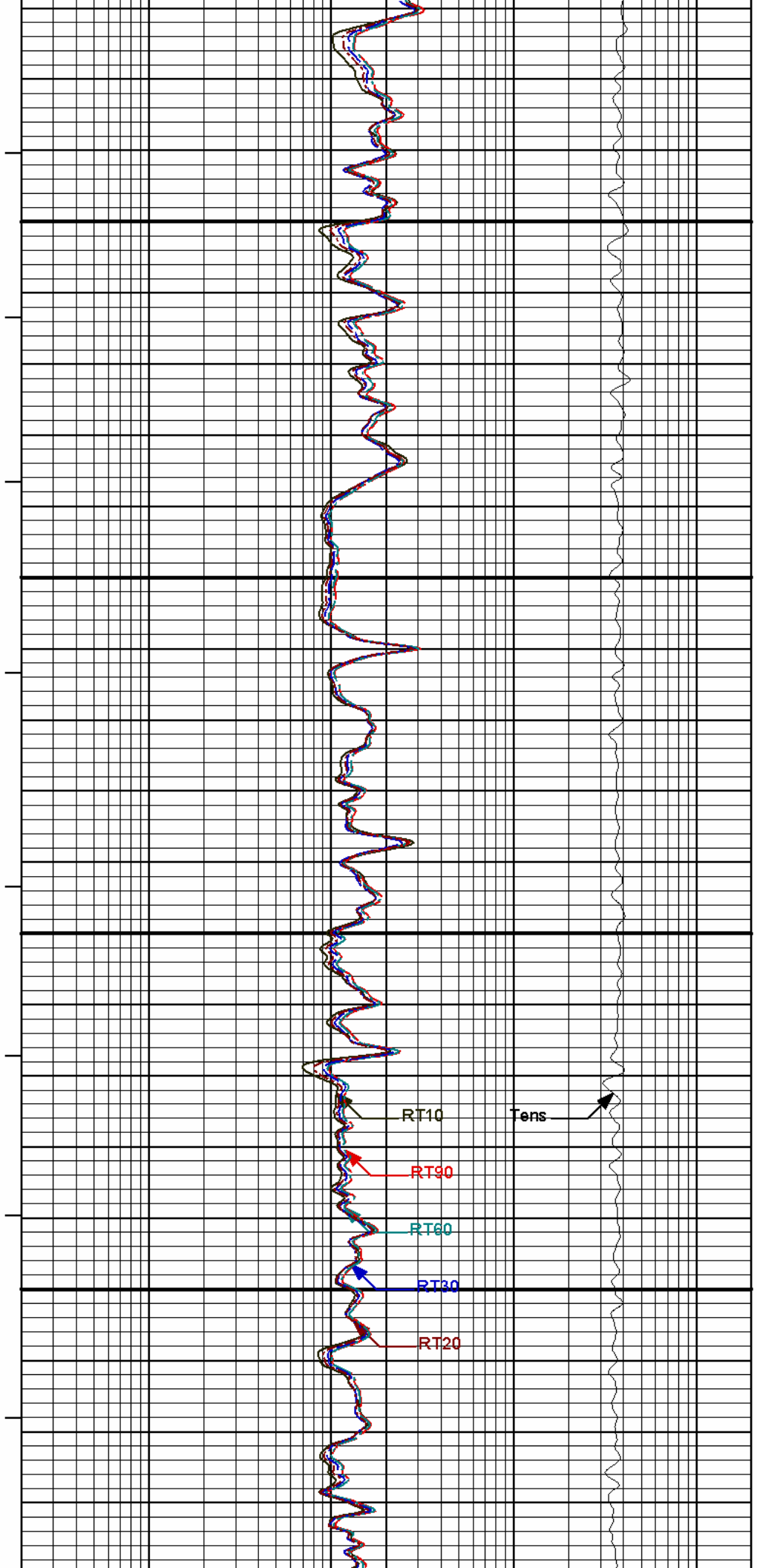


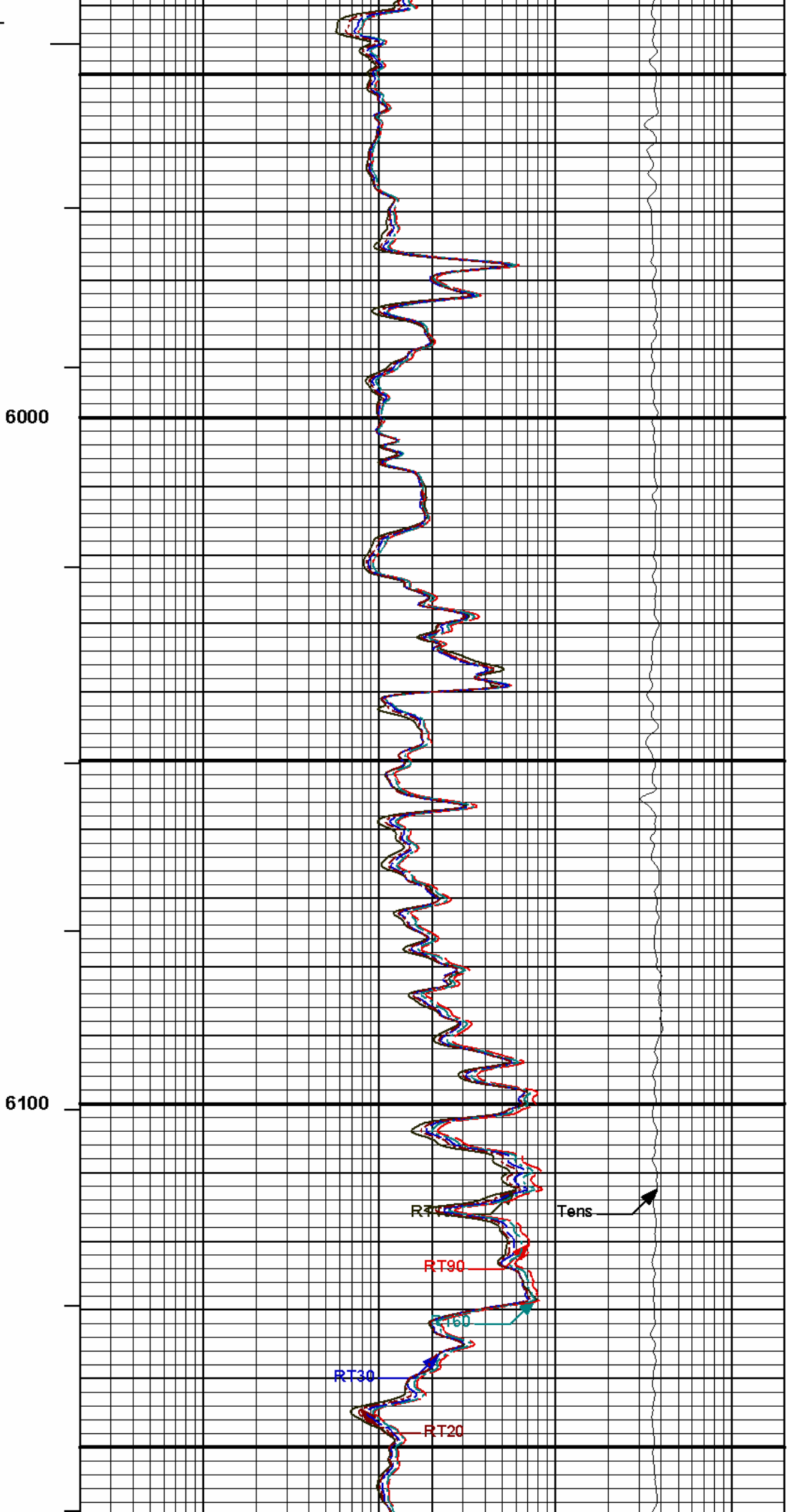
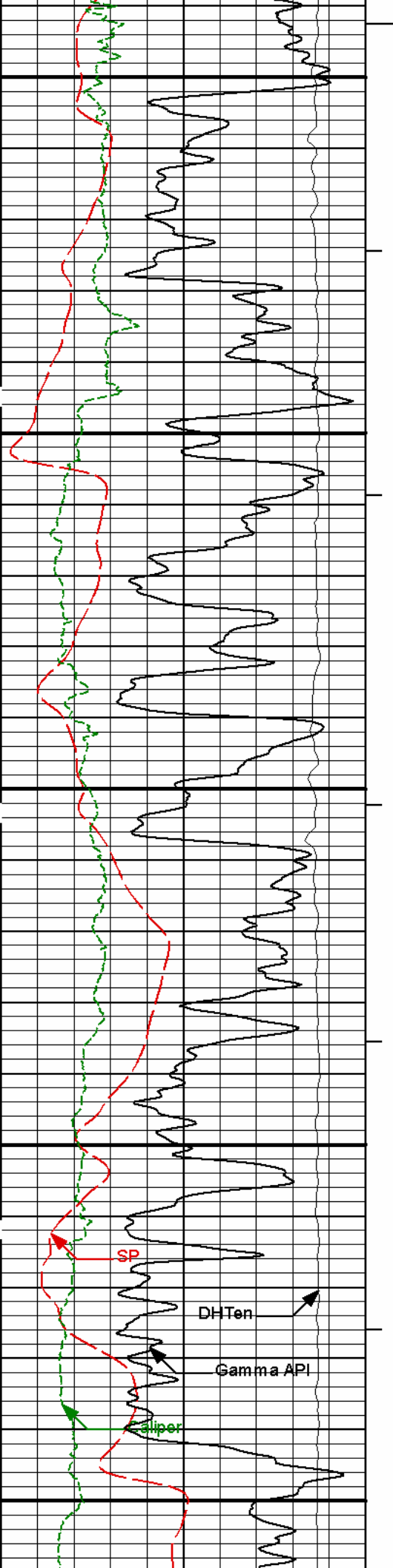


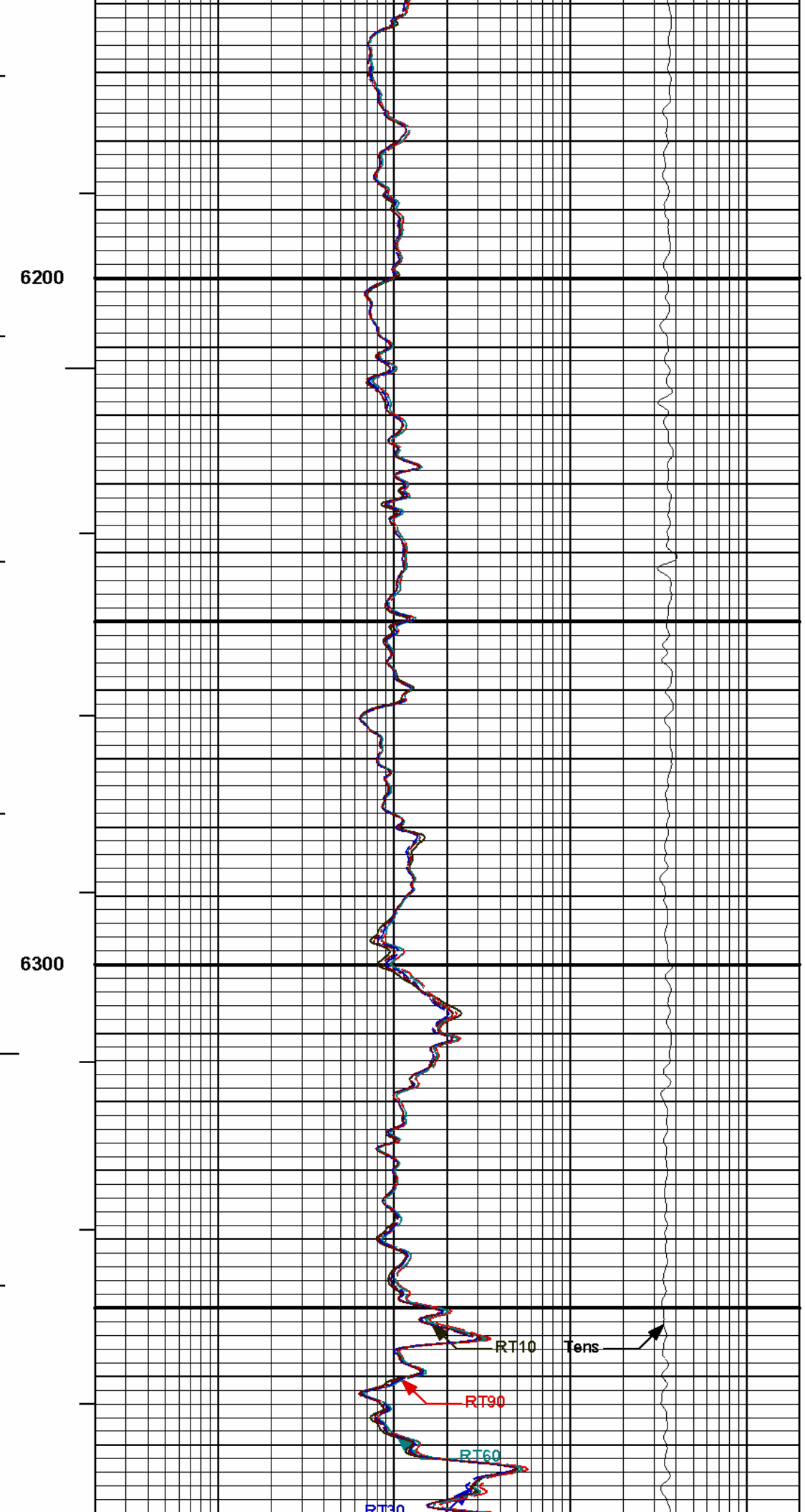
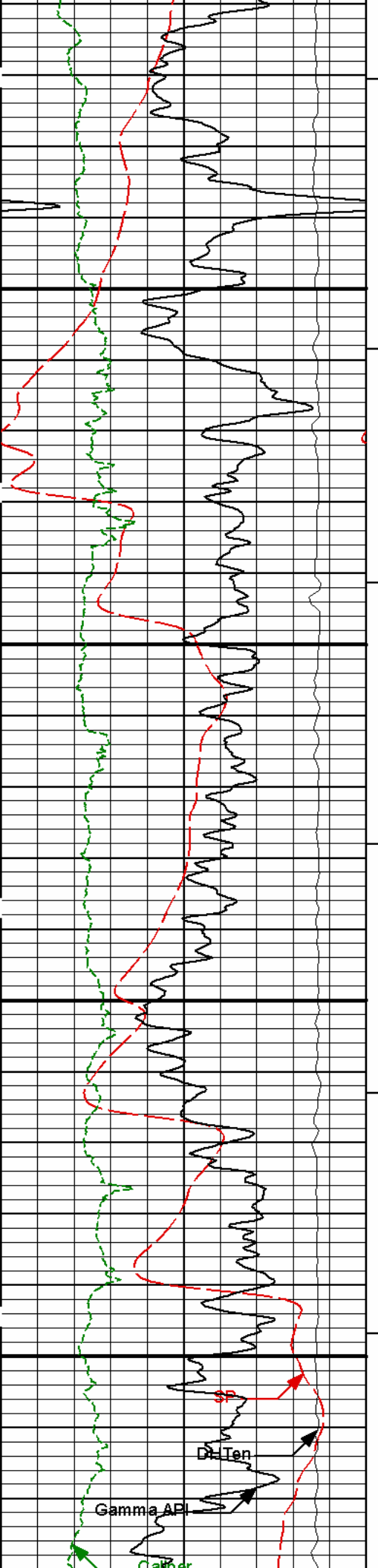


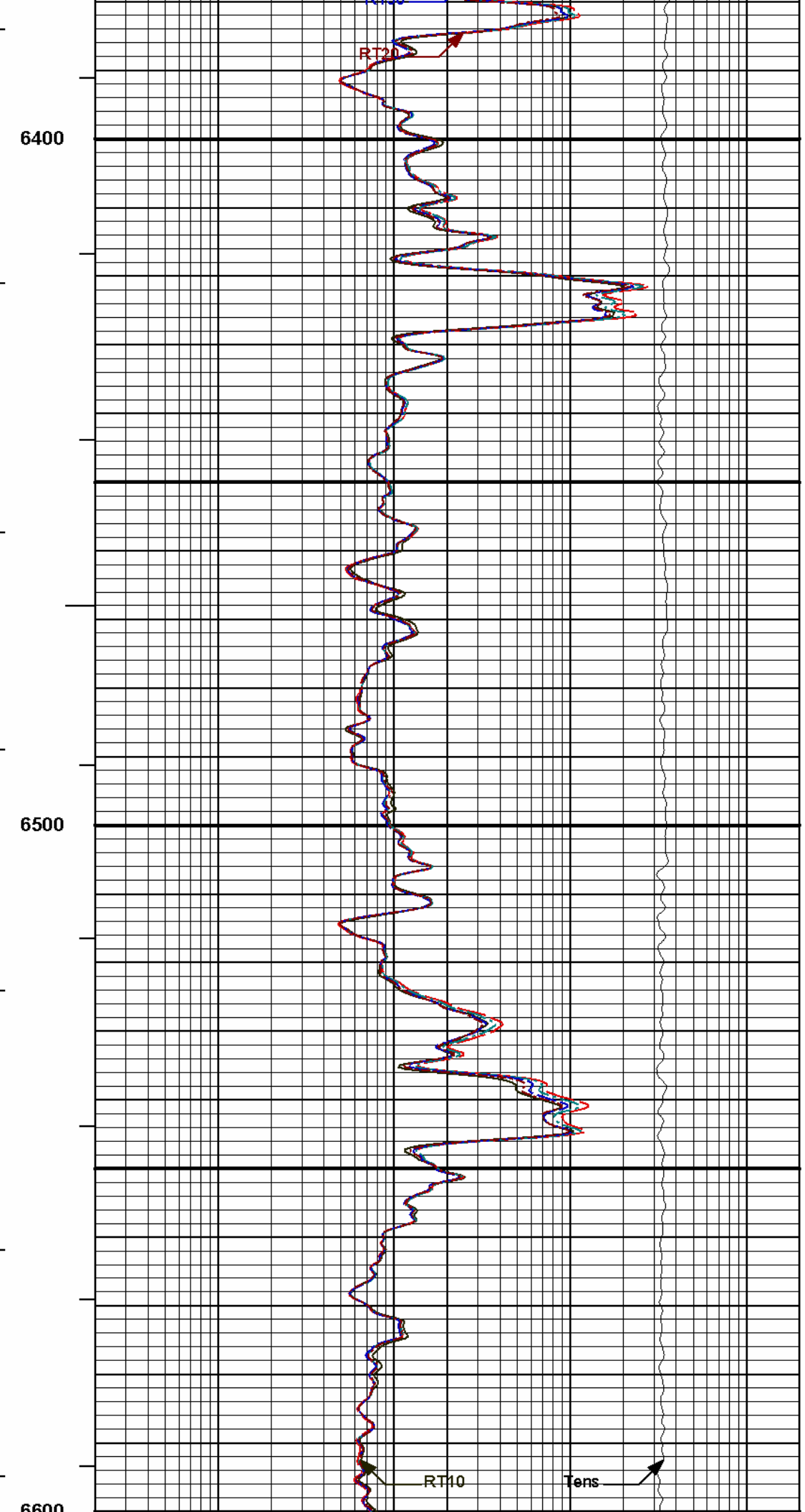
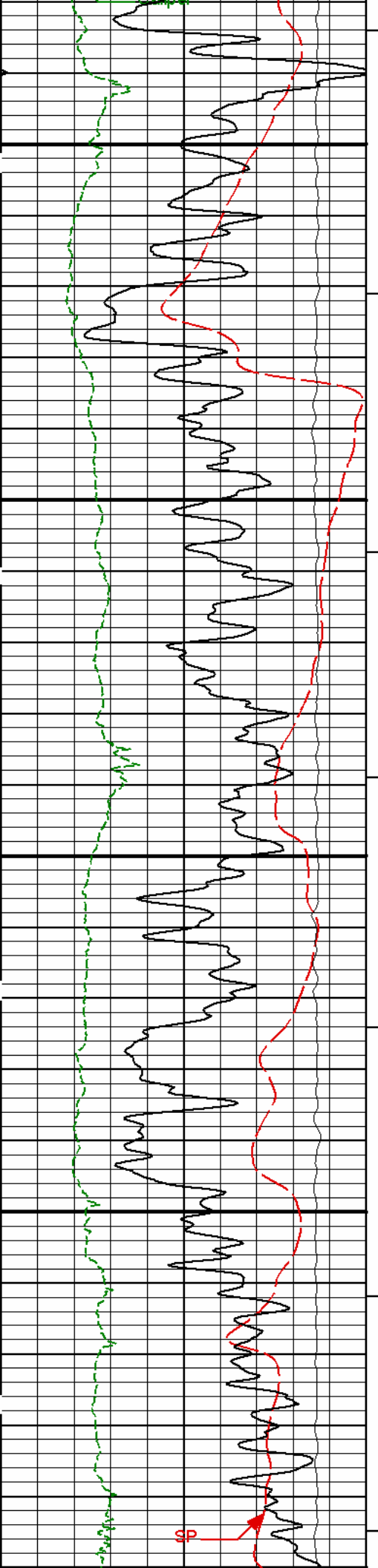
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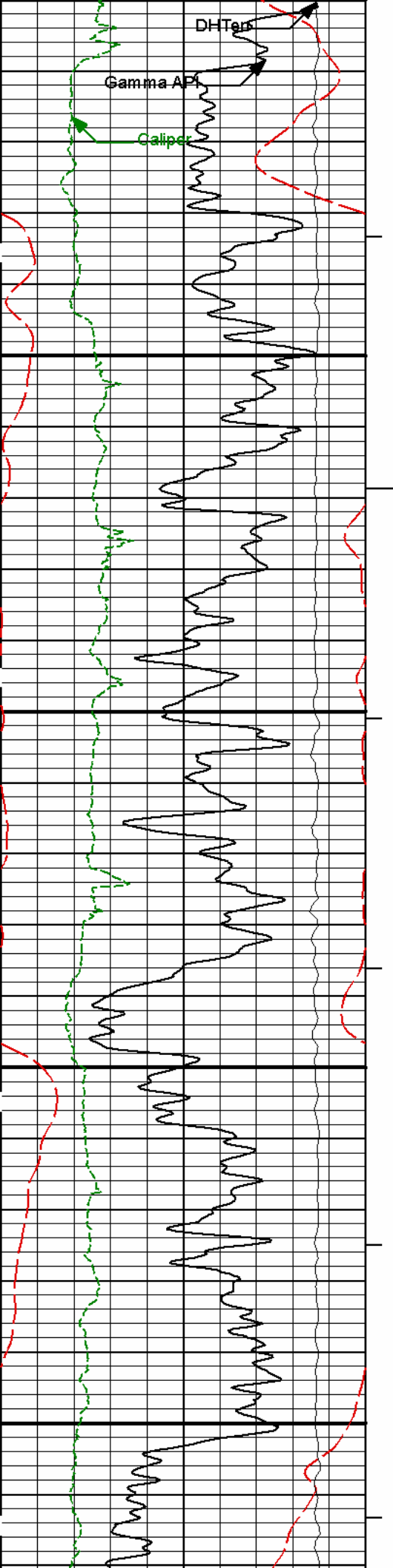
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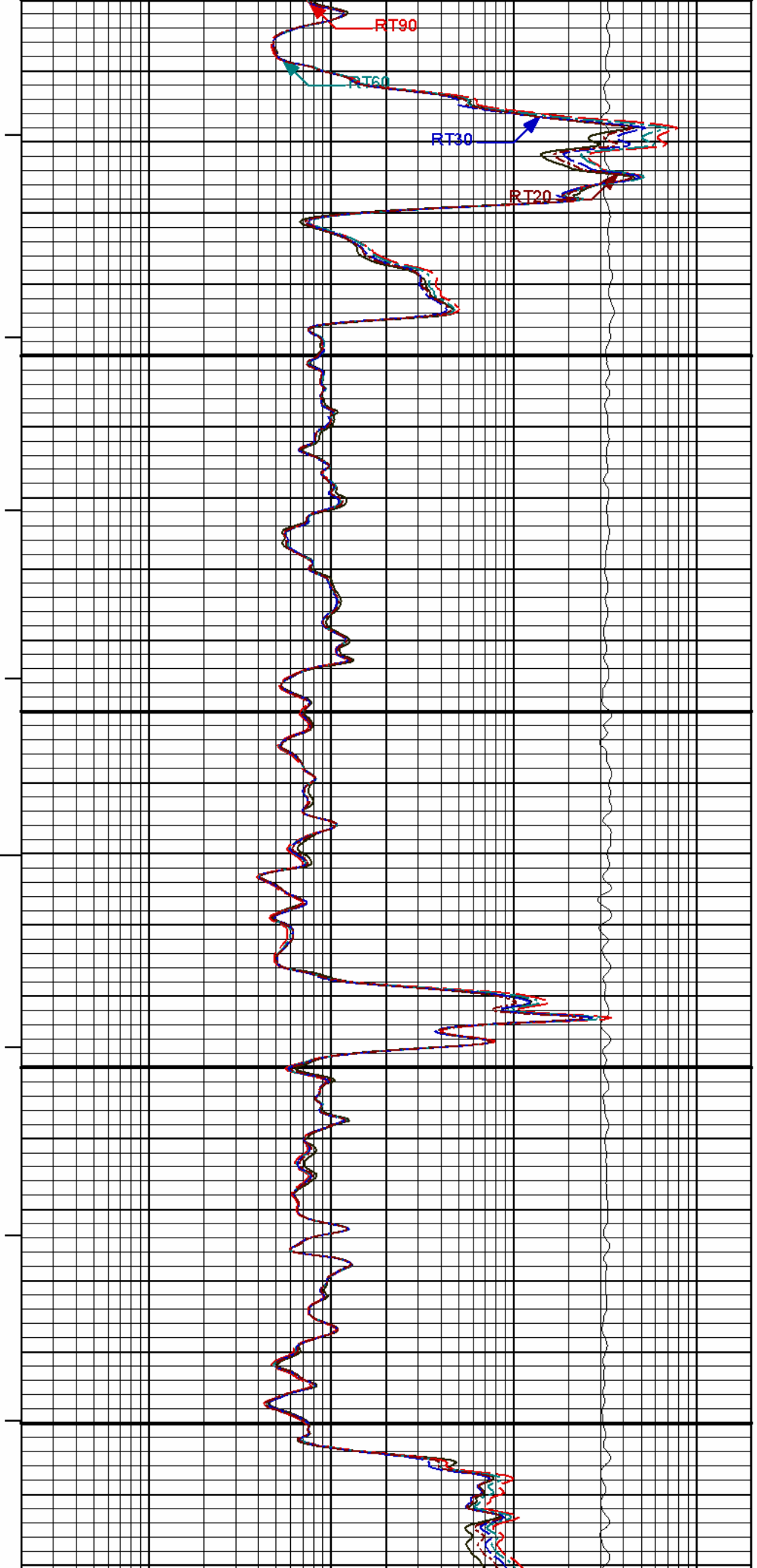


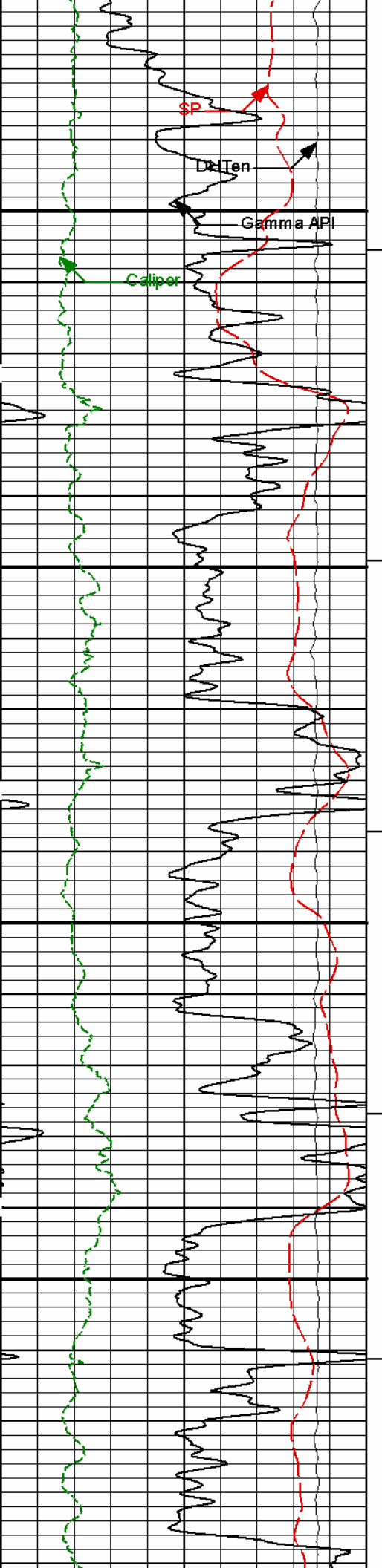


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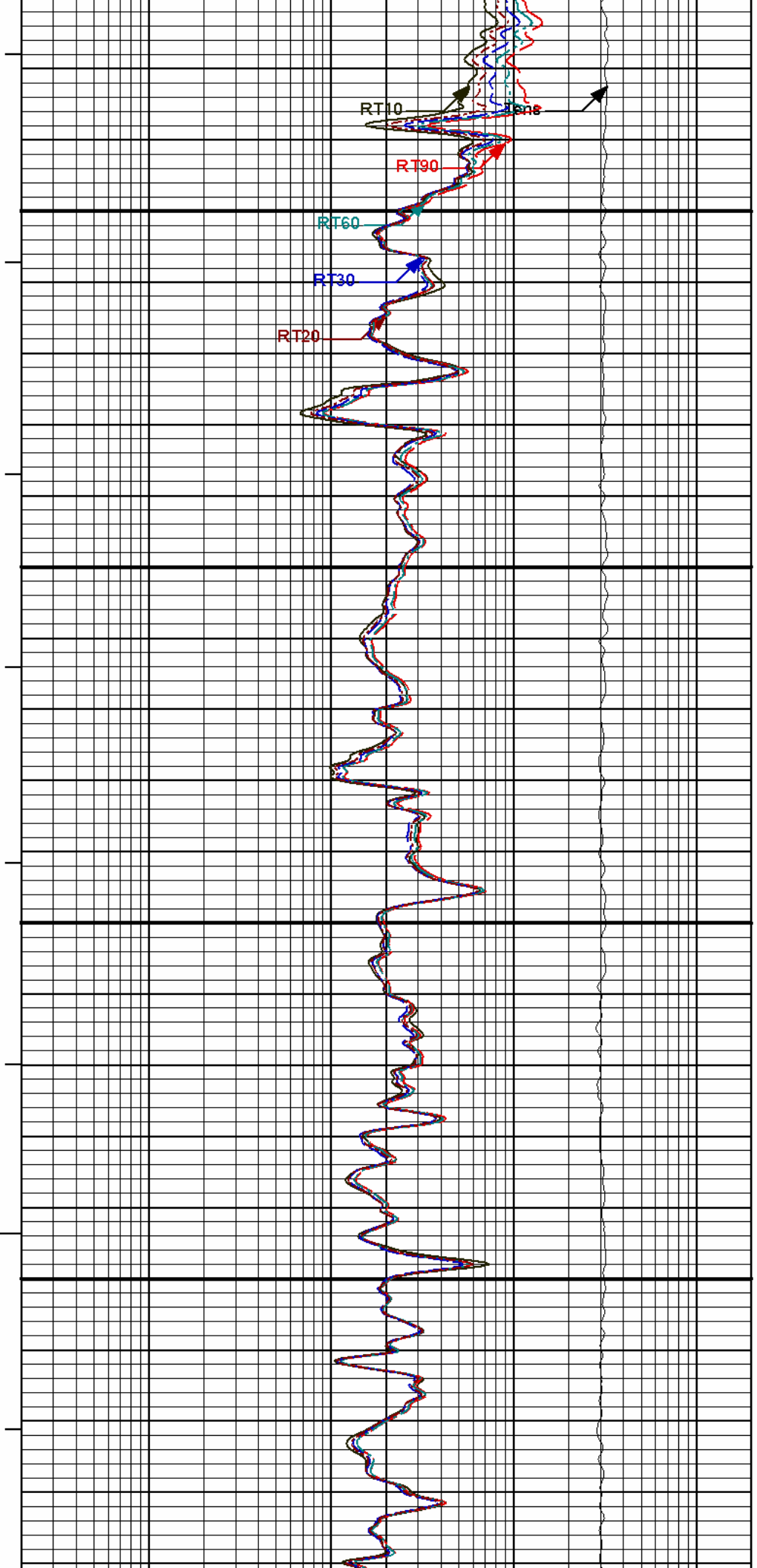
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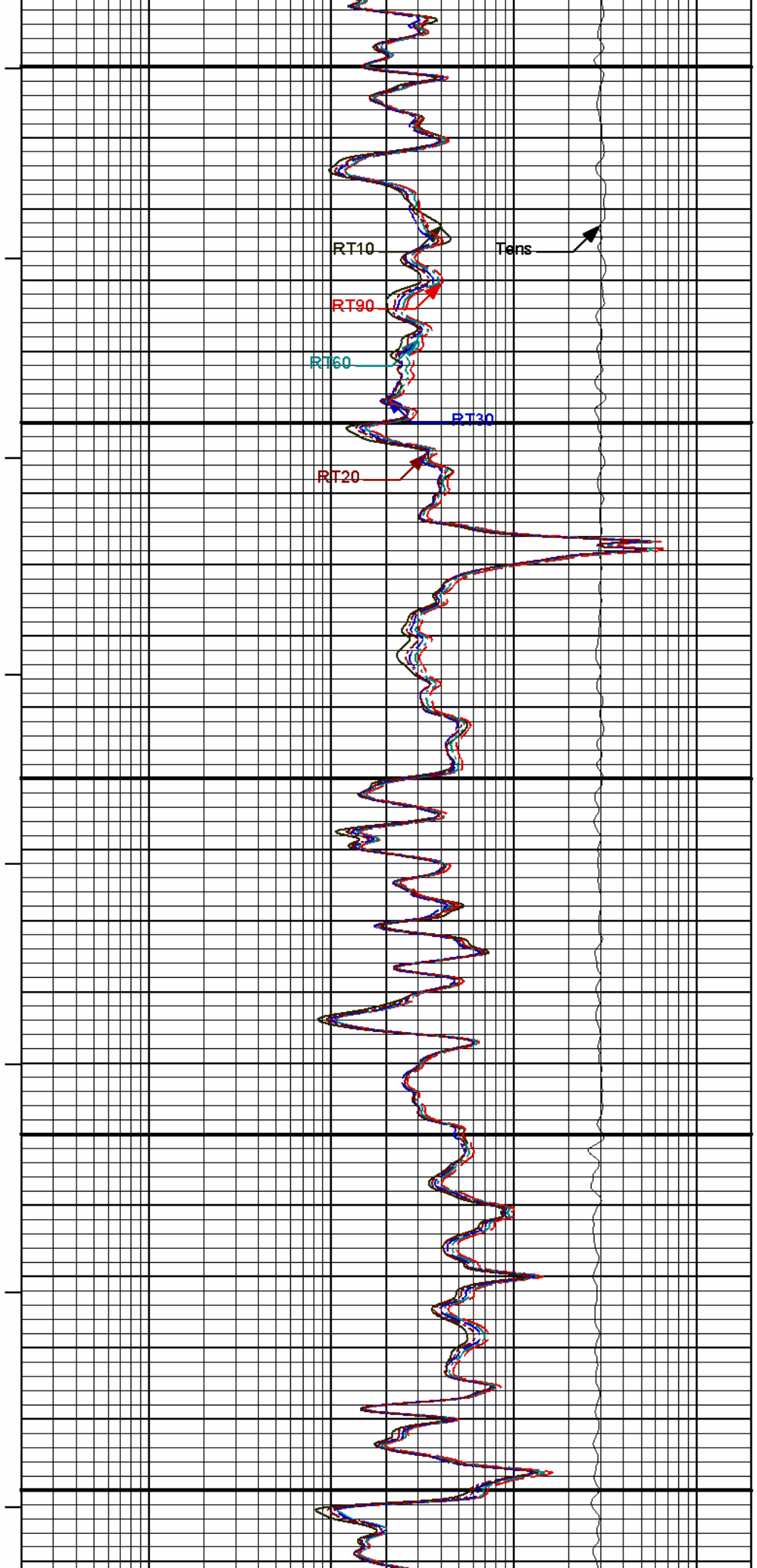
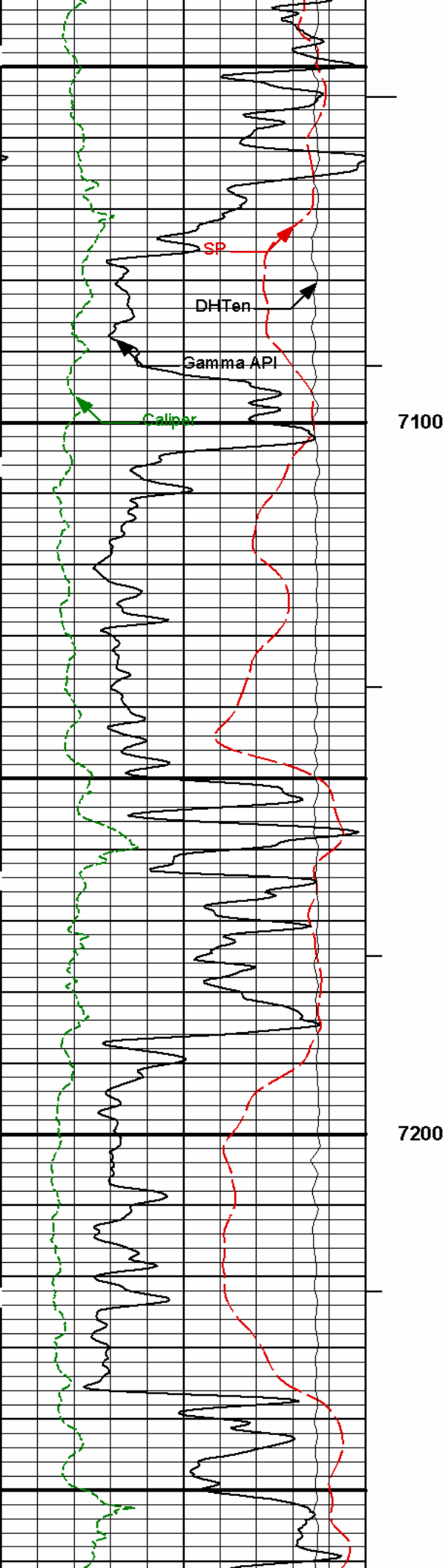


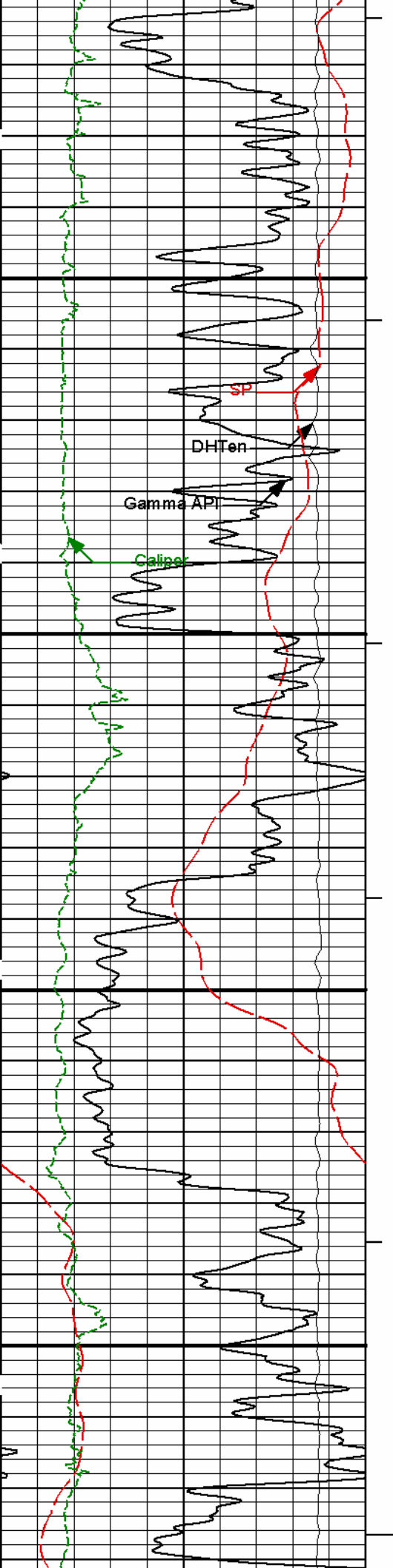


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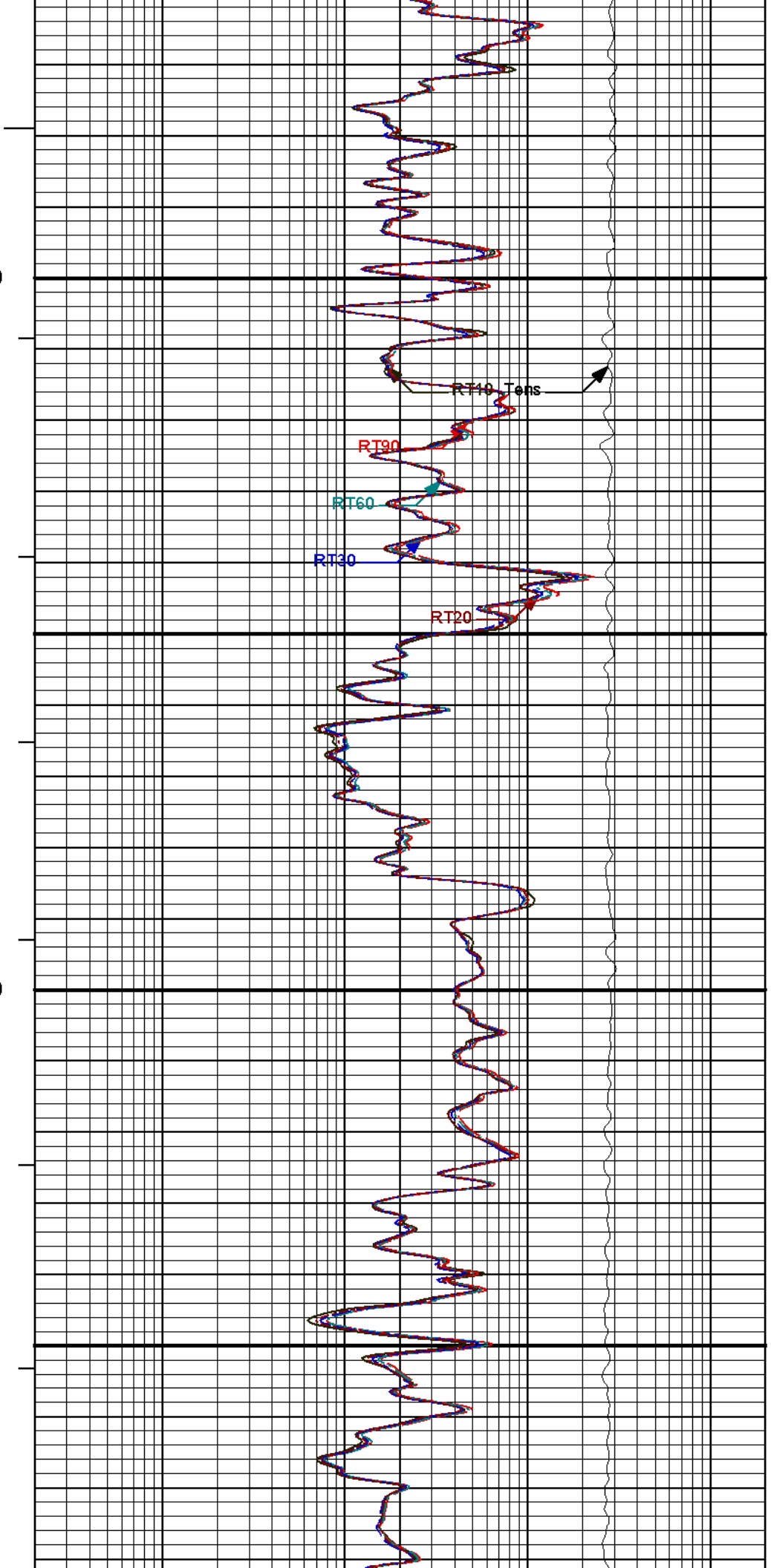


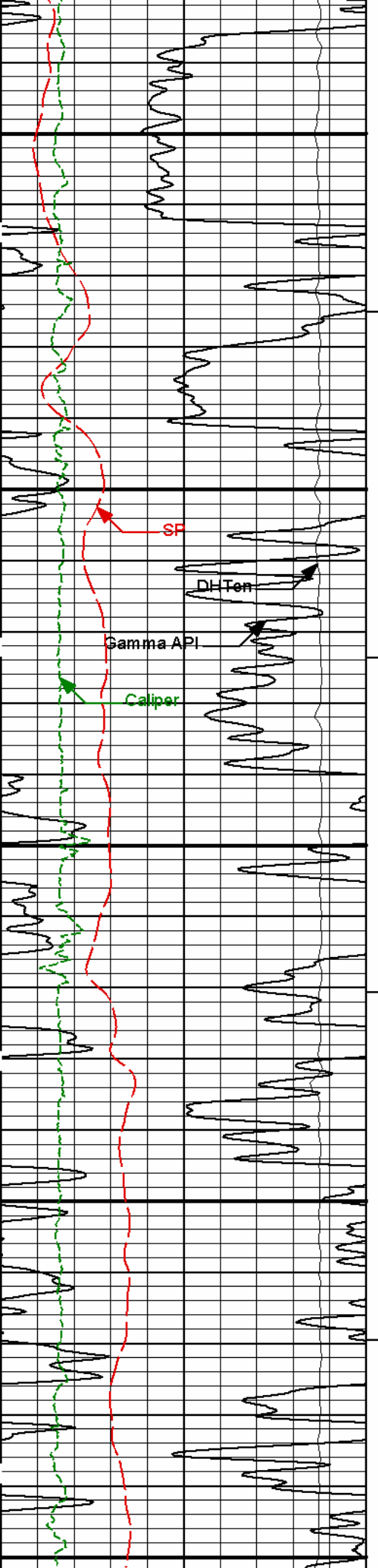




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7400

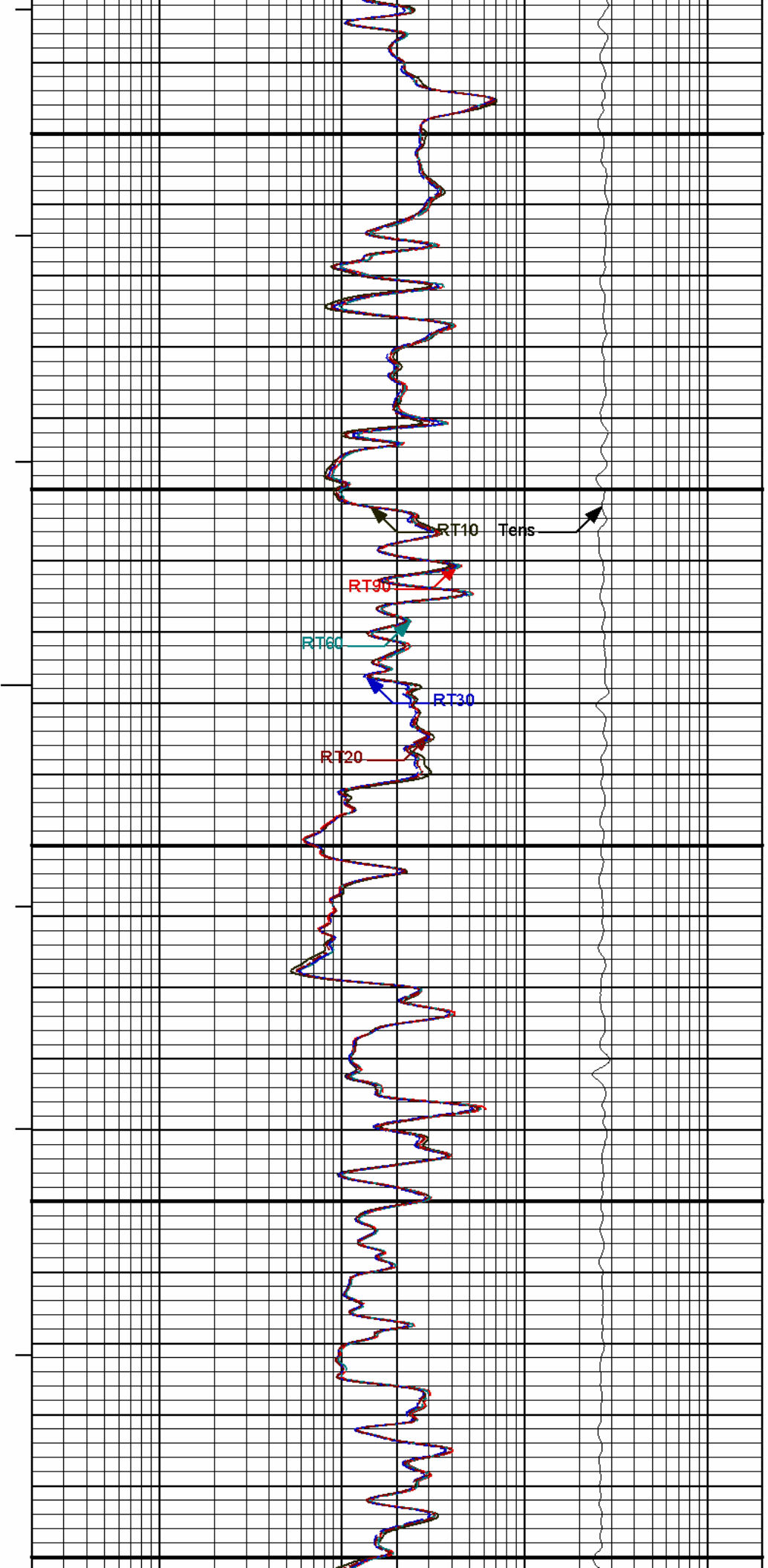


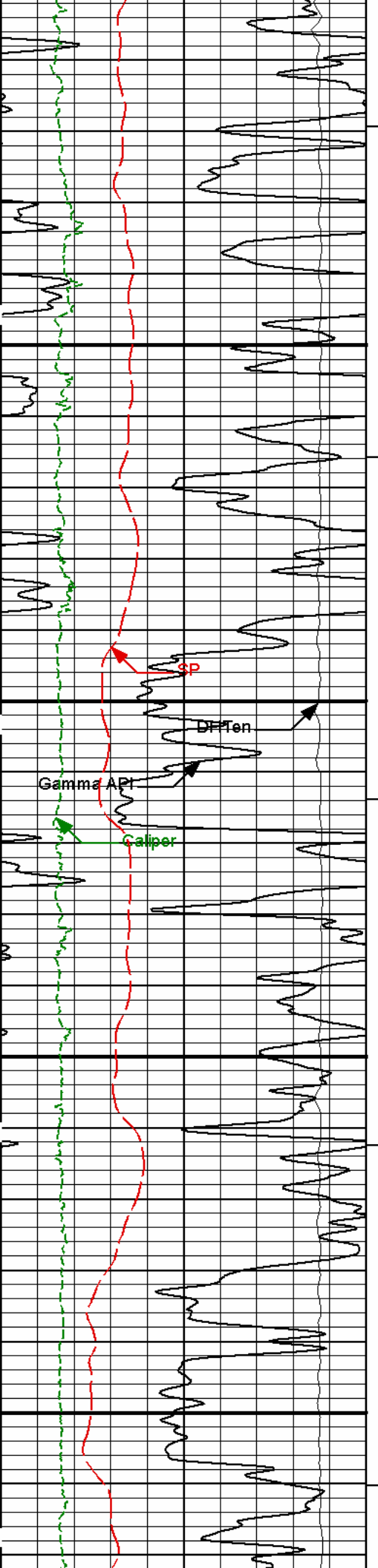


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7600

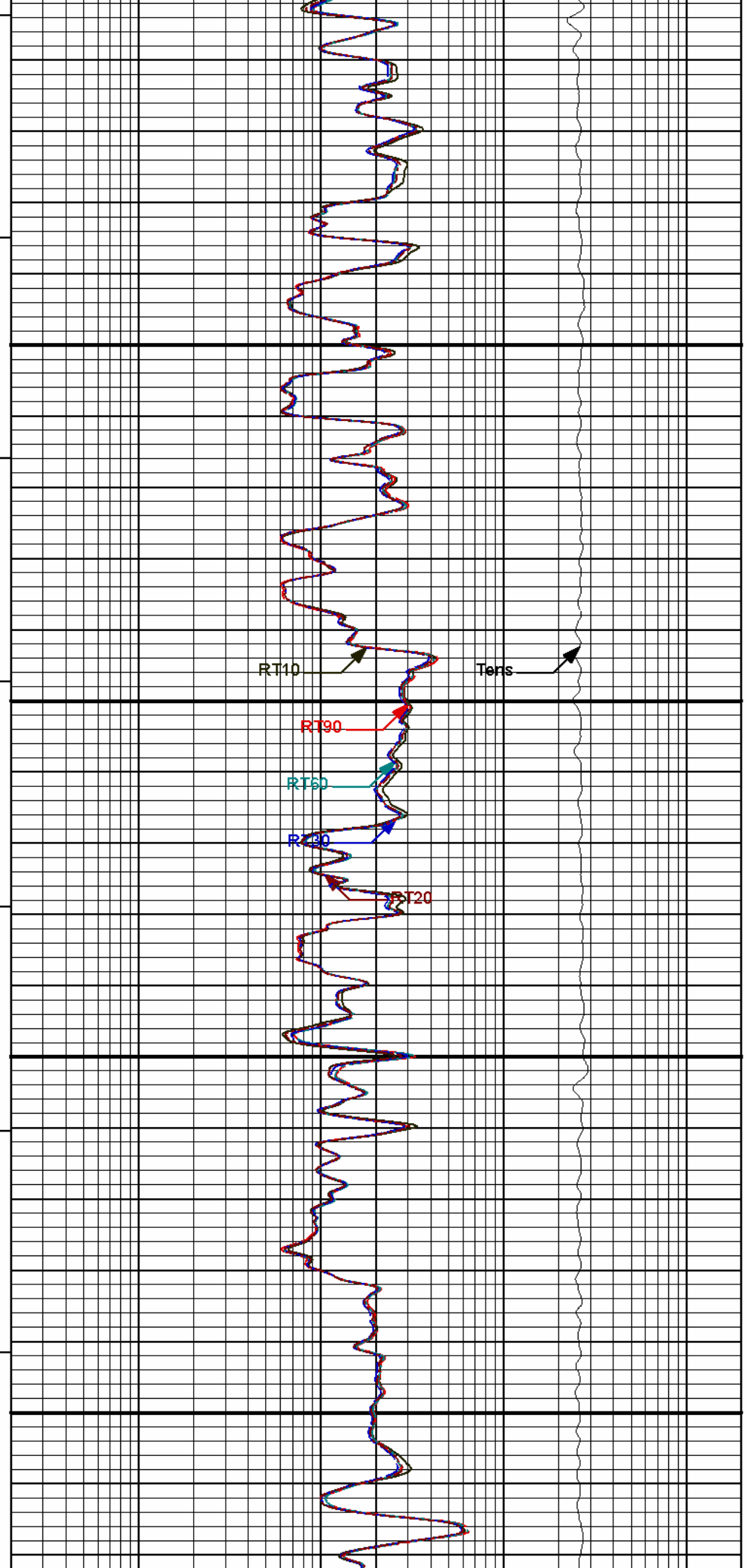
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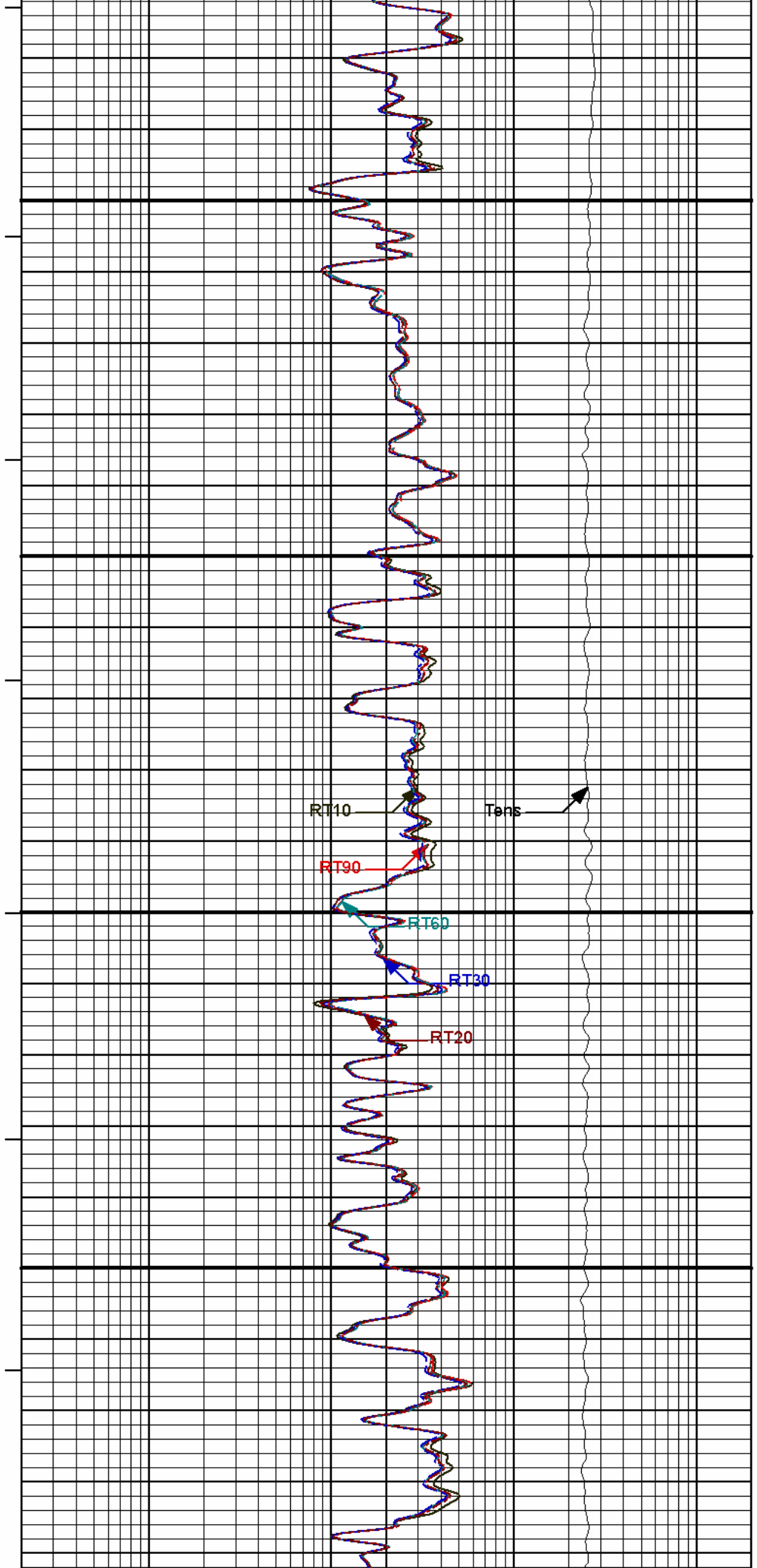
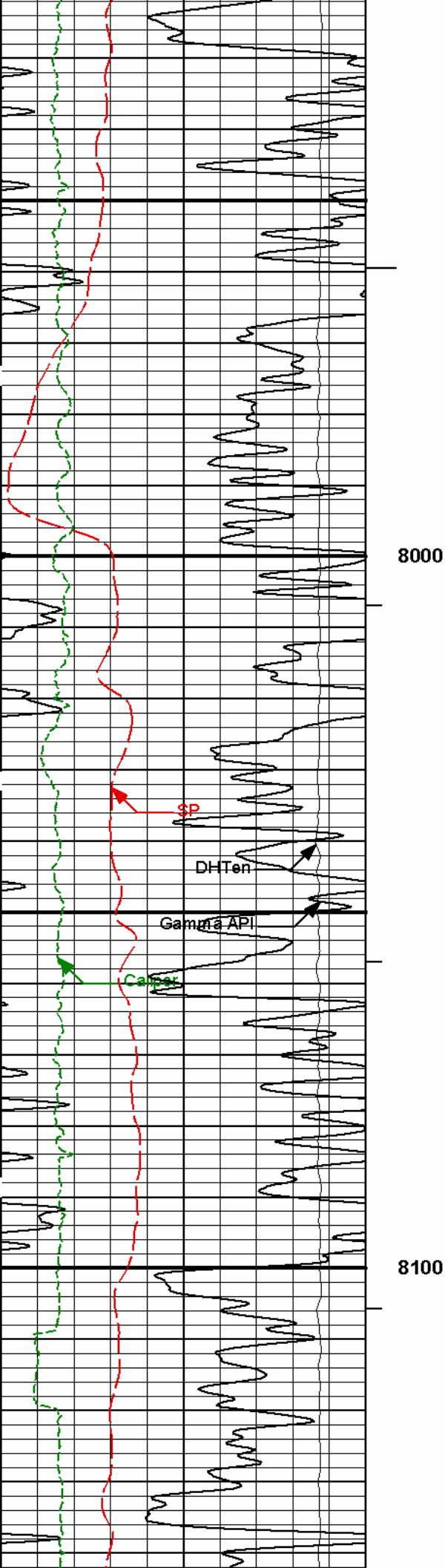


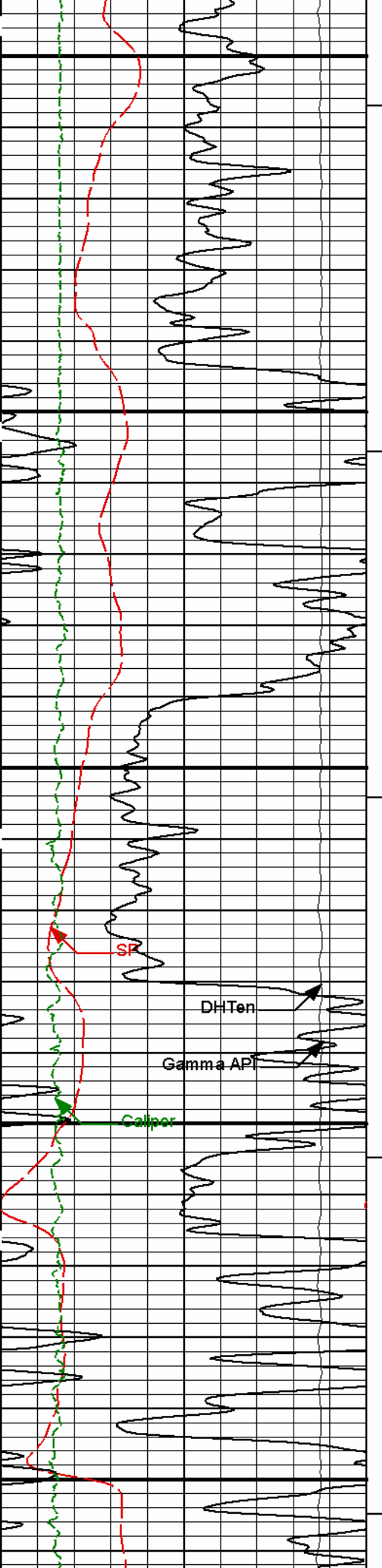


7800

7900

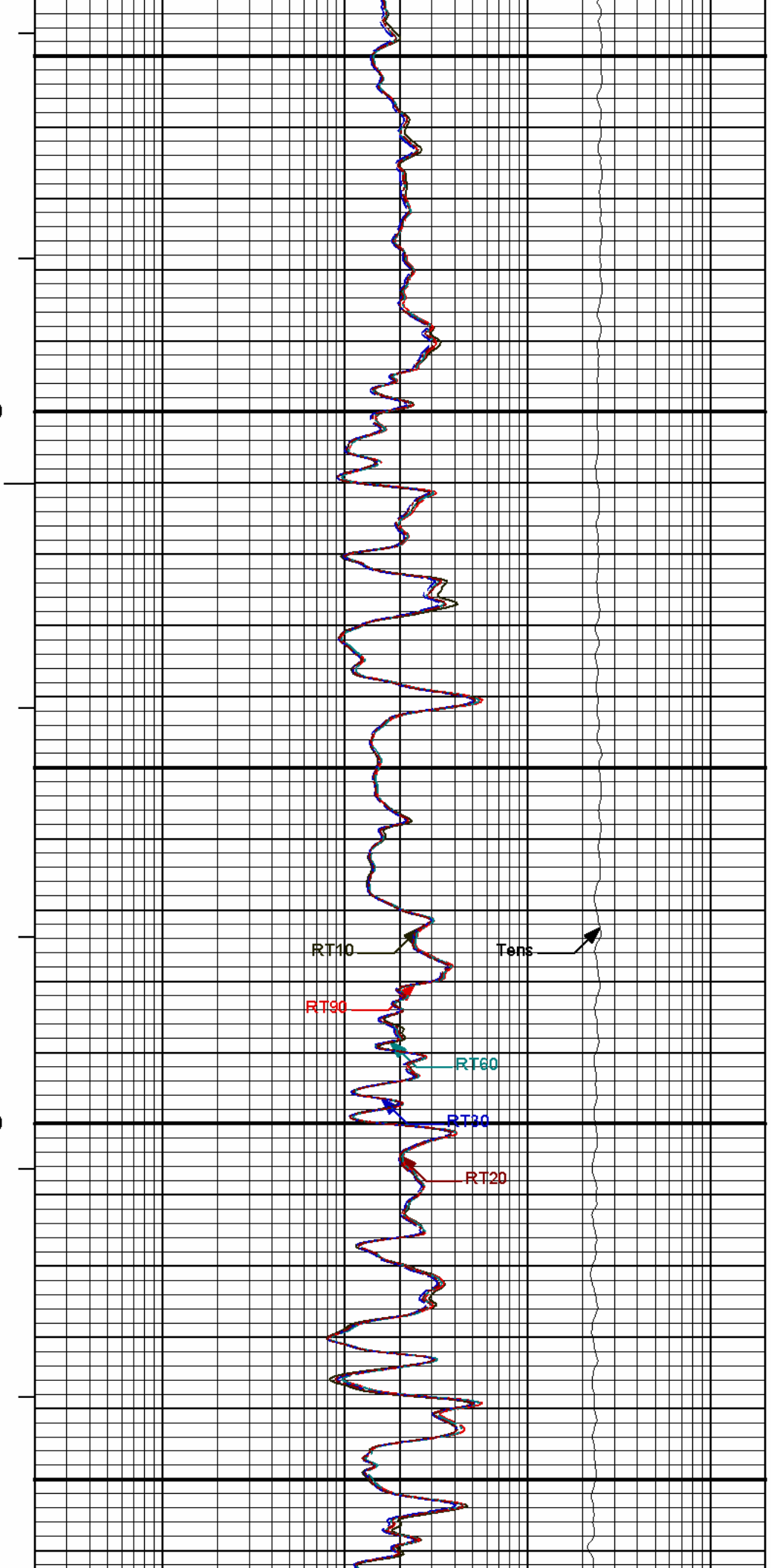


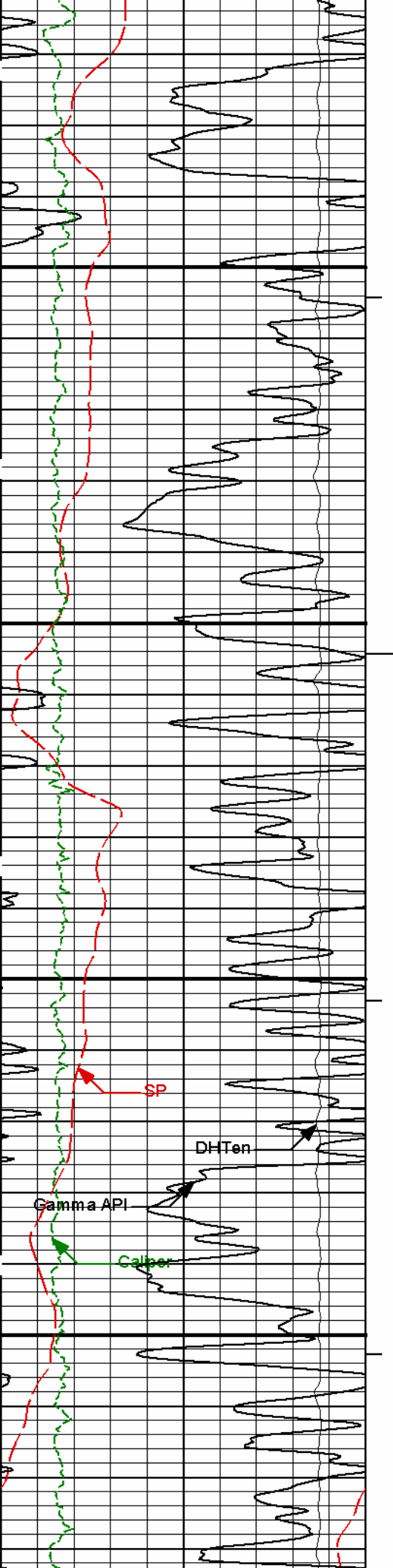




8200

8300





8400

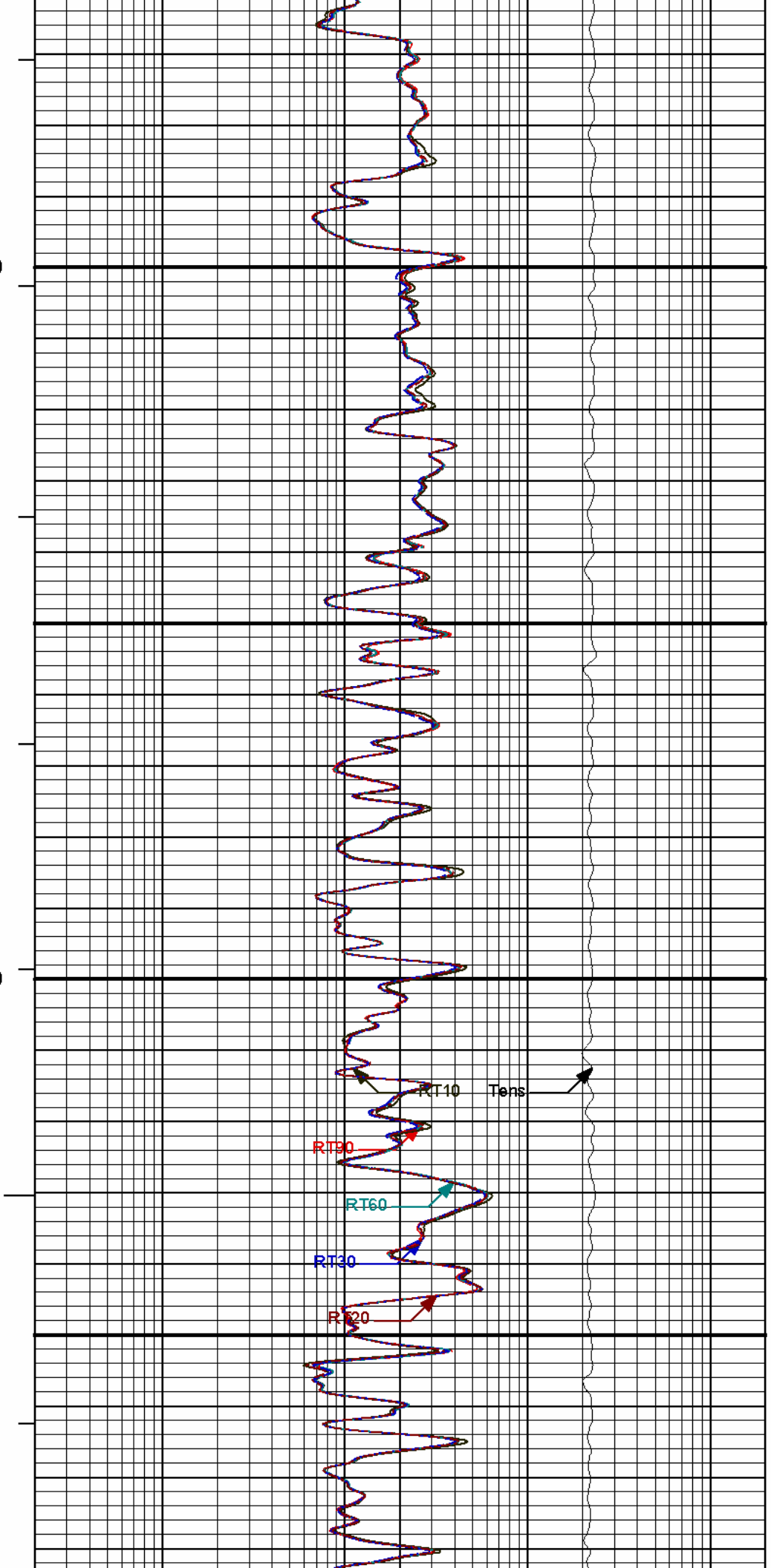
8500

SP

DHTen

Gamma API

Caliper



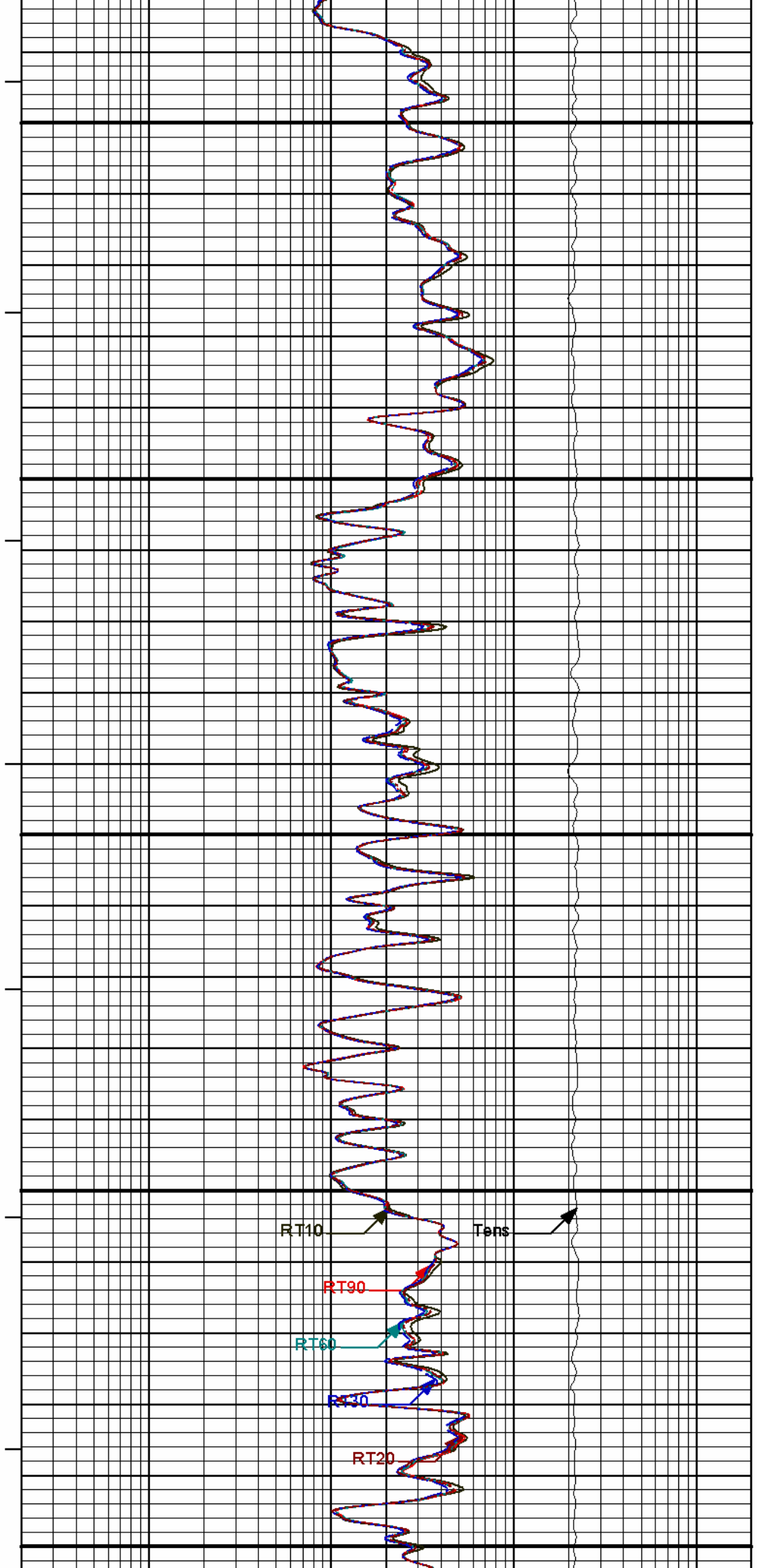
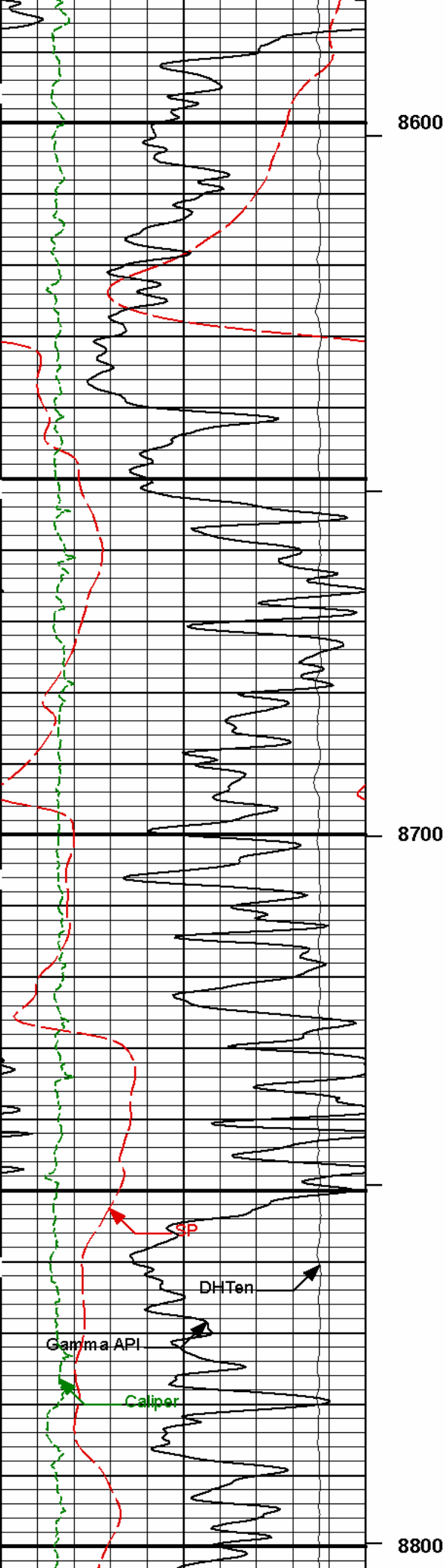
RT20

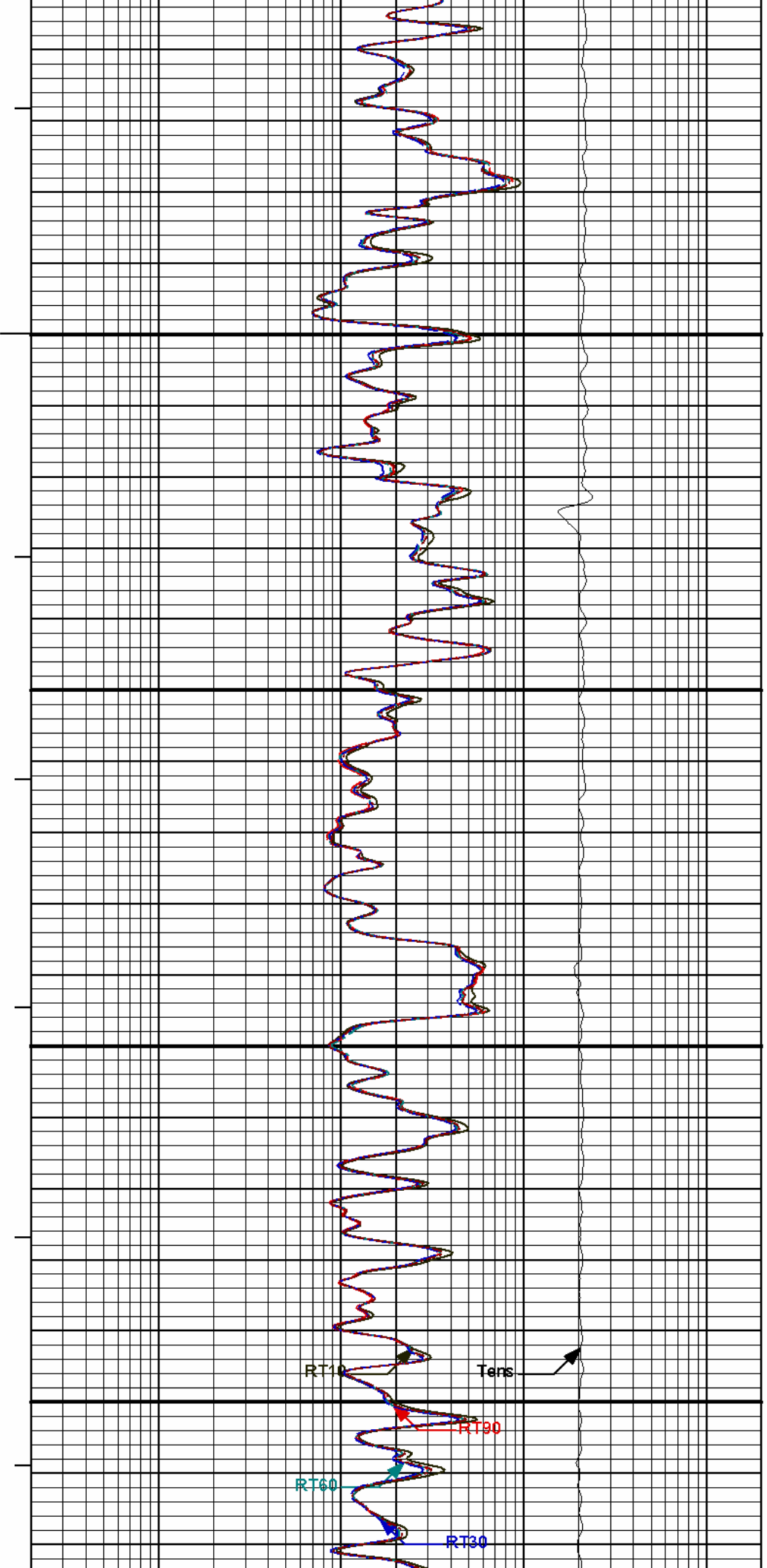
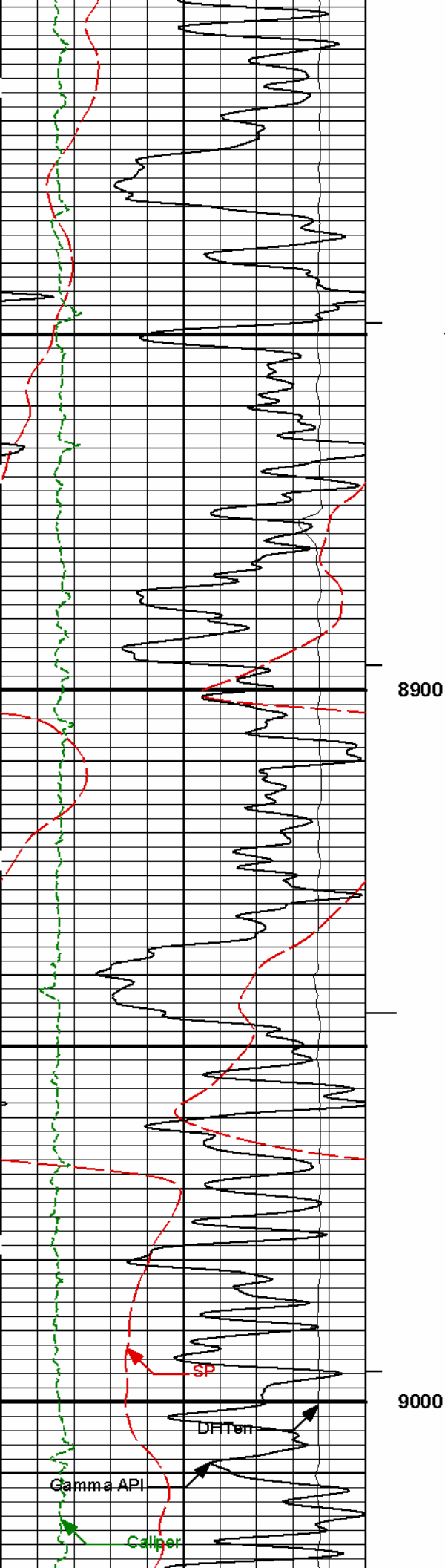
RT30

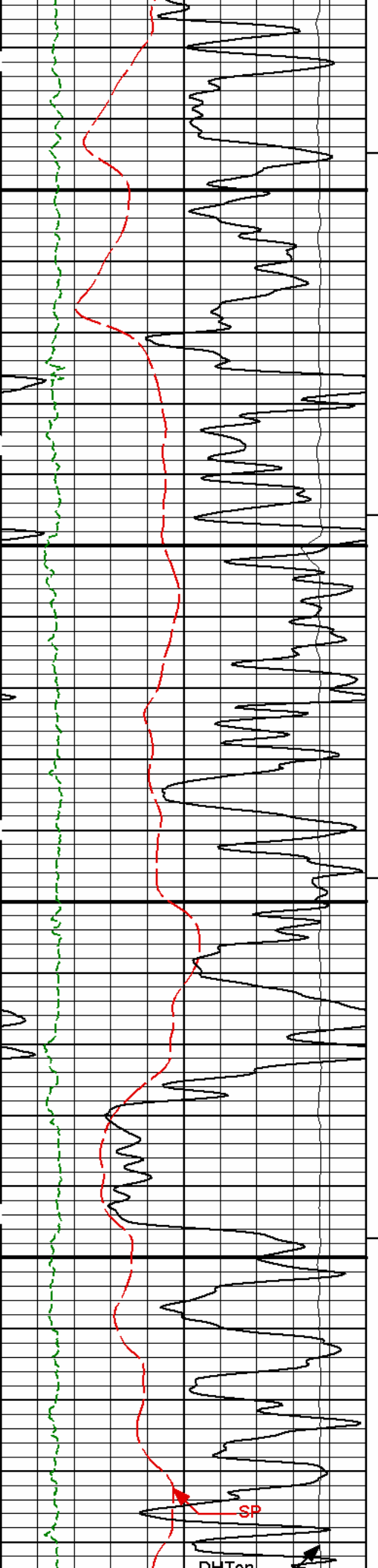
RT60

RT90

Tens

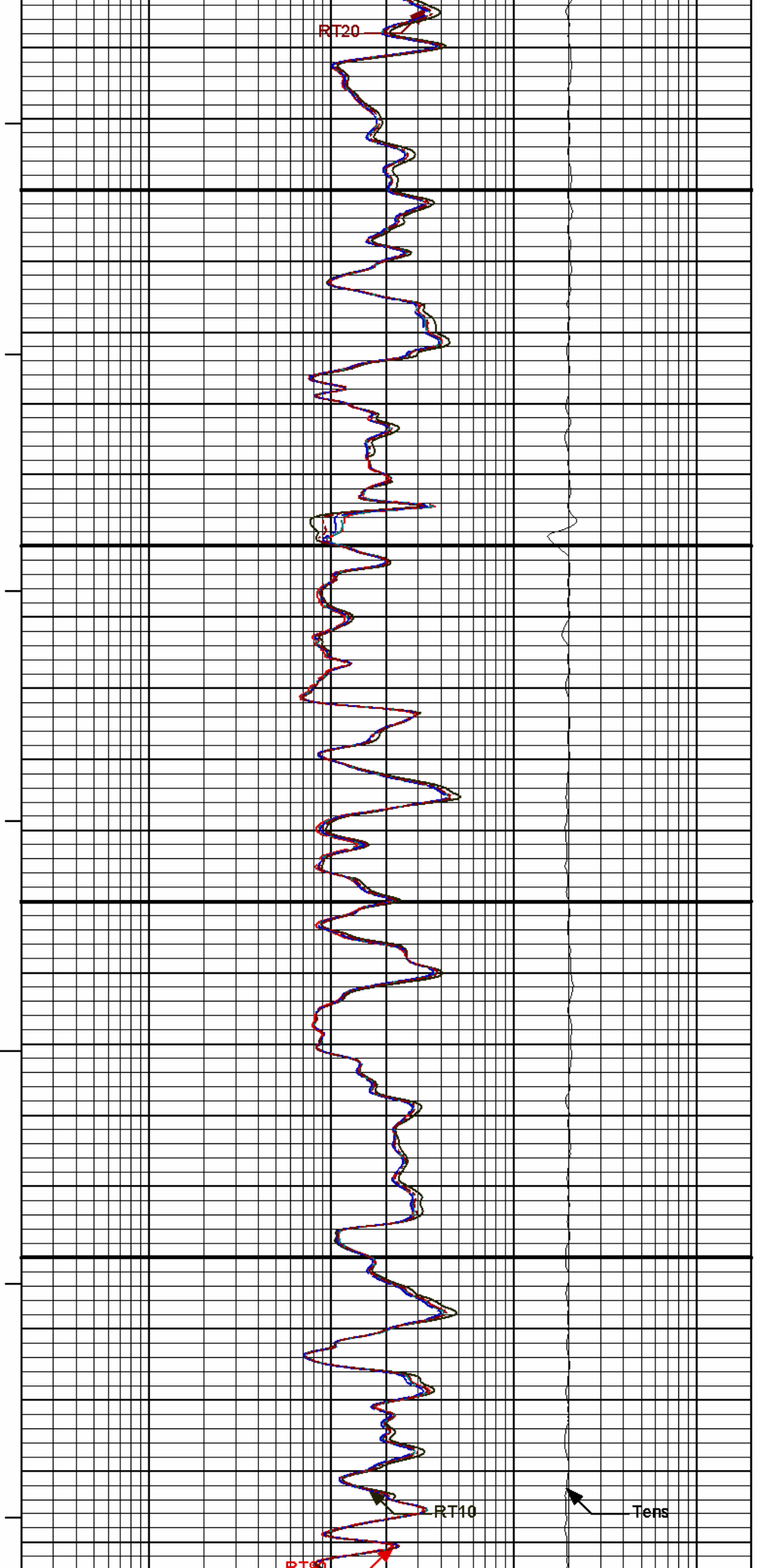


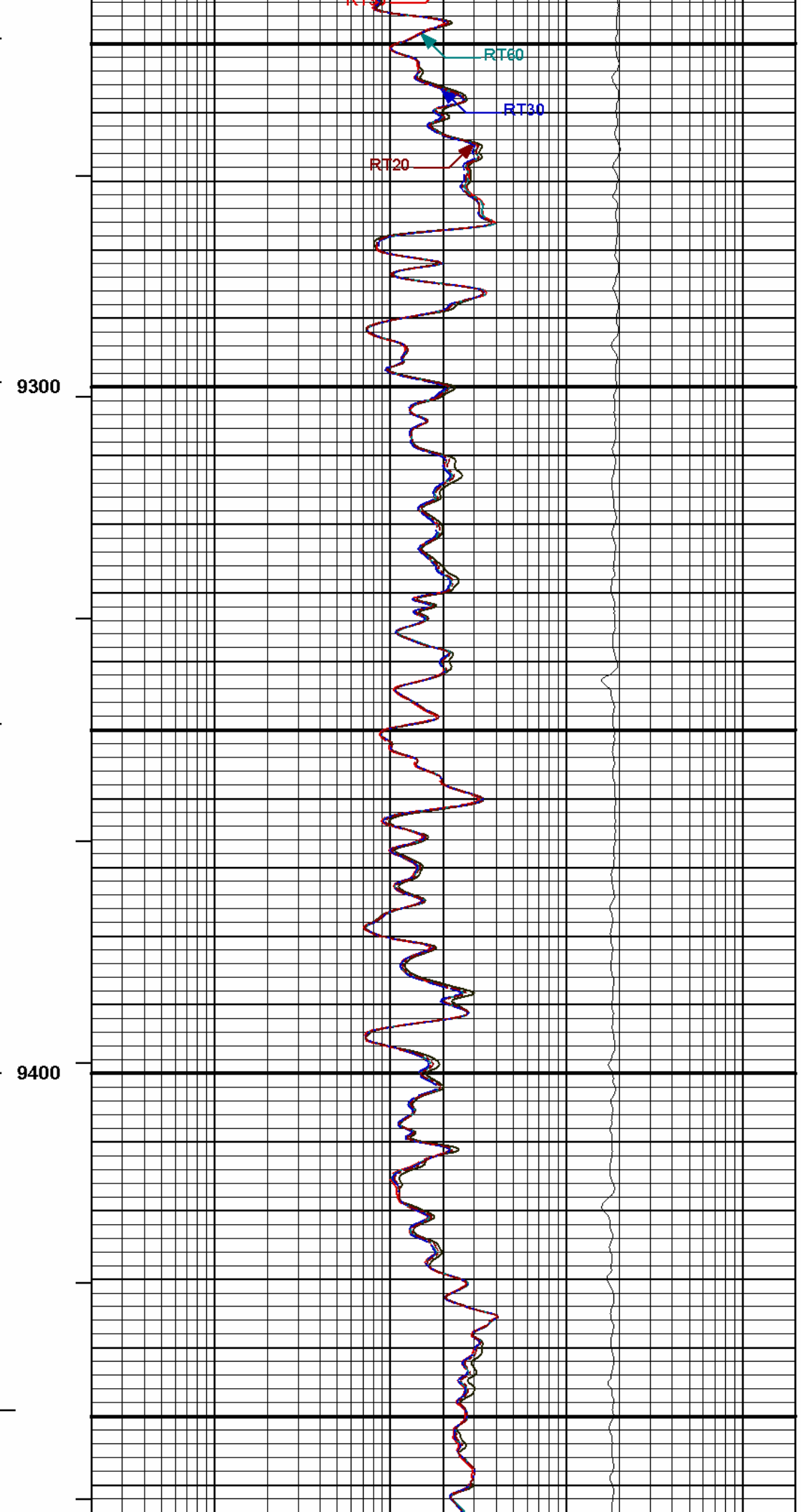
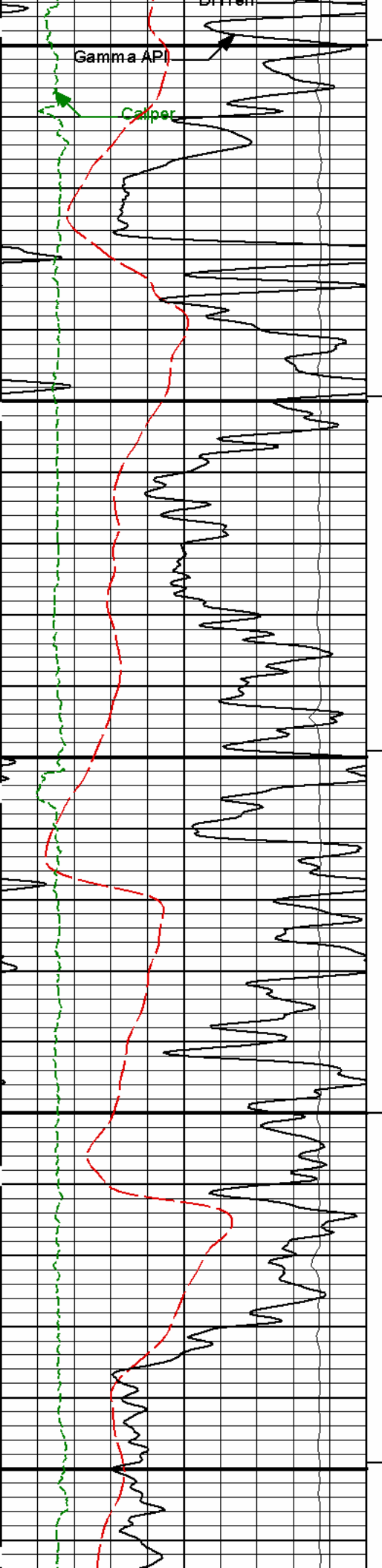


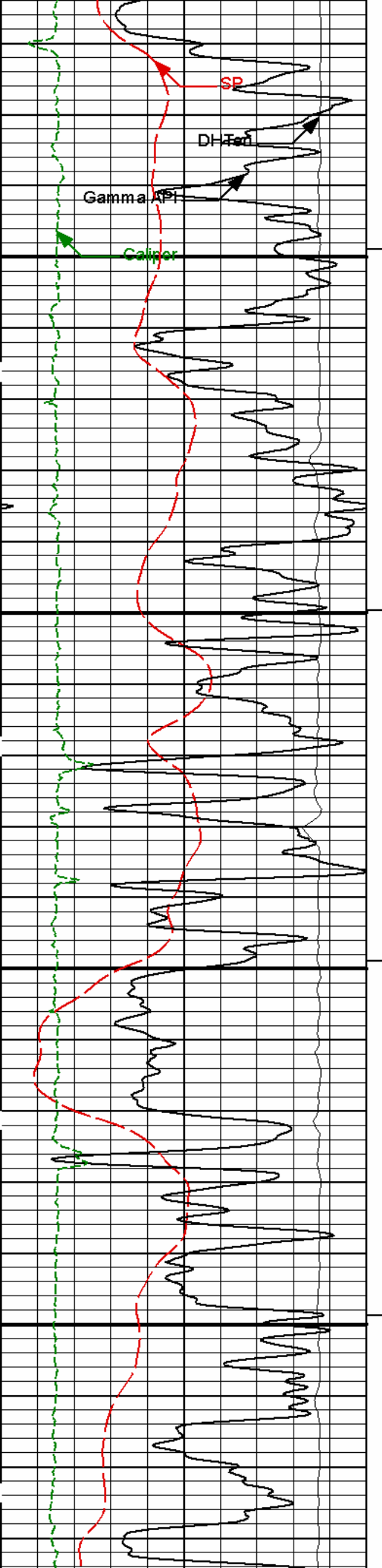


9100

9200

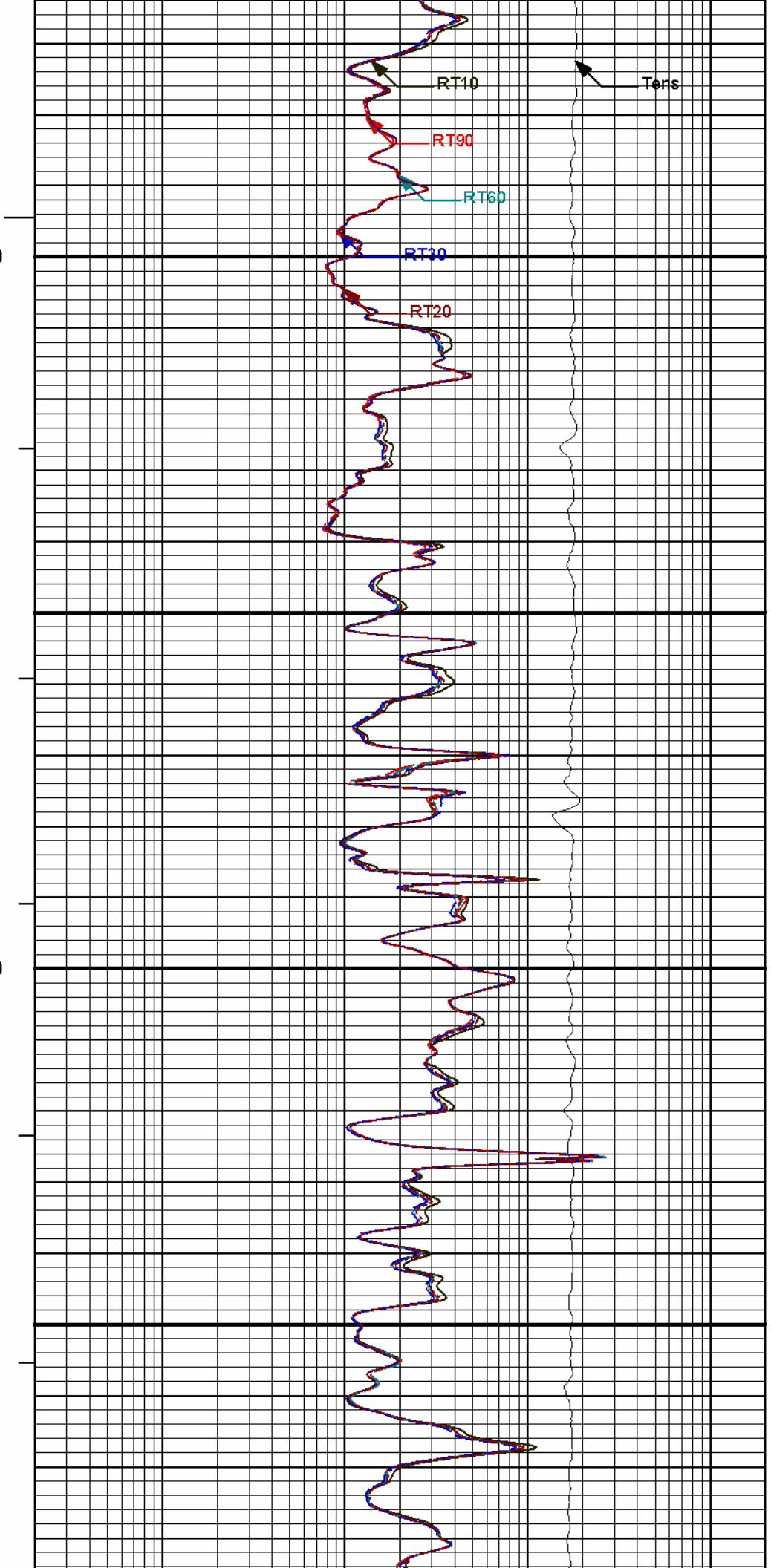


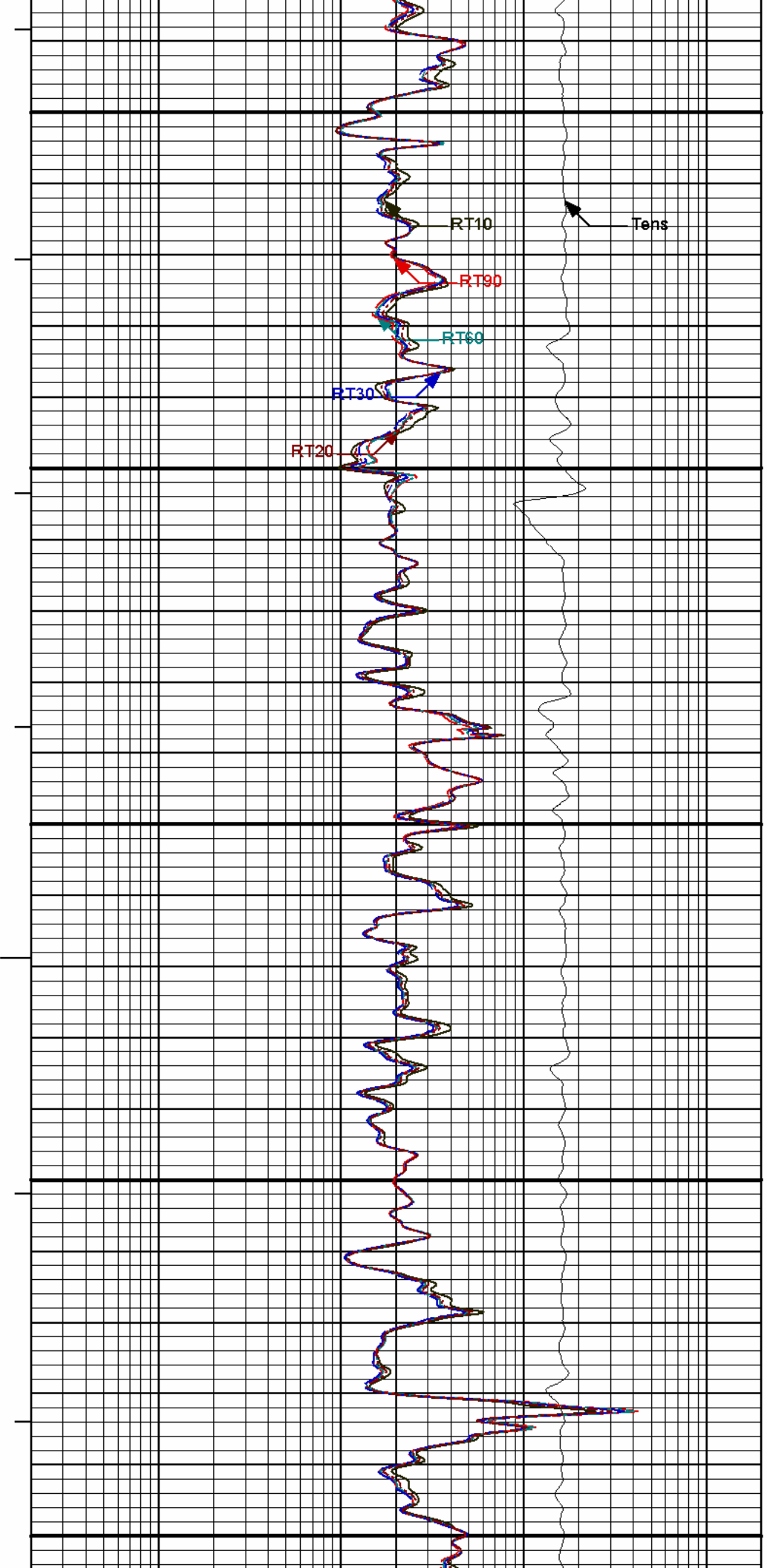
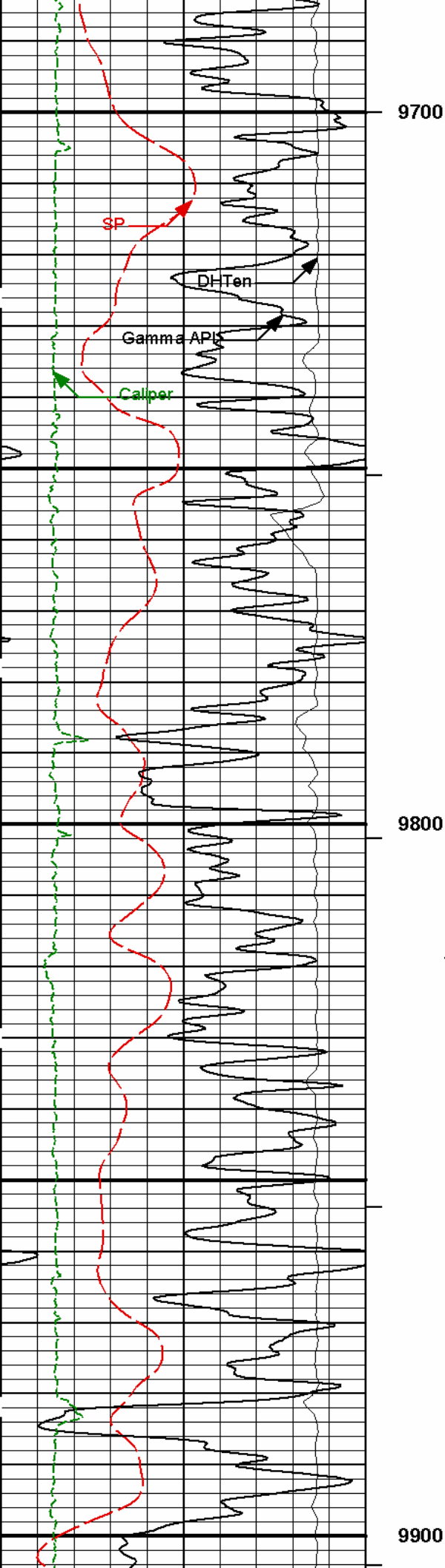


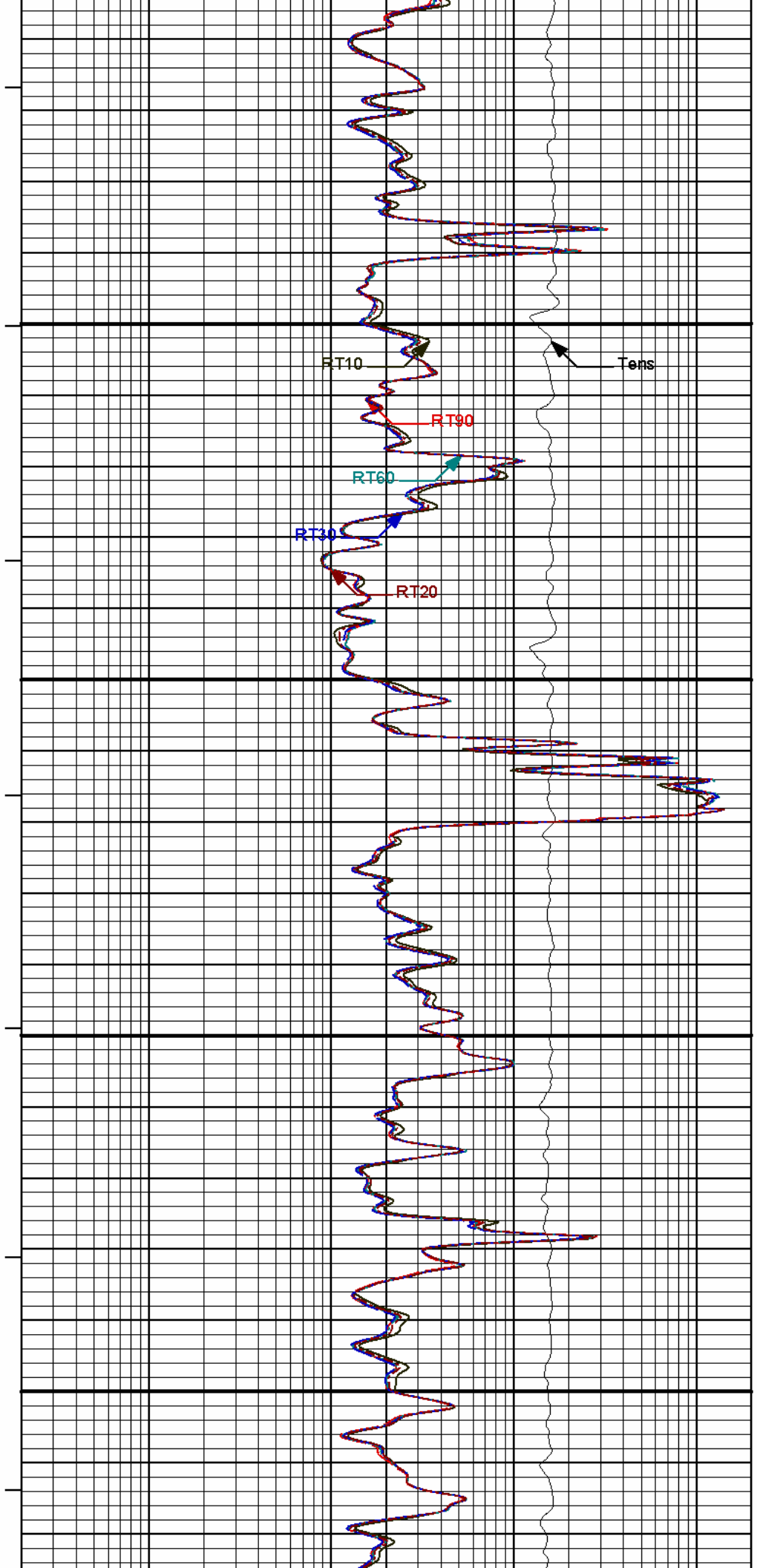
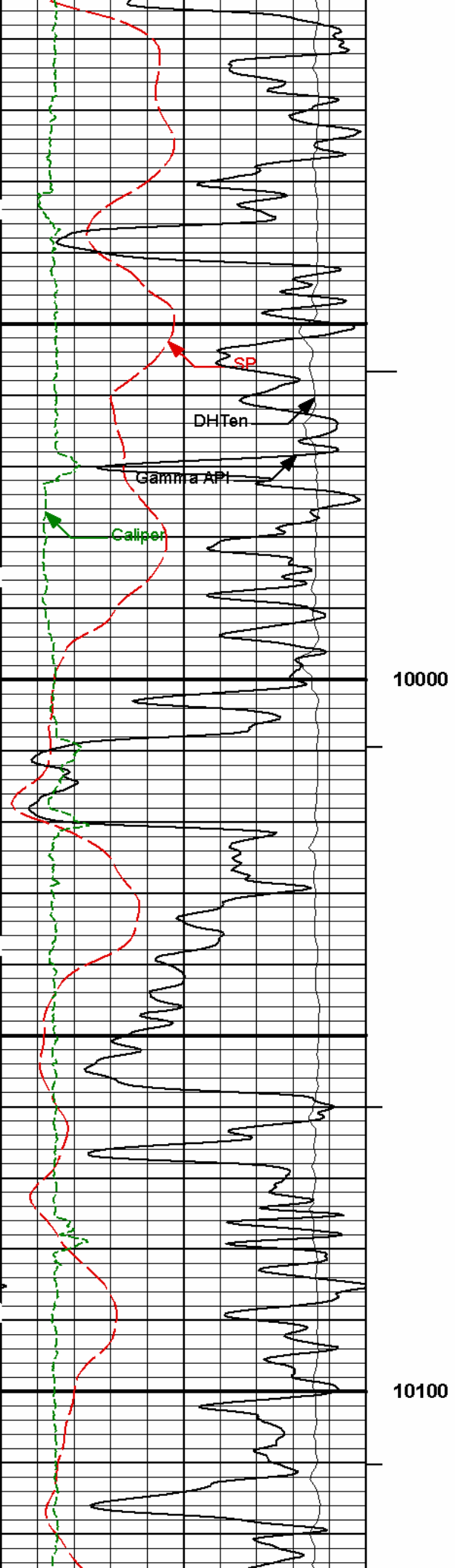


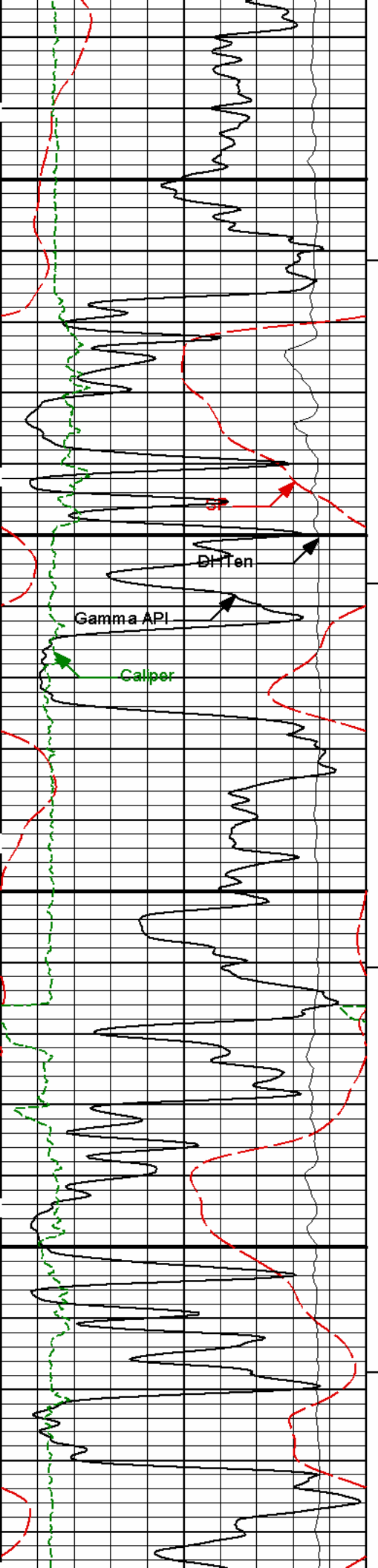
9500

9600



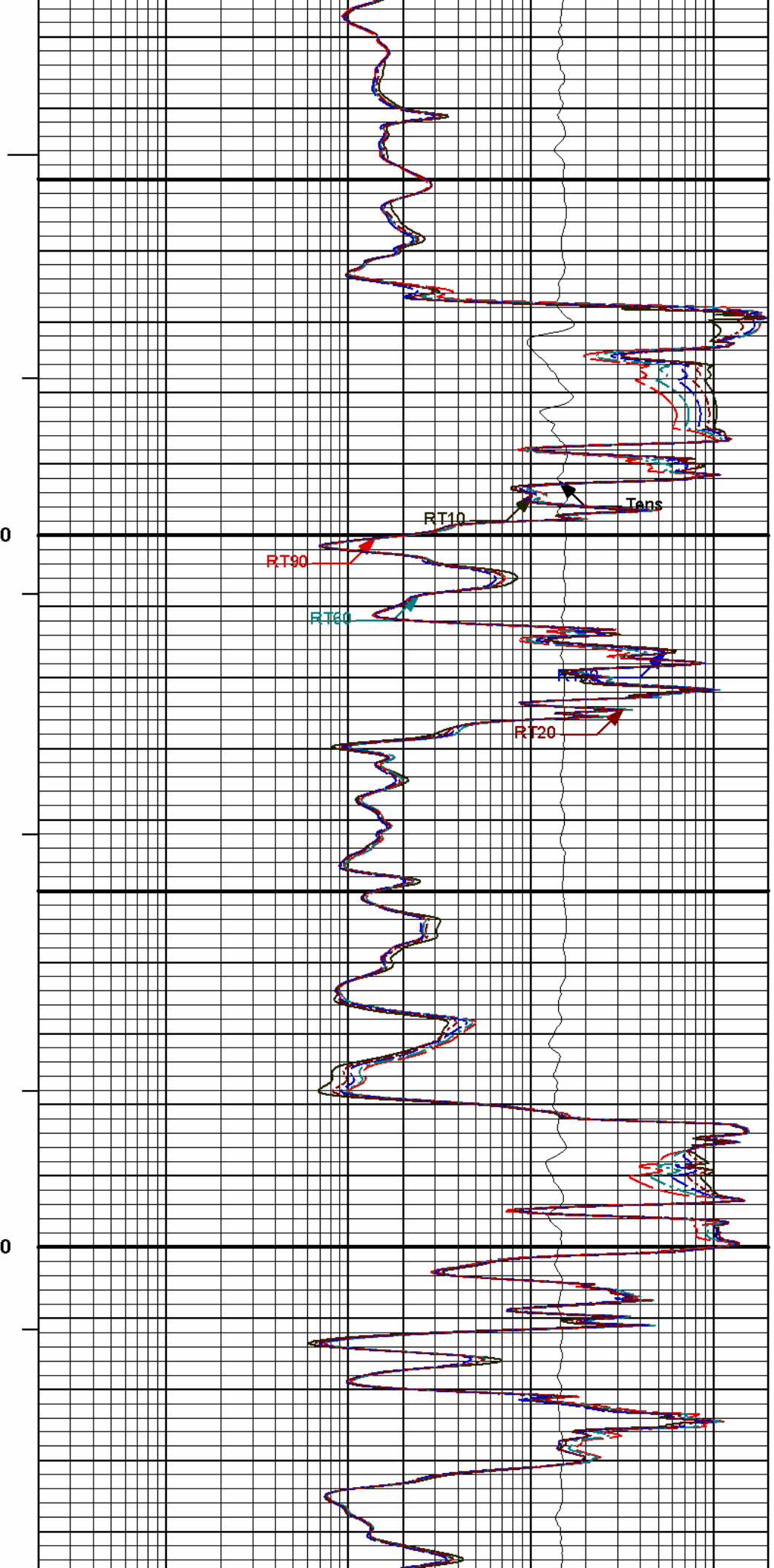


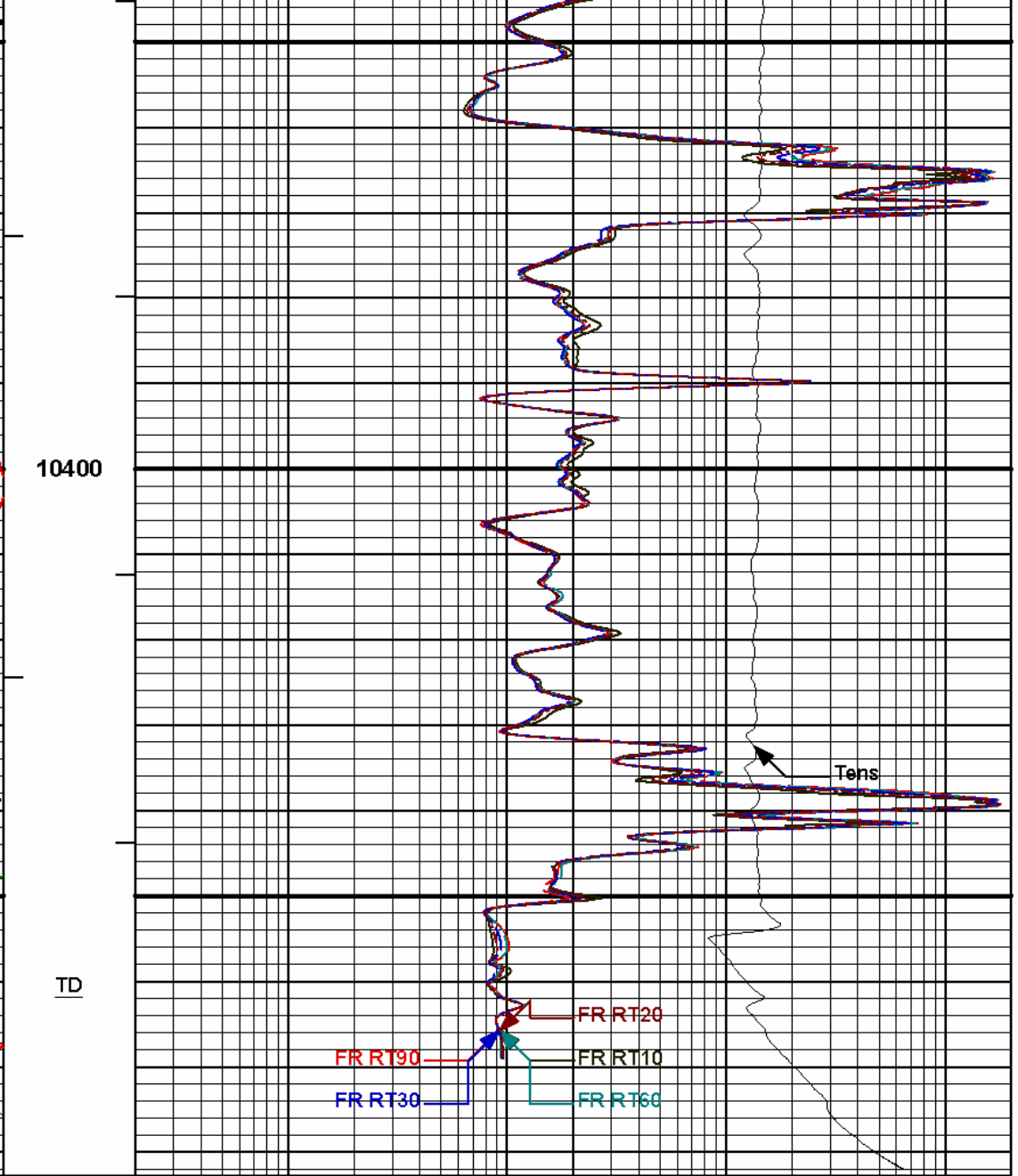
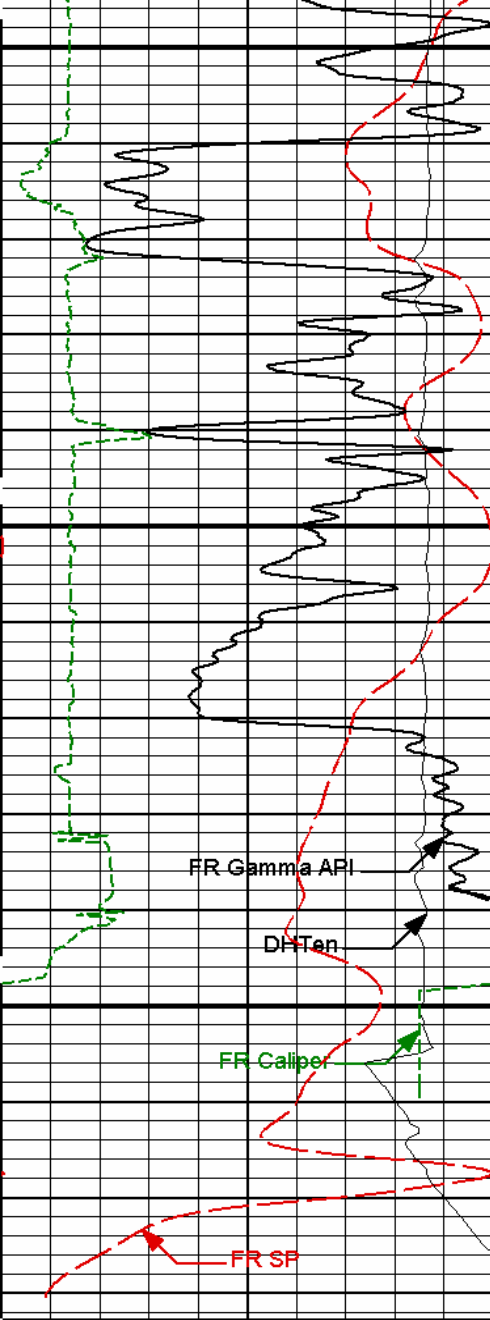




10200

10300

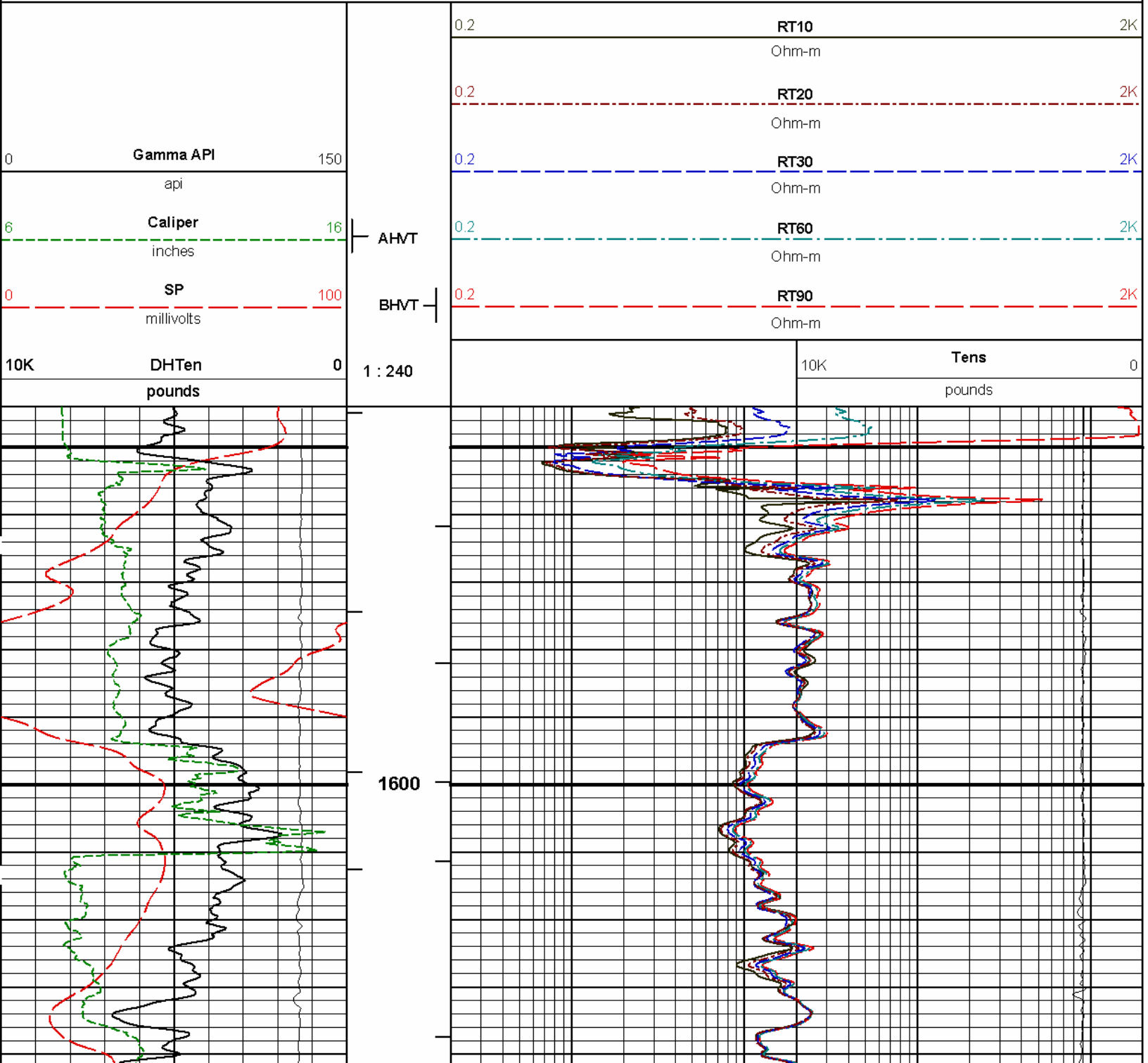


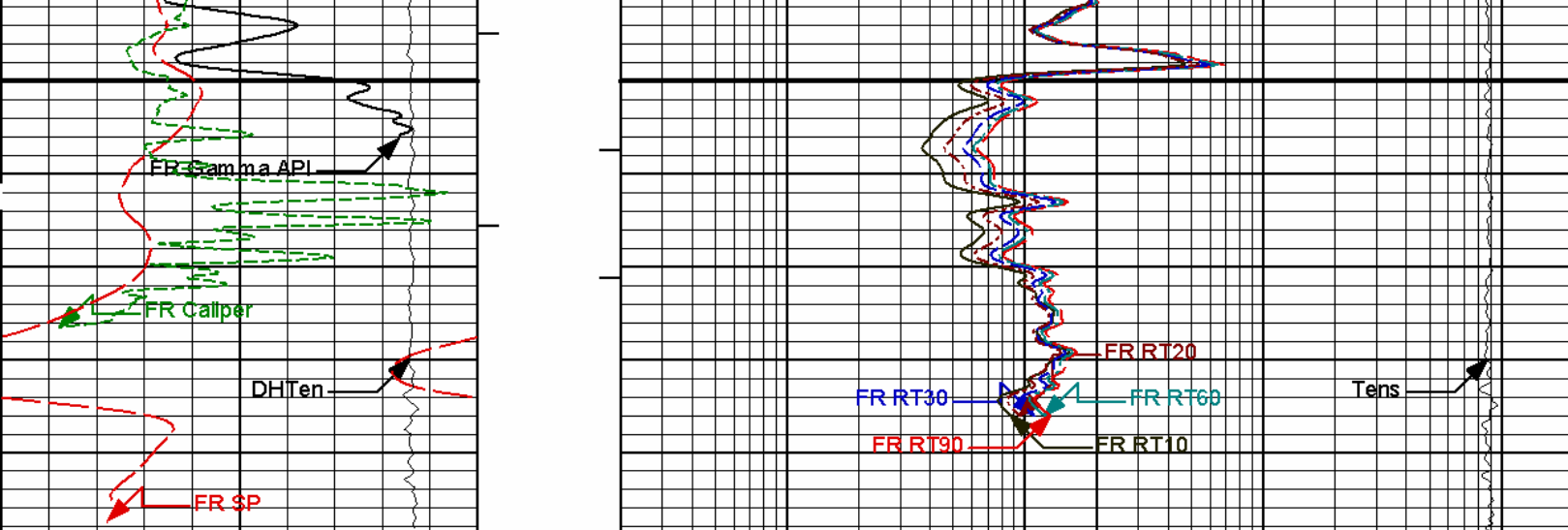


10K	DHTen	0
	pounds	
0	SP	100
	millivolts	
6	Caliper	16
	inches	
0	Gamma API	150
	api	

1 : 240	10K	Tens	0
		pounds	
BHVT	0.2	RT90	2K
		Ohm-m	
AHVT	0.2	RT60	2K
		Ohm-m	
	0.2	RT30	2K
		Ohm-m	
	0.2	RT20	2K
		Ohm-m	
	0.2	RT10	2K
		Ohm-m	

REPEAT SECTION 5" = 100'





10K	DHTen	0	1 : 240	10K	Tens	0
	pounds				pounds	
0	SP	100	BHVT	0.2	RT90	2K
	millivolts				Ohm-m	
6	Caliper	16	AHVT	0.2	RT60	2K
	inches				Ohm-m	
0	Gamma API	150		0.2	RT30	2K
	api				Ohm-m	
				0.2	RT20	2K
					Ohm-m	
				0.2	RT10	2K
					Ohm-m	

HALLIBURTON	Plot Time: 01-Apr-09 05:19:55 Plot Range: 1544 ft to 1698.5 ft Data: LAR_S_LE_18_05DIWell Based\REPEAT\ Plot File: \\ACRT\BP_5IN_ACRT
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REPEAT SECTION 5" = 100'

HALLIBURTON
CALIBRATION REPORT

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		ACRt - E332S570				Reference Calibration Date:		12-Feb-09 13:39:03	
Engineer:		W. MATSON				Calibration Date:		12-Mar-09 15:20:33	
Software Version:		WL INSITE R2.4 (Build 1)				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	0.9930	1.05	0.95	0.9954	1.05	0.95	0.9933	1.05
A2 (50")	0.95	0.9987	1.05	0.95	1.0040	1.05	0.95	1.0040	1.05

A3 (29")	0.95	0.9922	1.05	0.95	0.9964	1.05	0.95	0.9954	1.05
A4 (17")	0.95	0.9885	1.05	0.95	0.9911	1.05	0.95	0.9940	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9858	1.05	0.95	0.9882	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9929	1.05	0.95	0.9965	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	-2.186	2	-6	-4.250	-2	-8	-4.516	-2
A2 (50")	-7	-1.766	-2	-6	-3.215	-2	-7	-4.694	-2
A3 (29")	-27	-9.628	-9	-9	-2.959	-3	-7	-2.789	-1
A4 (17")	-180	-103.563	-60	-45	-32.415	-15	-39	-25.494	-13
A5 (10")	N/A	N/A	N/A	-150	-95.883	-50	-80	-48.822	-10
A6 (6")	N/A	N/A	N/A	175	352.001	525	90	181.201	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8725	1.3
36K	1.0	1.2330	2.0
72K	1.0	1.6010	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohmm)	Upper (ohm-m)
Mud Cell	0.95	1.003	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
ACRt-E332S570						
Mud Cell	1.003	-----	-----	0.000	-----	ohmm

Data: LAR_S_LE_18_05DI0001 TRIPLE-REDIDLE

Date: 01-Apr-09 04:13:07

HALLIBURTON

CUSTOMER EVENT LOG

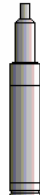
Event Type	Time & Date	Depth (ft)	Event Description
	01-Apr-09 00:49:13	1698.75	Logging 001 01-Apr-09 00:49 Up @1698.8f
	01-Apr-09 00:54:53	1433.41	Halting 001 01-Apr-09 00:49 Up @1698.8f
	01-Apr-09 00:55:37	1345.00	Logging 002 01-Apr-09 00:55 Dn @1345.0f
	01-Apr-09 02:09:26	10197.51	Halting 002 01-Apr-09 00:55 Dn @1345.0f
	01-Apr-09 02:16:15	10482.75	Logging 003 01-Apr-09 02:16 Up 10482.8f

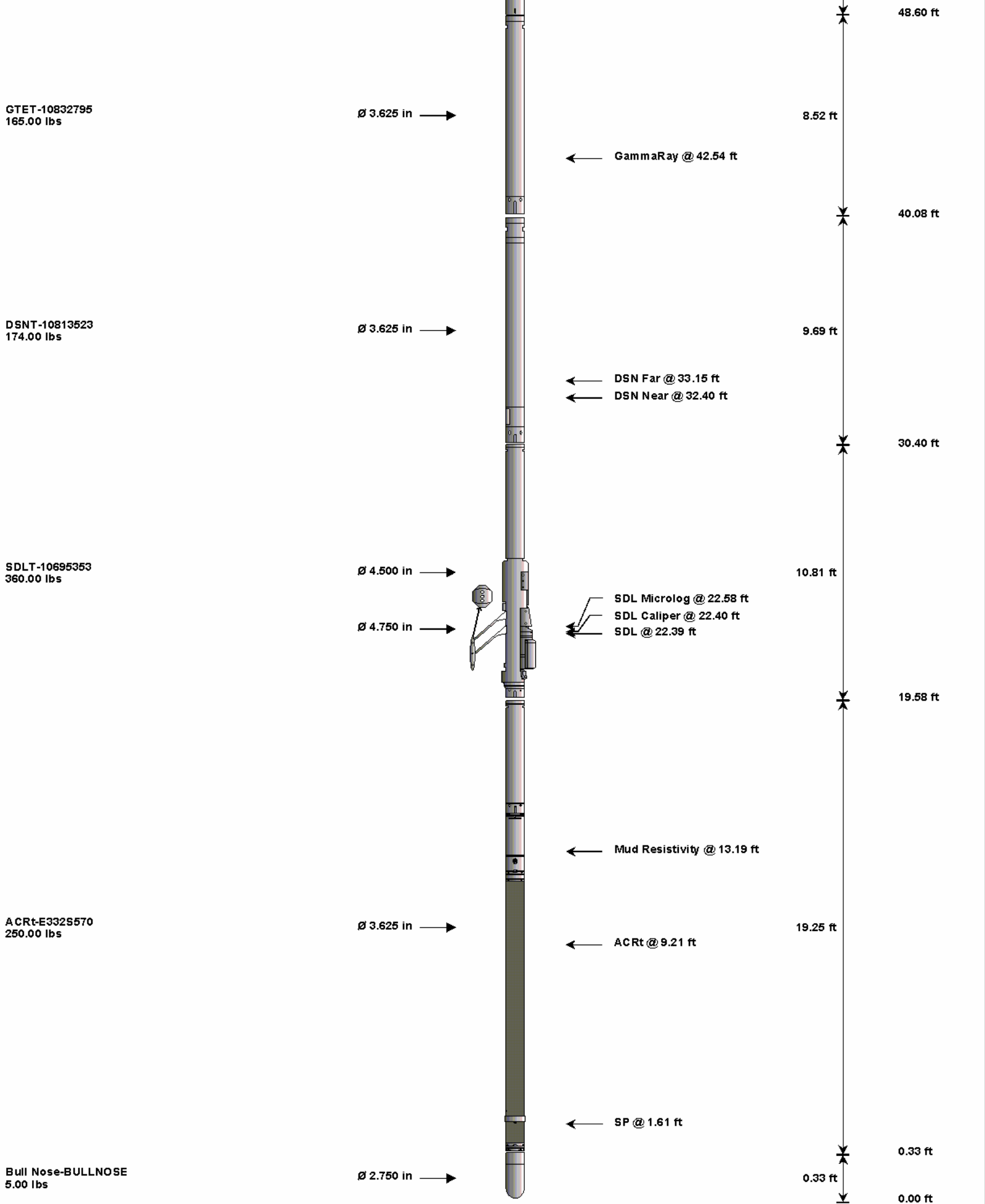
Data: LAR_S_LE_18_05DI0001 TRIPLE-REDIHW10991

Date: 01-Apr-09 04:13:35

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-10895163 135.00 lbs	Ø 3.625 in →		Load Cell @ 51.17 ft BH Temperature @ 50.60 ft	6.25 ft	54.85 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	10895163	135.00	6.25	48.60	300.00

GTET	Natural Gamma Ray Tool	10832795	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	10813523	174.00	9.69	30.40	60.00
SDLT	Spectral Density Tool	10695353	360.00	10.81	19.58	60.00
ACRt	Array Compensated True Resistivity	E332S570	250.00	19.25	0.33	300.00
SP	SP Ring	PROTO1	0.00	0.25 *	1.61	300.00
BLNS	Bull Nose	BULLNOSE	5.00	0.33	0.00	300.00
Total			1,089.00	54.85		
			* Not included in Total Length and Length Accumulation.			
Data: LAR_S_LE_18_05D10001 TRIPLE-REDIDLE			Date: 01-Apr-09 04:17:49			

COMPANY	LARAMIE ENERGY		
WELL	SOUTH LEVERICH 18 - 05D		
FIELD	RULISON		
COUNTY	GARFIELD	STATE	COLORADO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY	