

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY				LARAMIE ENERGY			
WELL				BRUTON 19-14B			
FIELD				BRUSH CREEK			
COUNTY				MESA			
STATE				CO			
COMPANY				LARAMIE ENERGY			
WELL				BRUTON 19-14B			
FIELD				BRUSH CREEK			
COUNTY				MESA			
STATE				CO			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				29-Jan-11			
Run No.				ONE			
Depth - Driller				8565.00 ft			
Depth - Logger				8559.0 ft			
Bottom - Logged Interval				8550.0 ft			
Top - Logged Interval				1550.0 ft			
Casing - Driller				9.625 in @ 1551.0 ft			
Casing - Logger				1550.0 ft			
Bit Size				8.750 in			
Type Fluid in Hole				WBM			
Density				10.5 ppg			
Viscosity				52.00 s/qt			
PH				9.90 pH			
Fluid Loss				6.8 cp/m			
Source of Sample				MUD TANK			
Rm @ Meas. Temperature				1.590 ohmm @ 57.00 degF			
Rmf @ Meas. Temperature				0.89 ohmm @ 75.00 degF			
Rmc @ Meas. Temperature				1.475 ohmm @ 75.00 degF			
Source Rmf				CHART			
Rm @ BHT				0.47 ohmm @ 207.0 degF			
Time Since Circulation				7.0 hr			
Time on Bottom				29-Jan-11 22:31			
Max. Rec. Temperature				207.0 degF @ 8565.0 ft			
Equipment				11014853 G.J., CO			
Recorded By				W. MATSON			
Witnessed By				CORY CLAUSON			

COMPANY		LARAMIE ENERGY	
WELL		BRUTON 19-14B	
FIELD		BRUSH CREEK	
COUNTY		MESA	
STATE		CO	
API No.		05077100940000	
Location		SHL: 825' FSL & 1750' FWL SEC.19, T-9S, R-93W	
Other Services:		RWCH	
Elev.: K.B.		7366.0 ft	
D.F.		7365.0 ft	
G.L.		7345.0 ft	

Fold here

Service Ticket No.: 7885826						API Serial No.: 05077100940000						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.				Other			
Rmf @ Meas. Temp.				@				@				ONE		ACRT 9019051E				N/A				1.5" S.O.				N/A			
Rmc @ Meas. Temp.				@				@						E9775															
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.		11005602				Serial No.						Serial No.		10951300				Serial No.		10993887									
Model No.		GTE				Model No.						Model No.		SDLT				Model No.		DSNT									
Diameter		3.625"				No. of Cent.						Diameter		4.5"				Diameter		3.625"									
Detector Model No.		102A				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 Ci				Strength		15 Ci									

LOGGING DATA

GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		
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Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	10.500	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	1.590	ohmm
	SHARED	TRM	Temperature of Mud	57.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	8565.00	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	
	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	
	BSNT	BNOK	Process BSN?	Yes	

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	
BOTTOM				

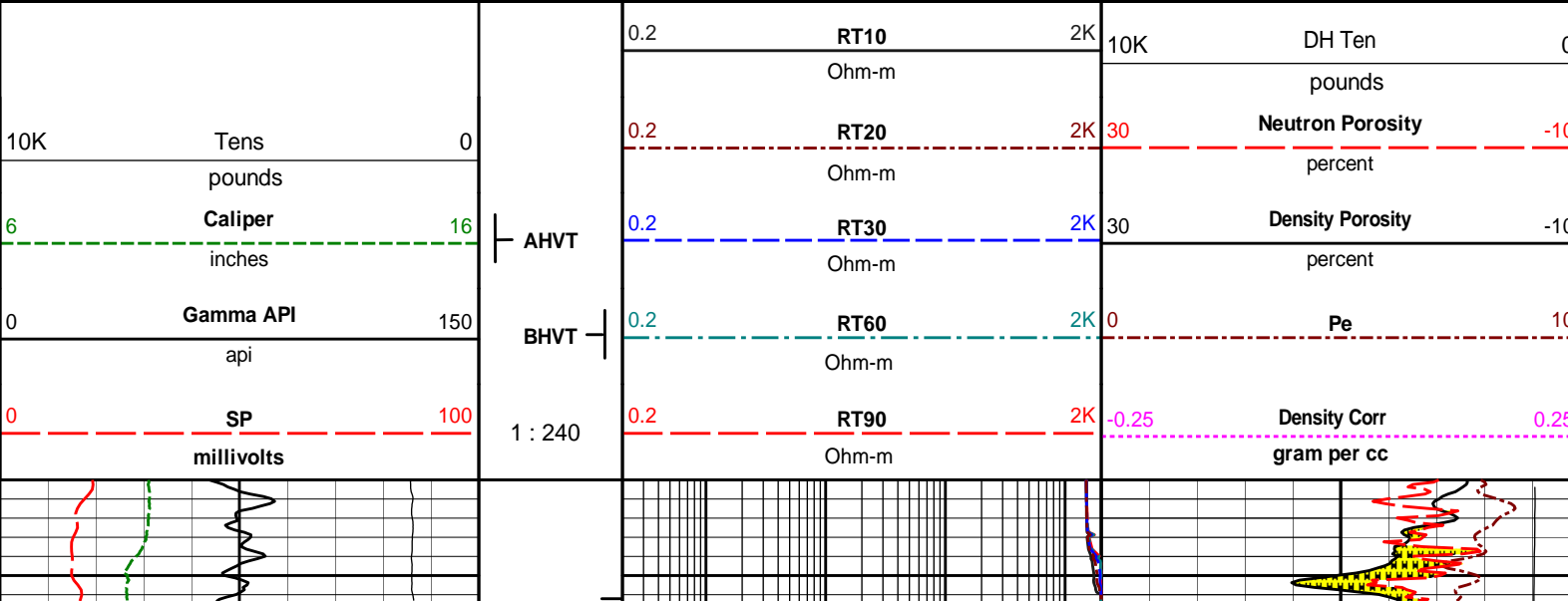
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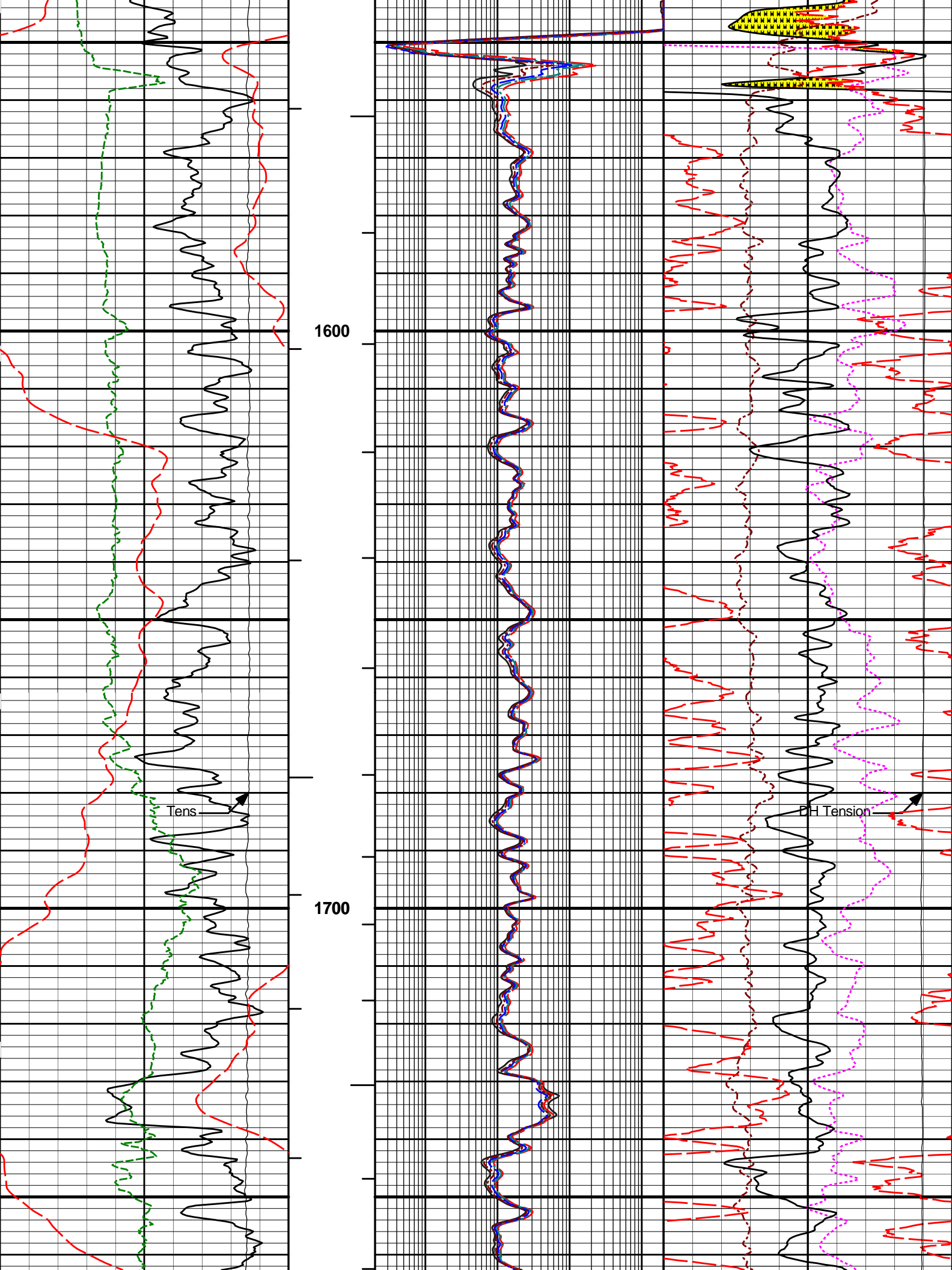
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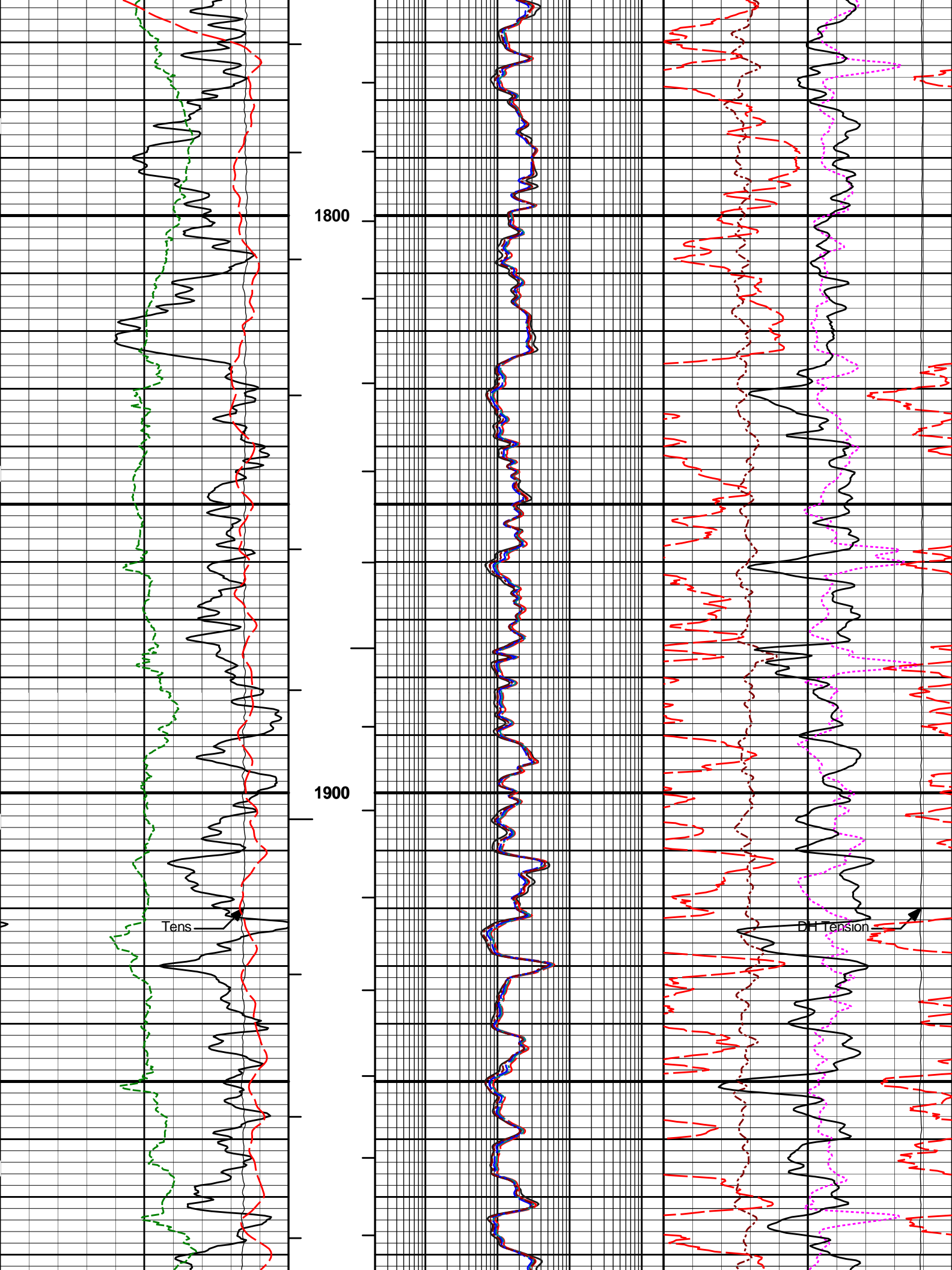
HALLIBURTON

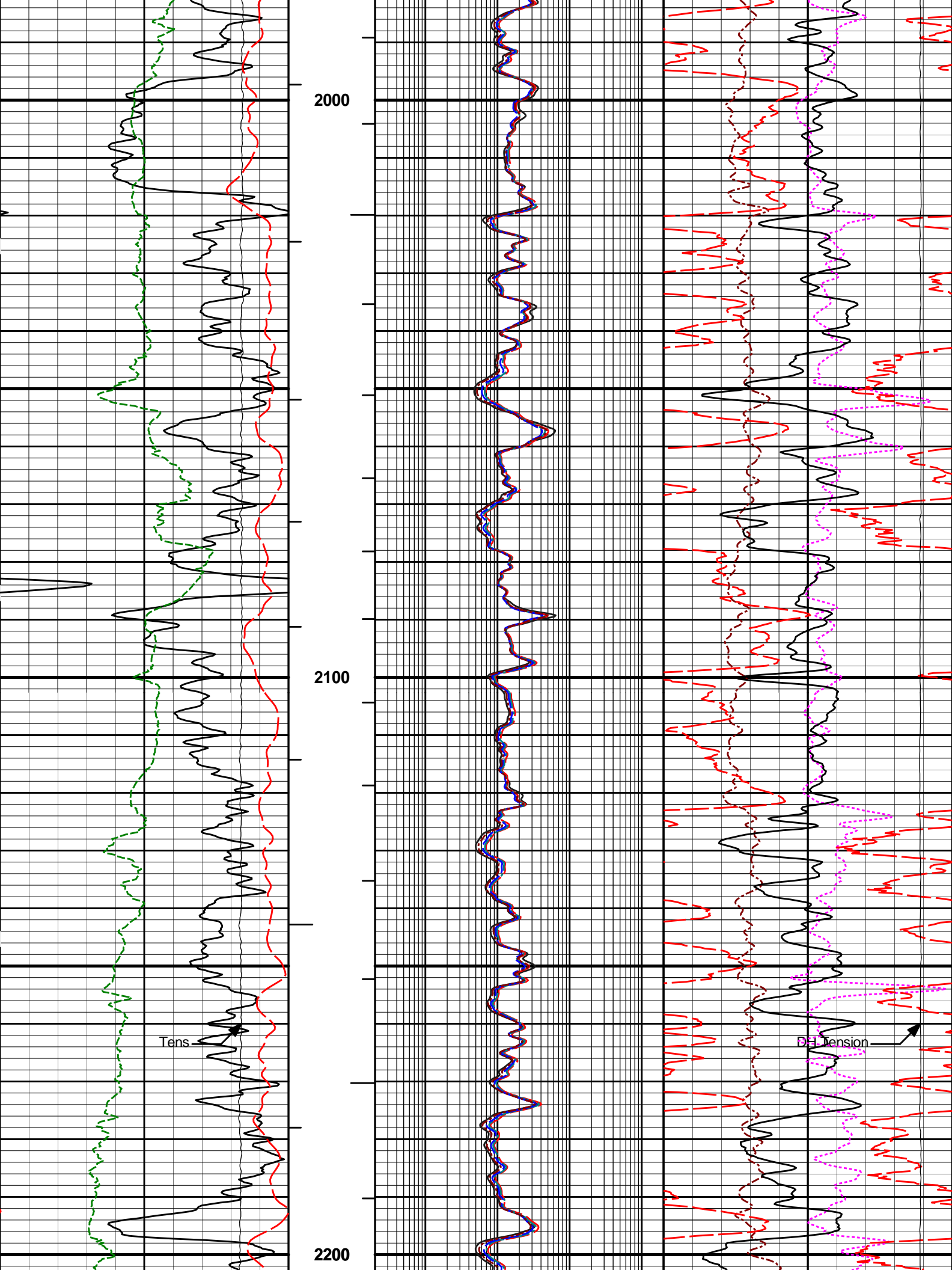
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Plot File: \COMP\BP_5IN_COMP_M

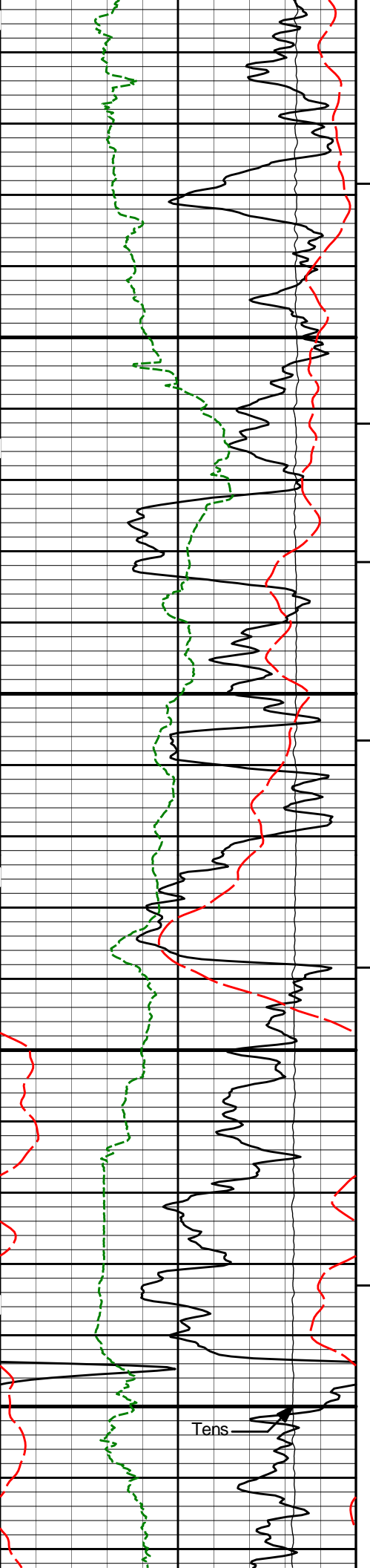
MAIN PASS 5" = 100'







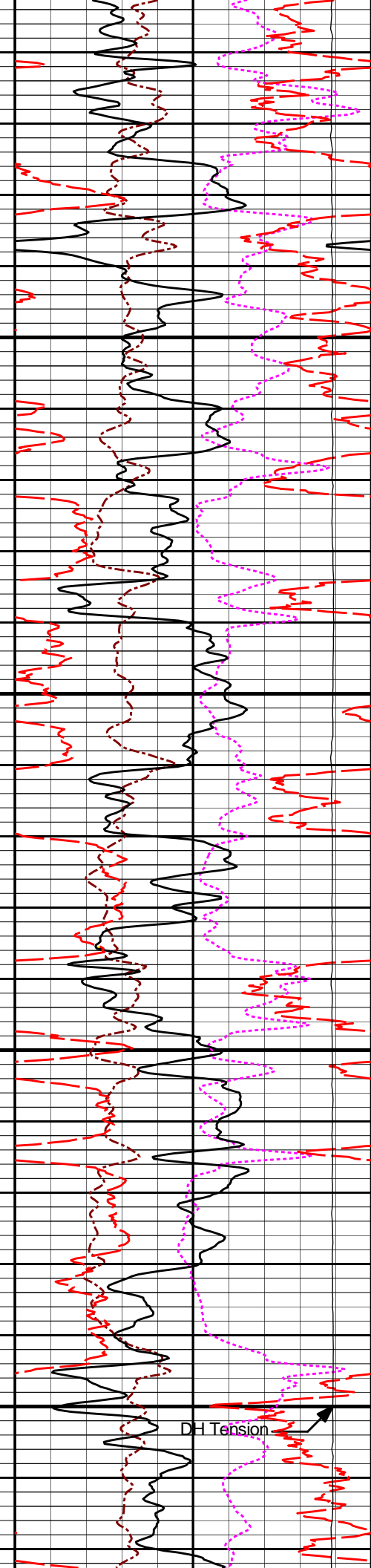
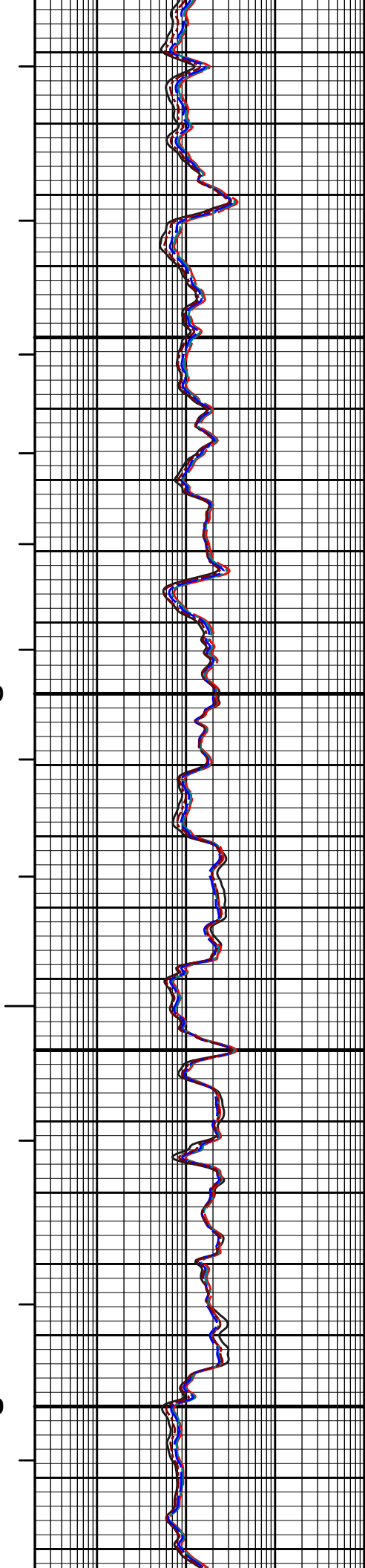




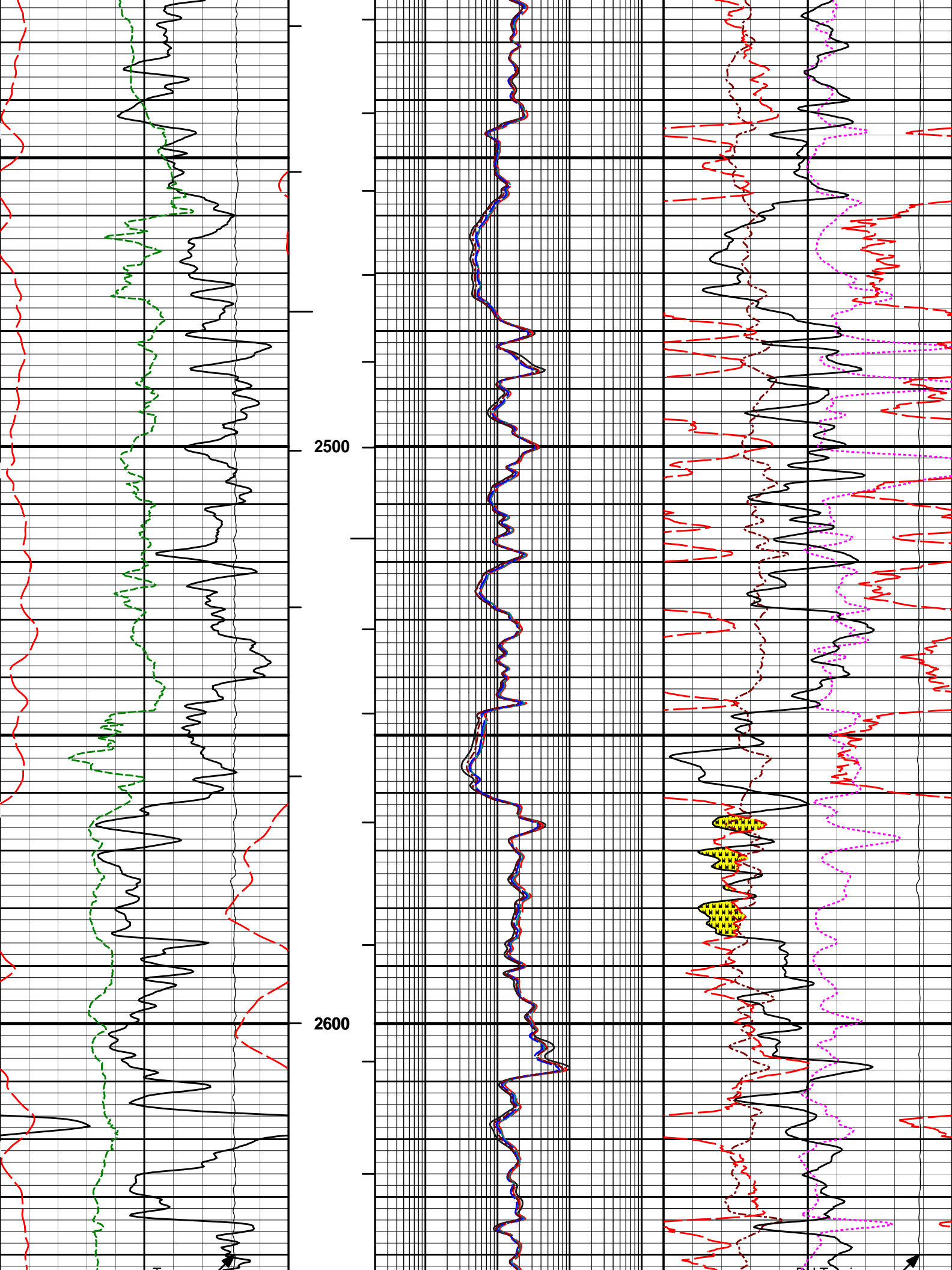
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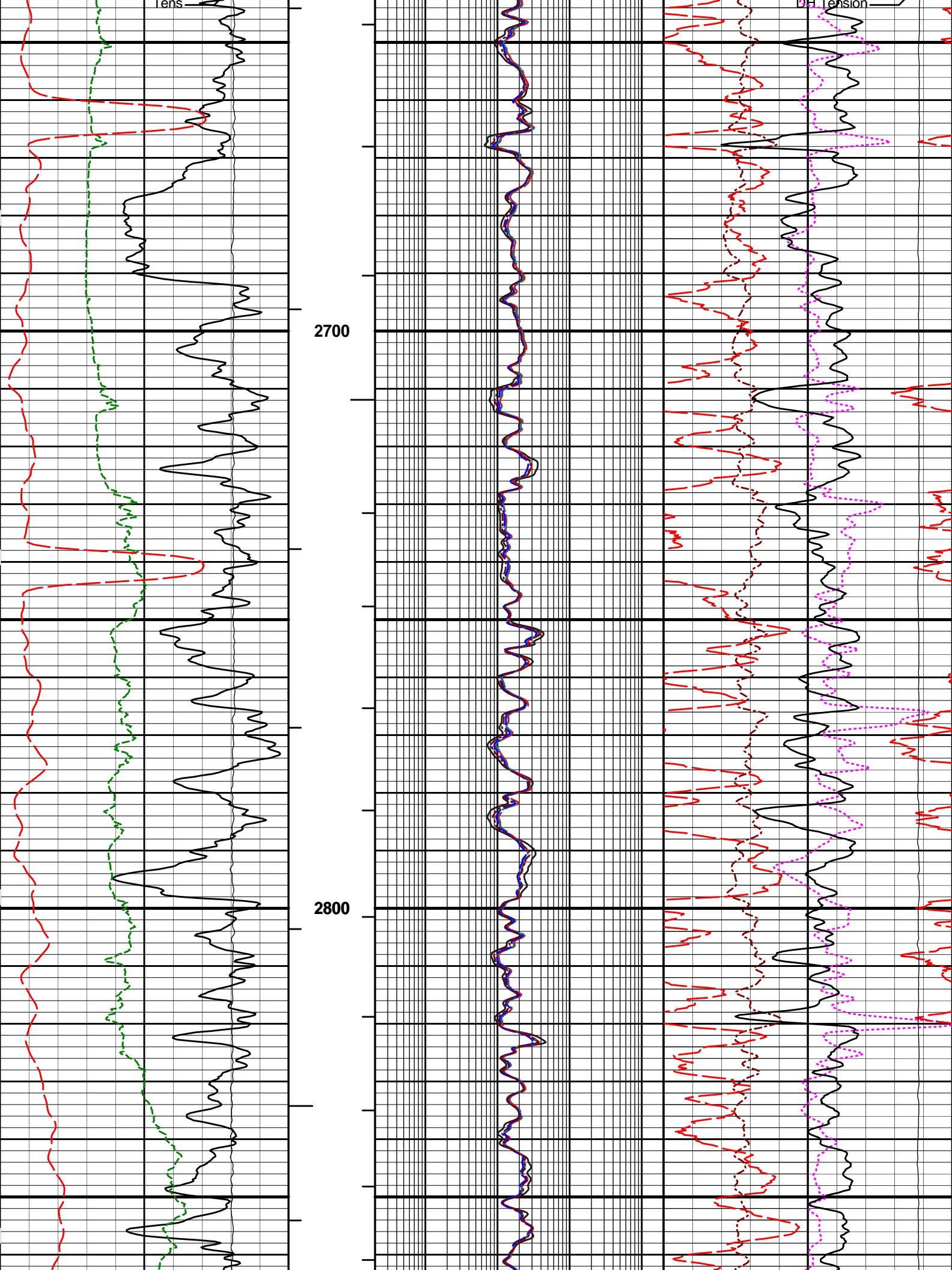
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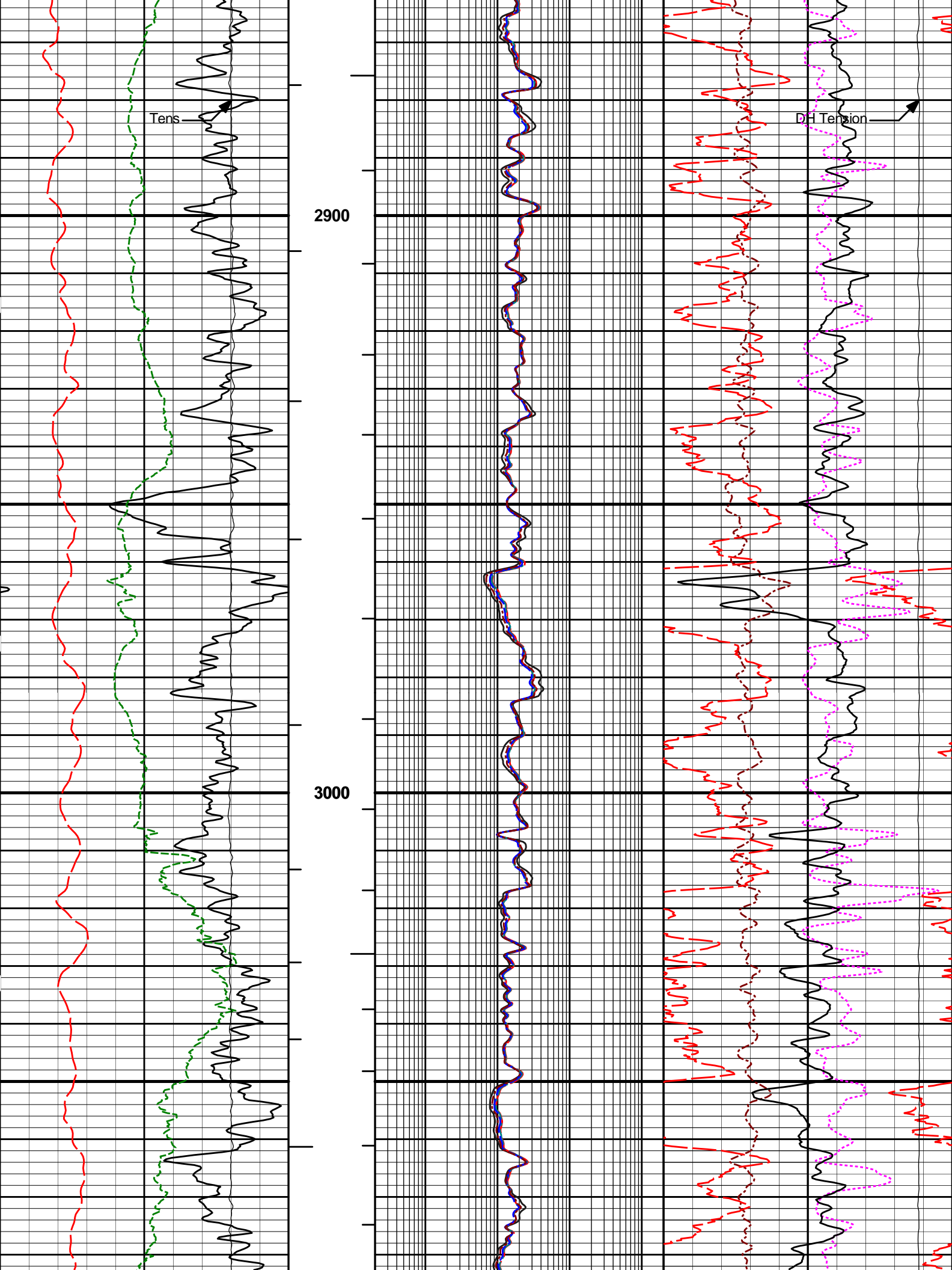
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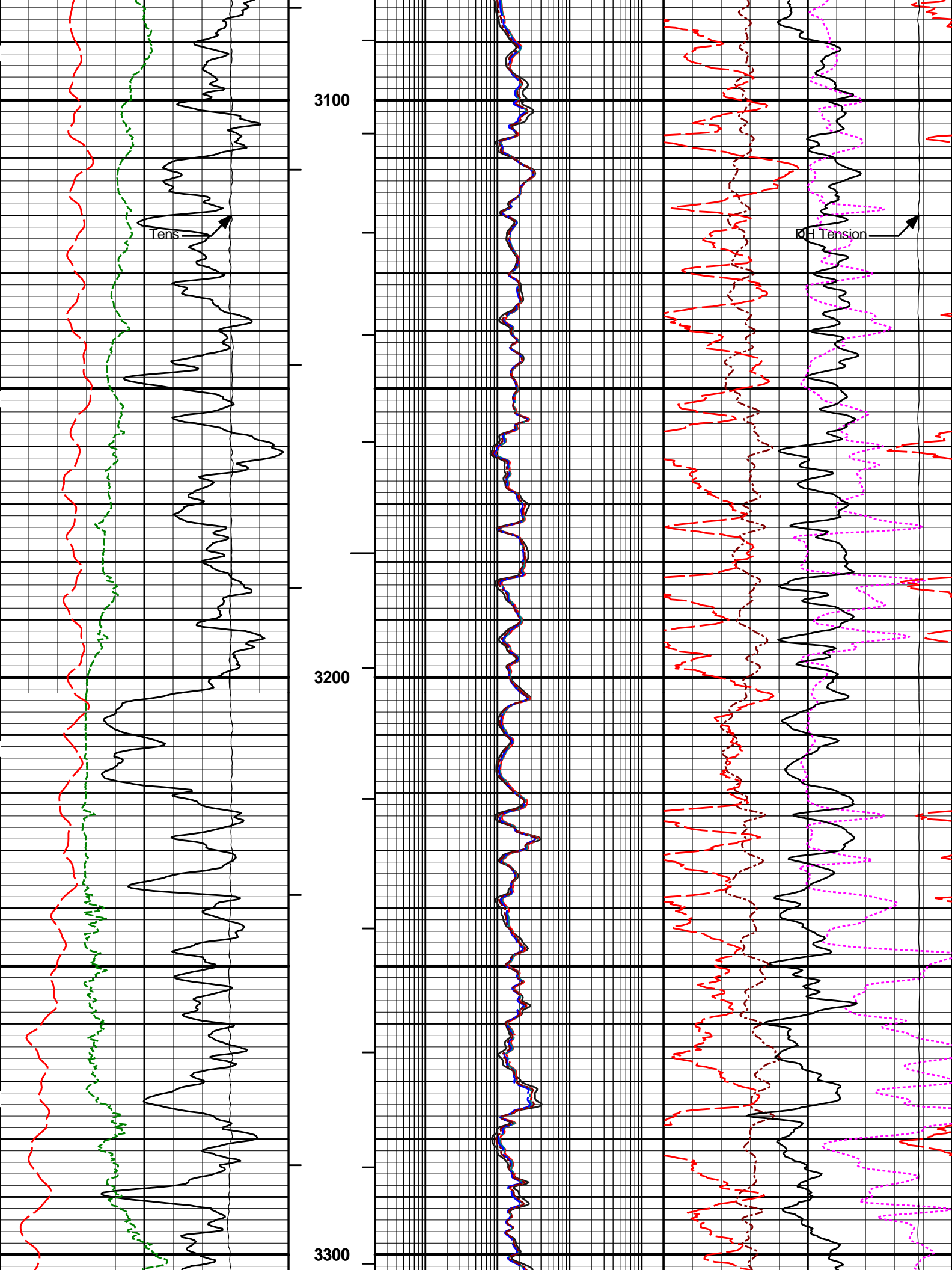


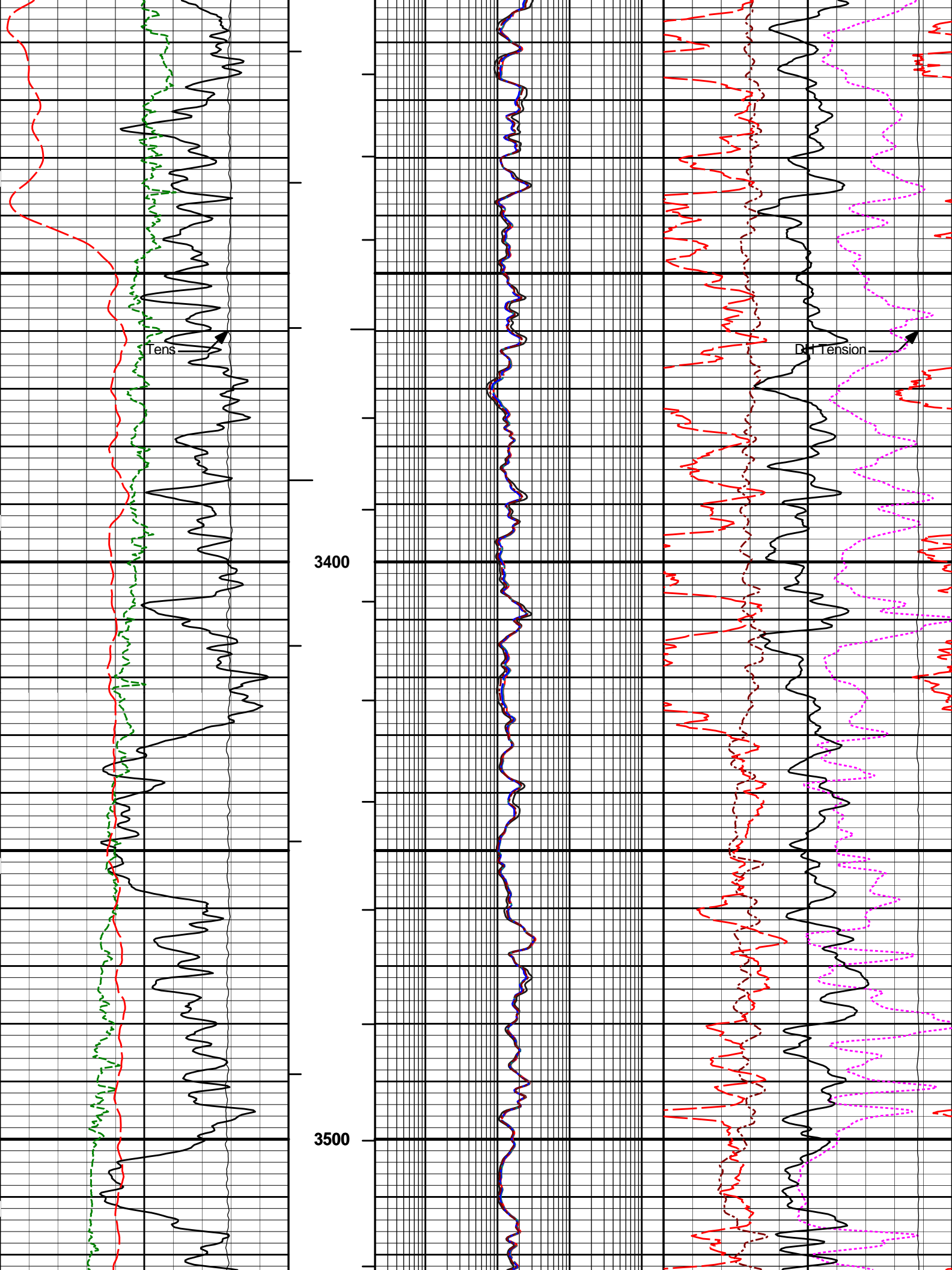
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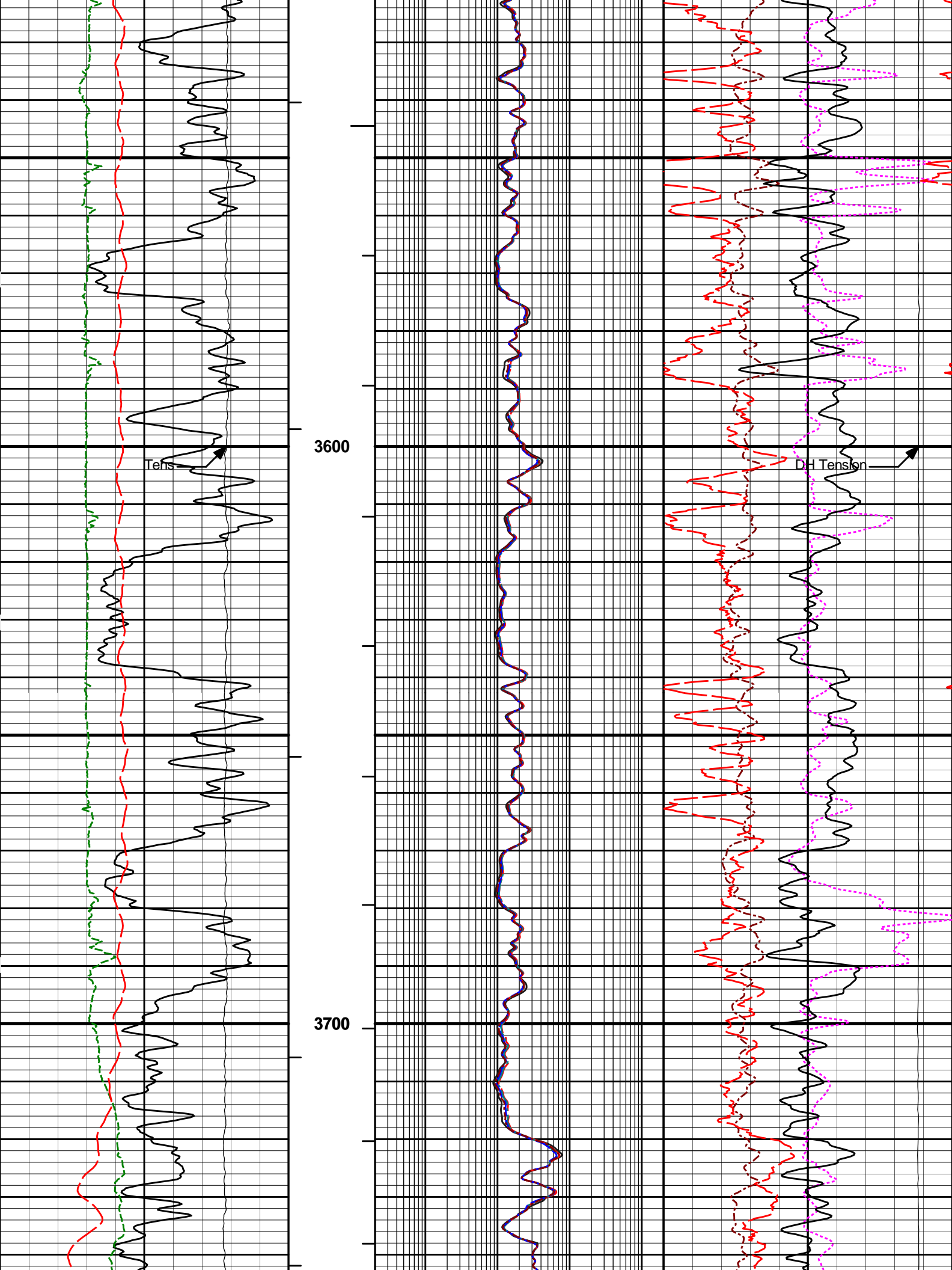


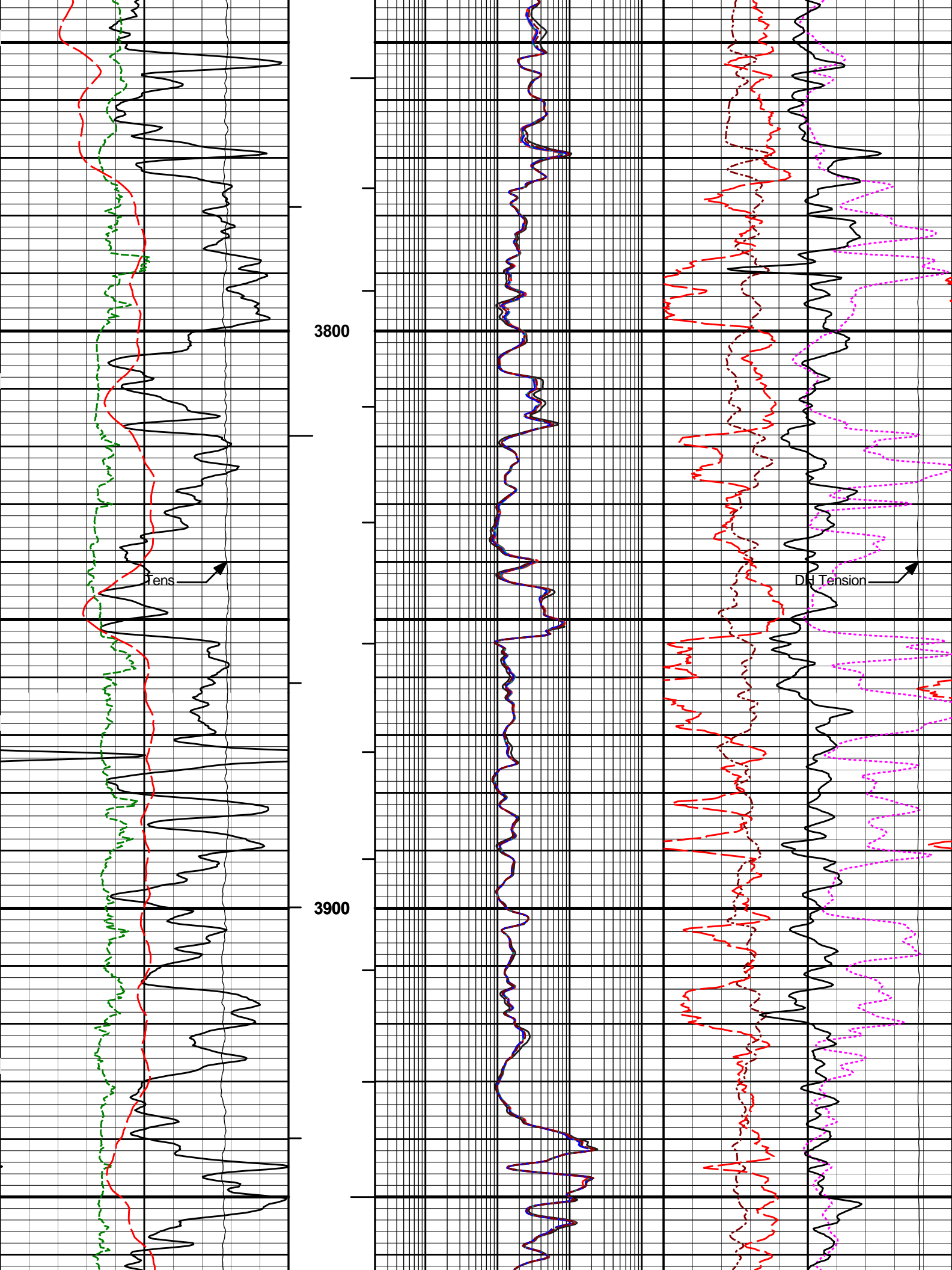


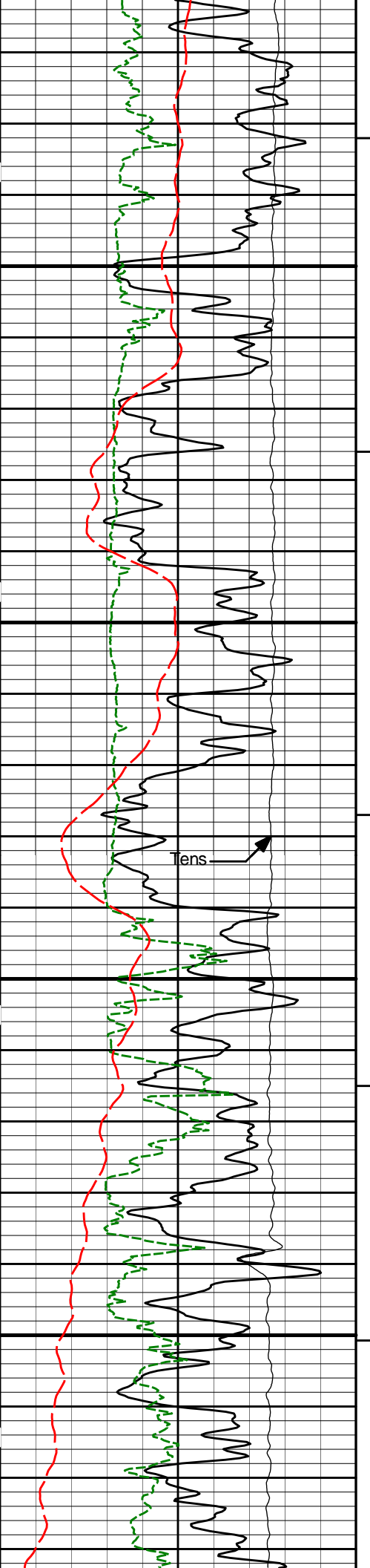






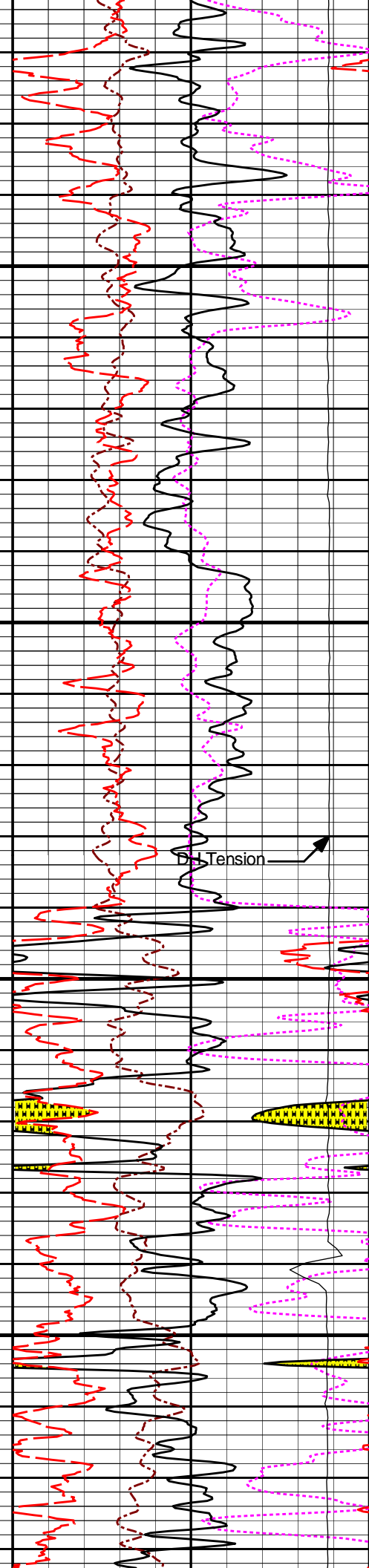
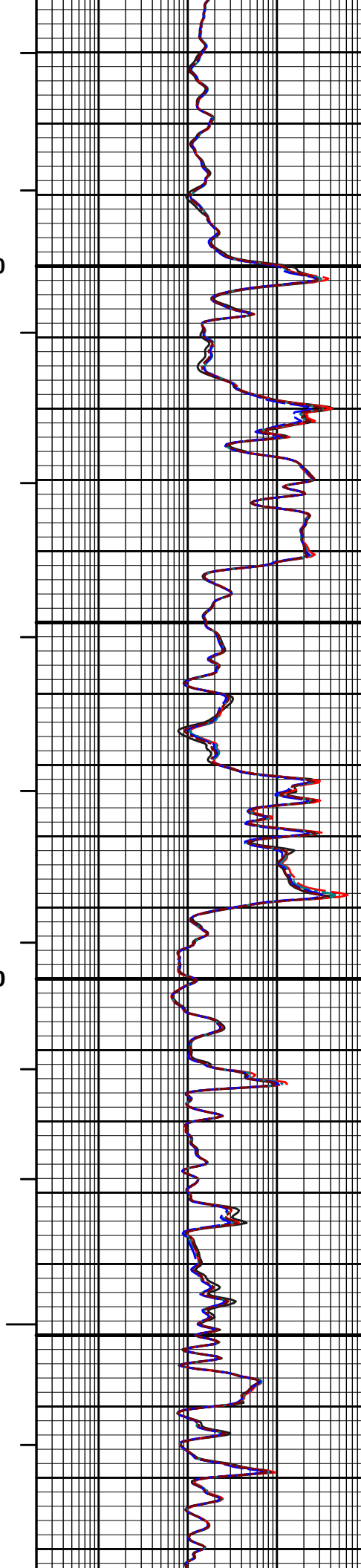


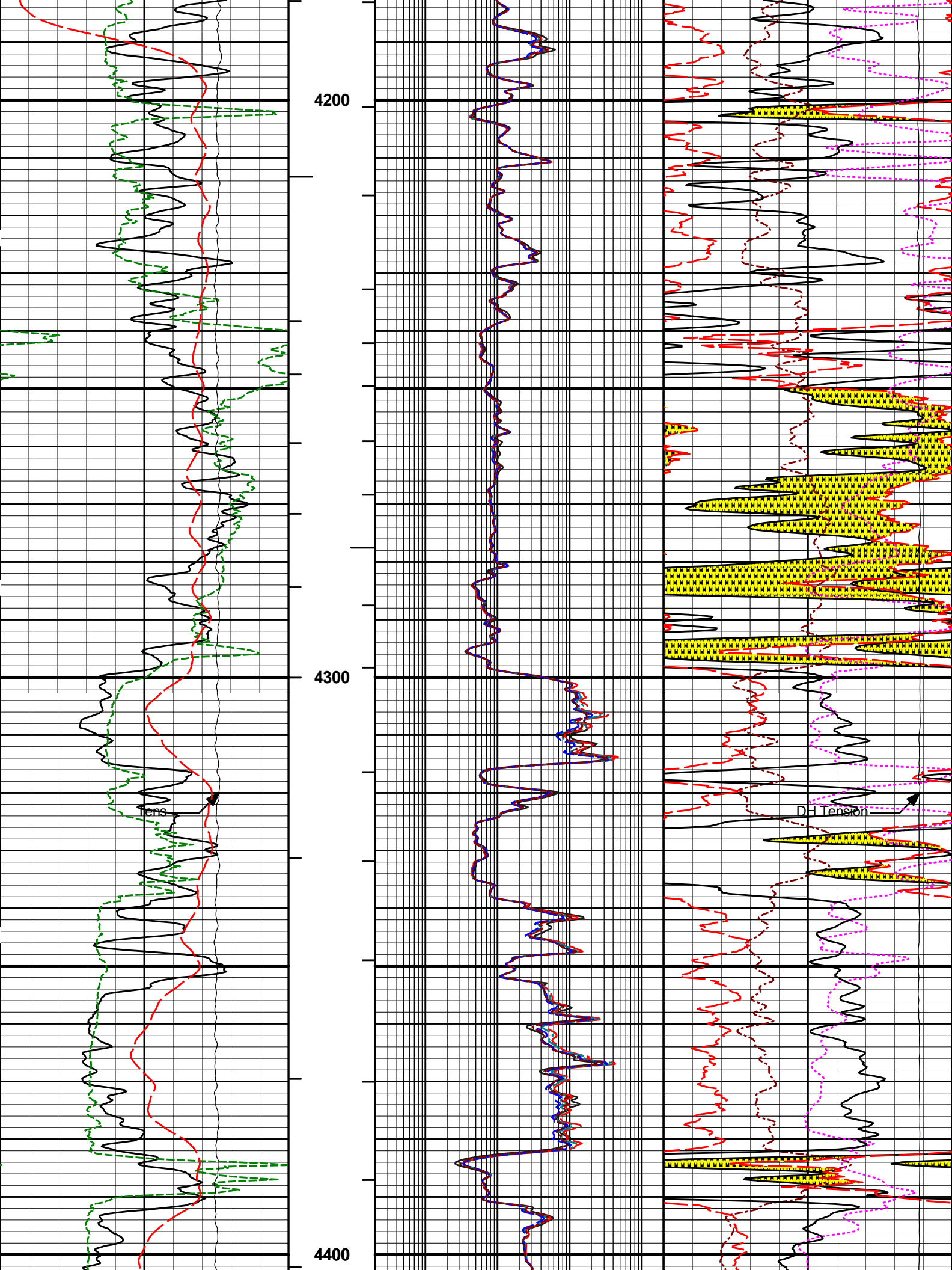


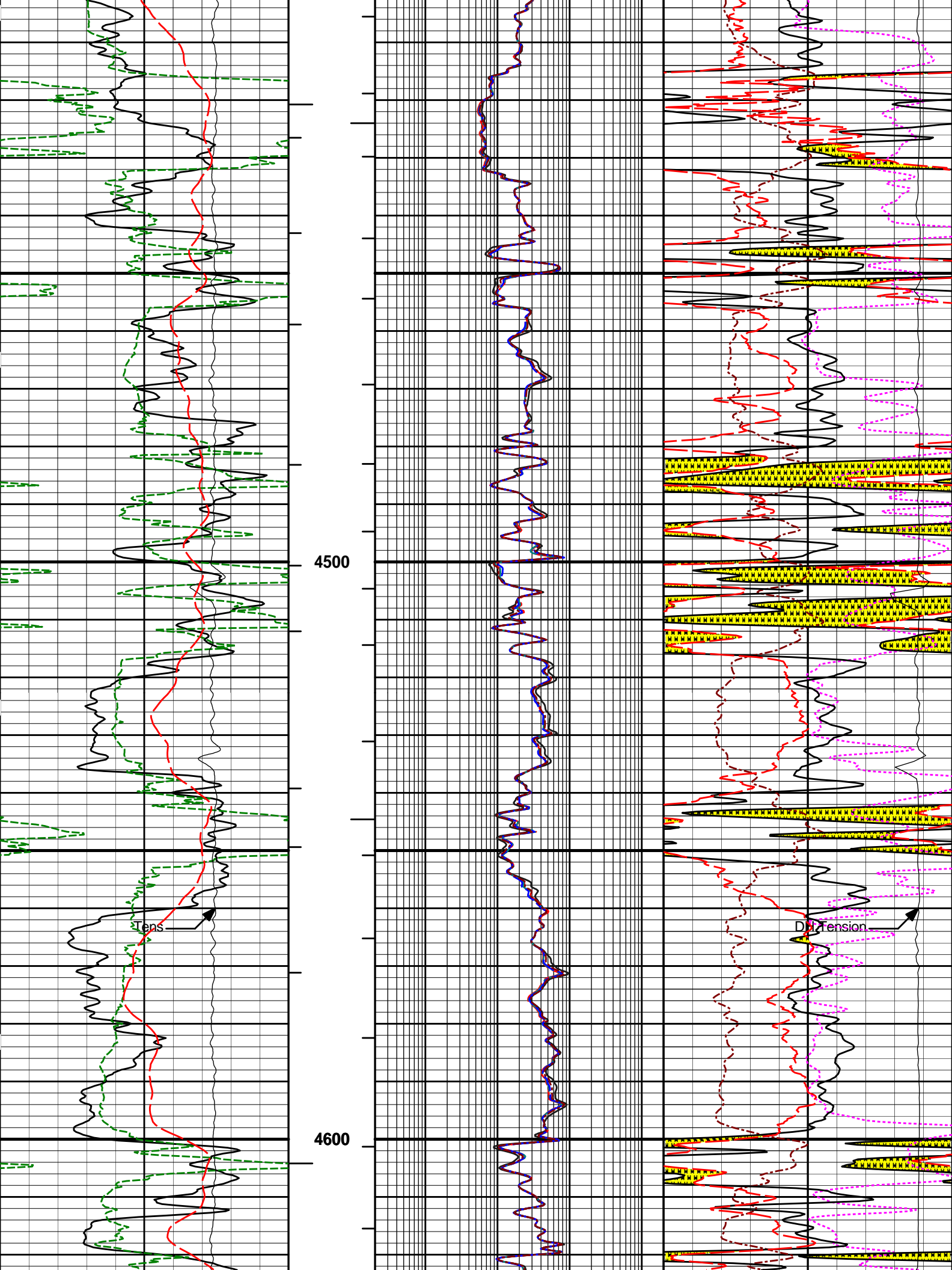


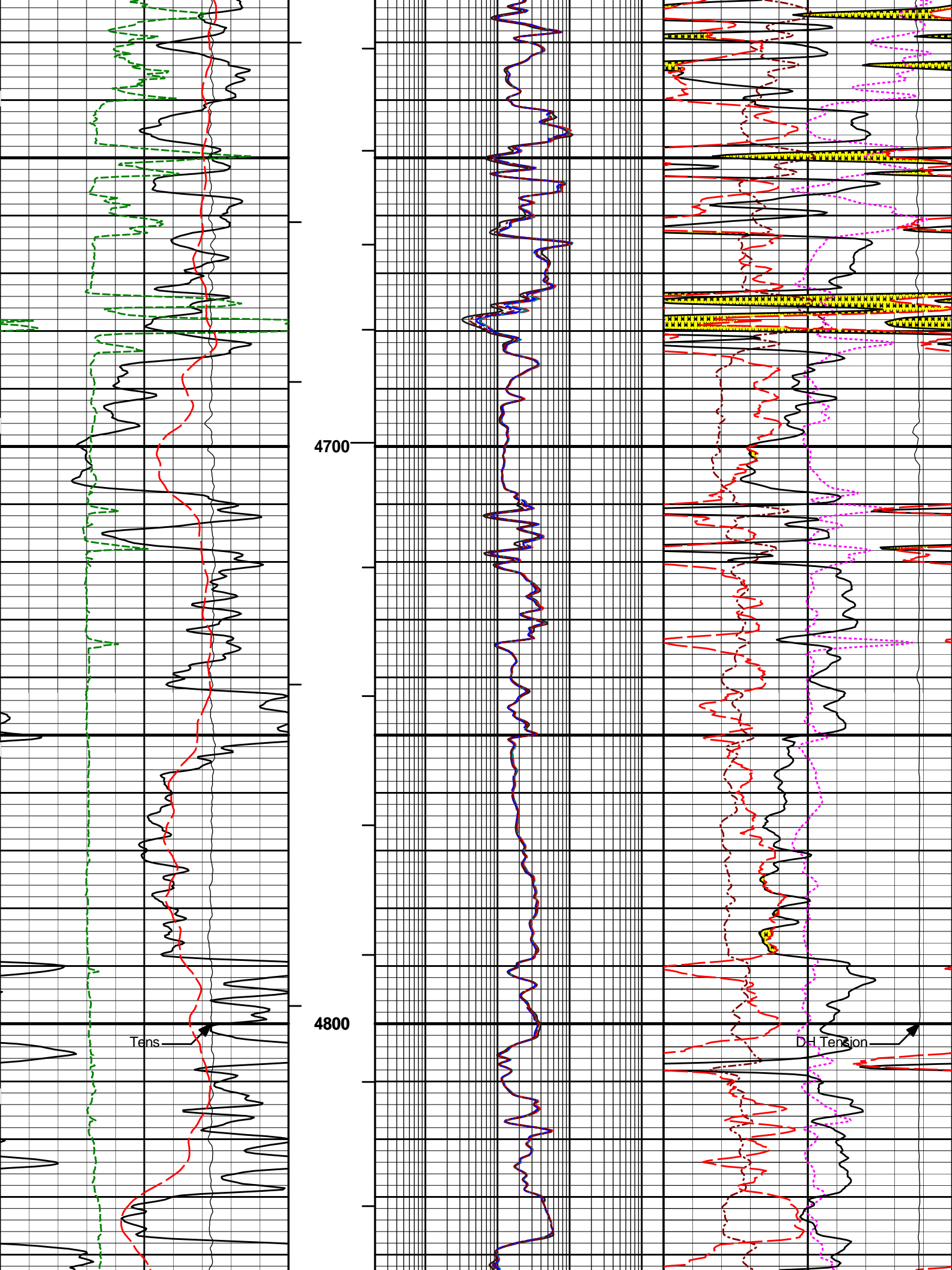
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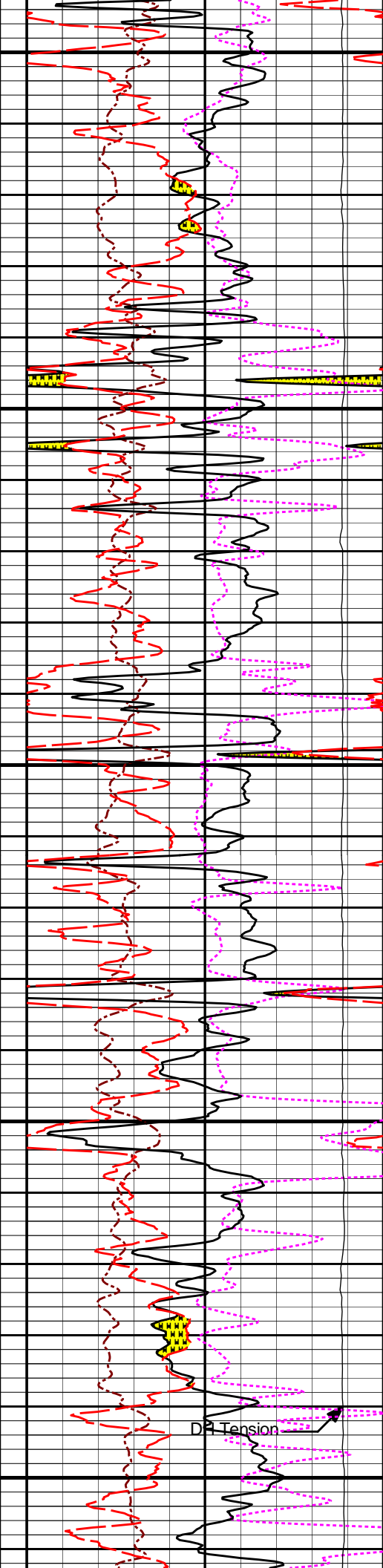
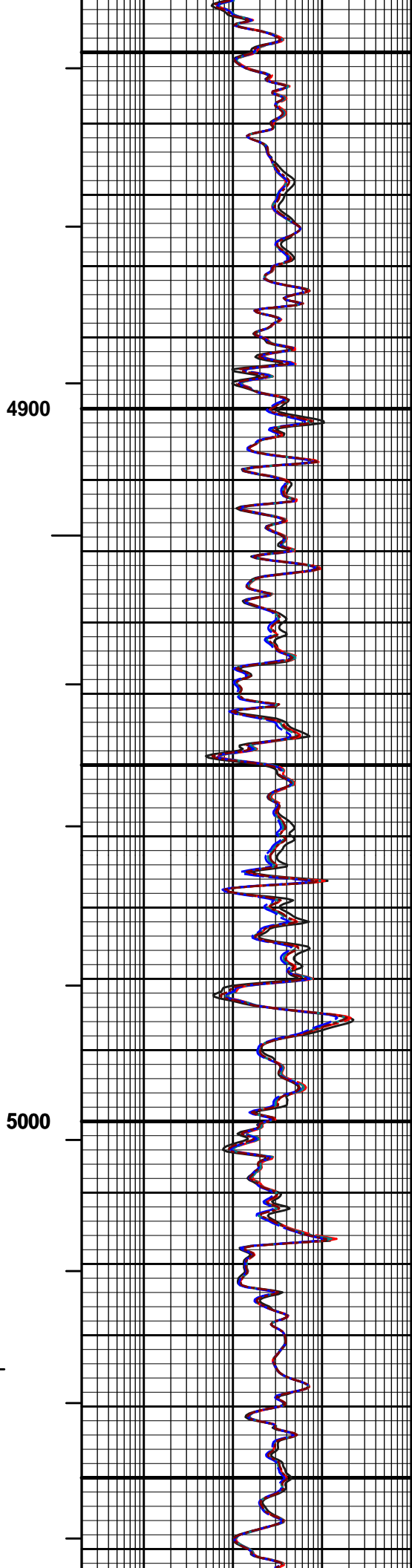
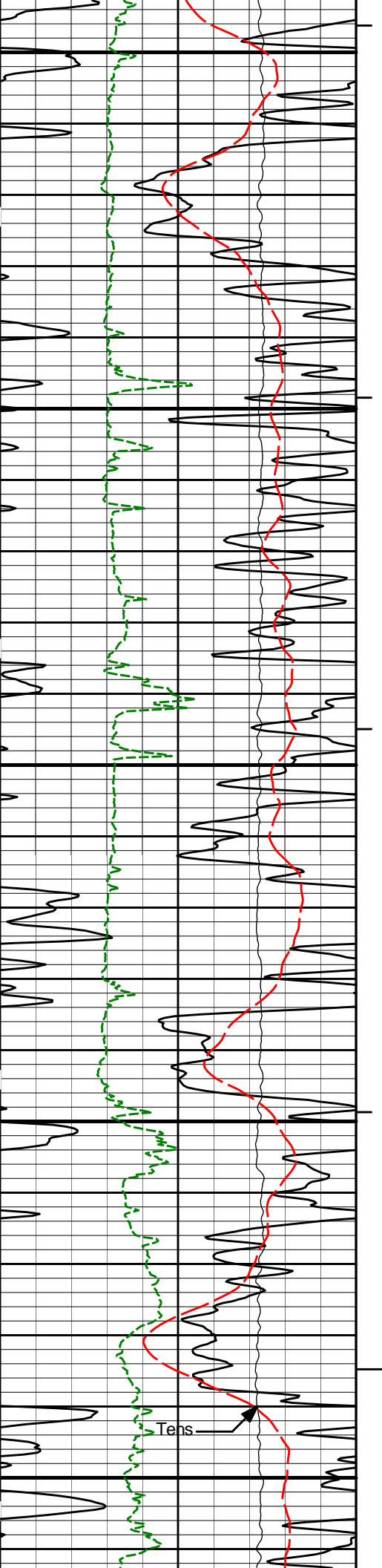
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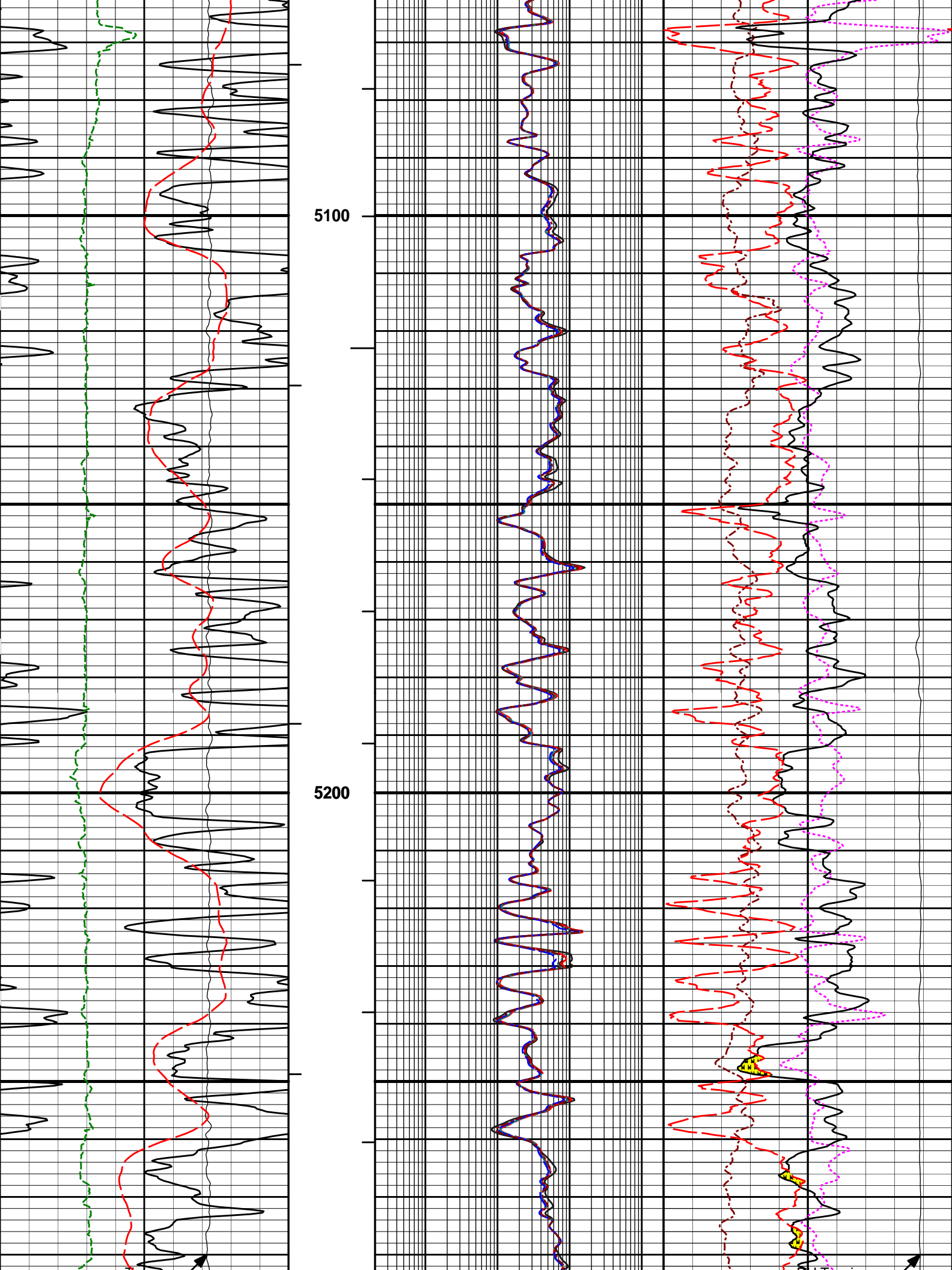


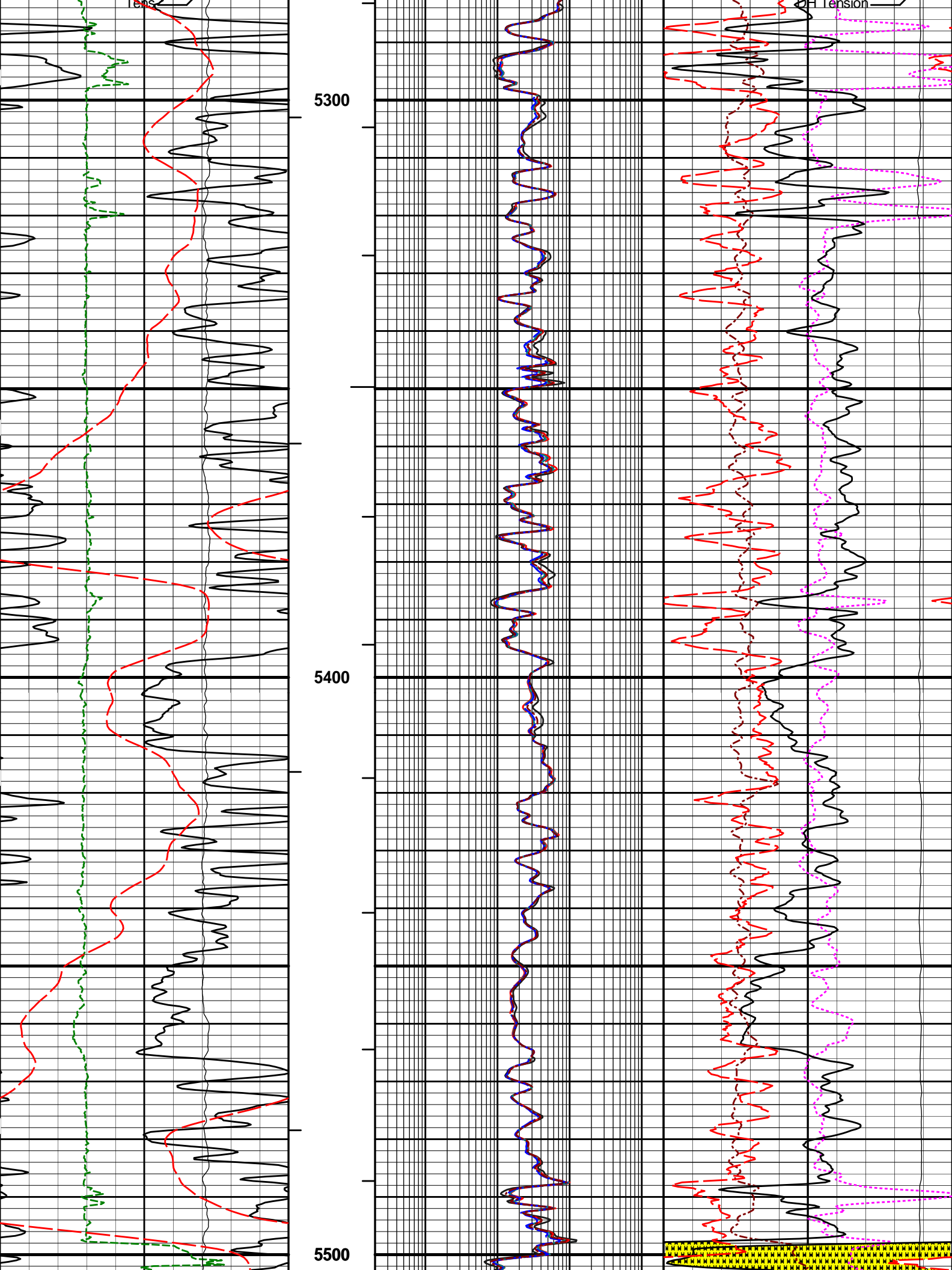


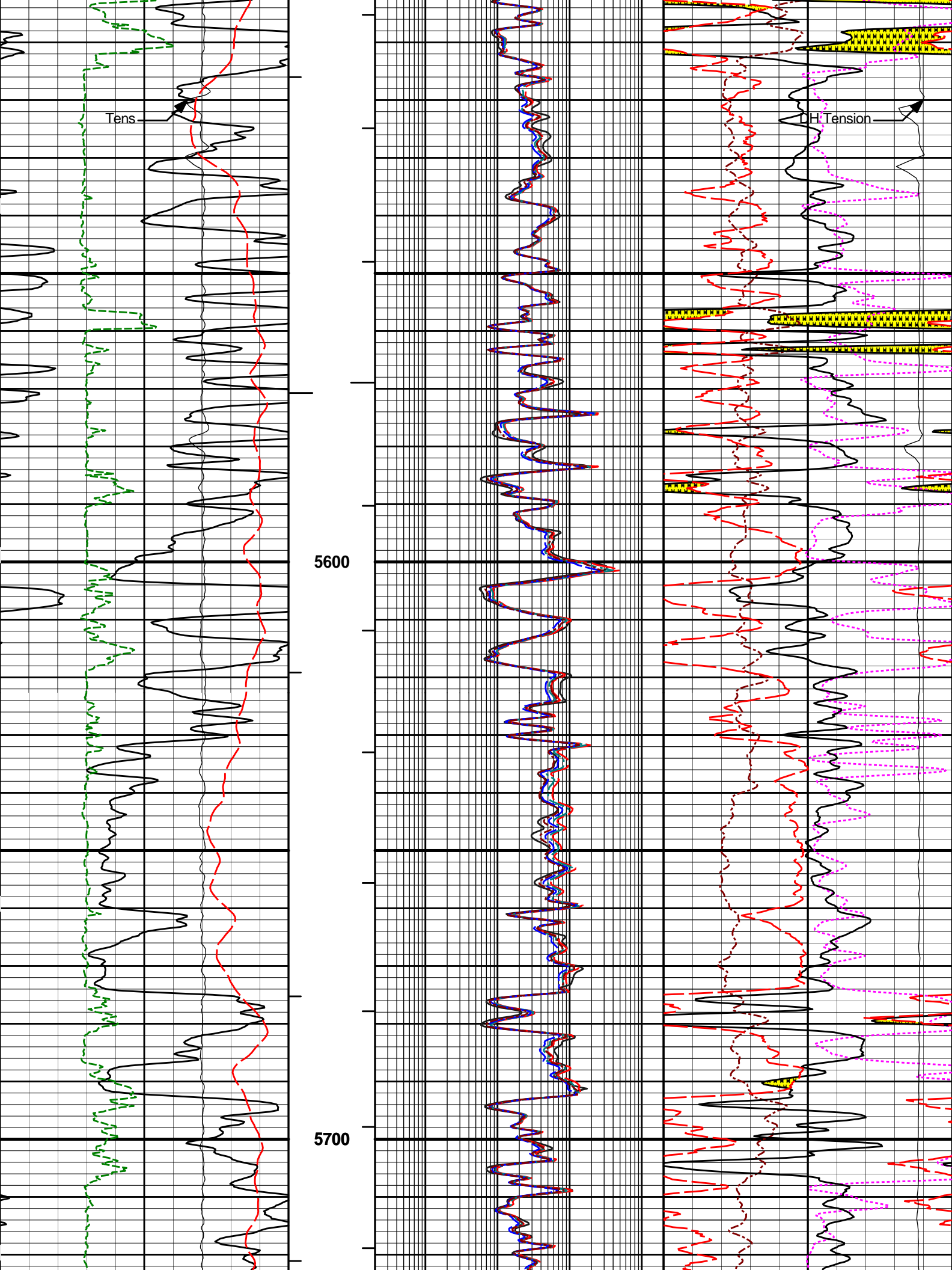


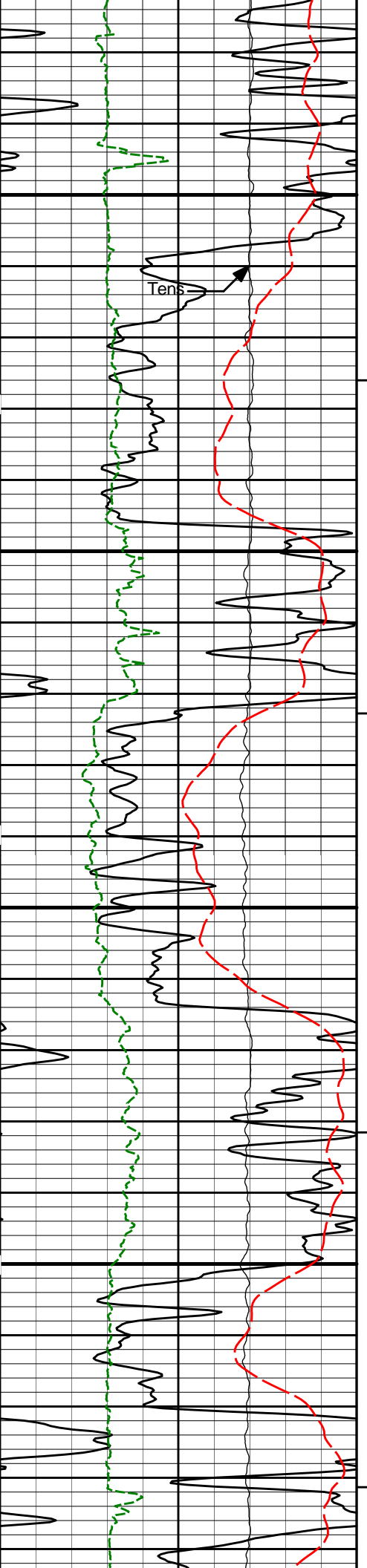






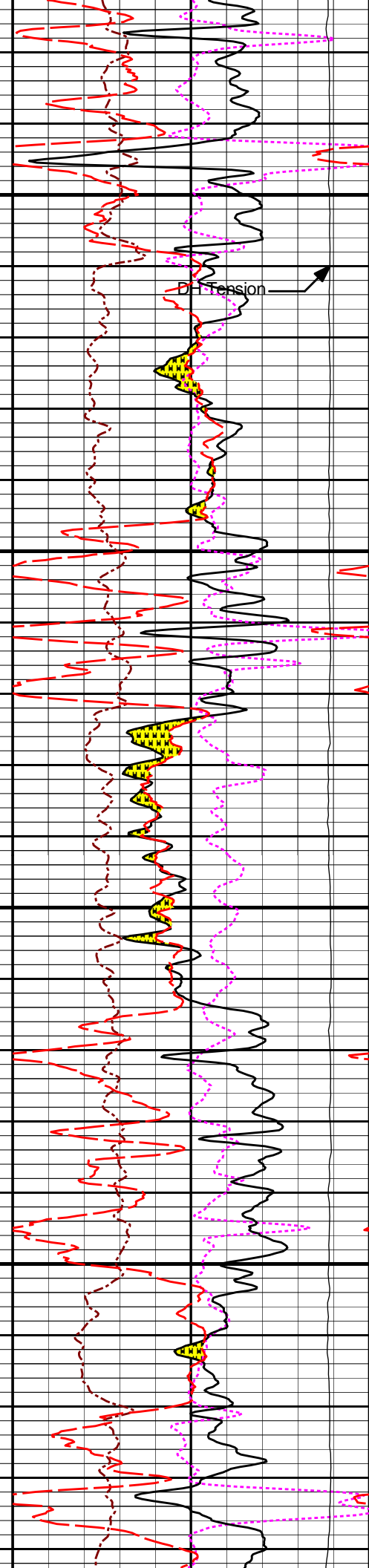
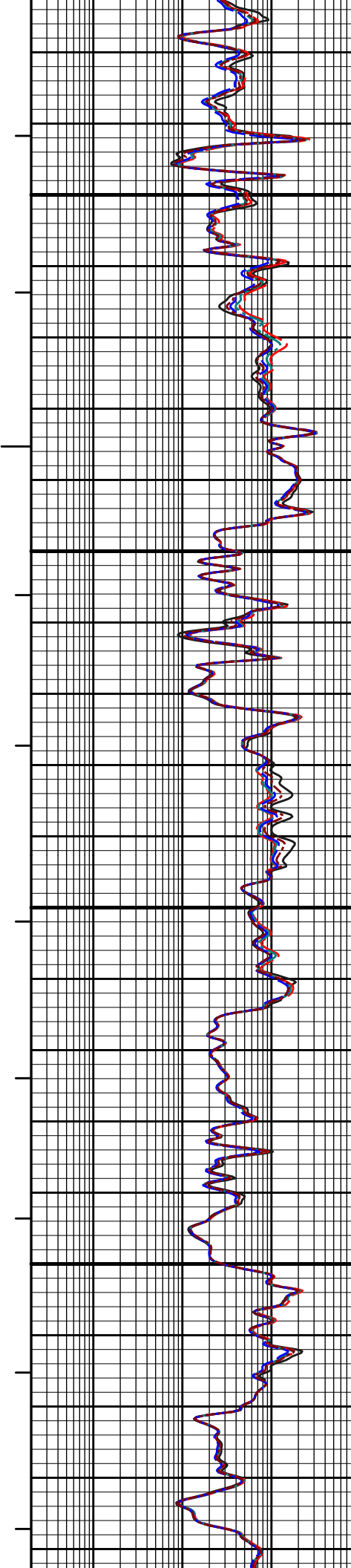


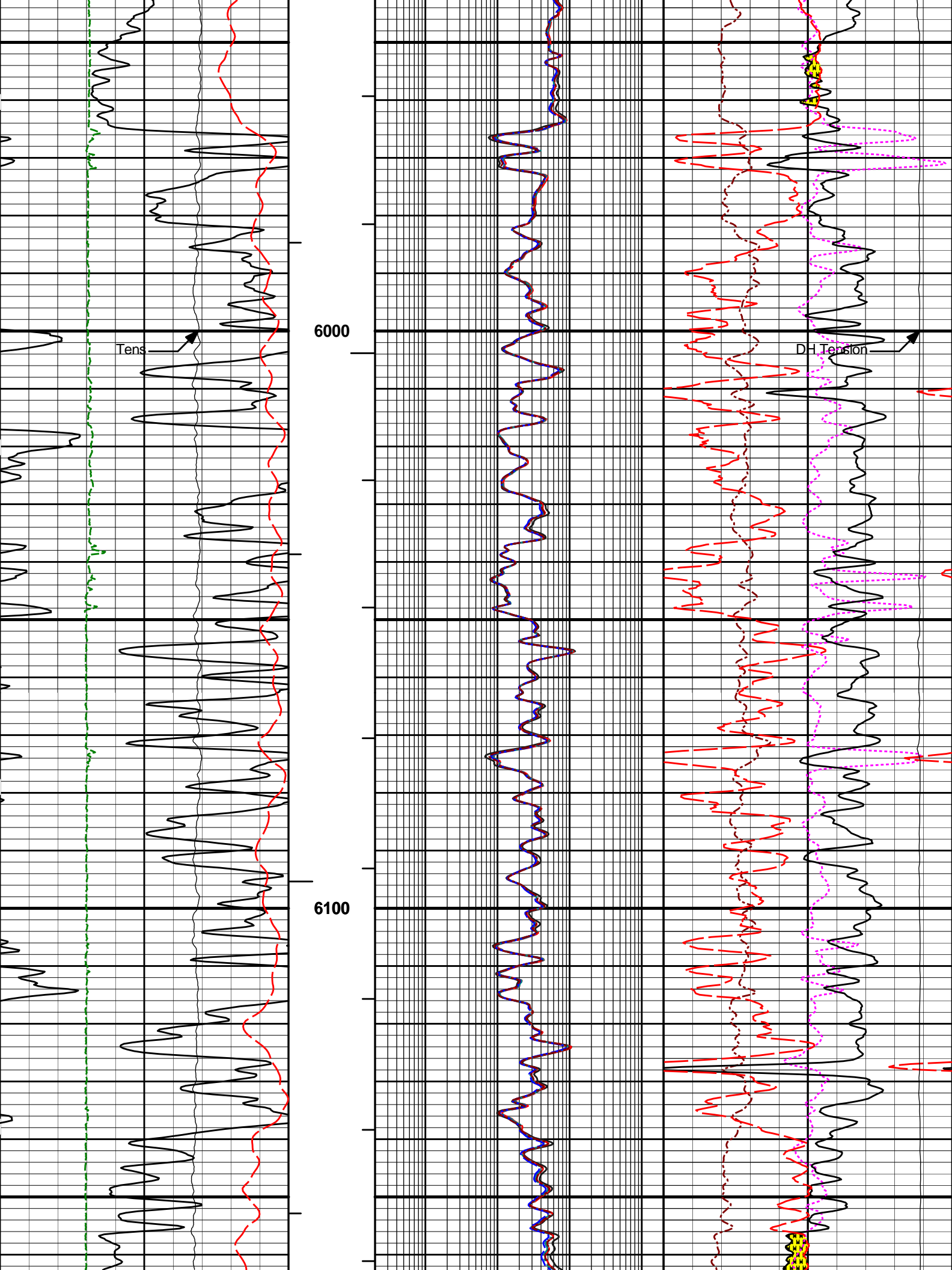


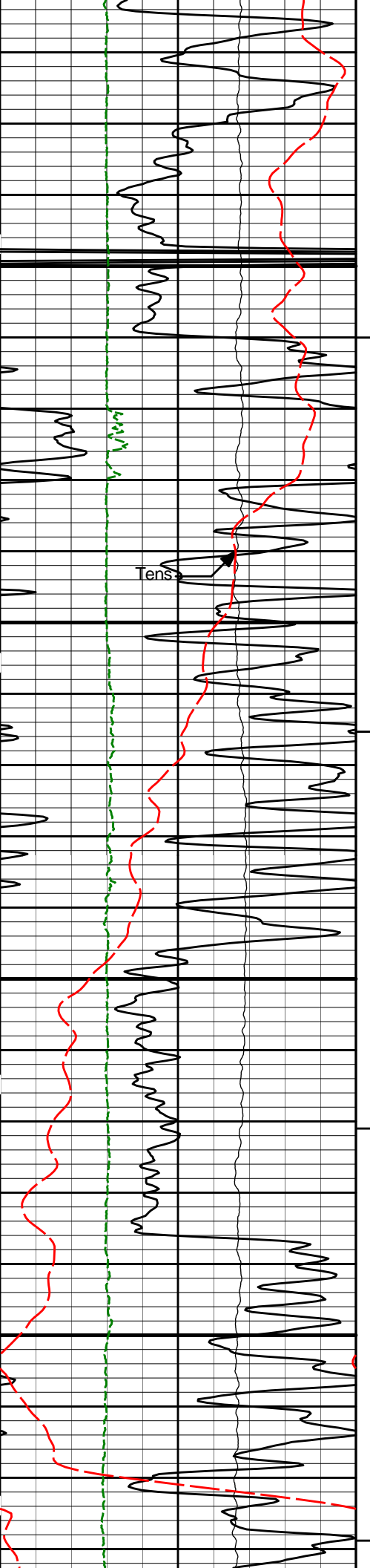


5800

5900

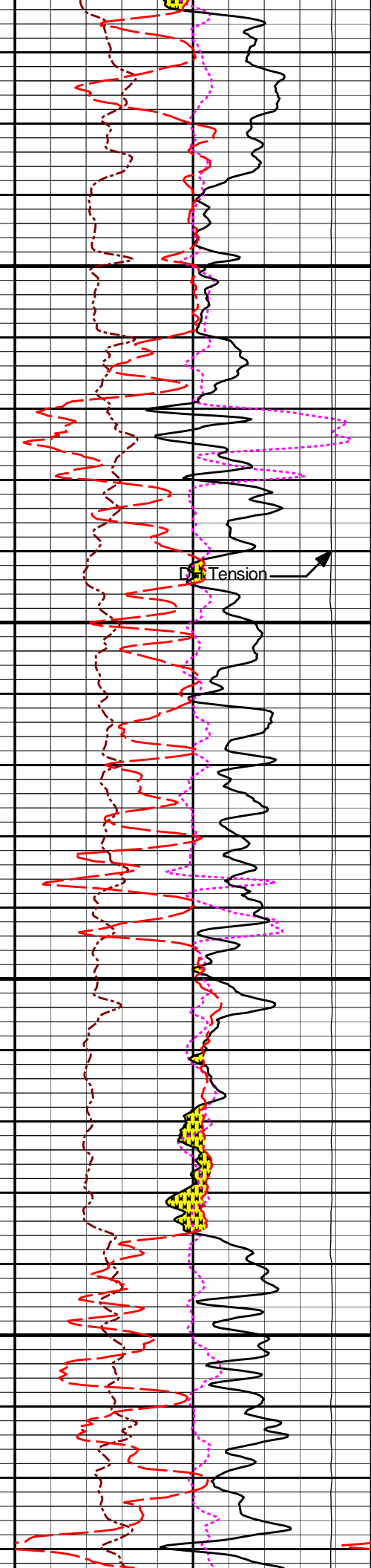
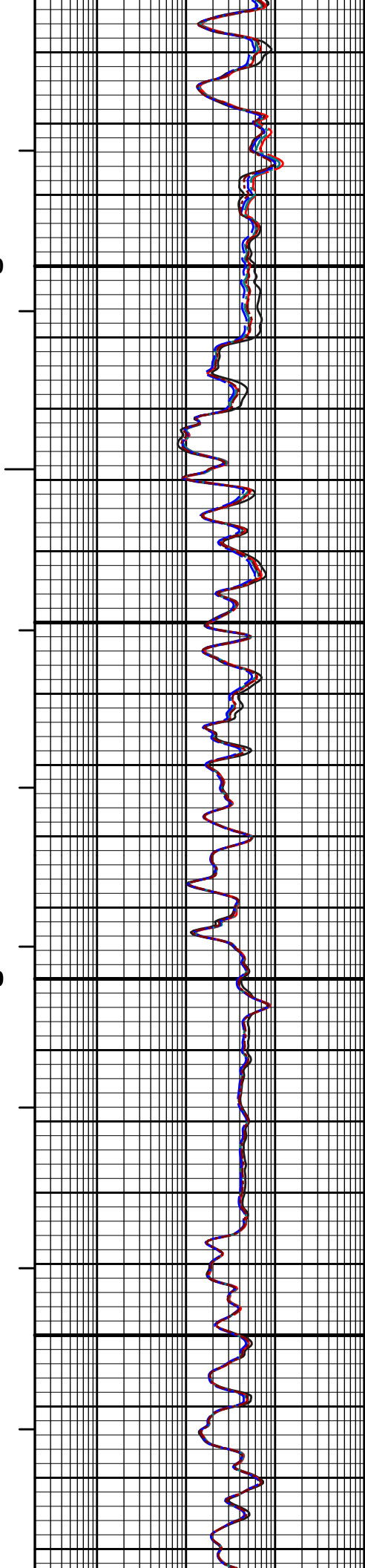


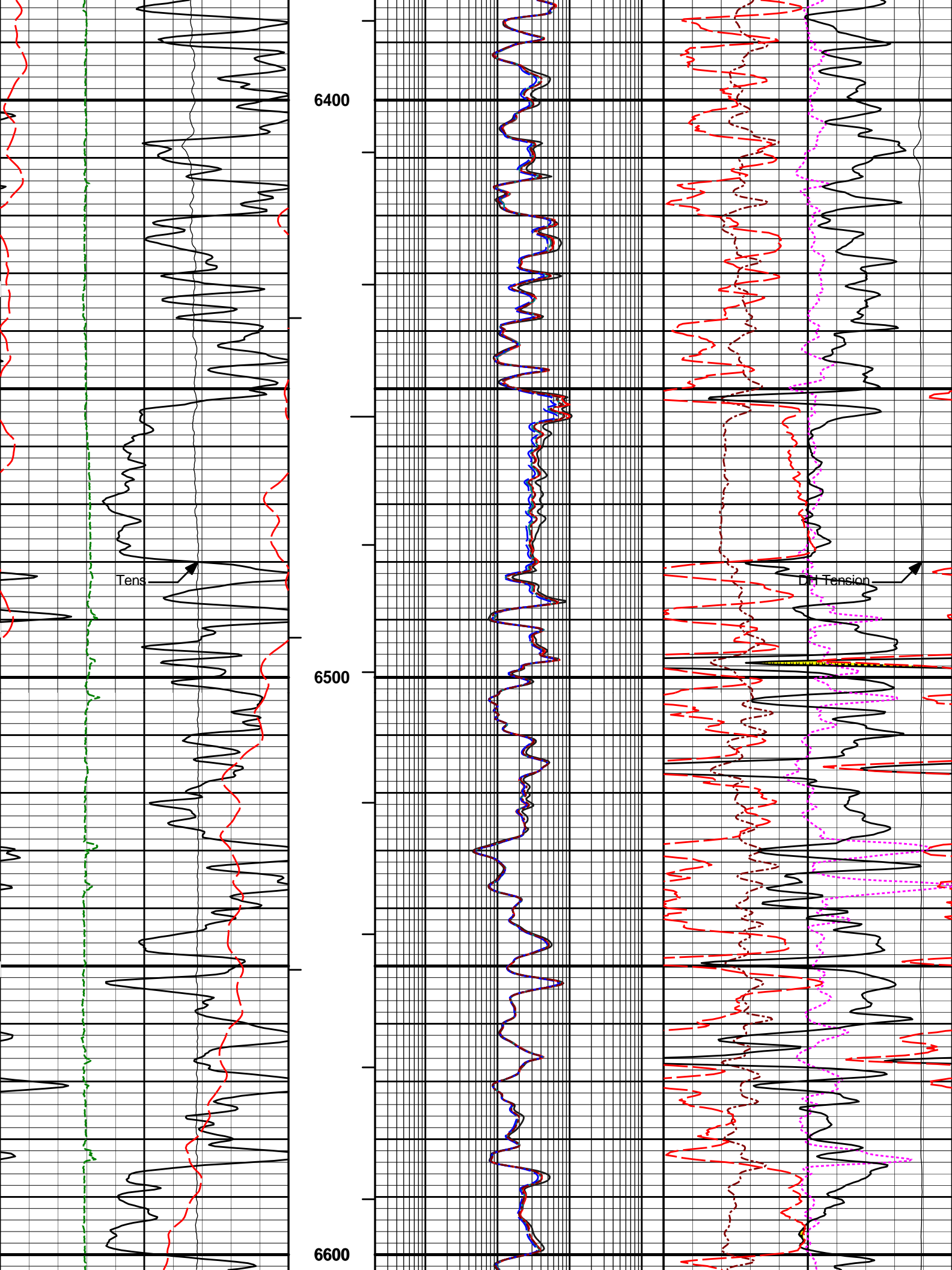


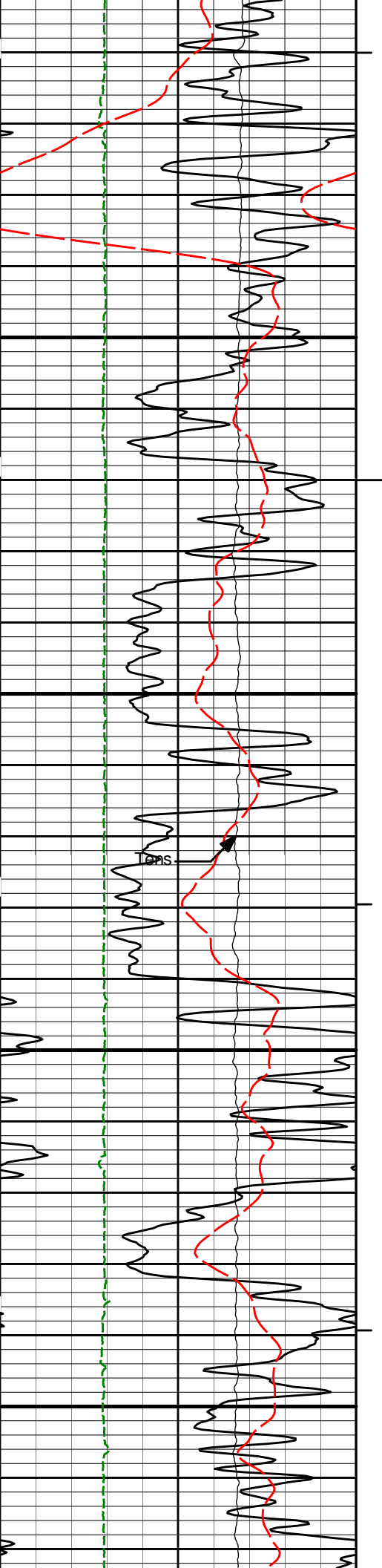


6200

6300

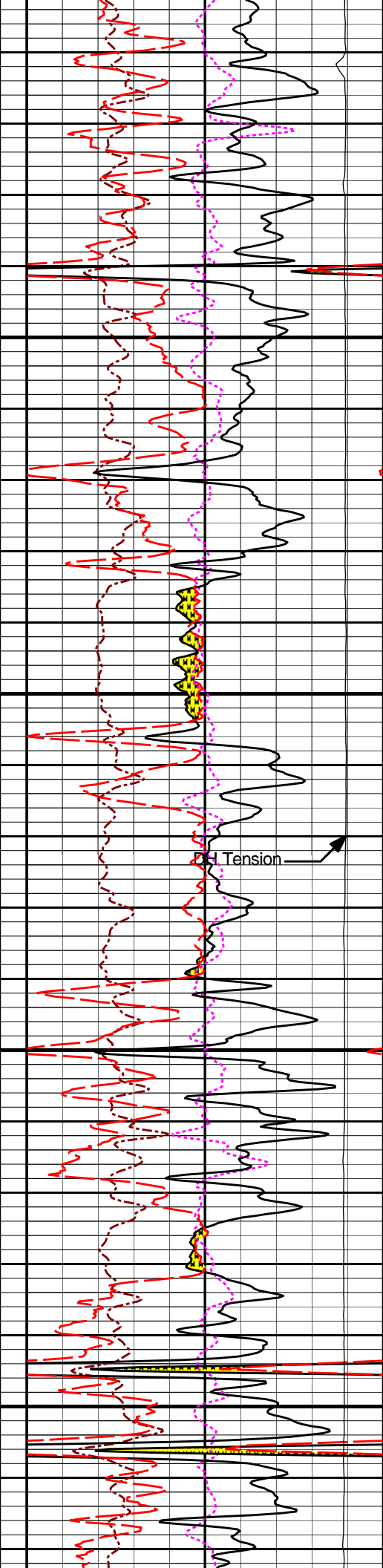
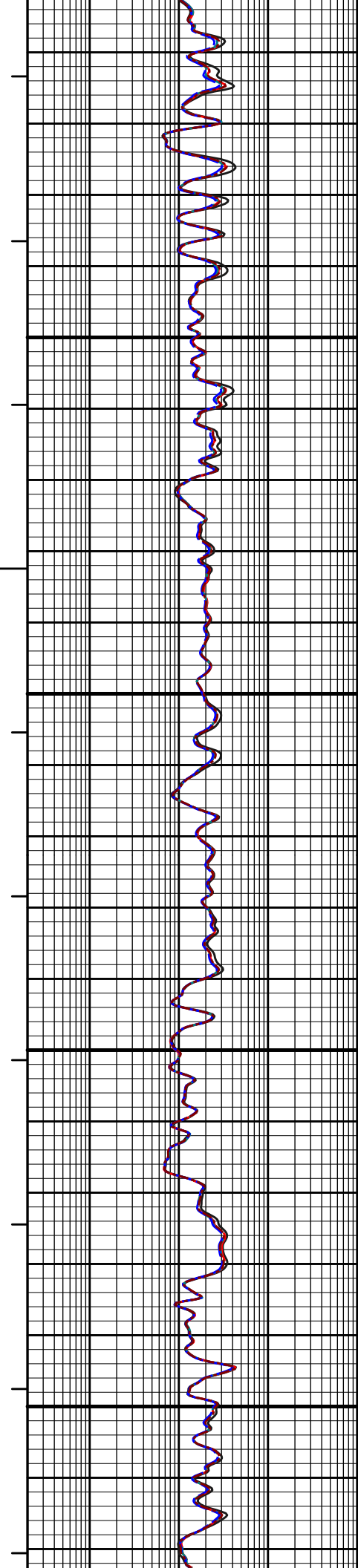


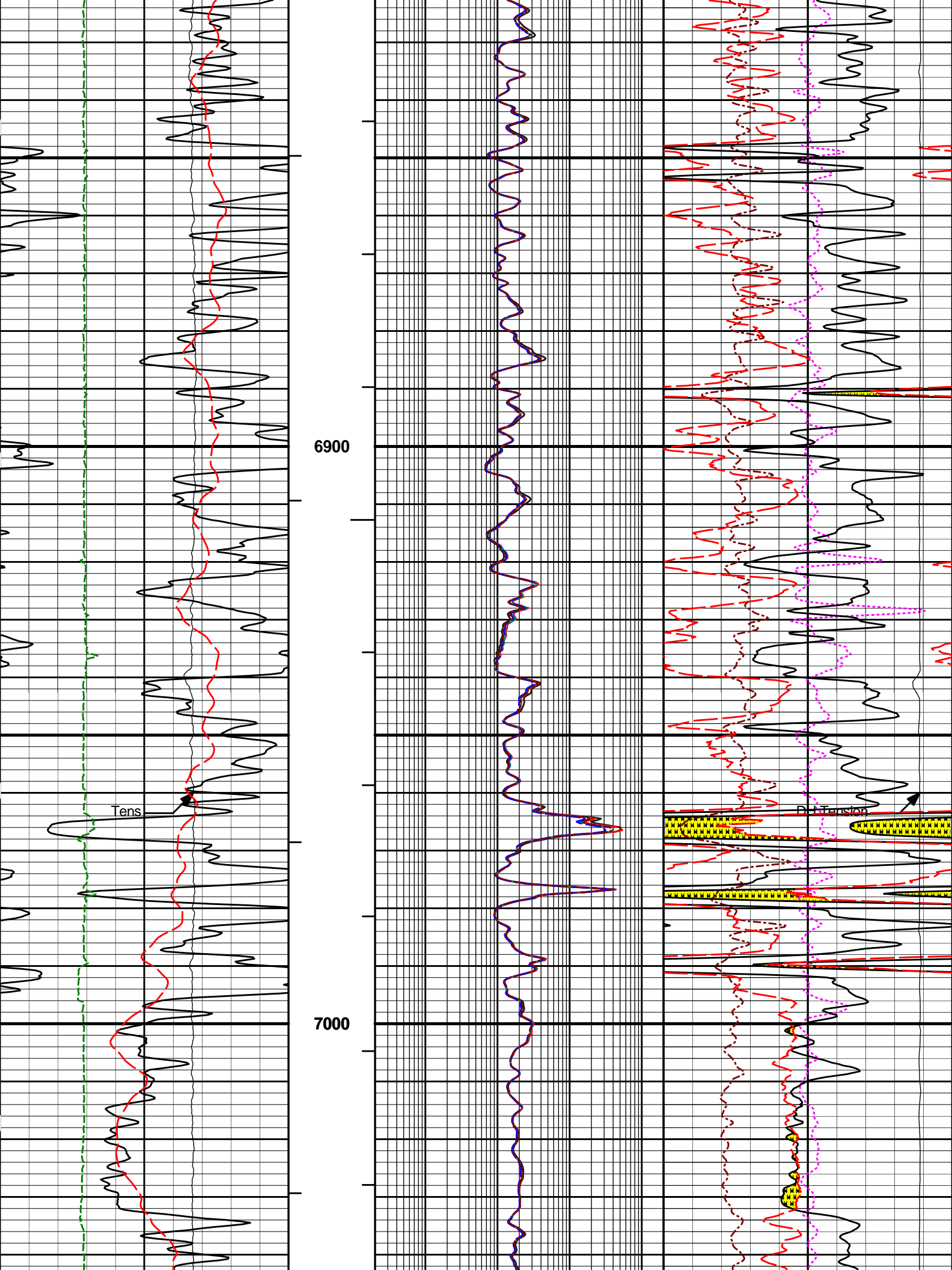


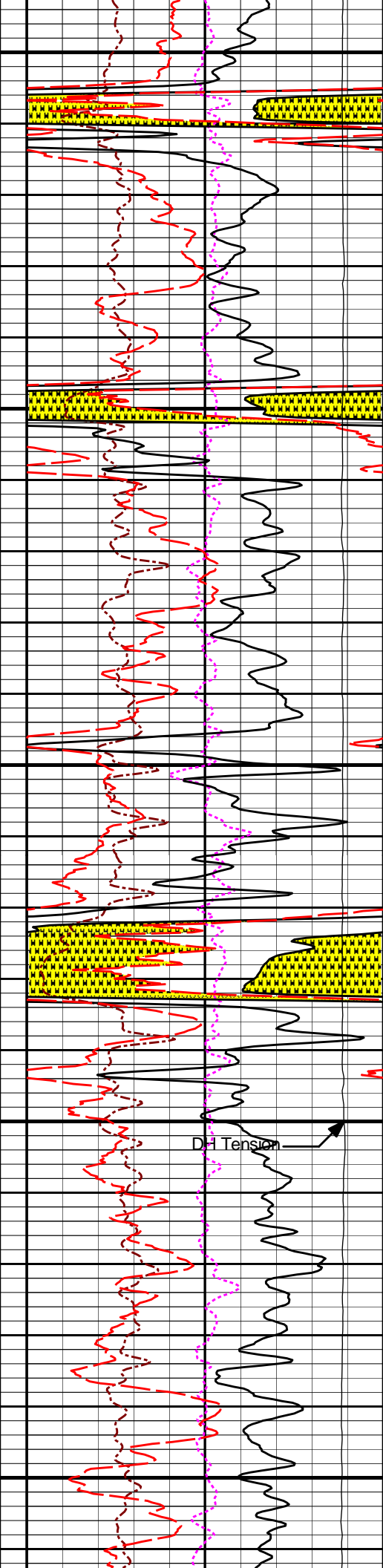
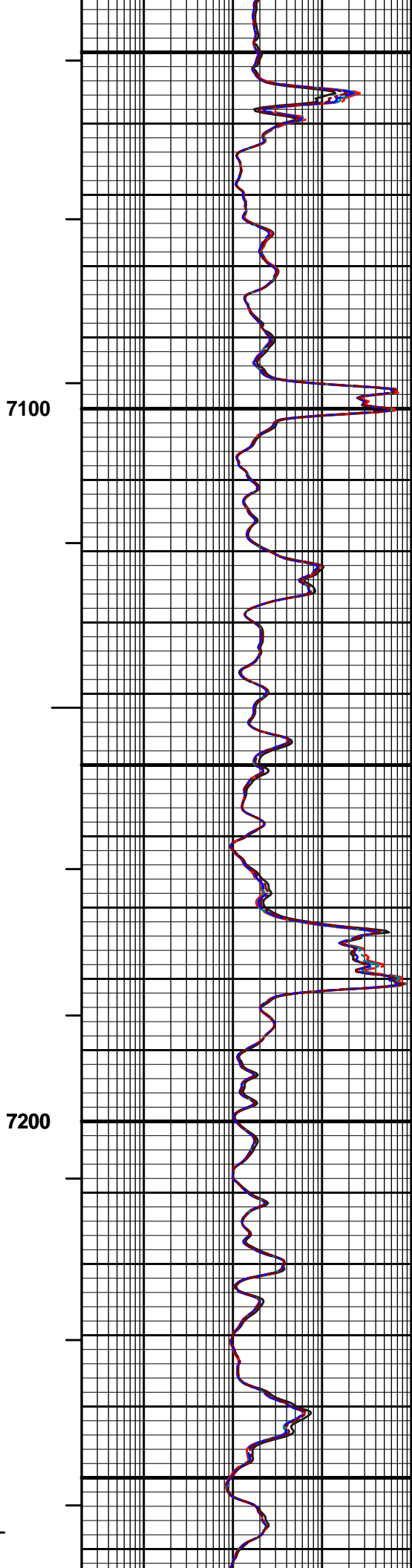
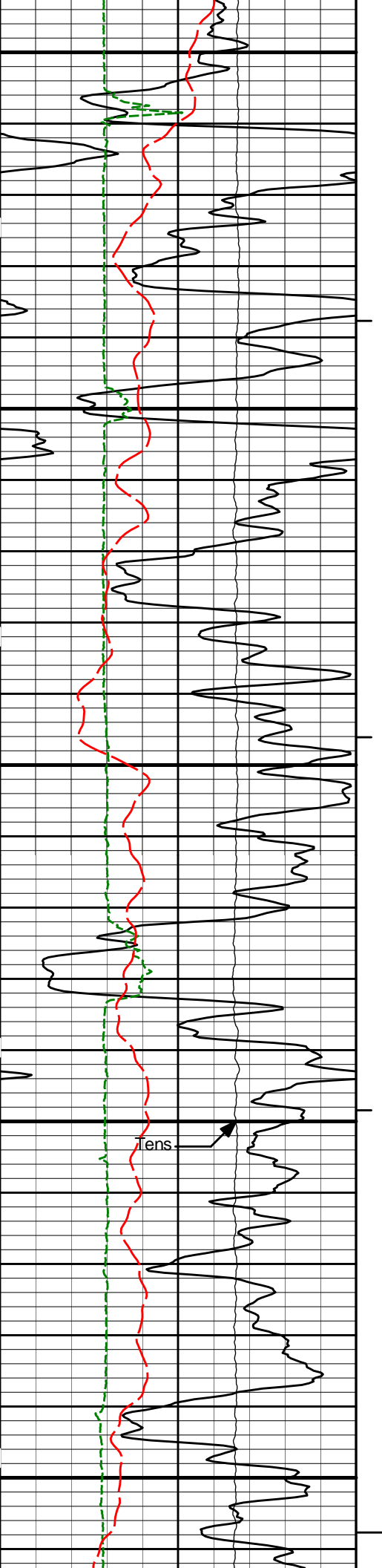


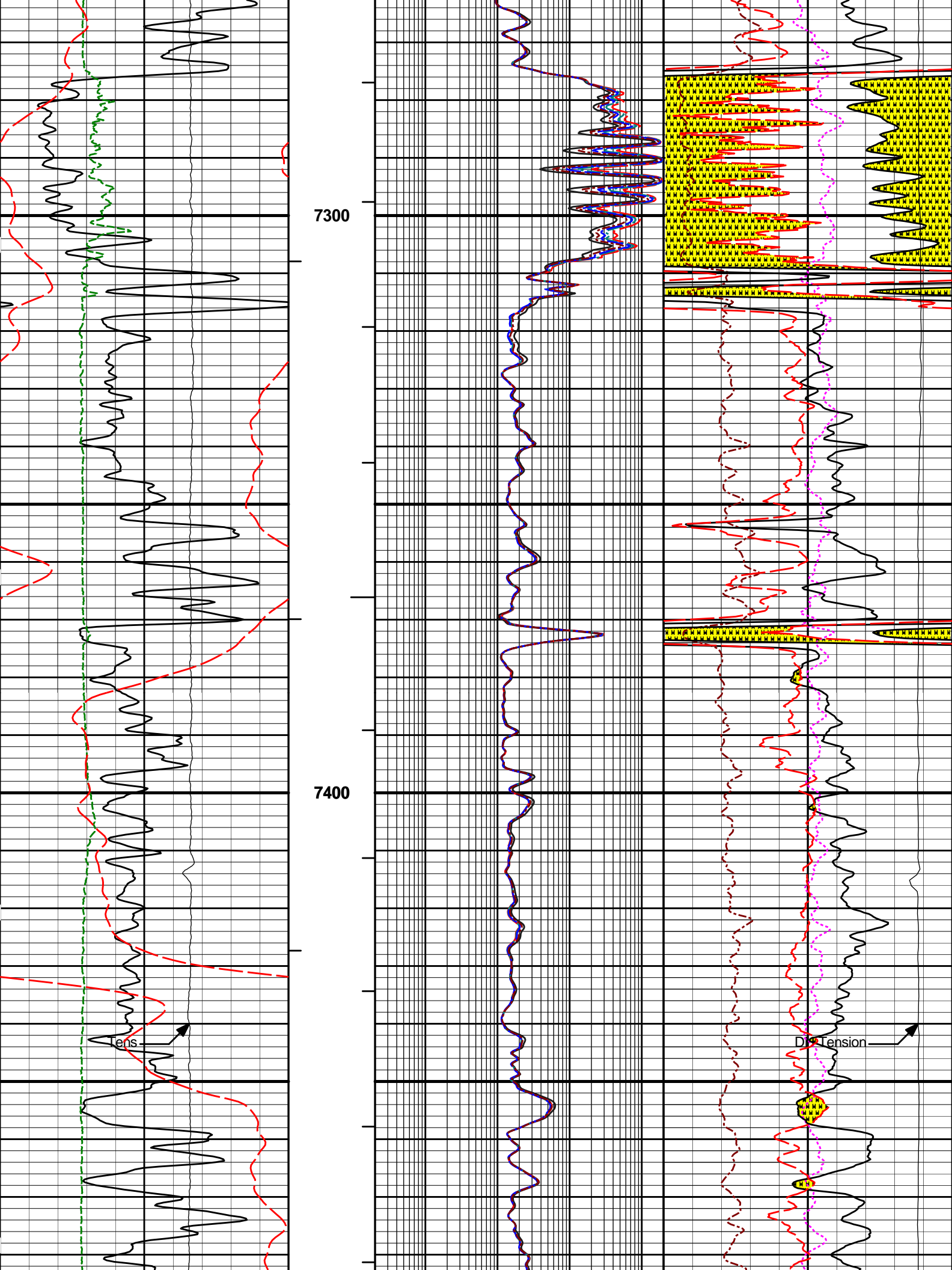
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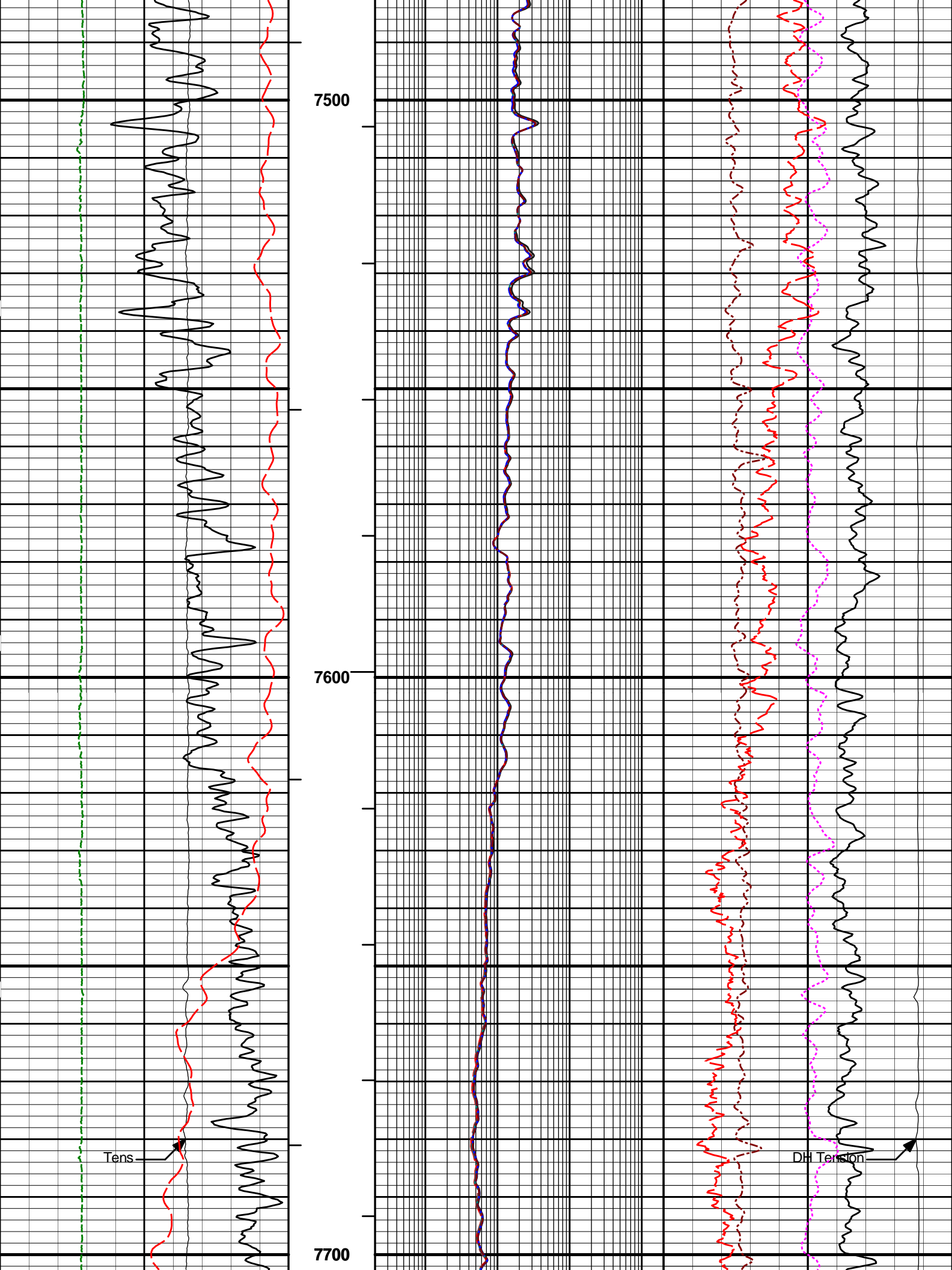
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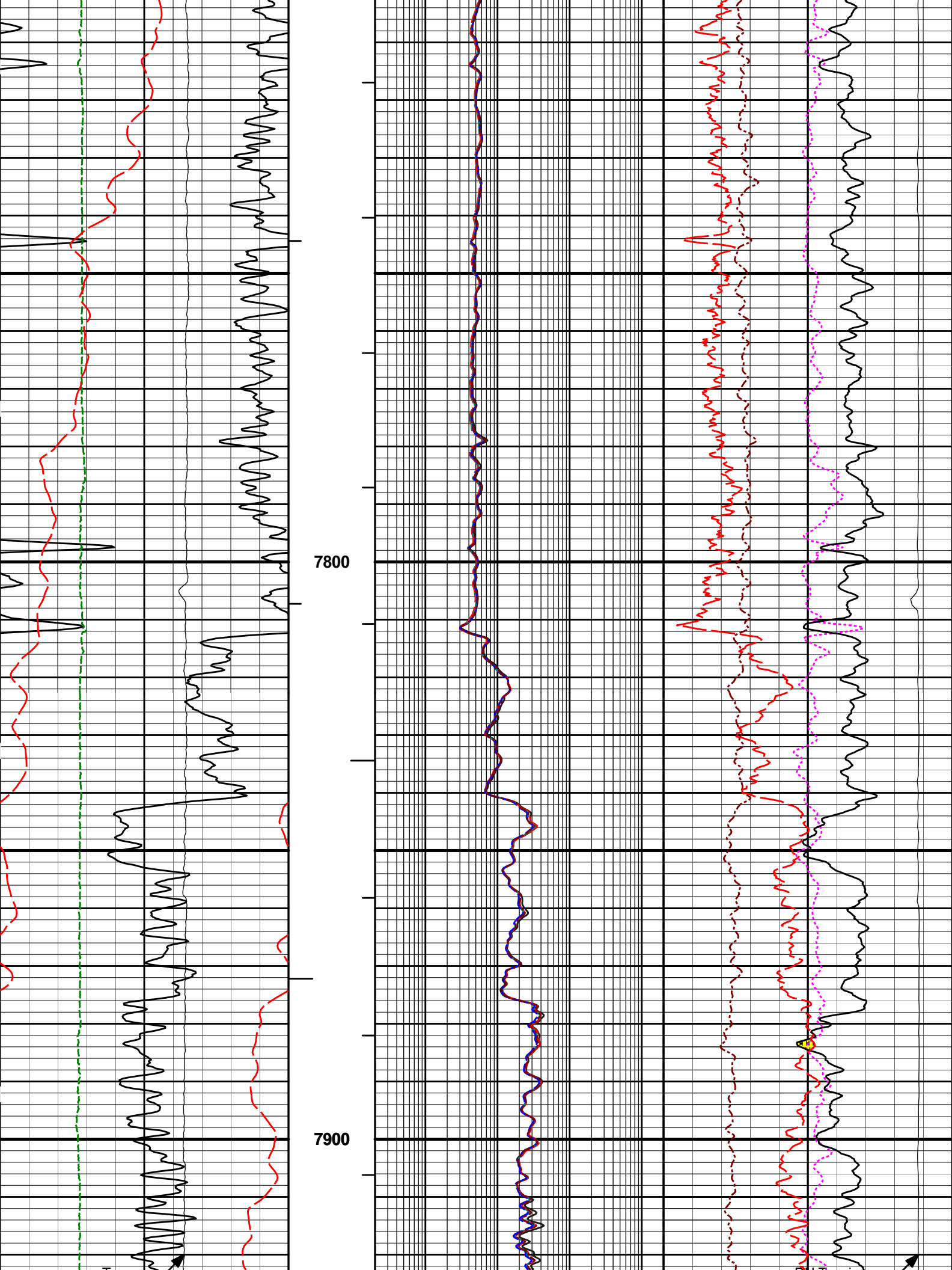


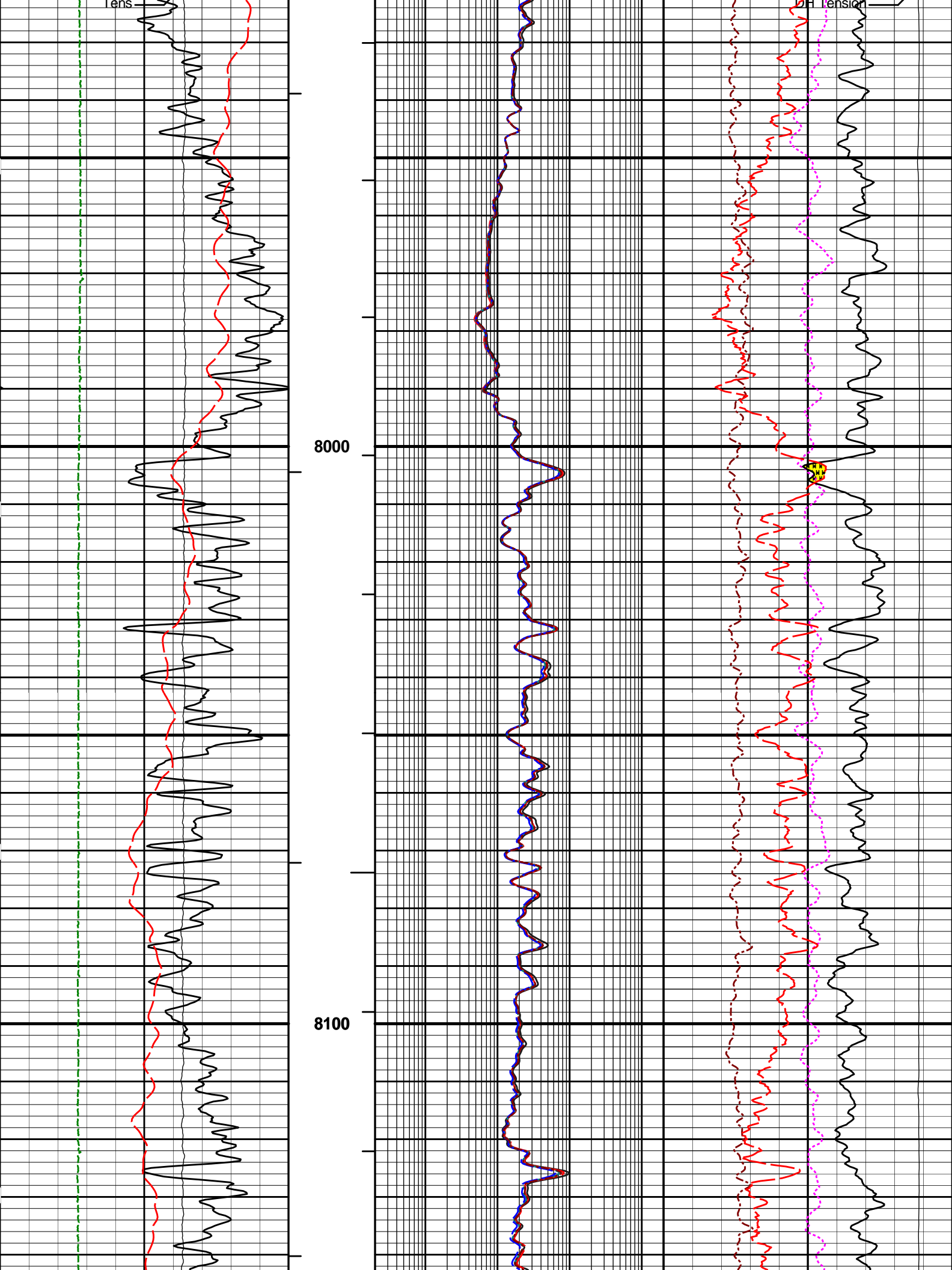


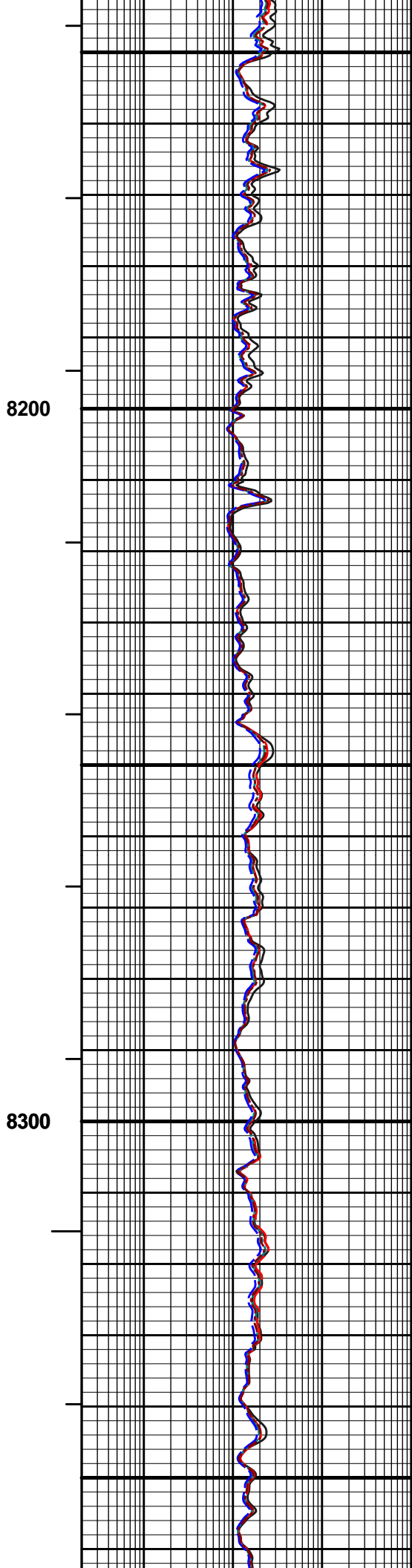
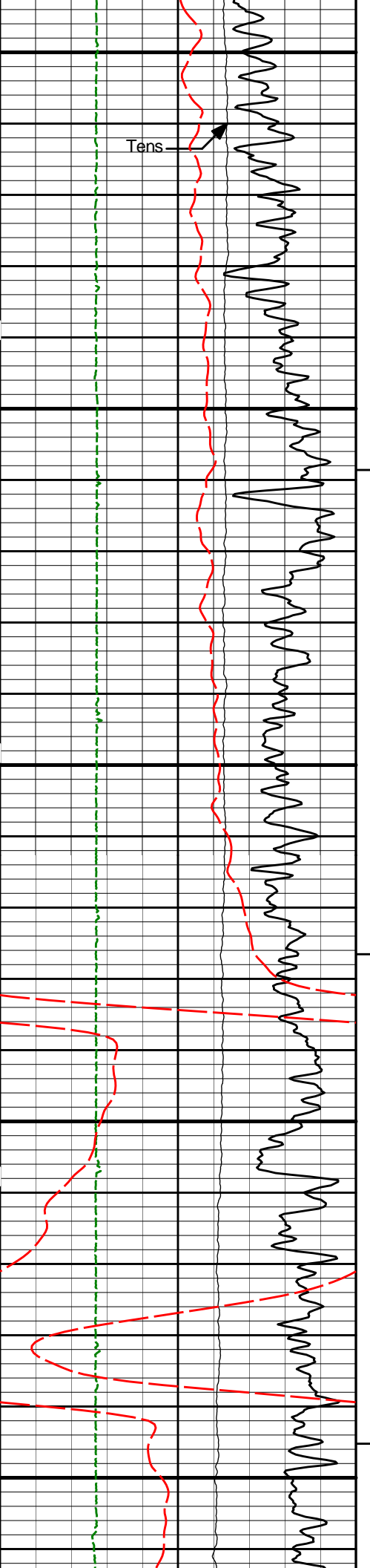






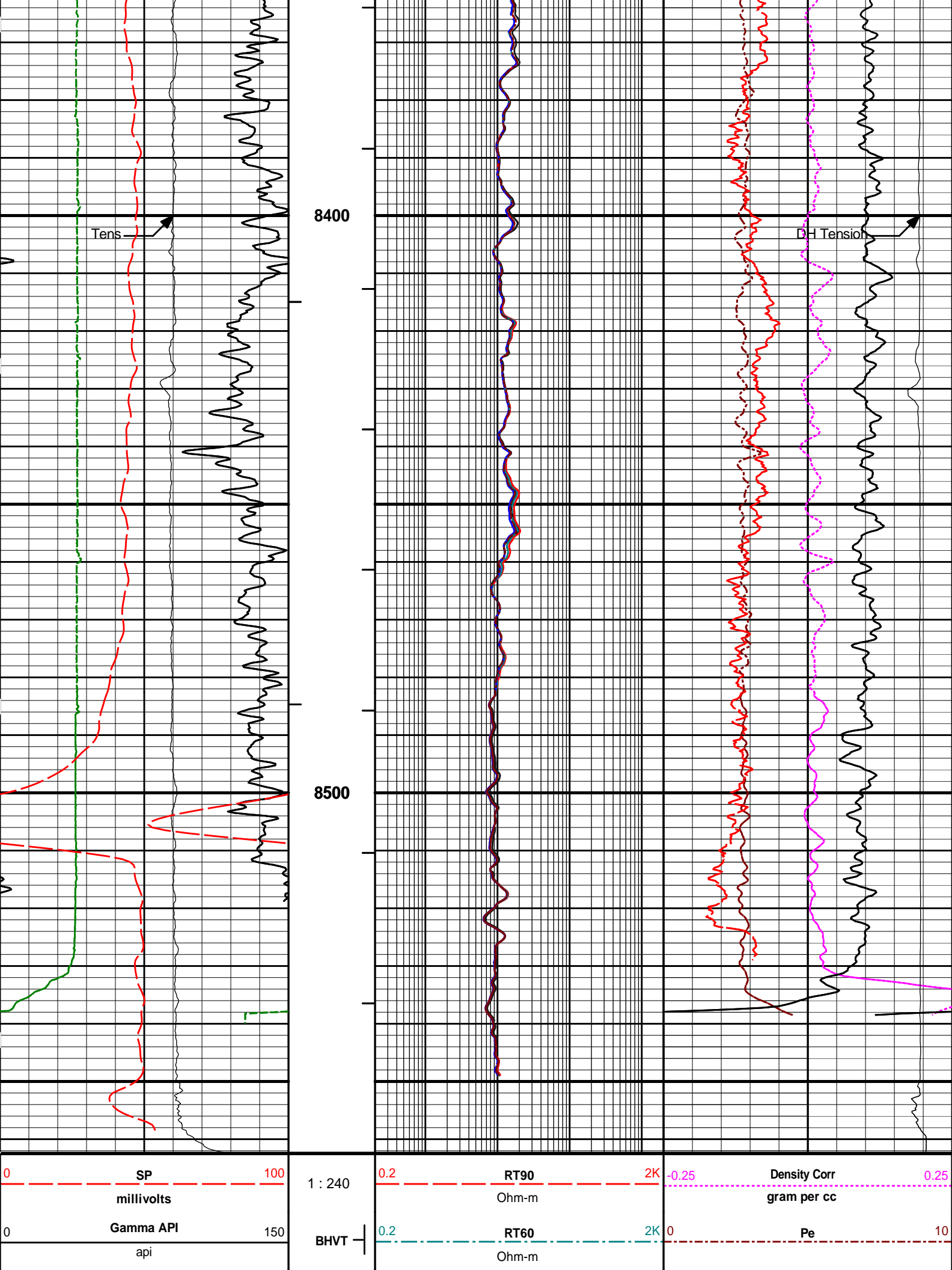






8200

8300



6	Caliper	16	AHVT	0.2	RT30	2K	30	Density Porosity	-10
	inches				Ohm-m			percent	
10K	Tens	0		0.2	RT20	2K	30	Neutron Porosity	-10
	pounds				Ohm-m			percent	
				0.2	RT10	2K	10K	DH Ten	0
					Ohm-m			pounds	

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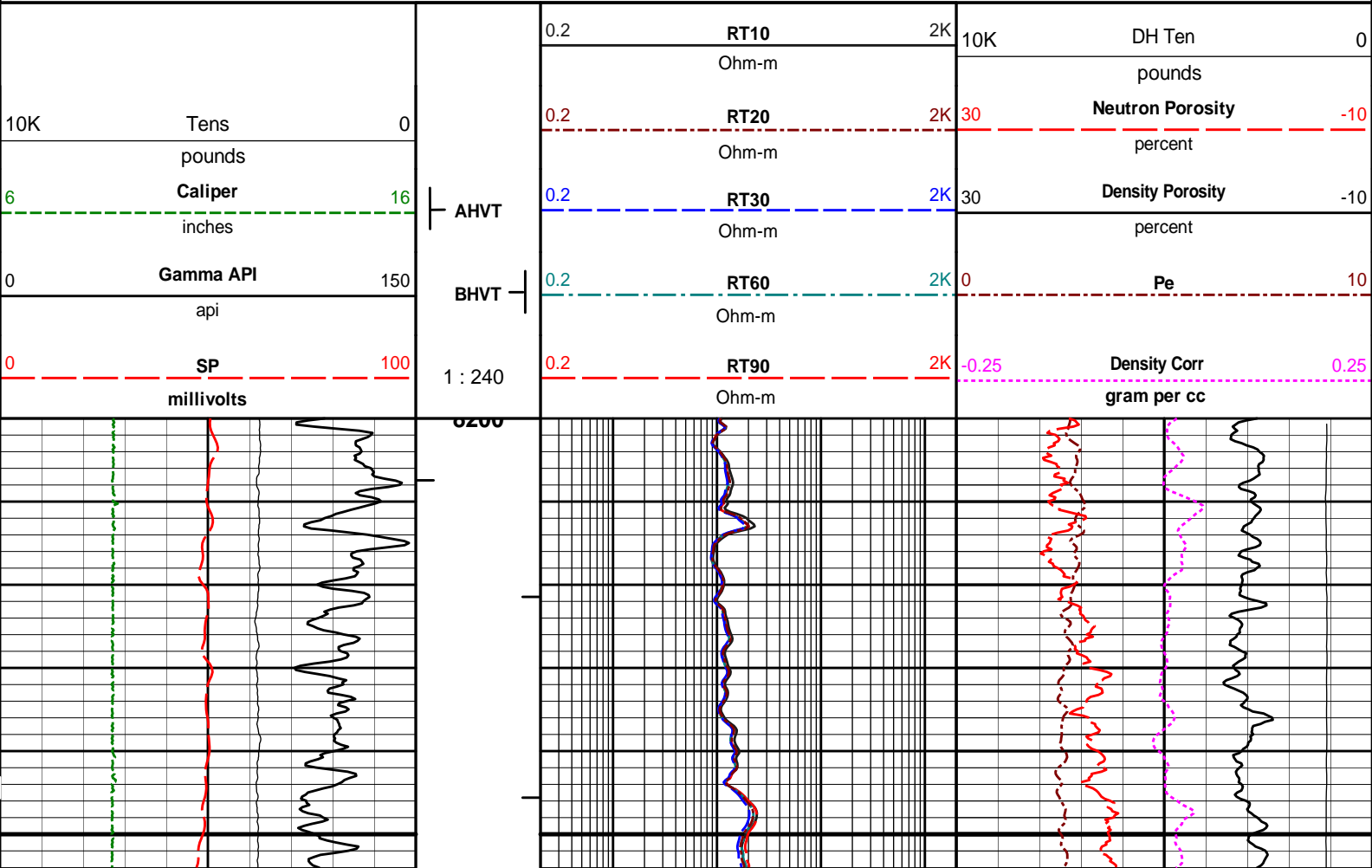
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Plot Range: 1530 ft to 8562.33 ft
Data: LAR_BRUT_1914B\Well Based\MAIN*
Plot File: \\COMP\BP_5IN_COMP_M

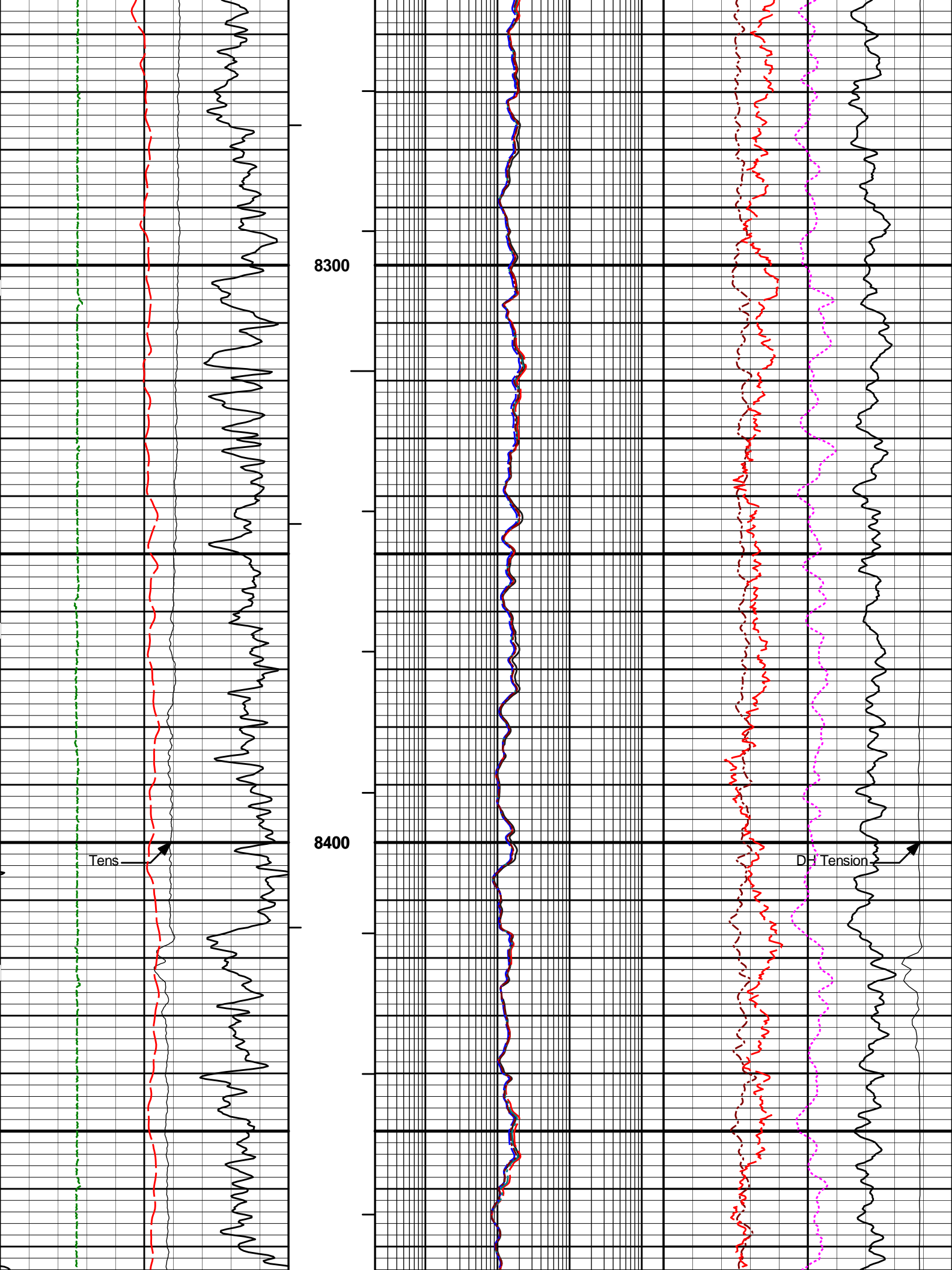
MAIN PASS 5" = 100'

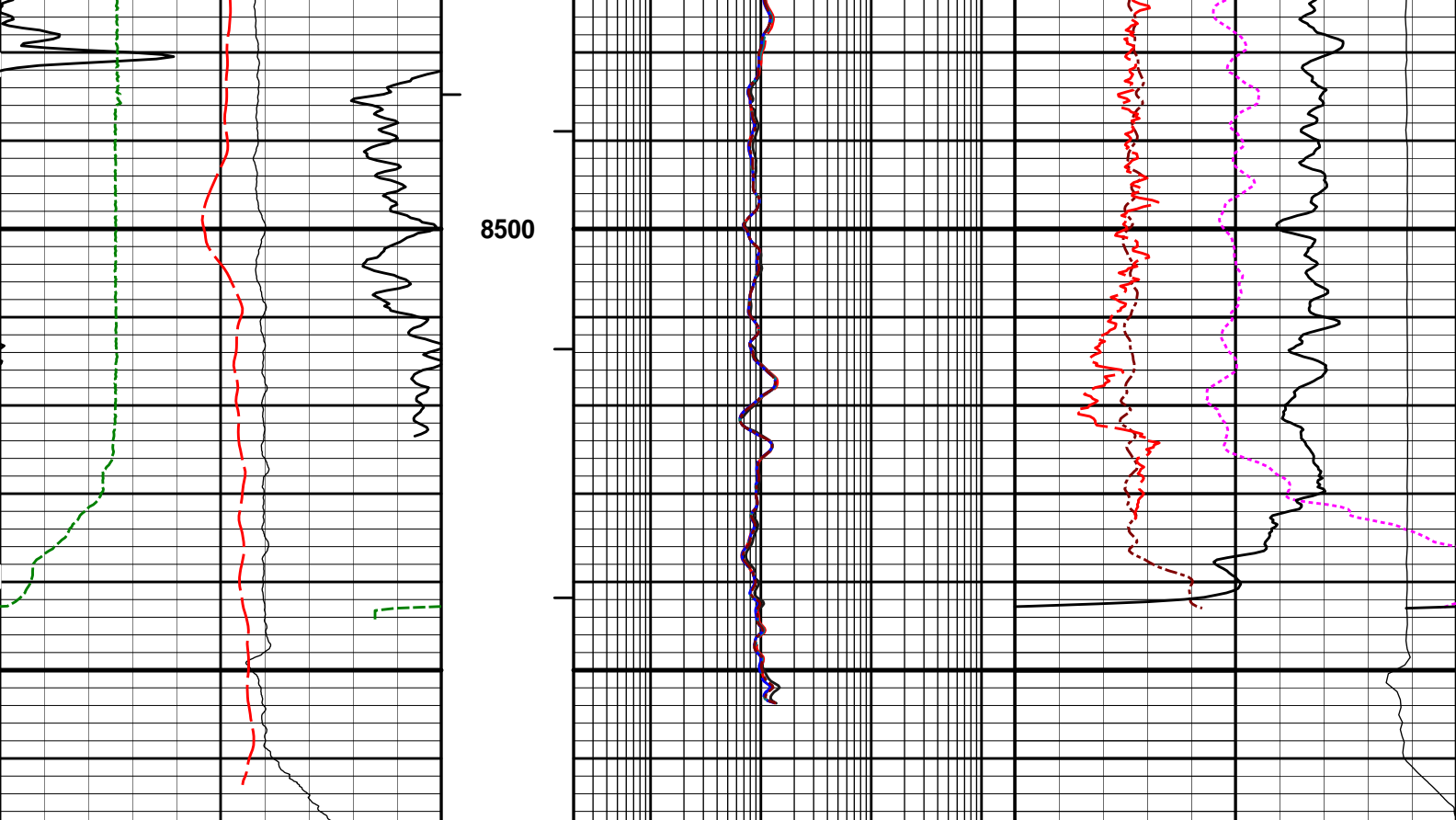
HALLIBURTON

Plot Time: 30-Jan-11 00:21:11
Plot Range: 8200 ft to 8567.17 ft
Data: LAR_BRUT_1914B\Well Based\REPEAT*
Plot File: \\COMP\BP_5IN_COMP_M

MAIN PASS 5" = 100'







0	SP	100	1 : 240	0.2	RT90	2K	-0.25	Density Corr	0.25
	millivolts				Ohm-m			gram per cc	
0	Gamma API	150	BHVT	0.2	RT60	2K	0	Pe	10
	api				Ohm-m				
6	Caliper	16	AHVT	0.2	RT30	2K	30	Density Porosity	-10
	inches				Ohm-m			percent	
10K	Tens	0		0.2	RT20	2K	30	Neutron Porosity	-10
	pounds				Ohm-m			percent	
				0.2	RT10	2K	10K	DH Ten	0
					Ohm-m			pounds	

HALLIBURTON

Plot Time: 30-Jan-11 00:21:14
Plot Range: 8200 ft to 8567.17 ft
Data: LAR_BRUT_1914BWell Based\REPEAT\
Plot File: \\COMP\BP_5IN_COMP_M

MAIN PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11005602	Reference Calibration Date:	09-Dec-10 01:04:05
Engineer:	W. MATSON	Calibration Date:	11-Jan-11 01:31:11

Calibrator Source S/N: 110

Calibrator API Reference:239.00 api

Equivalent Calibrator API Reference:243.2 api

Measurement	Measured	Calibrated	Units
Background	20.0	20.1	api
Background + Calibrator	261.6	263.3	api
Calibrator	243.3	243.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11005602

Reference Calibration Date: 11-Jan-11 01:31:11

Engineer: W. MATSON

Calibration Date: 28-Jan-11 08:00:36

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	20.1	50.1	api
Background + Calibrator	263.3	301.2	api
Calibrator	243.2	251.2	api

Shop	Field	Difference	Tolerance
243.2	251.2	-8.0	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10993887

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: W. MATSON

Calibration Date: 07-Jan-11 15:11:34

Software Version: WL INSITE R3.2.1 (Build 7)

Calibration Version: 1

Logging Source S/N: 388

Tank Serial Number: GJWATERTANK

Reference value assigned to Tank: 52.700

Snow Block S/N: GJ

Calibration Tank Water Temperature: 73 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.950	0.950	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):	0.2166	0.2166	0.0000	+/- 0.0020
Calibrated Ratio:	9.92	9.92	0.000	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0580	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check: Passed

Gain Range Check: Passed

Gain-Range Check:		Passed	
Snow-Block Check:		Passed	
DUAL SPACED NEUTRON FIELD CALIBRATION			
Tool Name:	DSNT - 10993887	Reference Calibration Date:	07-Jan-11 15:11:34
Engineer:	W. MATSON	Calibration Date:	28-Jan-11 08:09:03
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1
Logging Source S/N: 388			
Snow Block S/N: GJ			
NEUTRON FIELD-CHECK SUMMARY			
	Shop	Field	Difference
			Control Limit On Change
Snow-Block Porosity (decp):	0.0580	0.0725	0.0145
			+/- 0.0150
PASS/FAIL SUMMARY			
Block Change Check:		Passed	
Snow Block Stat Check:		Passed	
Temperature Check:		Passed	
SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT - 10951300	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	W. MATSON	Calibration Date:	09-Jan-11 21:28:10
Software Version:	WL INSITE R3.2.1 (Build 7)	Calibration Version:	1
Logging Source S/N: 5153			
Aluminum Block S/N: GJALBLOCK		Density: 2.610g/cc	Pe: 3.100
Magnesium Block S/N: GJMGBLOCK		Density: 1.686g/cc	Pe: 2.594
DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0506	1.0506	0.90 - 1.10
Near Dens Gain	1.0030	1.0030	0.90 - 1.10
Near Peak Gain	0.9822	0.9822	0.90 - 1.10
Near Lith Gain	0.9346	0.9346	0.90 - 1.10
Far Bar Gain	1.0061	1.0061	0.90 - 1.10
Far Dens Gain	0.9929	0.9929	0.90 - 1.10
Far Peak Gain	0.9866	0.9866	0.90 - 1.10
Far Lith Gain	0.9605	0.9605	0.90 - 1.10
Near Bar Offset	-0.3332	-0.3332	NONE
Near Dens Offset	0.1003	0.1003	NONE
Near Peak Offset	0.2782	0.2782	NONE
Near Lith Offset	0.6566	0.6566	NONE
Far Bar Offset	0.0351	0.0351	NONE
Far Dens Offset	0.1232	0.1232	NONE
Far Peak Offset	0.1652	0.1652	NONE
Far Lith Offset	0.3497	0.3497	NONE
Near Bar Background	971.27	971.27	700 - 1450
Near Dens Background	320.77	320.77	230 - 480
Near Peak Background	138.03	138.03	100 - 210
Near Lith Background	172.57	172.57	125 - 260
Far Bar Background	569.00	569.00	450 - 900
Far Dens Background	220.32	220.32	175 - 345
Far Peak Background	87.22	87.22	70 - 140
Far Lith Background	68.86	68.86	55 - 115

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.686	1.686	0.000	+/- 0.015
Pe	2.555	2.555	0.000	+/- 0.150
ALUMINUM				
Density (g/cc)	2.610	2.610	0.000	+/- 0.01500
Pe	3.064	3.064	0.000	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0004	+/- 0.0110	-0.0001	+/- 0.0140
Magnesium Block	0.0005	+/- 0.0110	-0.0006	+/- 0.0140
Aluminum Block	-0.0002	+/- 0.0110	-0.0010	+/- 0.0140
Resolution	9.73	6.00 - 11.50	8.98	6.00 - 11.50
Internal Verifier(B+D+P+L)	1603	1200 - 2700	970	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

SPECTRAL DENSITY FIELD CHECK

Tool Name:	SDLT - 10951300	Reference Calibration Date:	09-Jan-11 21:28:10
Engineer:	W. MATSON	Calibration Date:	28-Jan-11 08:01:03
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	1602.639	1598.370	-4.269	16.097
Far (B+D+P+L) cps	969.617	972.619	3.002	16.743
Near Resolution	9.73	9.90	0.170	0.50
Far Resolution	8.98	9.25	0.270	1.00

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10951300	Reference Calibration Date:	01-Jan-70 00:00:00
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Engineer: C. BLUE		Calibration Date: 19-Jan-11 10:33:30			
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	-2578.65	-2578.65	-7000.00 - -1000.00	
	Pad Gain	0.0003758	0.0003758	0.000200 - 0.000600	
	Arm Offset	-2692.68	-2692.68	-5000.00 - 3000.00	
	Arm Gain	0.0004979	0.0004979	0.000300 - 0.000700	
	Arm Power	-0.000001870	-0.000001870	-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)	2.00	2.00	0.00	+/- 0.20
	Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
	RING DIAMETER:				
	Small Ring (in)	6.50	6.50	0.00	+/- 0.20
	Medium Ring (in)	8.25	8.25	0.00	+/- 0.20
	Large Ring (in)	15.00	15.00	0.00	+/- 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 - 10951300		Reference Calibration Date: 19-Jan-11 10:33:30			
Engineer: W. MATSON		Calibration Date: 28-Jan-11 08:04:17			
Software Version: WL INSITE R3.2.1 (Build 7)		Calibration Version: 1			

	MEASURED CALIPER VALUES				
	Measurement	Shop	Field	Change	Control Limit On New Value
	Pad Extension	3.75	3.67	-0.08	+/- 0.10
	Ring Diameter	8.25	8.39	0.14	+/- 0.15
PASS/FAIL SUMMARY					
Pad Extension Check:				Passed	
Diameter Check:				Passed	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION					
Tool Name: ACRt - 90190515-E9775-		Reference Calibration Date: 12-Aug-10 15:02:00			
Engineer: W. MATSON		Calibration Date: 11-Dec-10 13:11:55			
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	0.9985	1.05	0.95	1.0002	1.05	0.95	1.0000	1.05
A2 (50")	0.95	0.9984	1.05	0.95	1.0004	1.05	0.95	0.9998	1.05

A3 (29")	0.95	0.9890	1.05	0.95	0.9914	1.05	0.95	0.9890	1.05
A4 (17")	0.95	0.9980	1.05	0.95	0.9978	1.05	0.95	0.9980	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9936	1.05	0.95	0.9930	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9793	1.05	0.95	0.9773	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	-0.797	2	-6	-4.687	-2	-8	-4.618	-2
A2 (50")	-7	-1.681	-1	-6	-2.927	-2	-7	-4.792	-2
A3 (29")	-27	-12.830	-9	-9	-3.447	-3	-7	-3.353	-1
A4 (17")	-180	-102.642	-60	-45	-32.425	-15	-39	-25.728	-13
A5 (10")	N/A	N/A	N/A	-150	-85.353	-50	-80	-43.176	-10
A6 (6")	N/A	N/A	N/A	175	315.675	525	90	158.083	270


TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.8635	1.3		Mud Cell	0.95	1.005	1.05
36K	1.0	1.8975	2.0					
72K	1.0	1.1171	2.0					

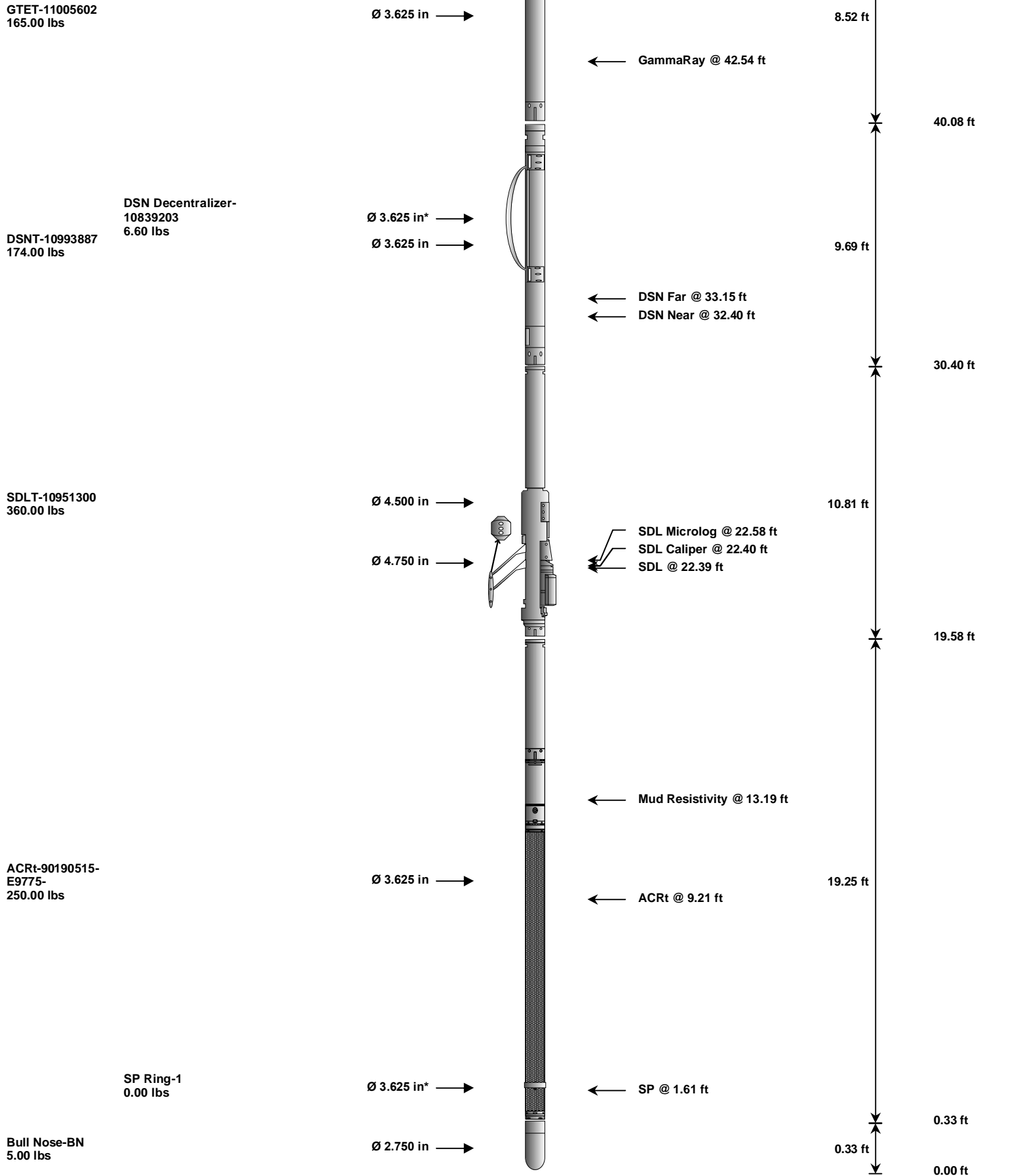
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11005602						
Gamma Ray Calibrator	243.2	251.2	-----	-8.0	+/- 9.00	api
DSNT-10993887						
Snow-Block Porosity	0.0580	0.0725	-----	-0.0145	+/- 0.0150	decp
SDLT-10951300						
Near(B+D+P+L)	1602.639	1598.370	-----	4.269	+/-16.097	cps
Far(B+D+P+L)	969.617	972.619	-----	-3.002	+/-16.743	cps
Pad Extension	3.75	3.67	-----	0.08	+/-0.10	in
Ring Diameter	8.25	8.39	-----	-0.140	+/-0.15	in
ACRt-90190515-E9775-						
Mud Cell	1.005	-----	-----	0.000	-----	ohm-m

Data: LAR_BRUT_1914B\0002 TRIPLENDLE	Date: 29-Jan-11 22:44:36
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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
						48.60 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		11005602	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron		10993887	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer		10839203	6.60	5.13	* 33.73	300.00
SDLT	Spectral Density Tool		10951300	360.00	10.81	19.58	60.00
ACRt	Array Compensated True Resistivity		90190515-E9775-	250.00	19.25	0.33	300.00

SP	SP Ring	1	0.00	0.25	*	1.61	300.00
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: LAR_BRUT_1914B\0002 TRIPLE\003 29-Jan-11 22:16 Up @8562.5f							Date: 29-Jan-11 22:23:05

COMPANY	LARAMIE ENERGY		
WELL	BRUTON 19-14B		
FIELD	BRUSH CREEK		
COUNTY	MESA	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY	