

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY		AXIA ENERGY LCC	
WELL		KIMBALL CREEK 23-210D-995	
FIELD		BUZZARD	
COUNTY		MESA	
STATE		CO	
Permanent Datum		GL	Elev. 6368.0 ft
Log measured from		KB	25.0 ft above perm. Datum
Drilling measured from		KB	Elev. 6393.0 ft
Date		03-Feb-11	G.L. 6368.0 ft
Run No.		ONE	
Depth - Driller		6720.00 ft	
Depth - Logger		6718.0 ft	
Bottom - Logged Interval		6709.0	
Top - Logged Interval		1541.0 ft	
Casing - Driller		8.625 in @ 1560.0 ft	@
Casing - Logger		1541.0 ft	@
Bit Size		7.875 in	@
Type Fluid in Hole		WBM	@
Density	Viscosity	9.1 ppq	52.00 s/qt
PH	Fluid Loss	10.30 pH	6.4 cpm
Source of Sample		MUD TANK	
Rm @ Meas. Temperature		1.380 ohmm @ 58.20 degF	@
Rmf @ Meas. Temperature		0.93 ohmm @ 75.00 degF	@
Rmc @ Meas. Temperature		0.985 ohmm @ 75.00 degF	@
Source Rmf	Rmc	CHART	CHART
Rm @ BHT		0.56 ohmm @ 153.0 degF	@
Time Since Circulation		5.0 hr	
Time on Bottom		03-Feb-11 22:58	
Max. Rec. Temperature		153.0 degF @ 6718.0 ft	@
Equipment	Location	11014853	G.J., CO
Recorded By		W. MATSON	
Witnessed By		ROGER BARBER	

Fold here

Service Ticket No.: 7945839		API Serial No.: 05077101200000		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 9019051E	N/A	1.5" S.O.
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.	11004661	Serial No.		Serial No.	10951314	Serial No.	10993888
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diam eter	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
Lenath	8"	LSA IY/NI		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						
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix	
No.	From	To	ft/min	L	R	L	R		L	R		L	R		
ONE	TD	CSG	REC	0	150				30%	-10%	2.68 g/cc	30%	-10%	SAND	
DIRECTIONAL INFORMATION															
Maximum Deviation				@				KOP				@			
Remarks:															
RWCH-GTET-DSN-SDL-ACRT RAN IN COMBINATION															
ANNULAR HOLE VOLUME CALCULATED FOR 4.5" PRODUCTION CASING															
TENSION PULLS MAY AFFECT TOOL RESPONSE															
YOUR CREW TODAY: J. WILKERSON, M. BRANDELL RIG: HP 307															
THANKYOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, GRAND JUNCTION, CO (970)523-3600															
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	9.100	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	1.380	ohmm
	SHARED	TRM	Temperature of Mud	58.2	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	6720.00	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	
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

Data: AX_KC_23_210_99I0001 QUAD\IDLE

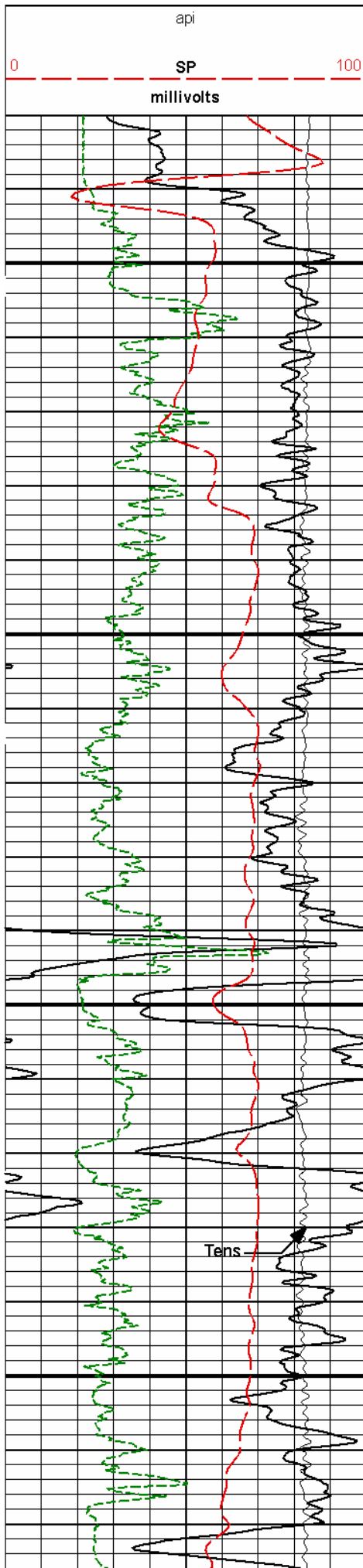
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HALLIBURTON

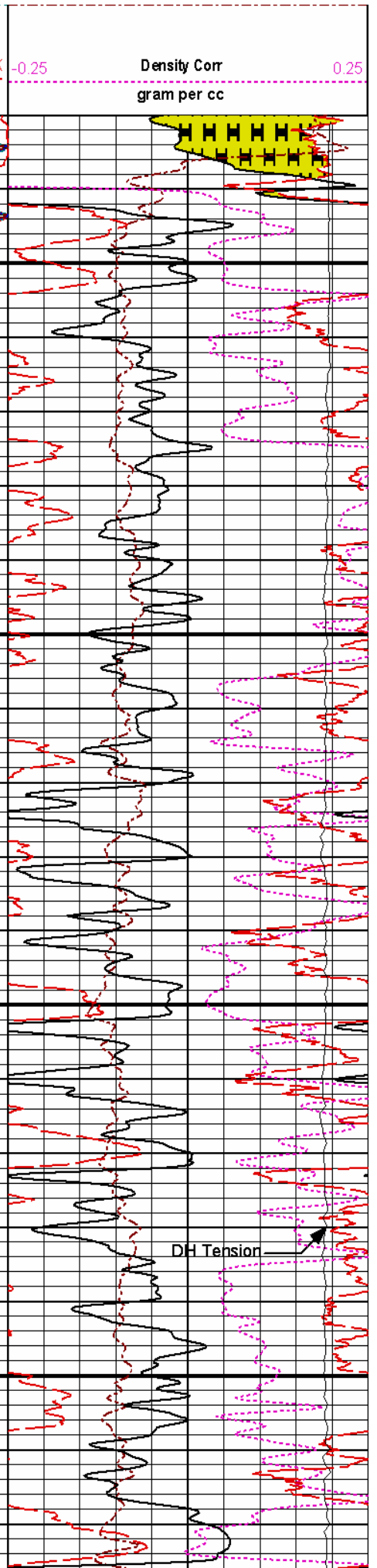
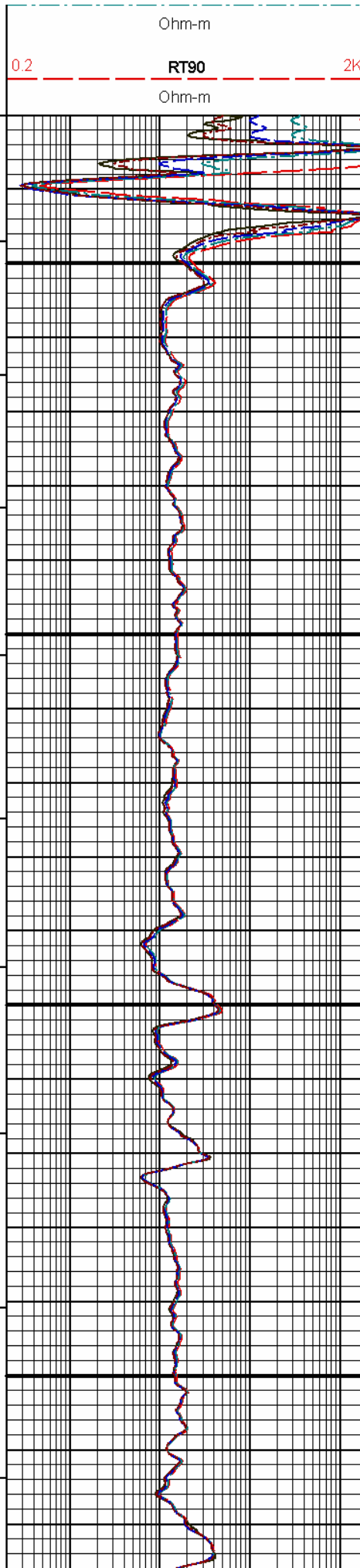
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Plot Range: 1530 ft to 6726.42 ft
Data: AX_KC_23_210_99IWell Based\MAIN*
Plot File: \COMP\BP_5IN_COMP_M

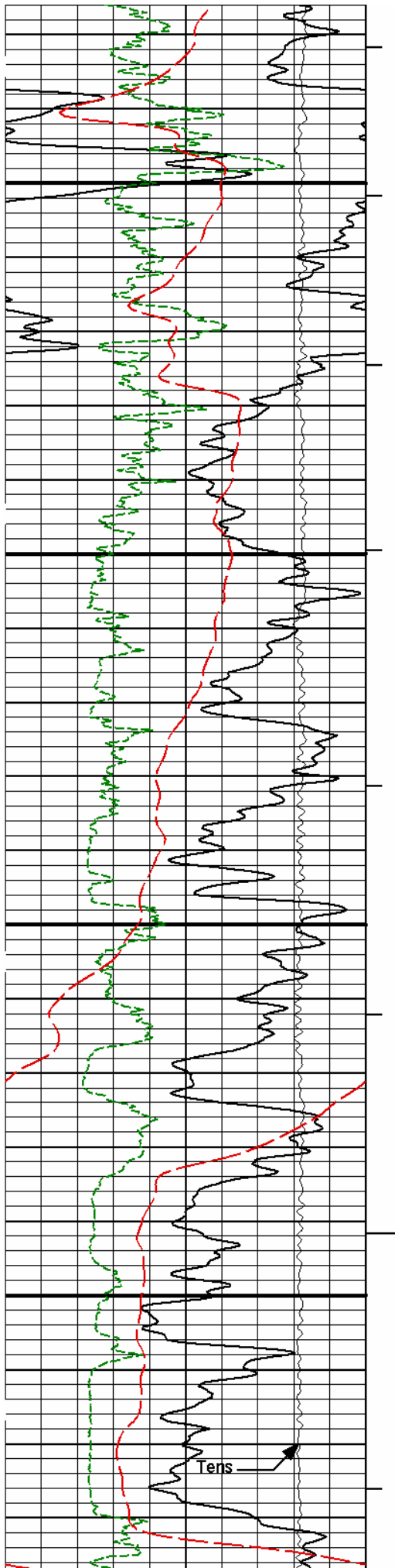
MAIN PASS 5" = 100'

<div>10K</div> <div>Tens</div> <div>0</div> <div>pounds</div> <div>Caliper</div> <div>6</div> <div>16</div> <div>inches</div> <div>Gamma API</div> <div>0</div> <div>150</div>			<div>AHVT</div> <div>0.2</div> <div>RT10</div> <div>2K</div> <div>Ohm-m</div> <div>0.2</div> <div>RT20</div> <div>2K</div> <div>Ohm-m</div> <div>0.2</div> <div>RT30</div> <div>2K</div> <div>Ohm-m</div> <div>0.2</div> <div>RT60</div> <div>2K</div> <div>Ohm-m</div>			<div>10K</div> <div>DH Ten</div> <div>0</div>		
						<div>pounds</div>		
						<div>Neutron Porosity</div> <div>30</div> <div>-10</div>		
						<div>percent</div>		
						<div>Density Porosity</div> <div>30</div> <div>-10</div>		
<div>percent</div>								
<div>Pe</div> <div>0</div> <div>10</div>								



1 : 240

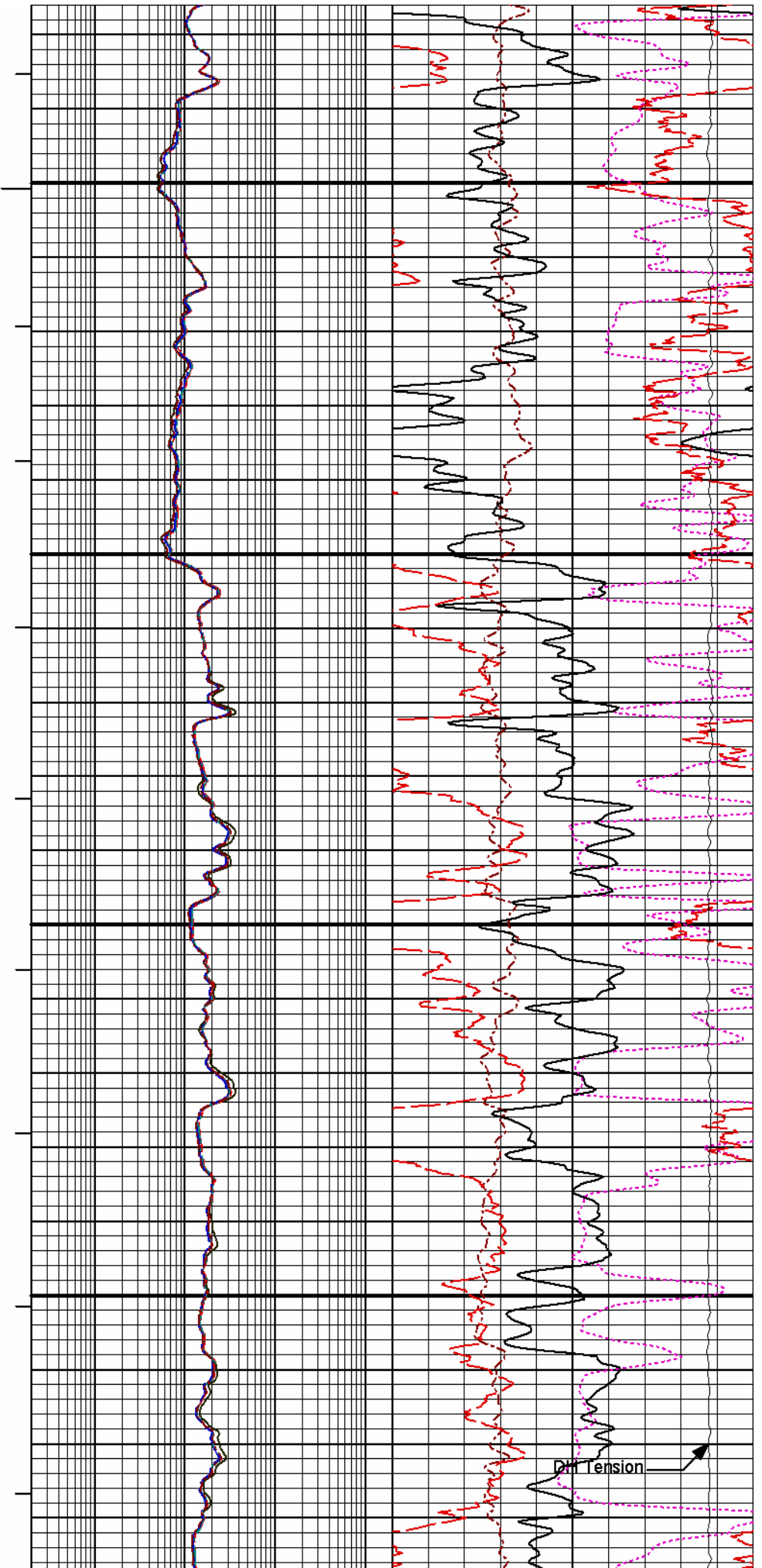




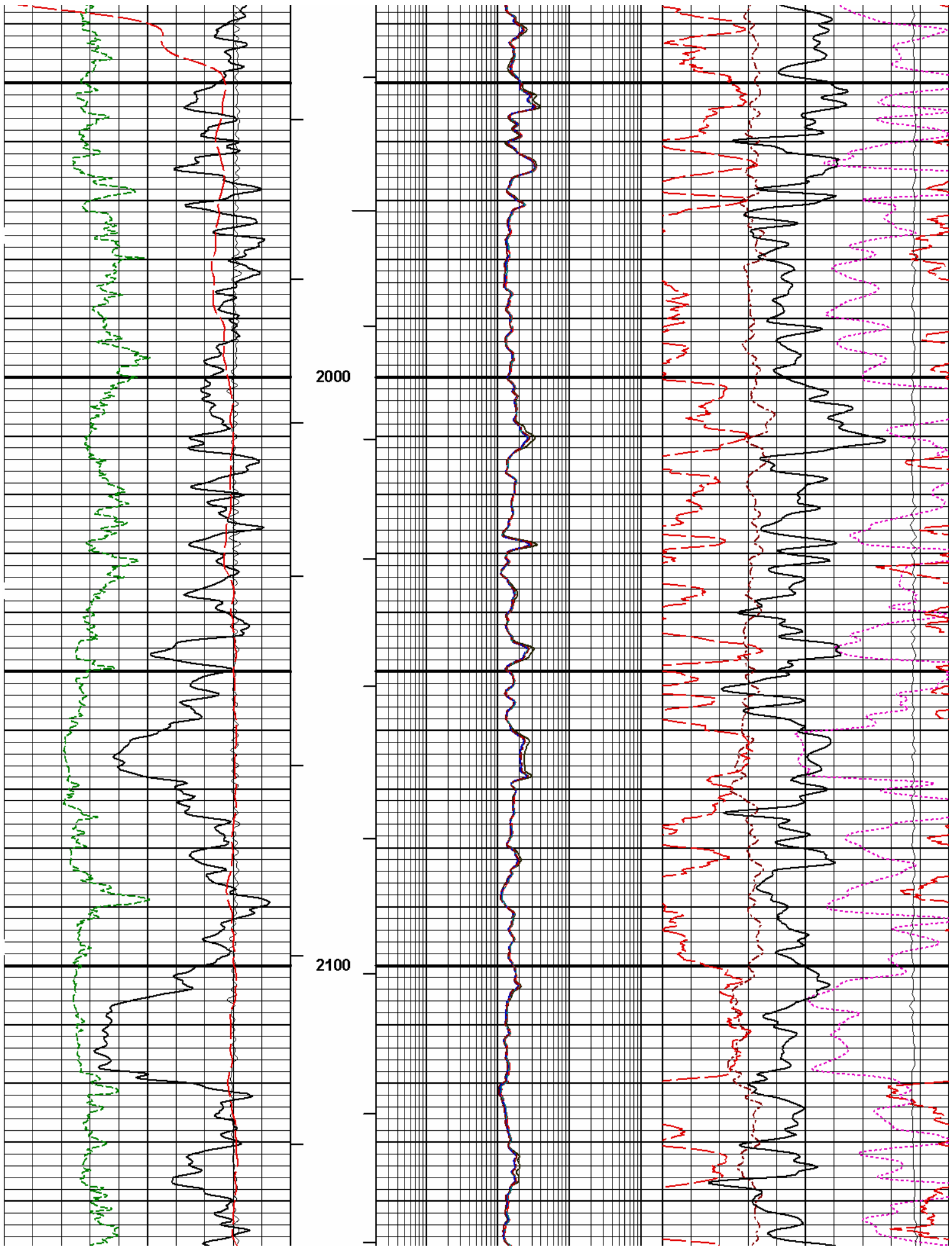
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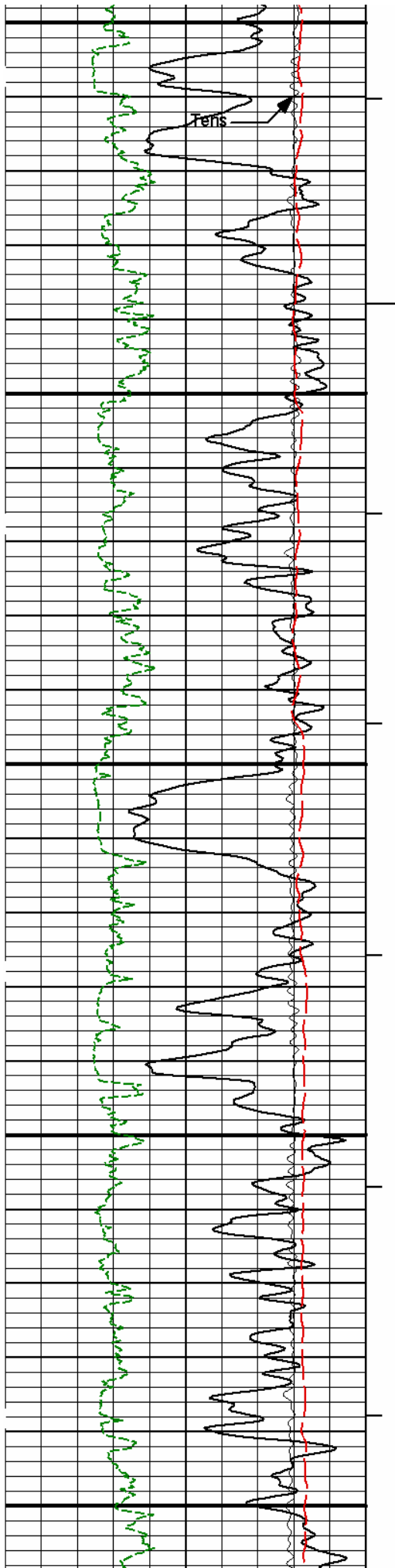
1900

Tens



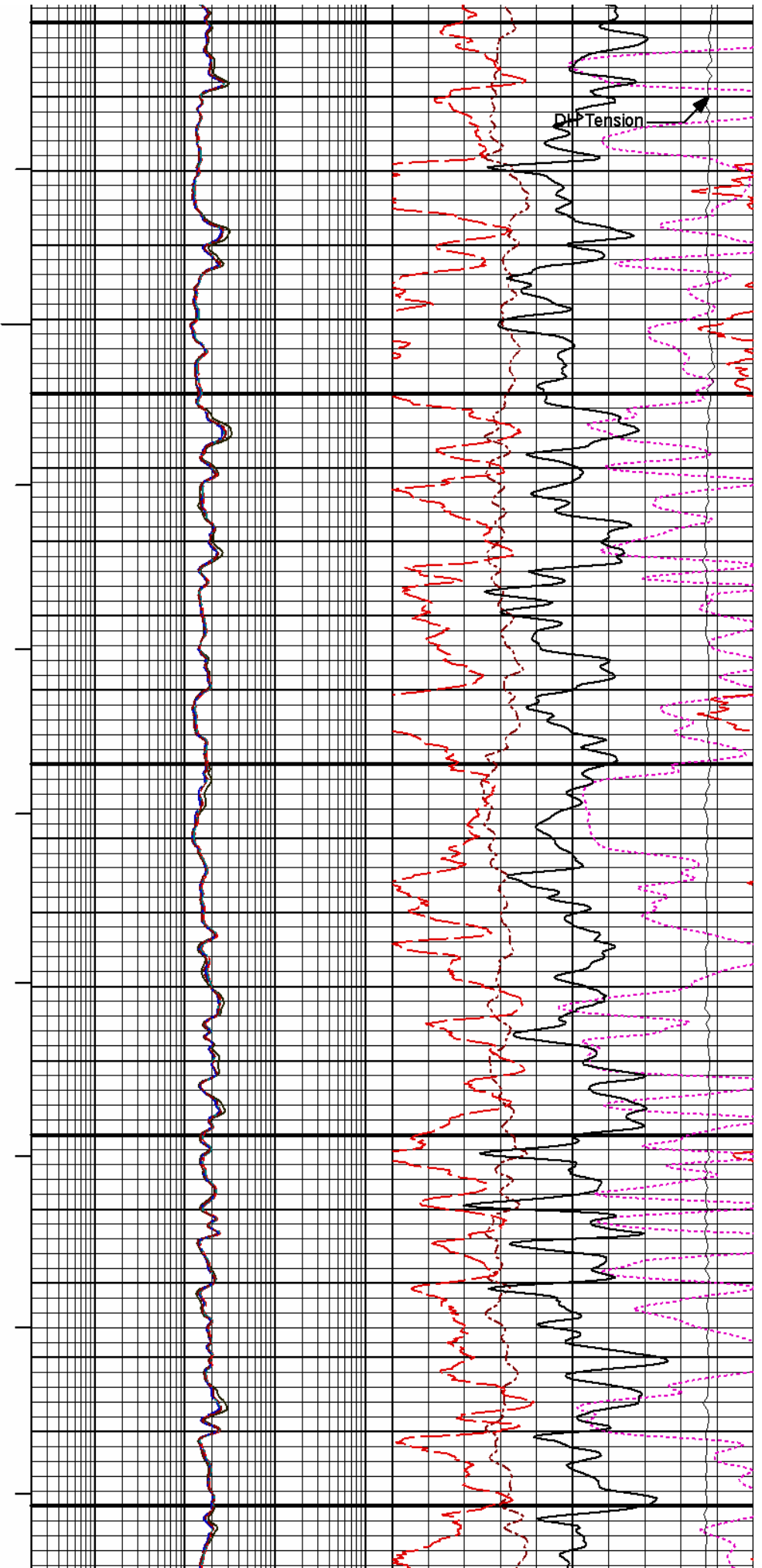
Dm Tension

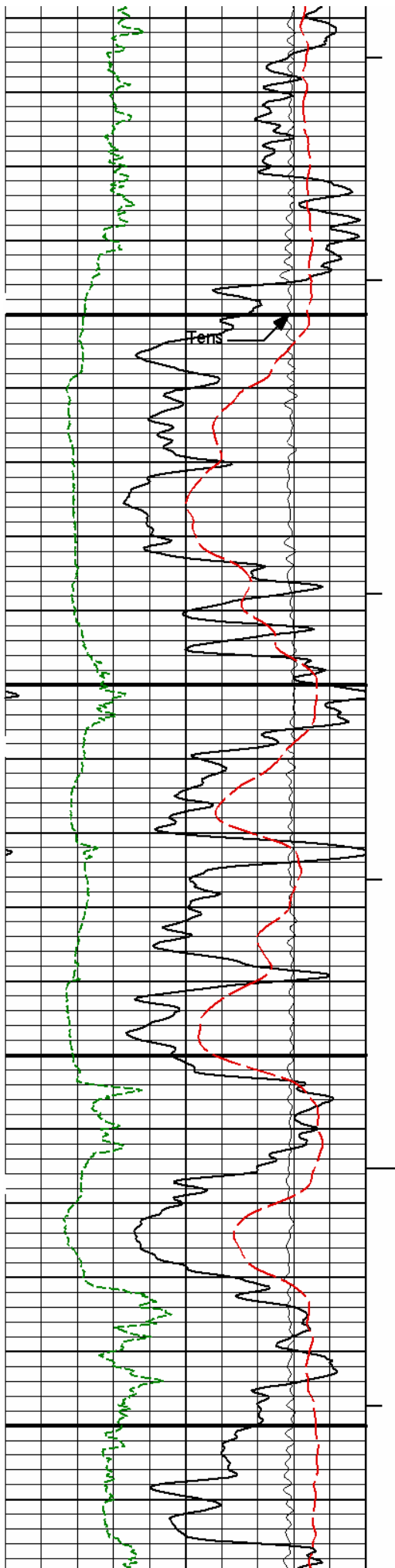




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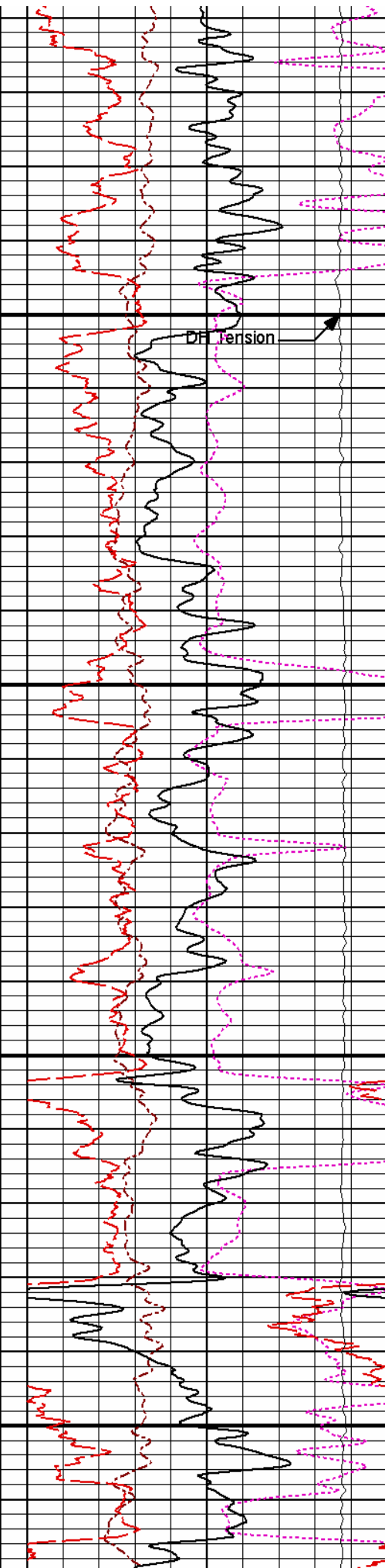
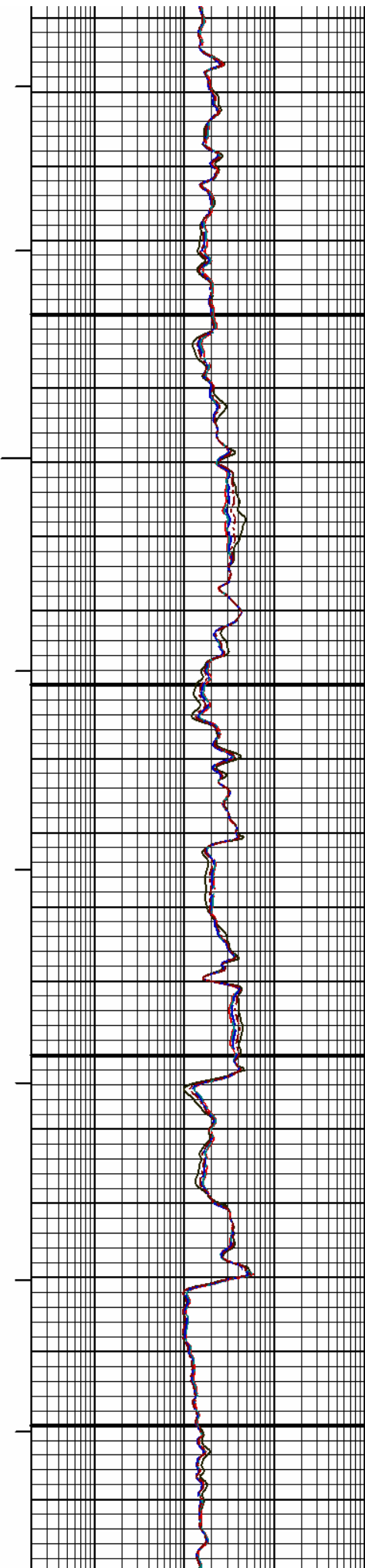
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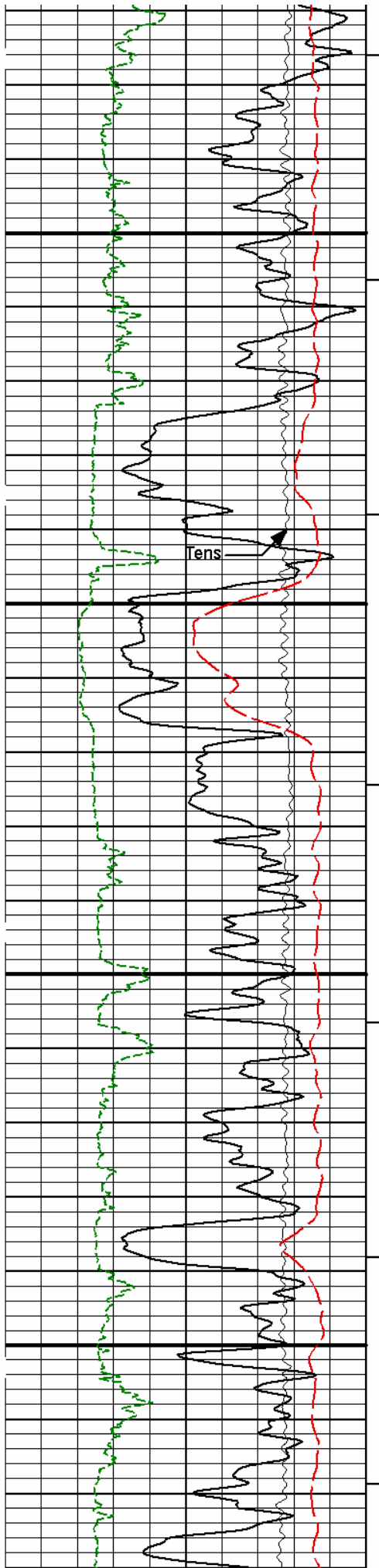




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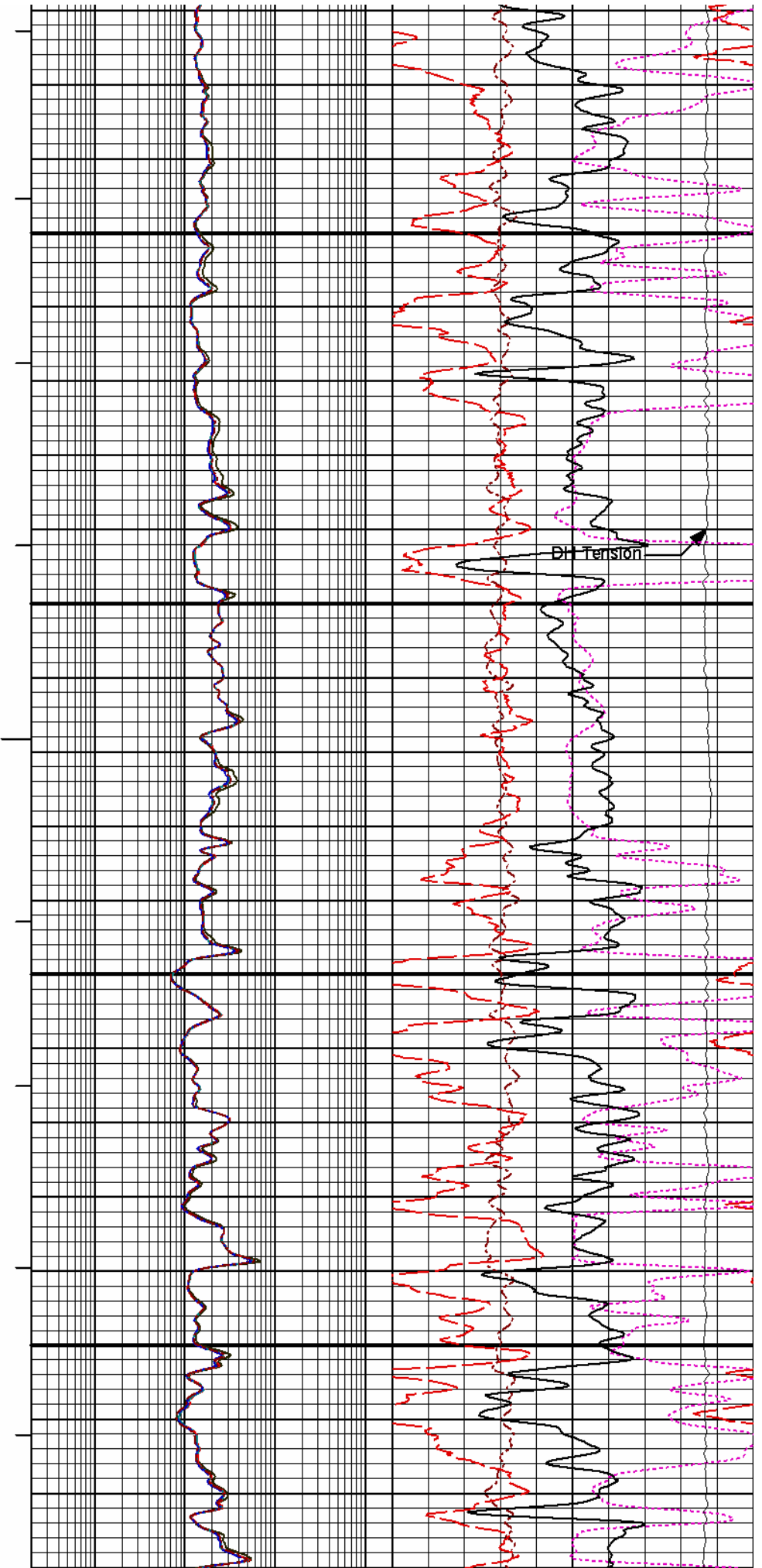
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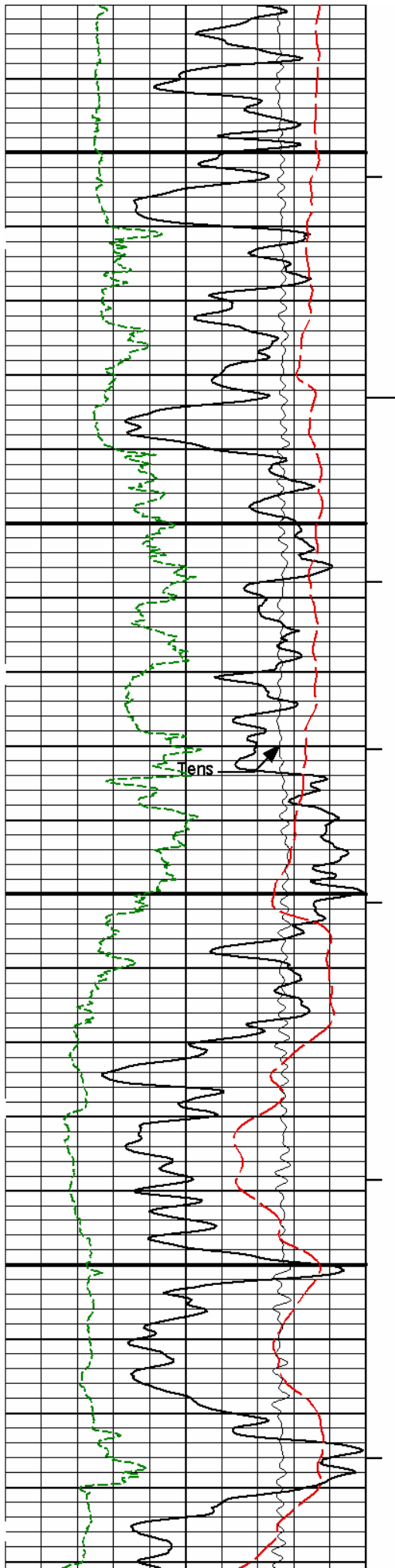




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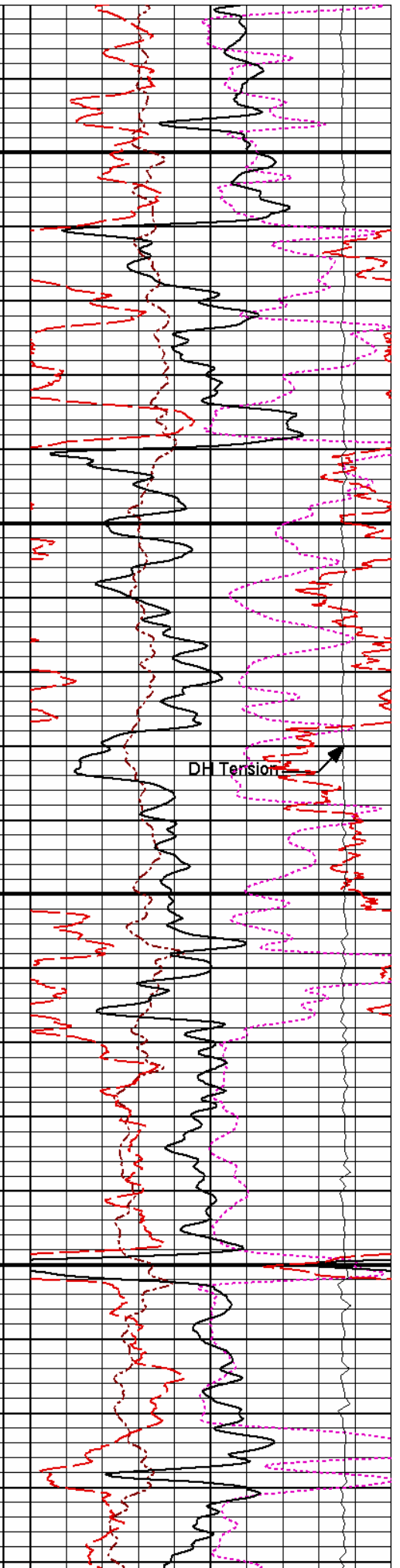
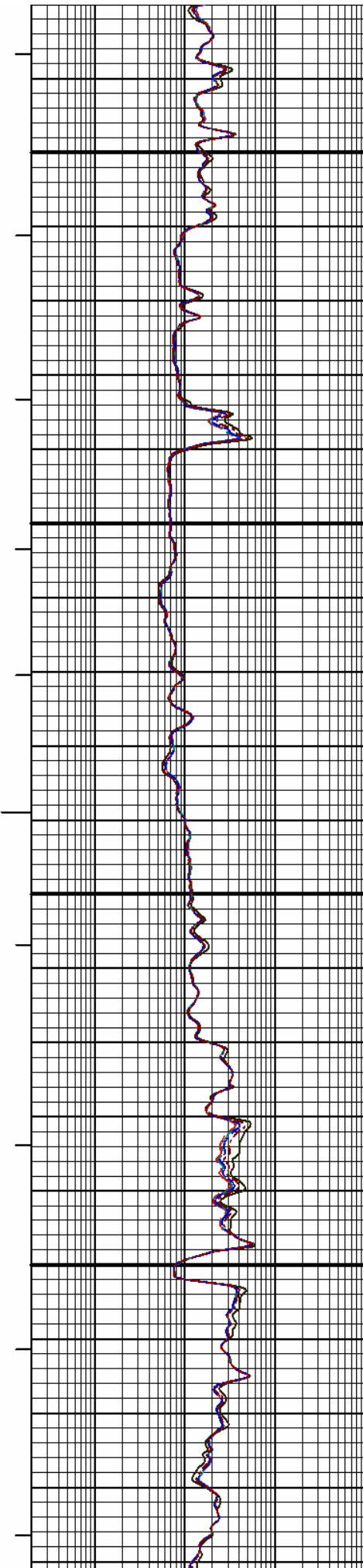
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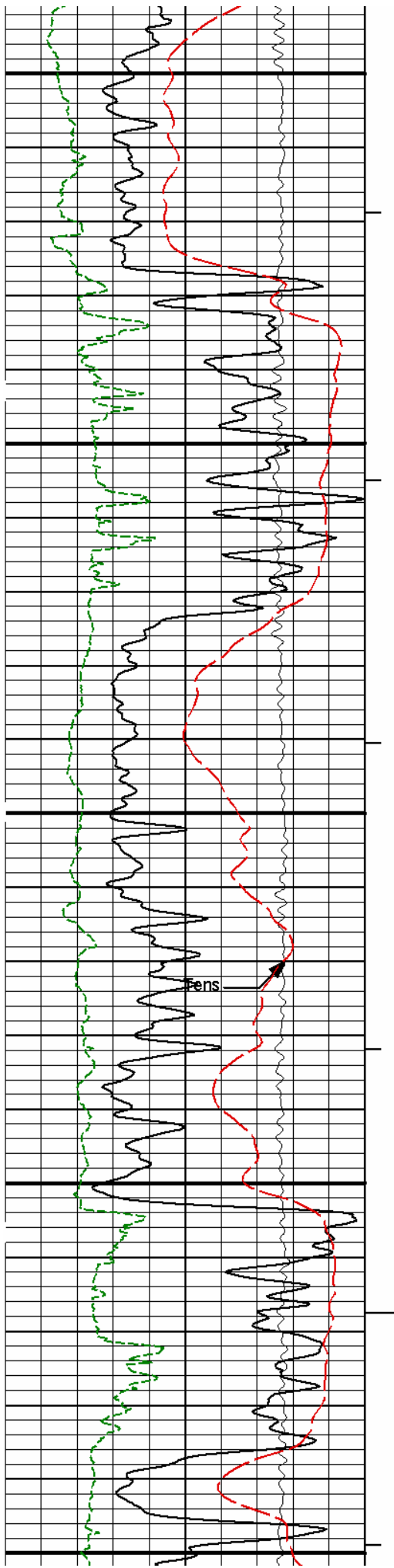




2800

2900



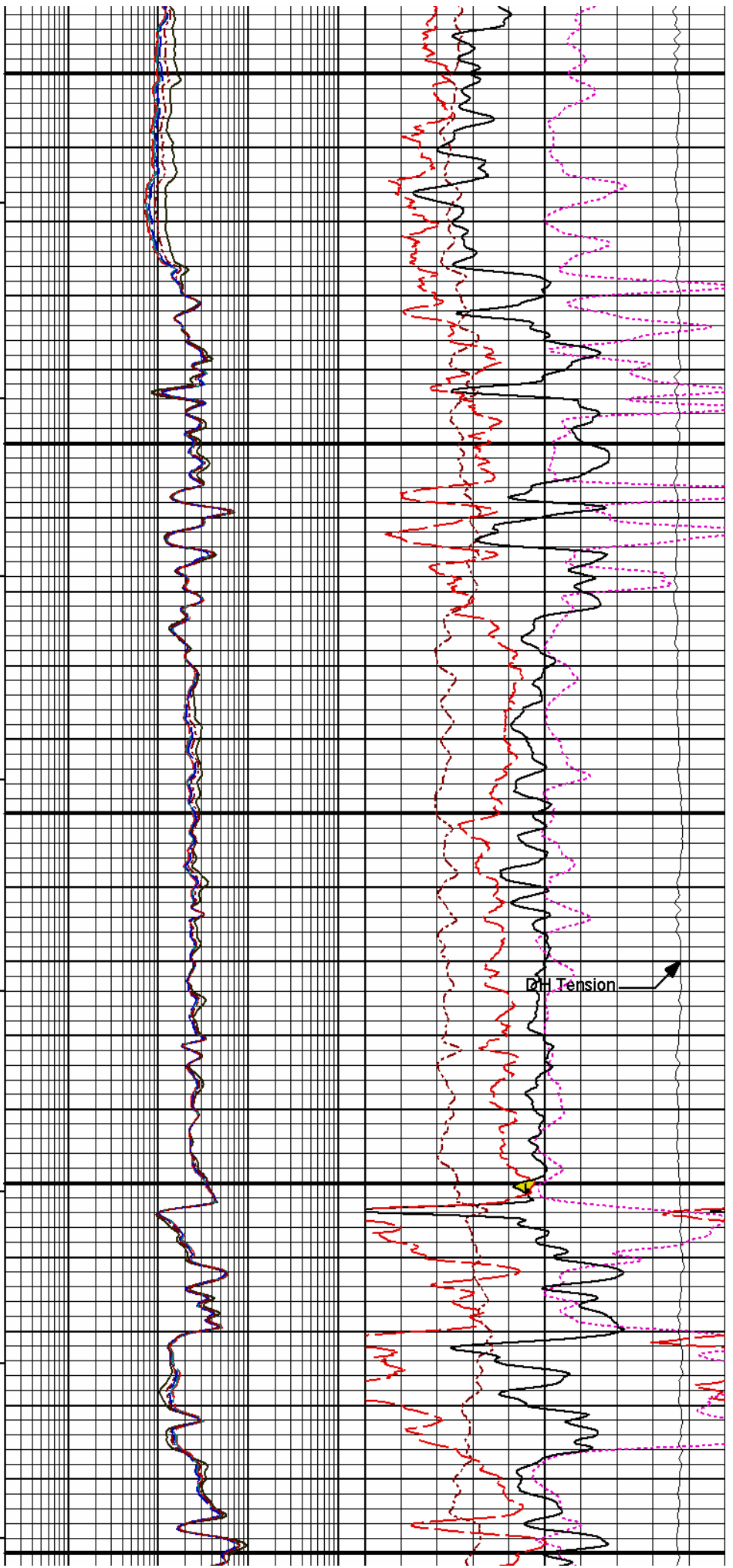


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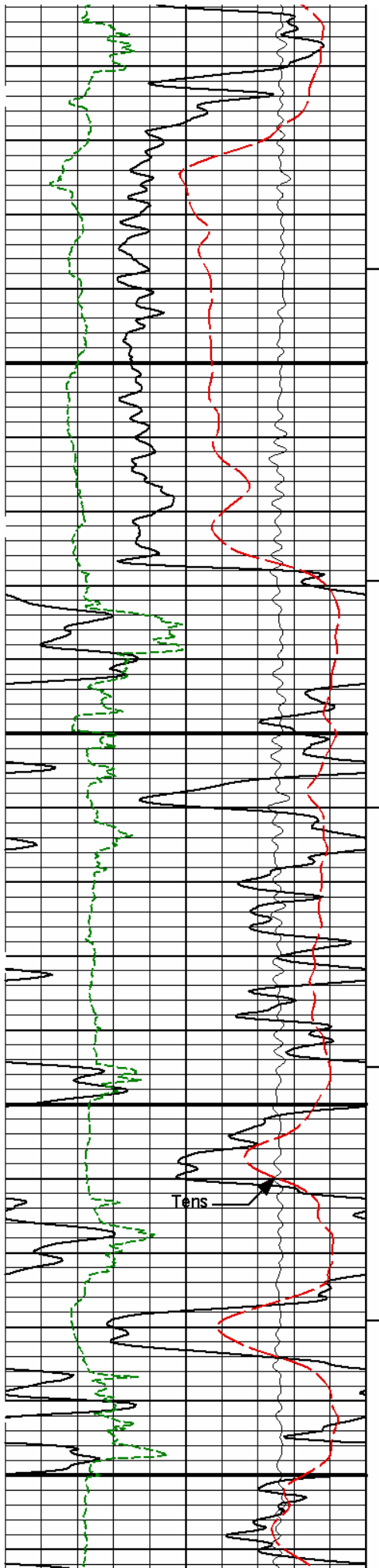
3100

3200

Tens

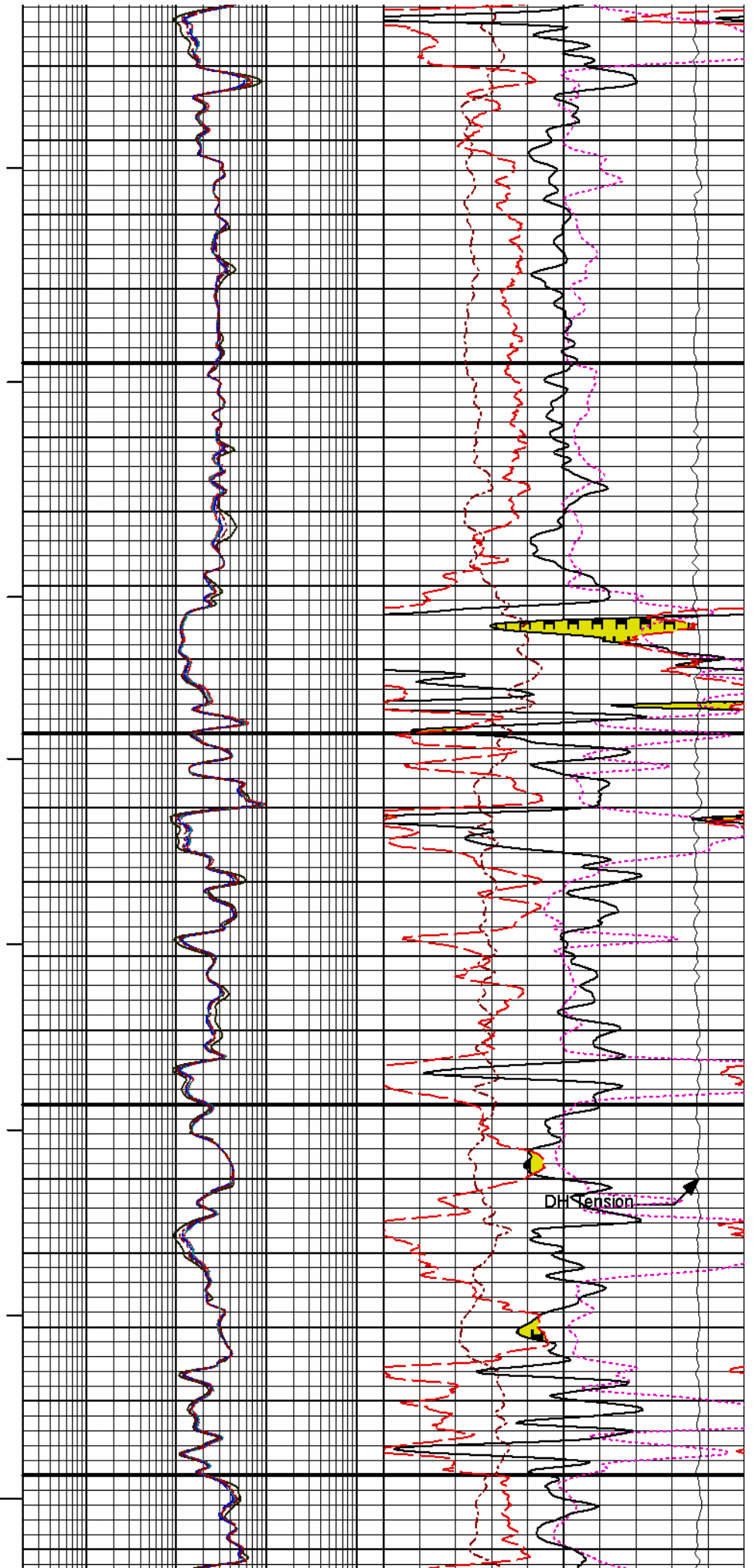


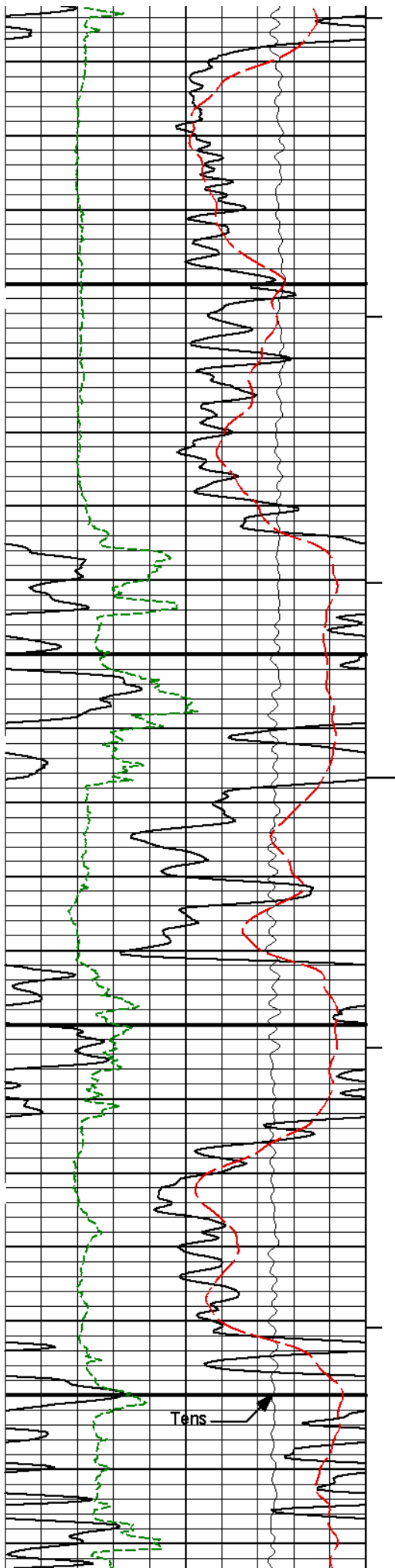
D/H Tension



3300

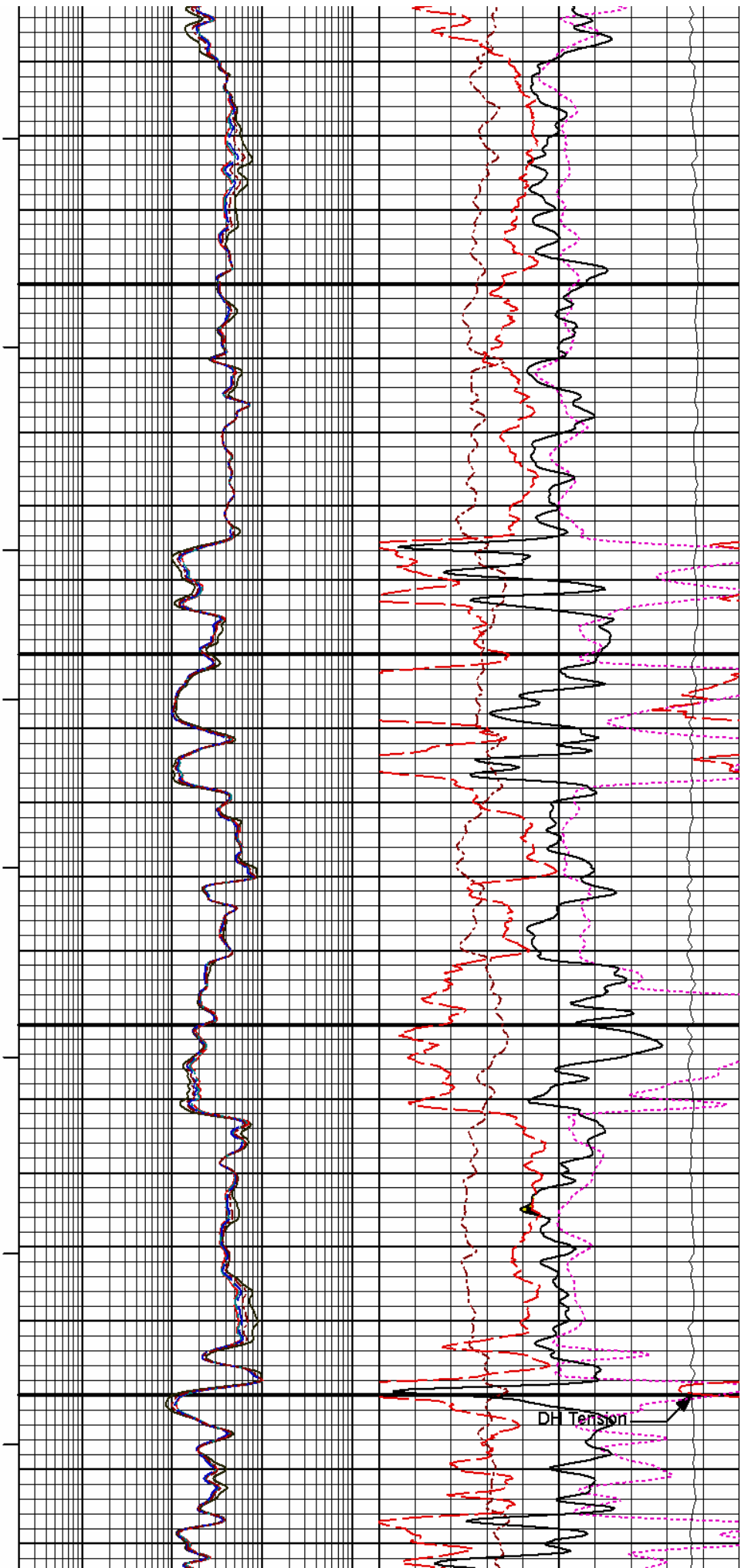
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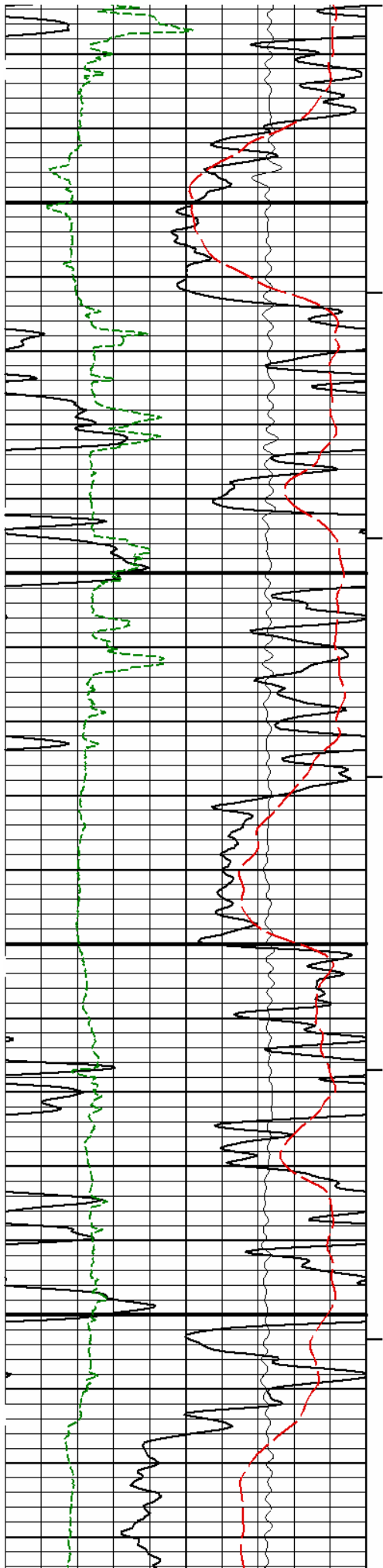




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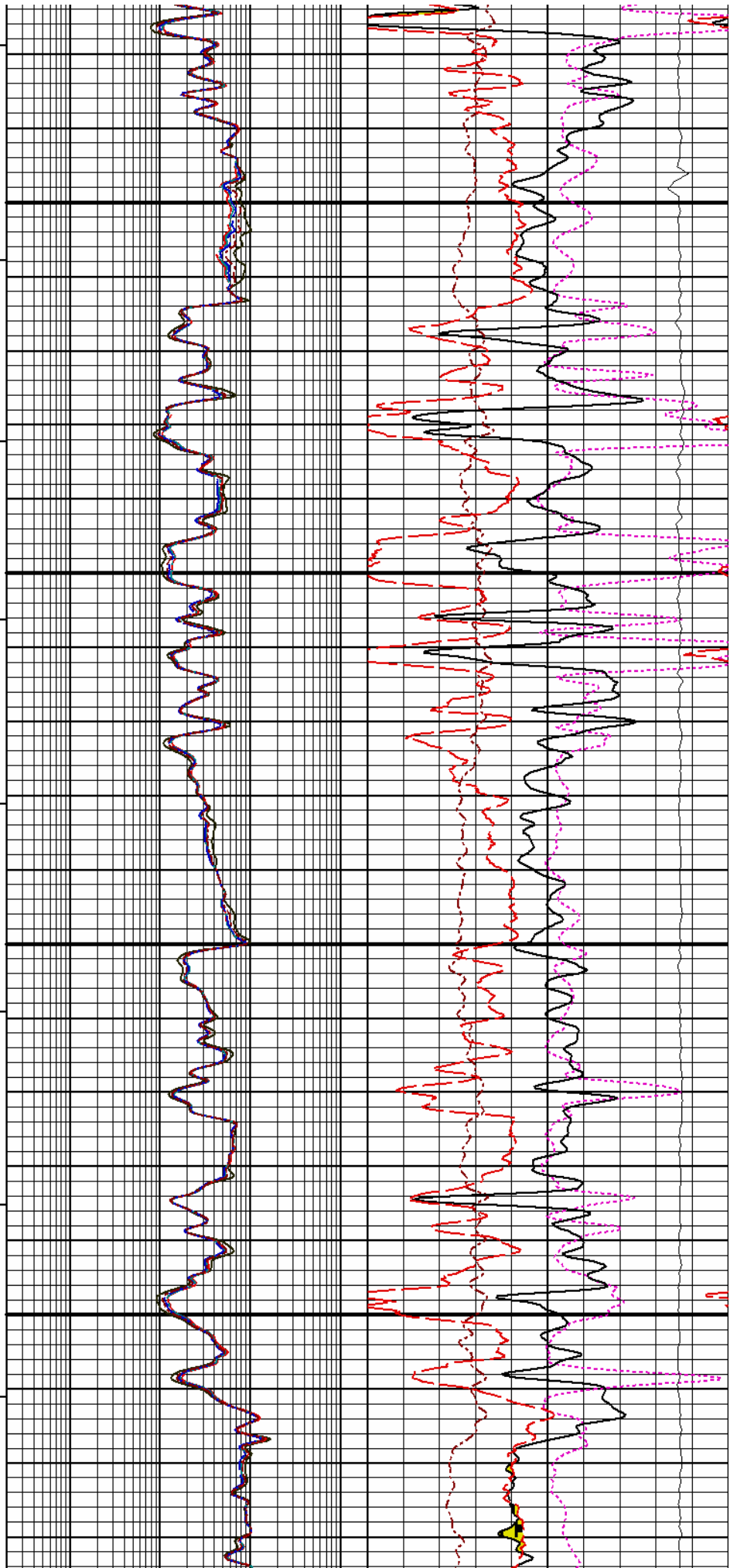
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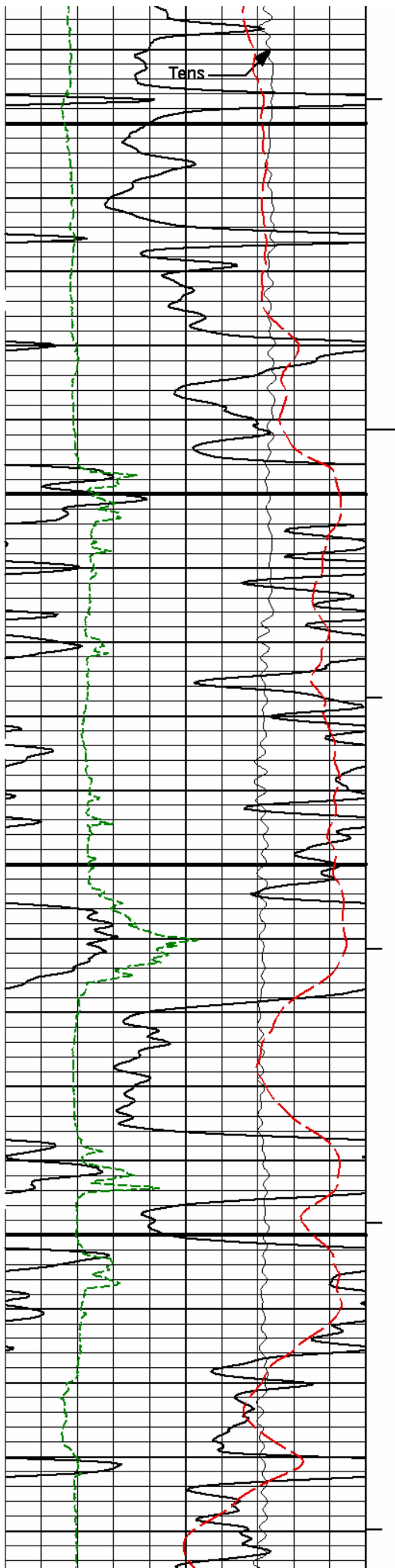




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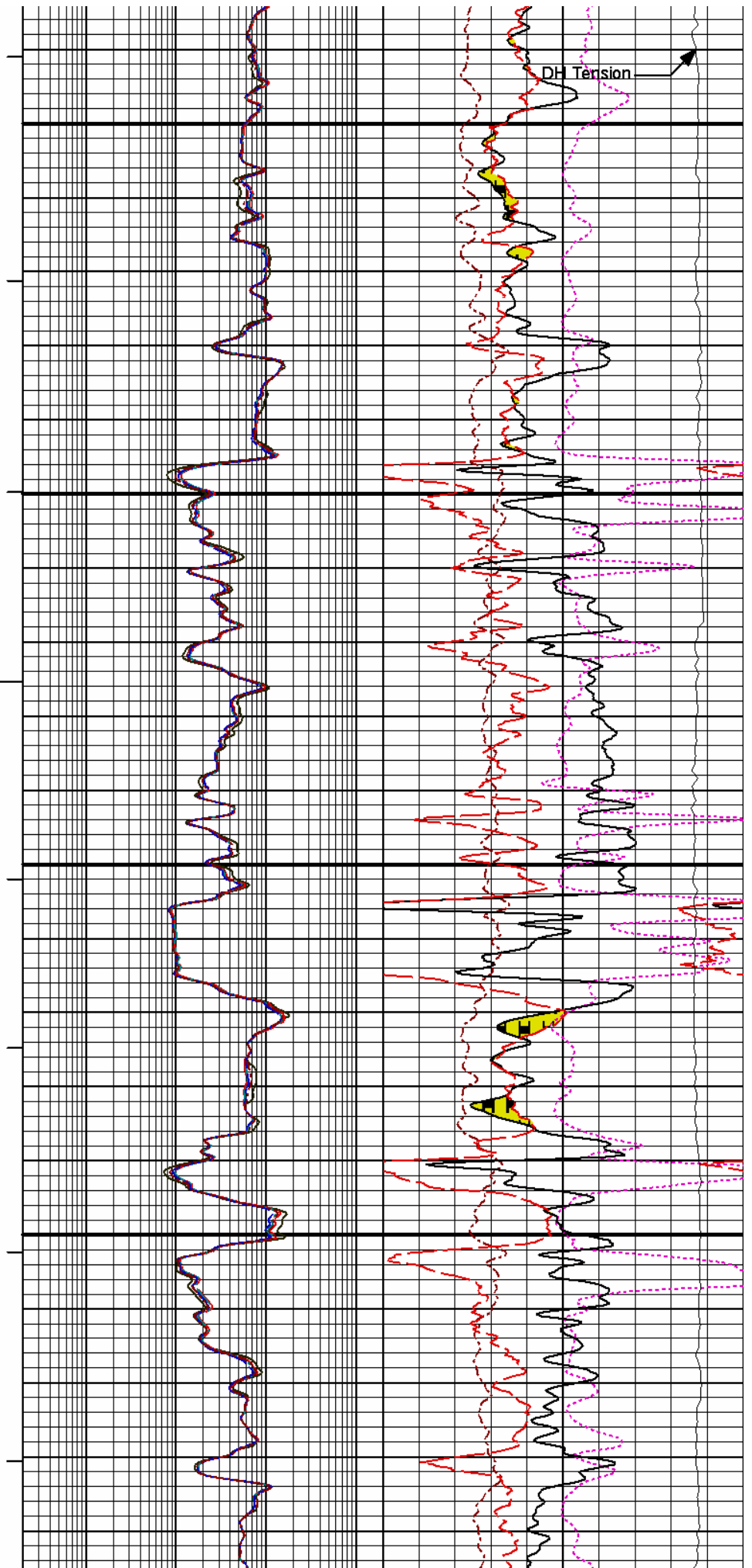
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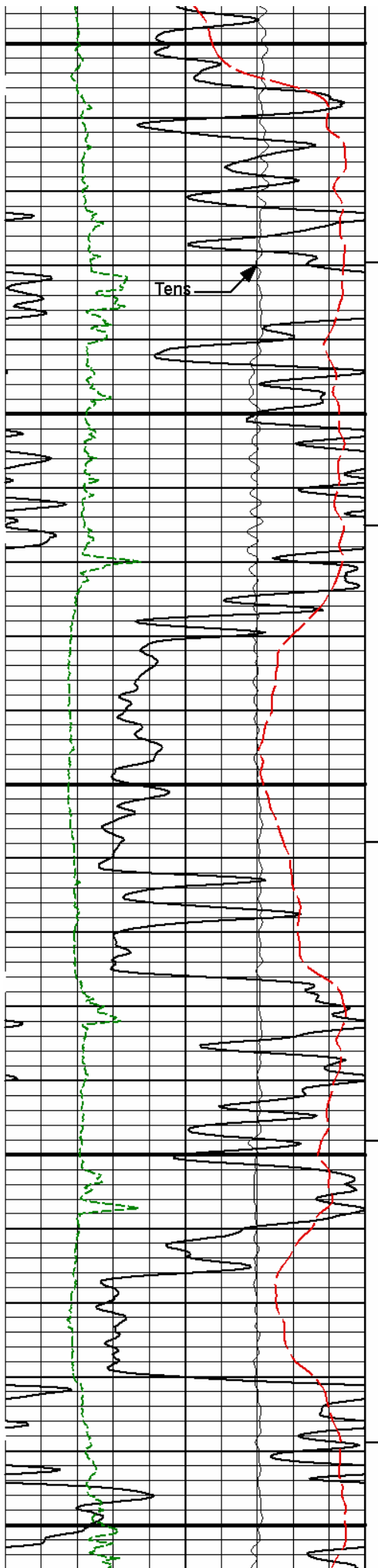




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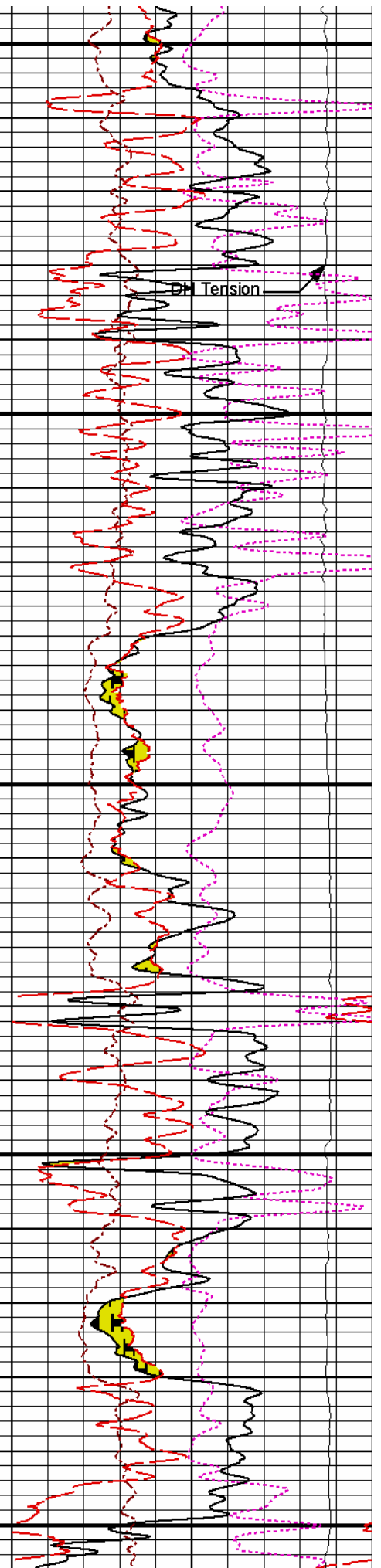
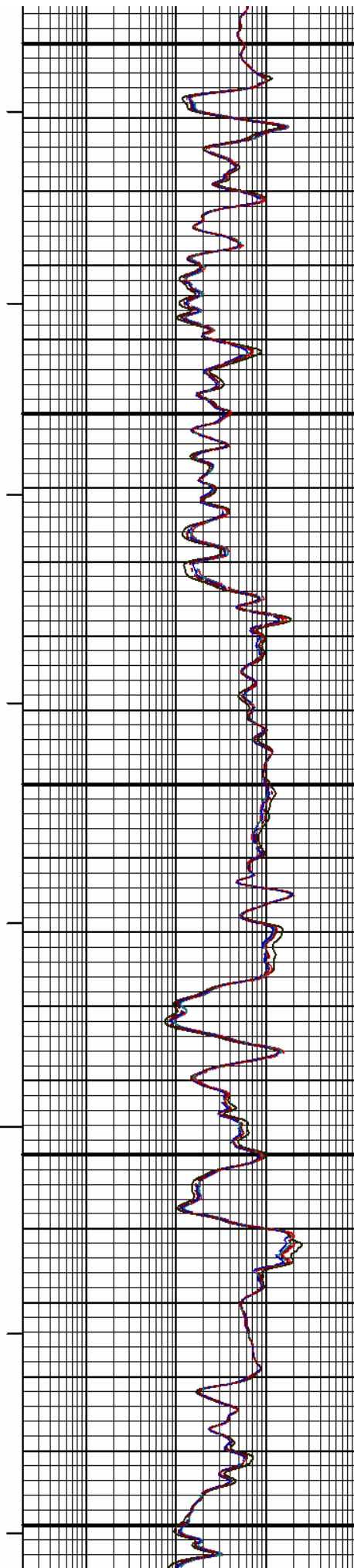
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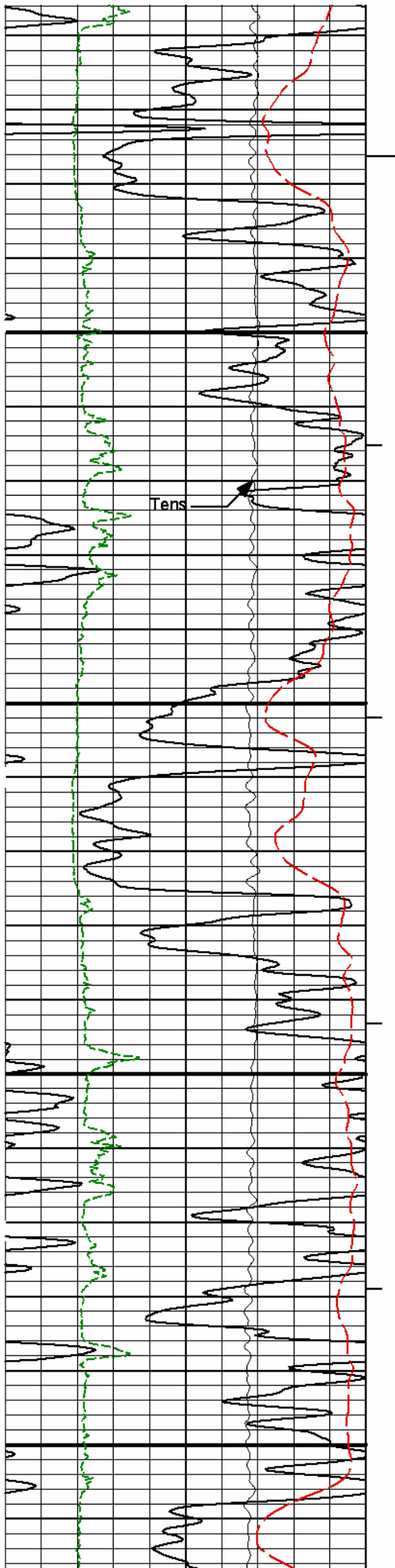




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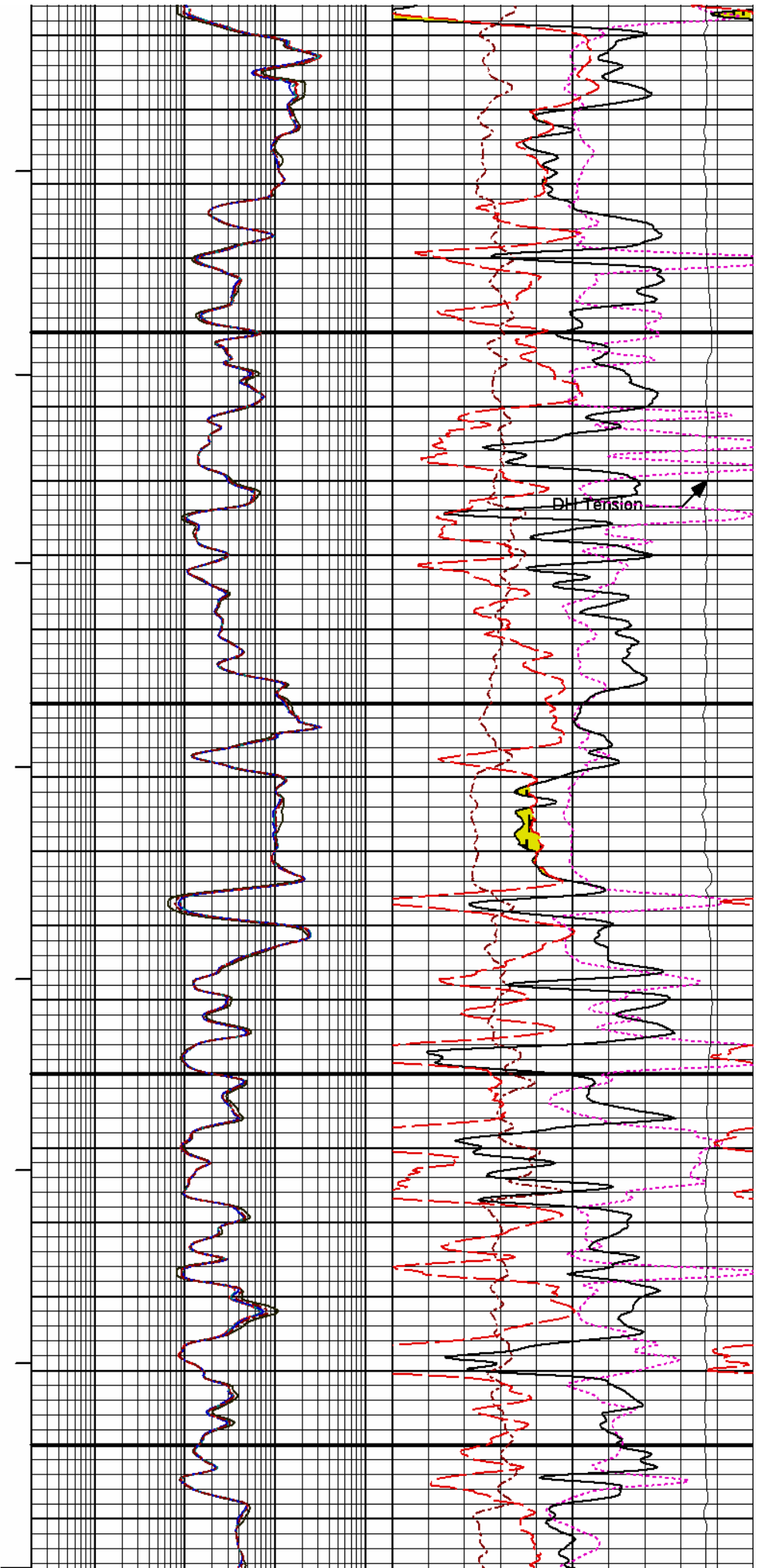
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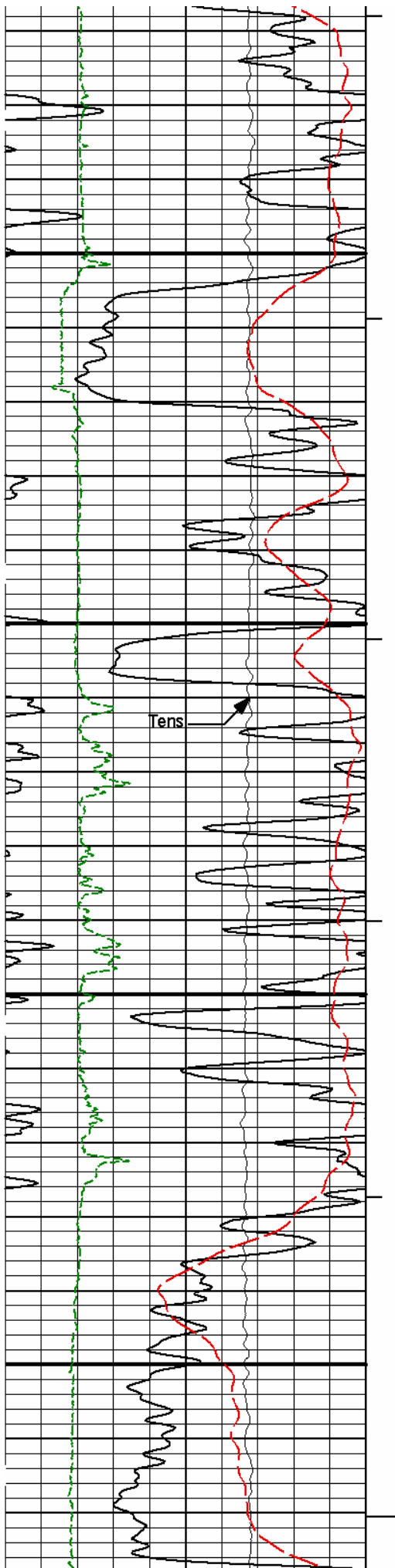


4300

4400

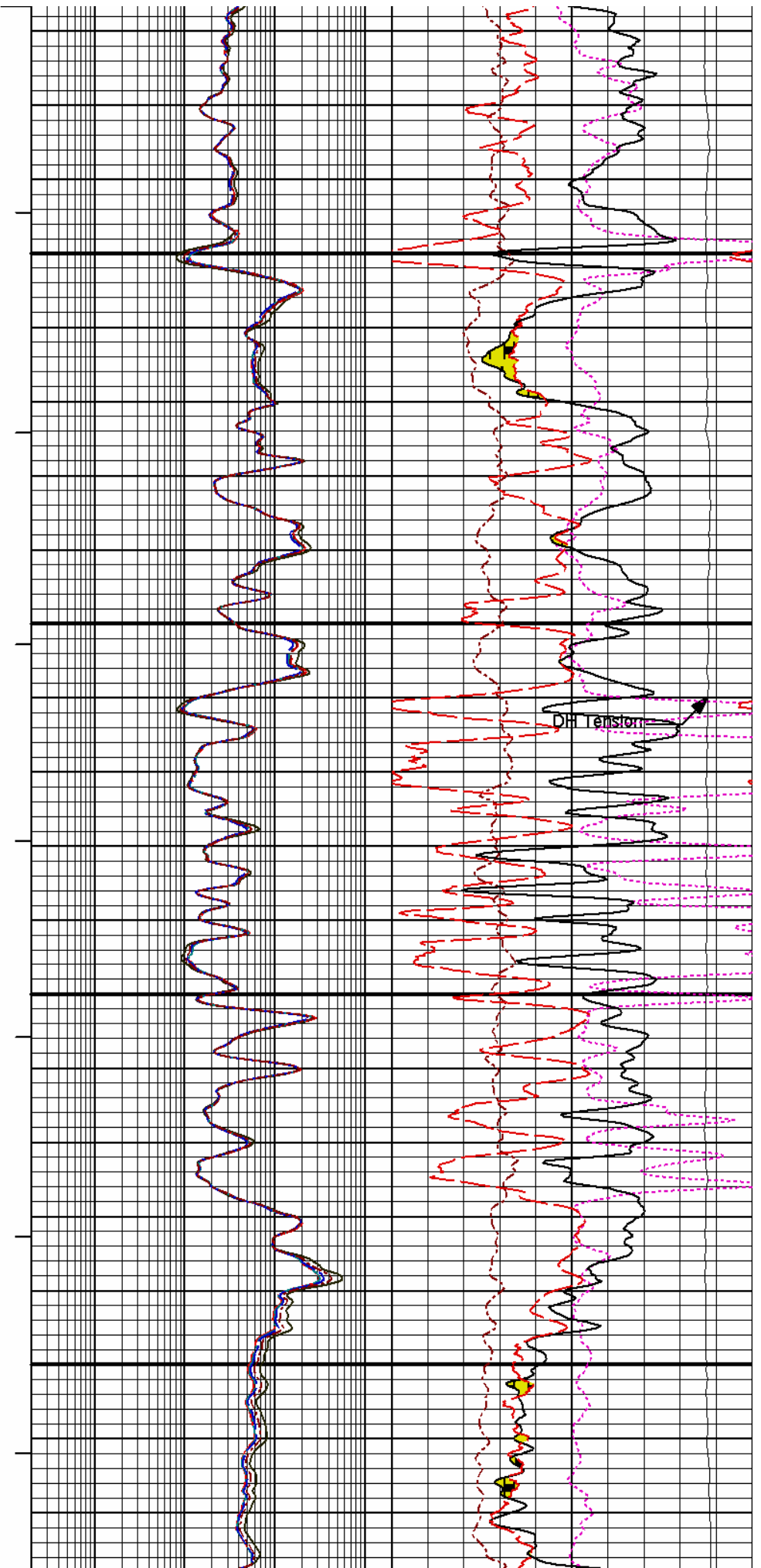


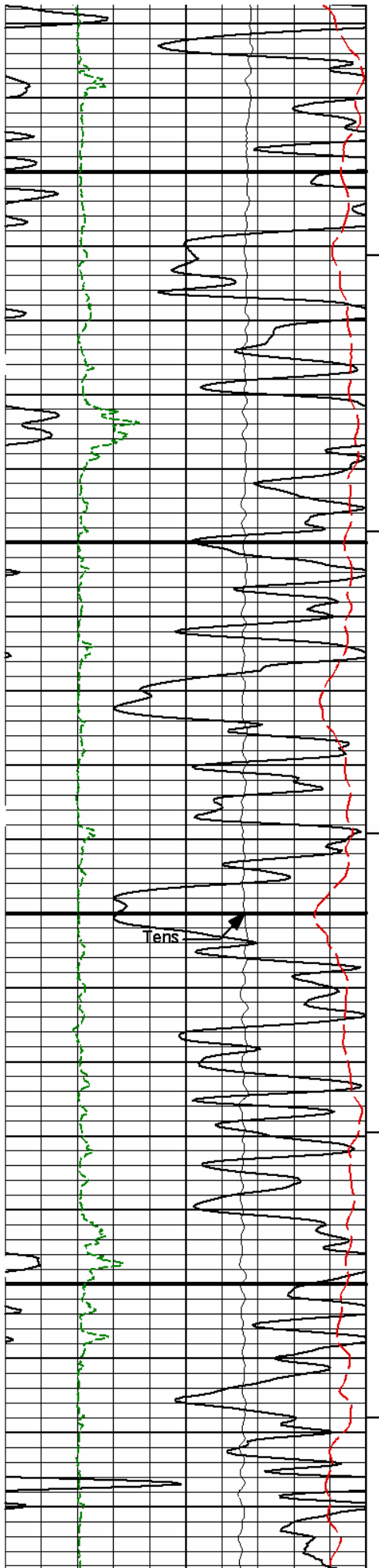
DH Tension



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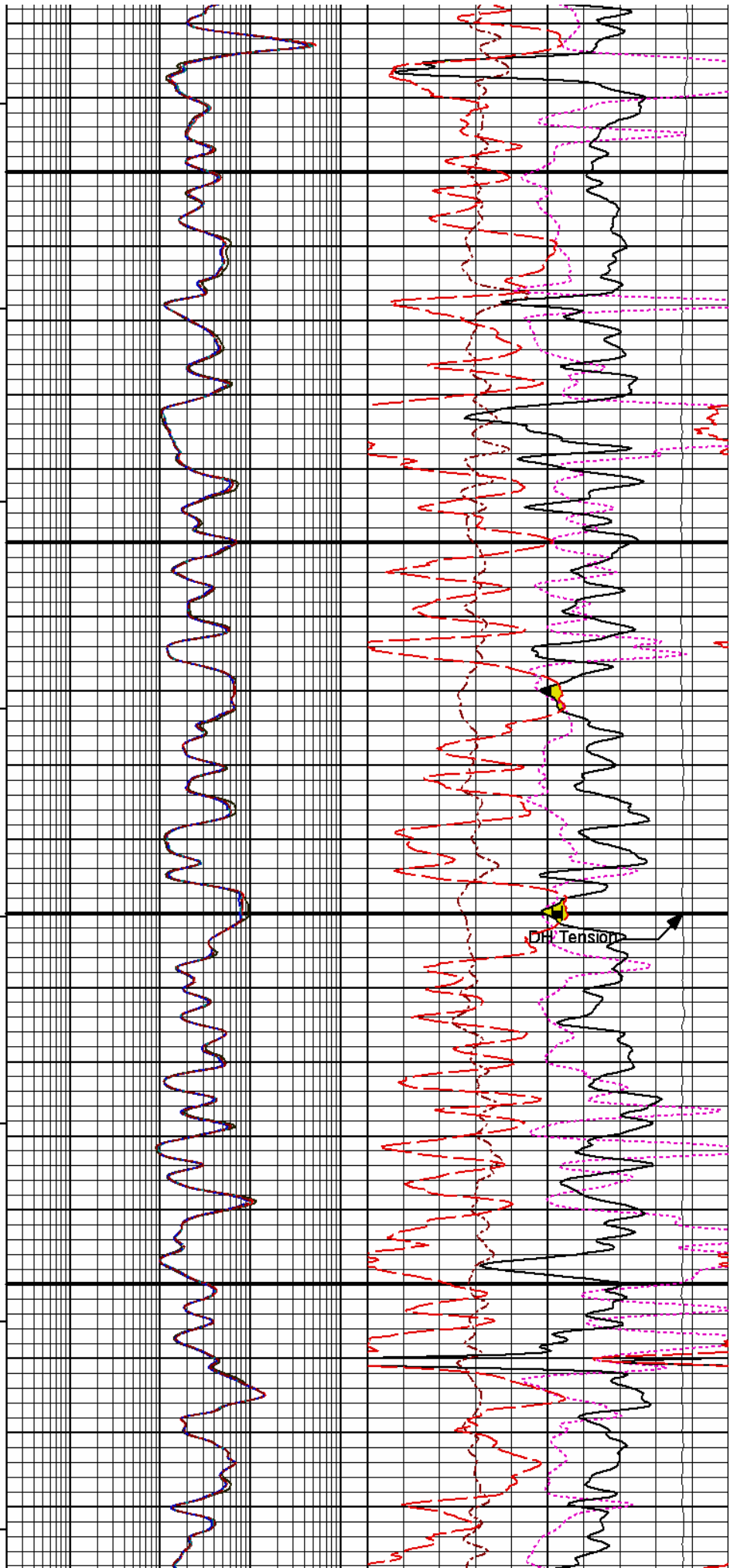
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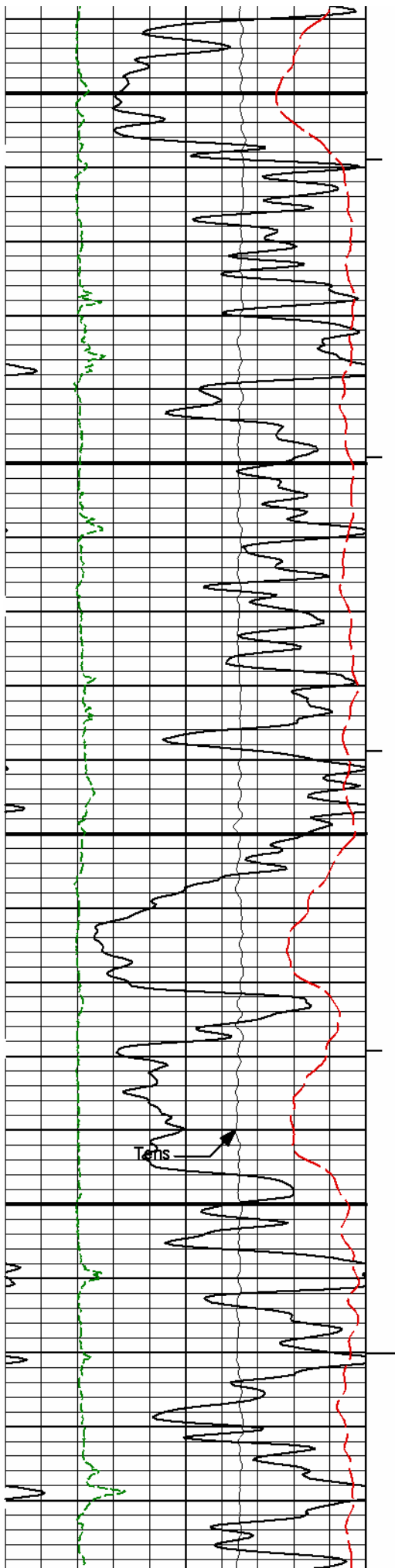




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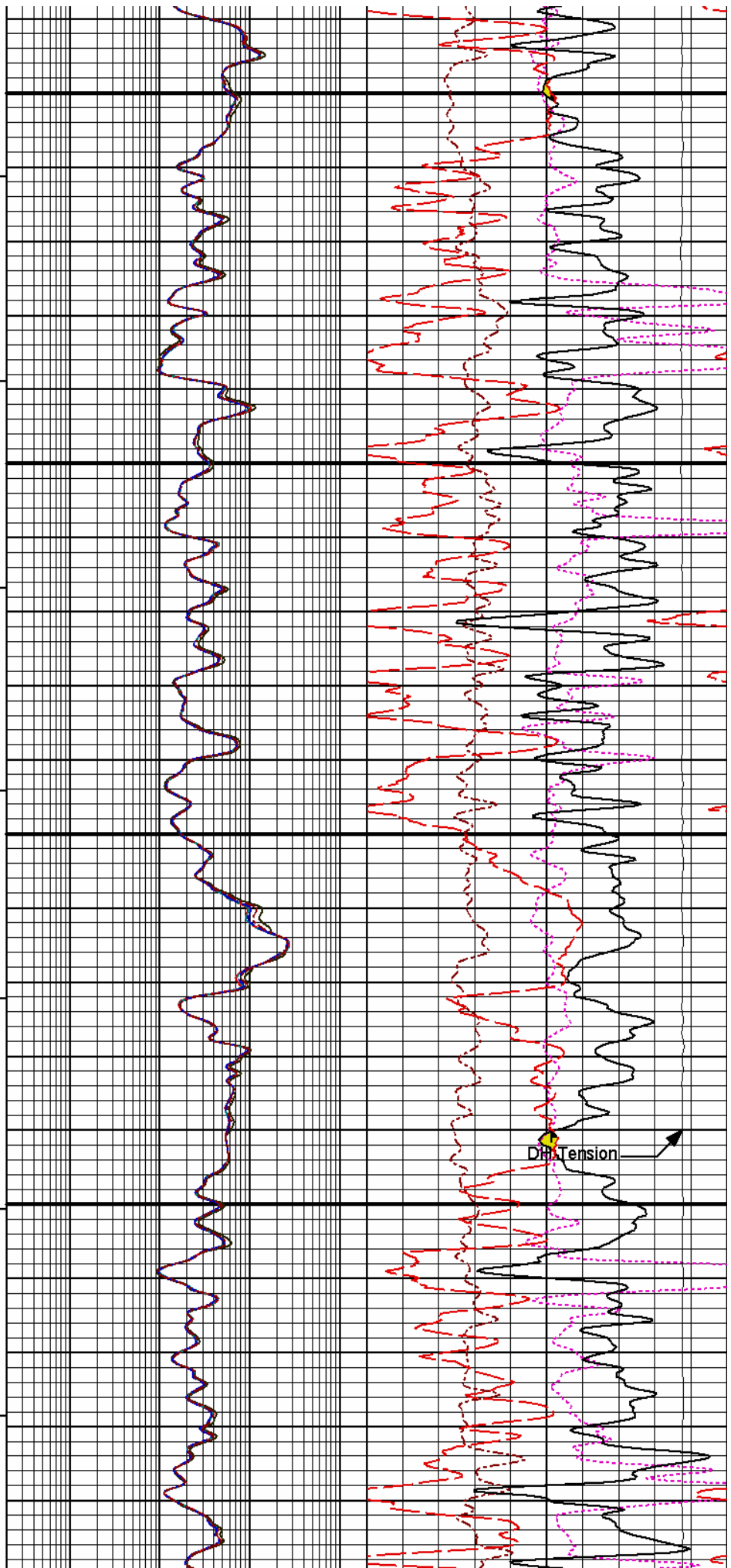
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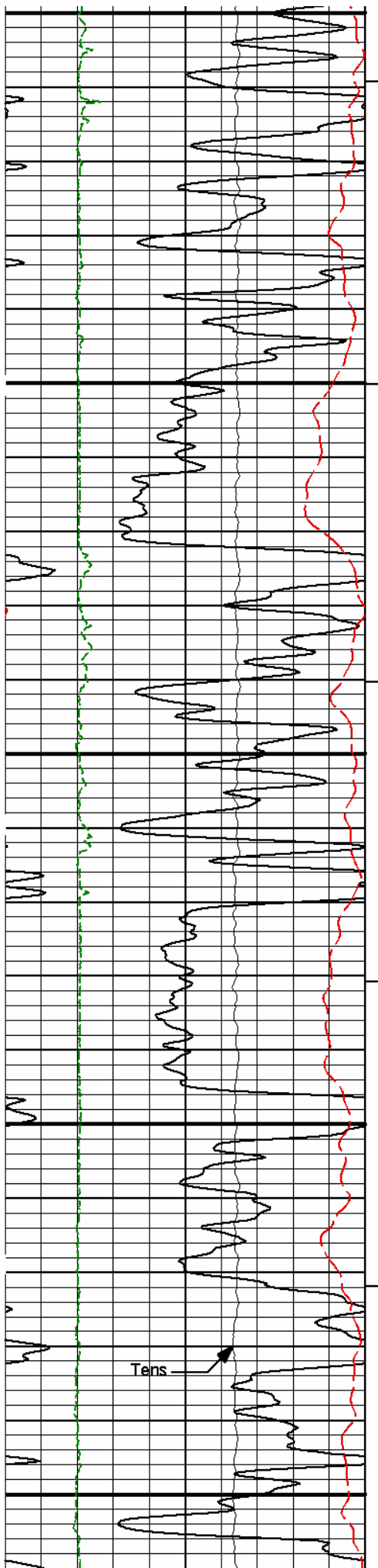




4900

5000



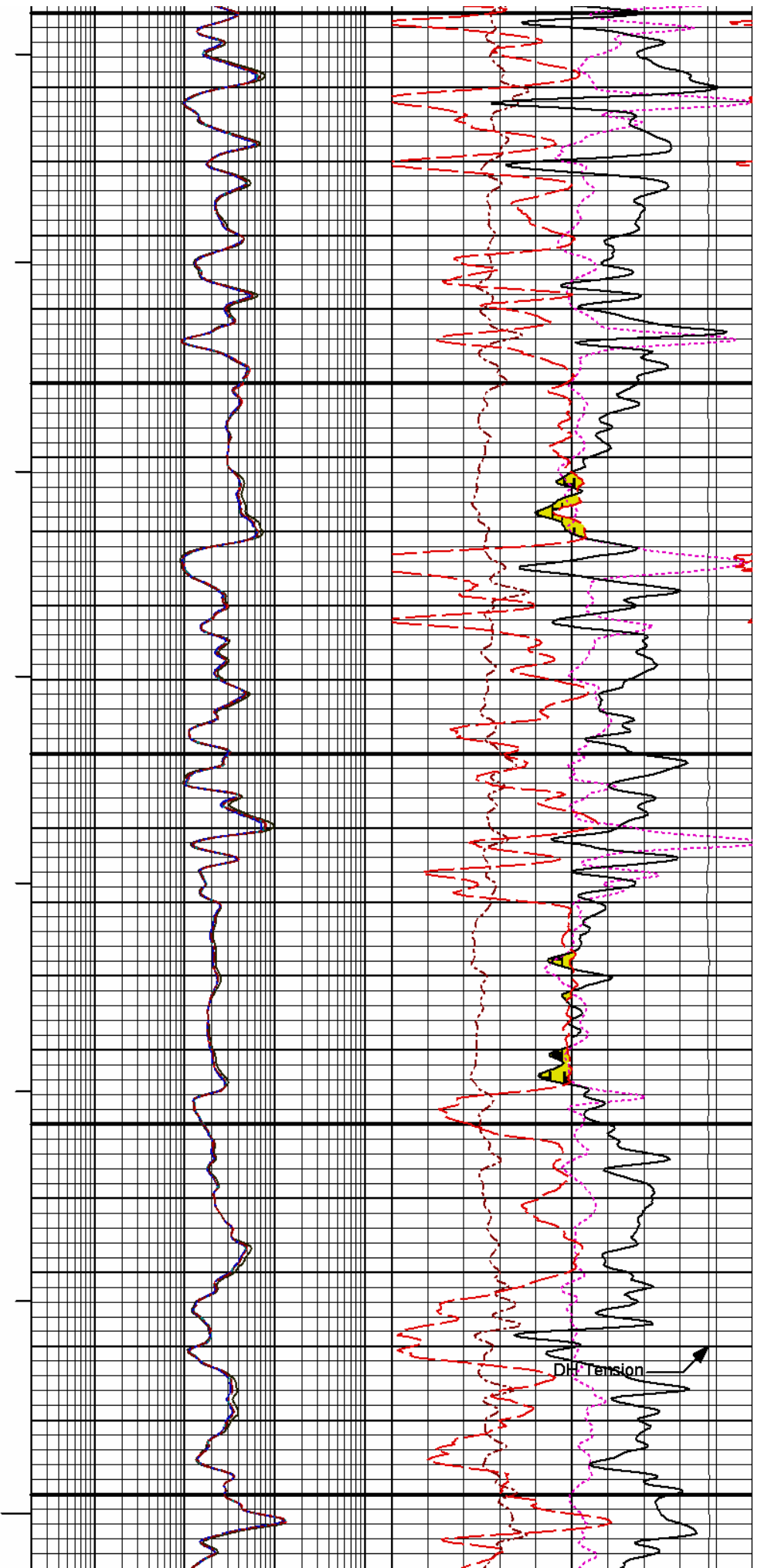


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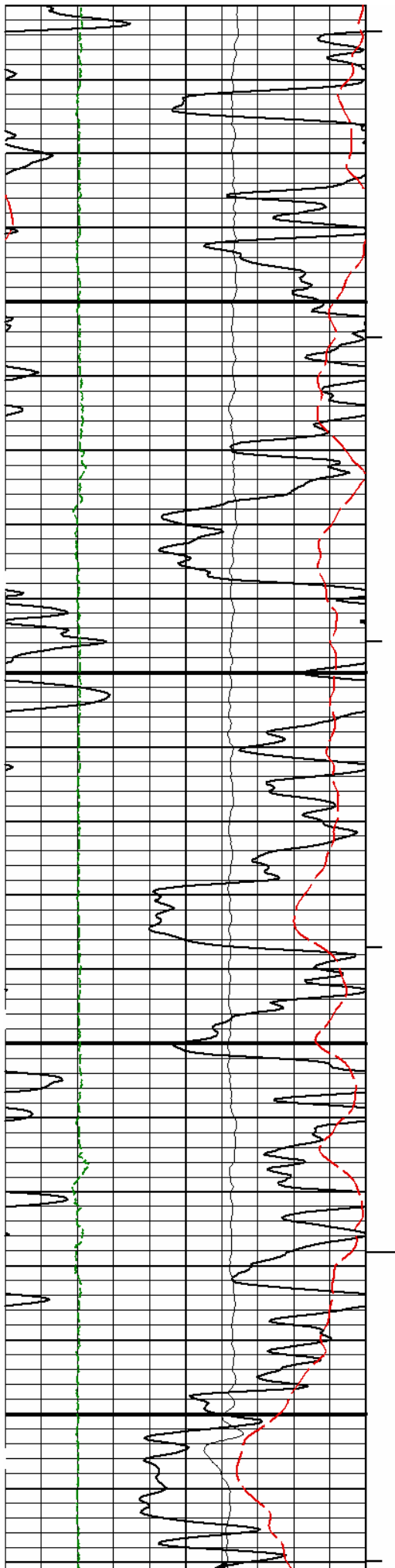
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5300

Tens

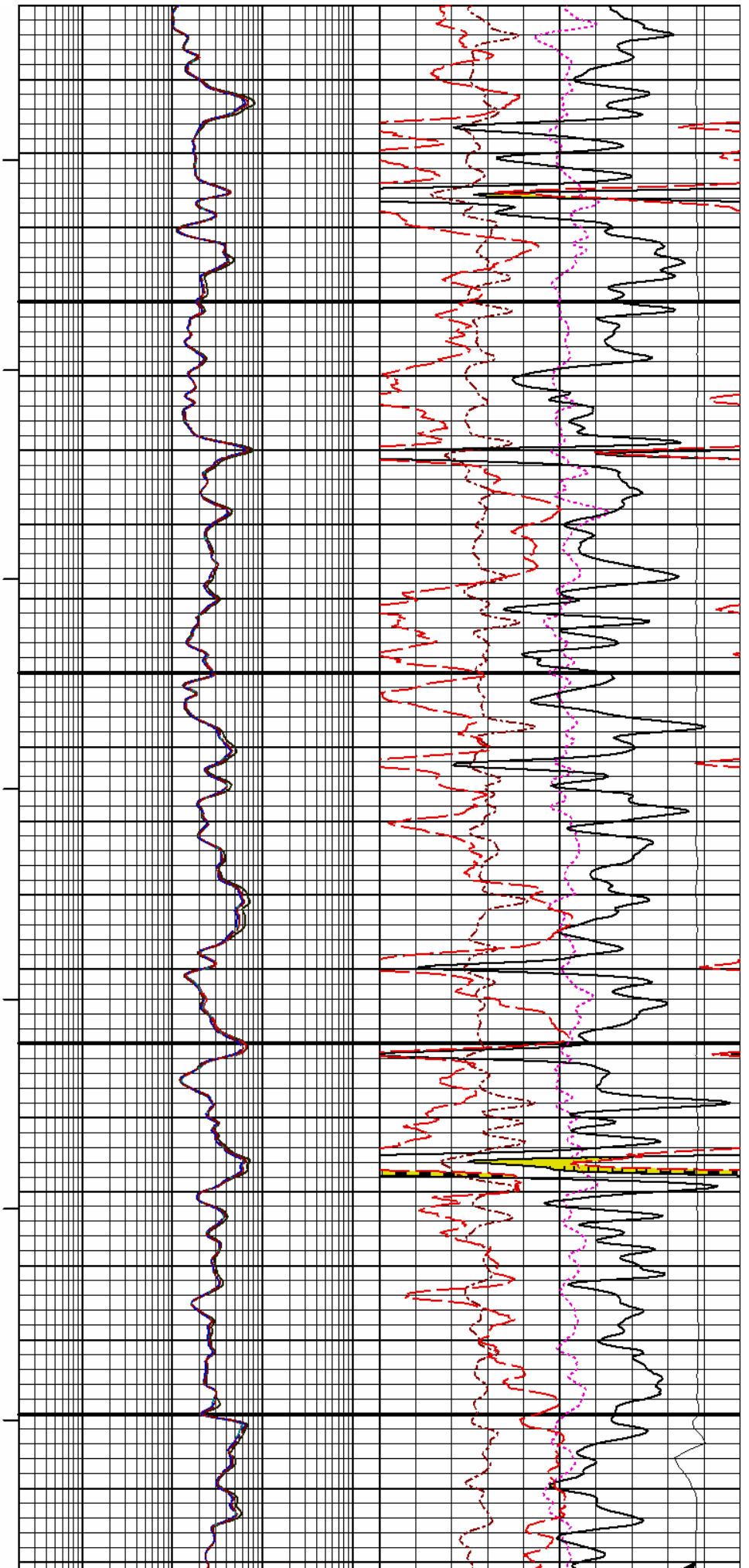


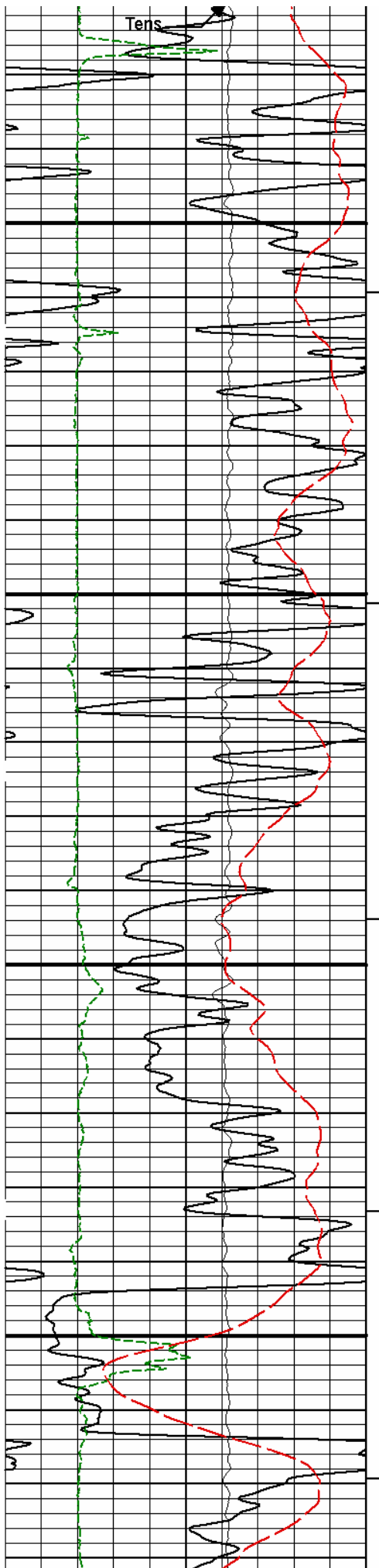
DHT tension



5400

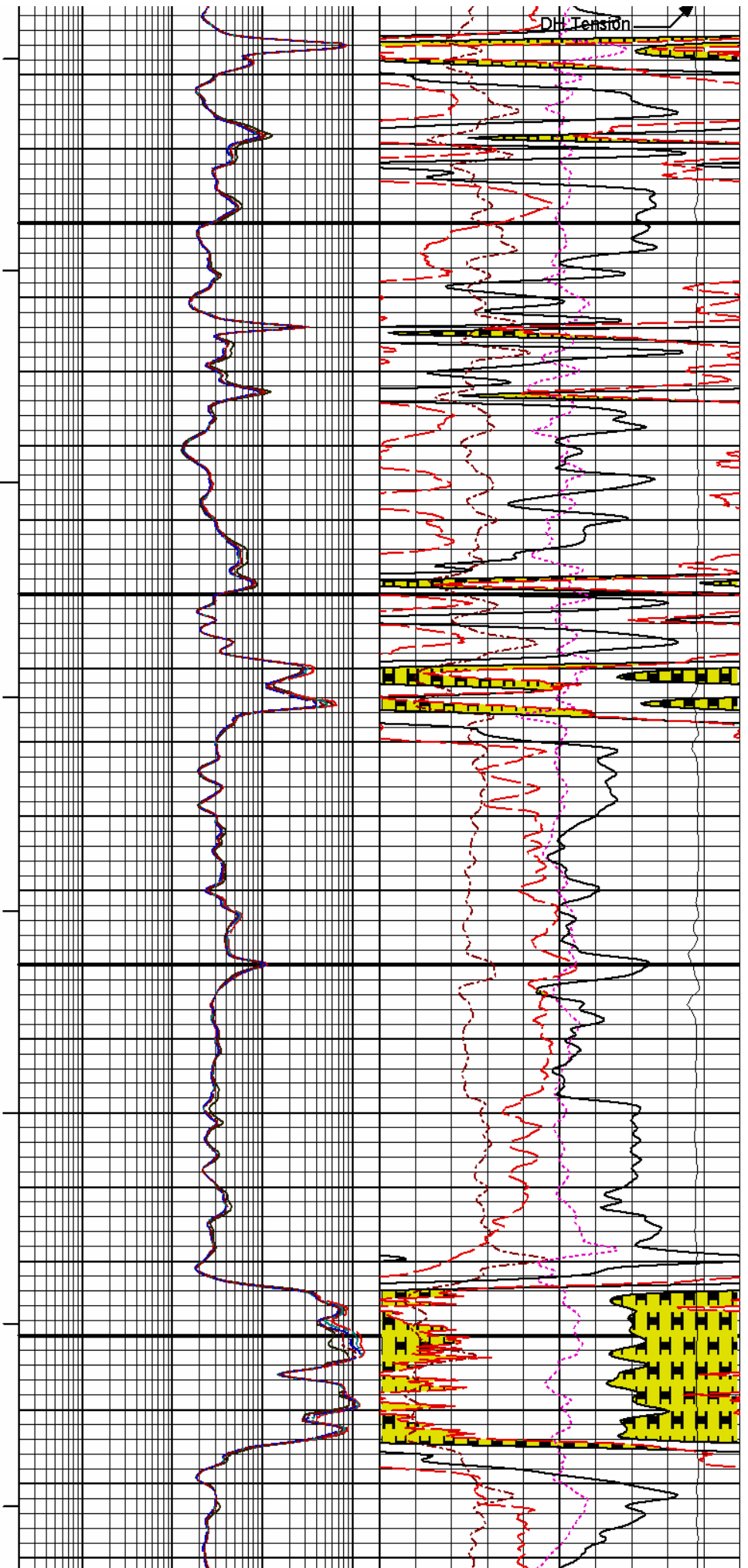
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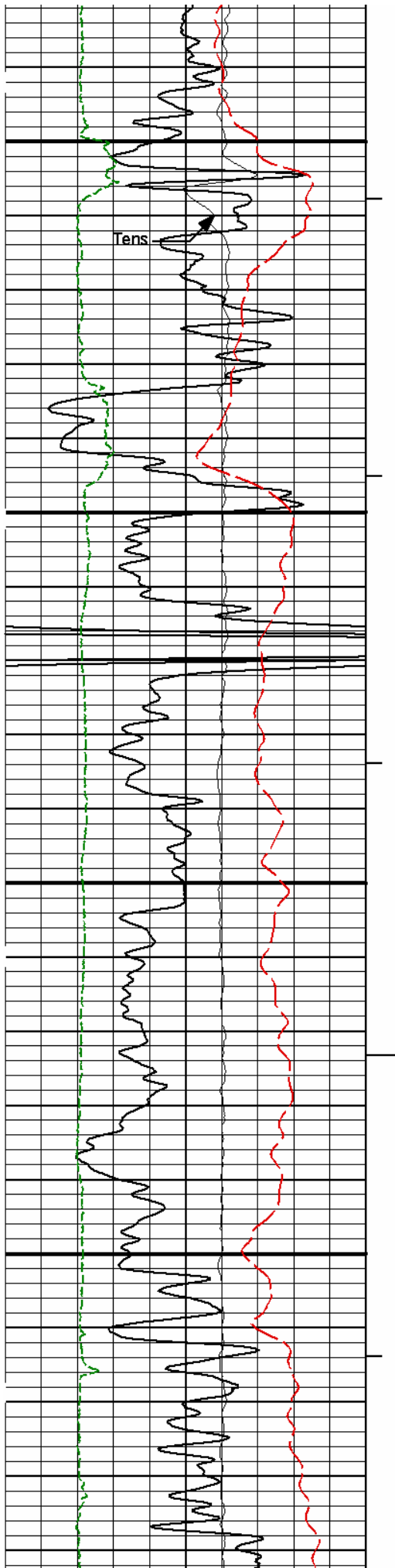




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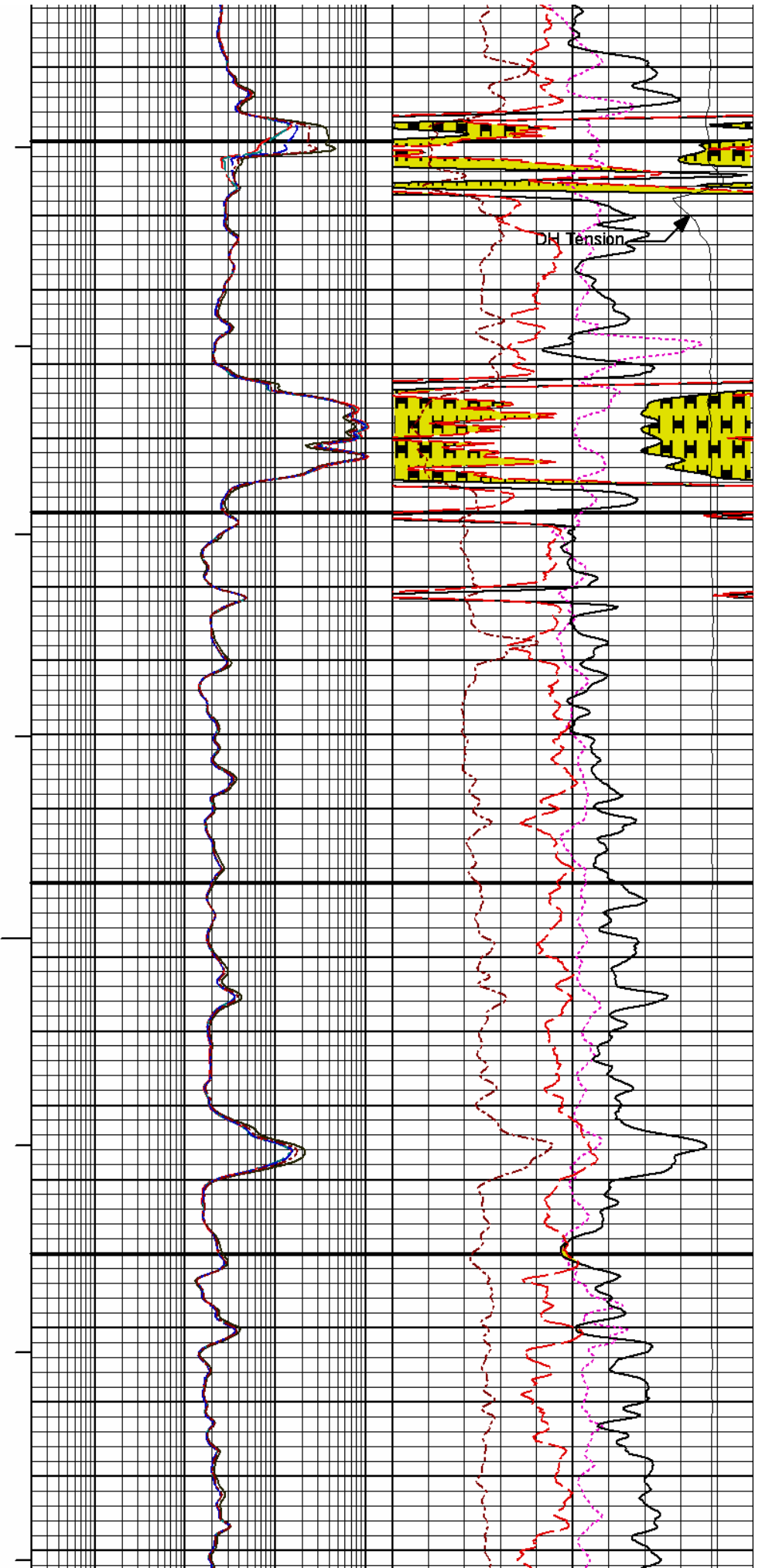
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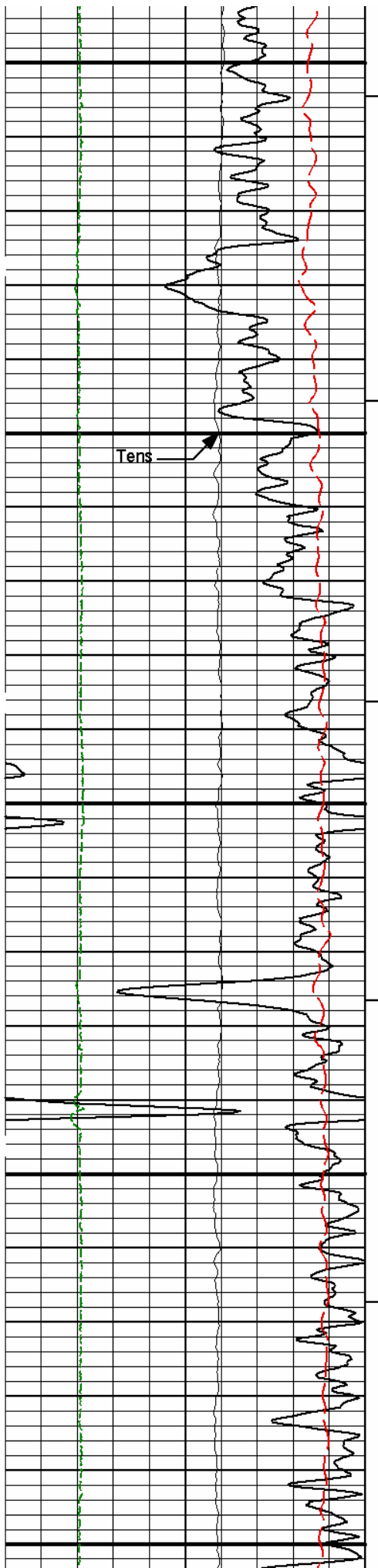




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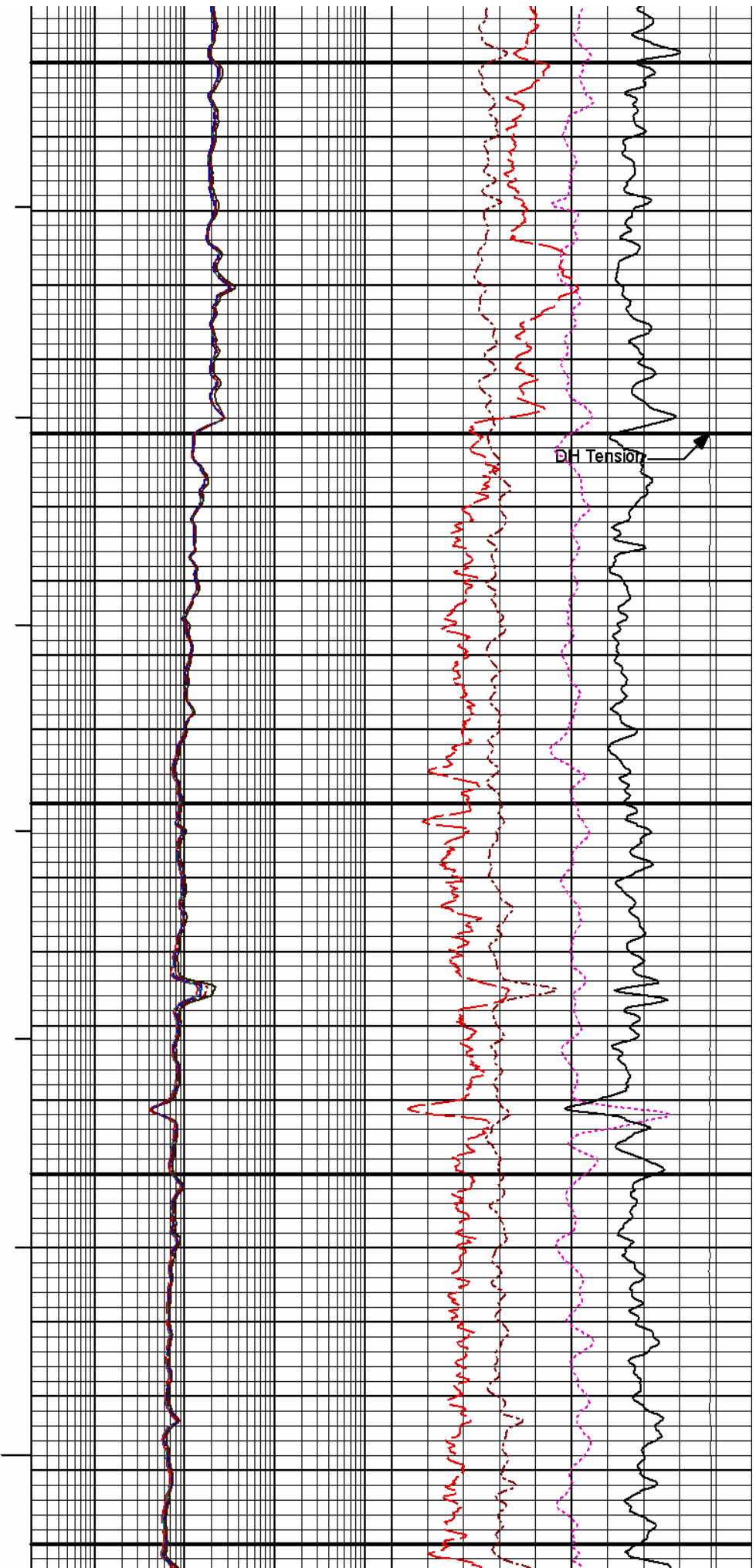
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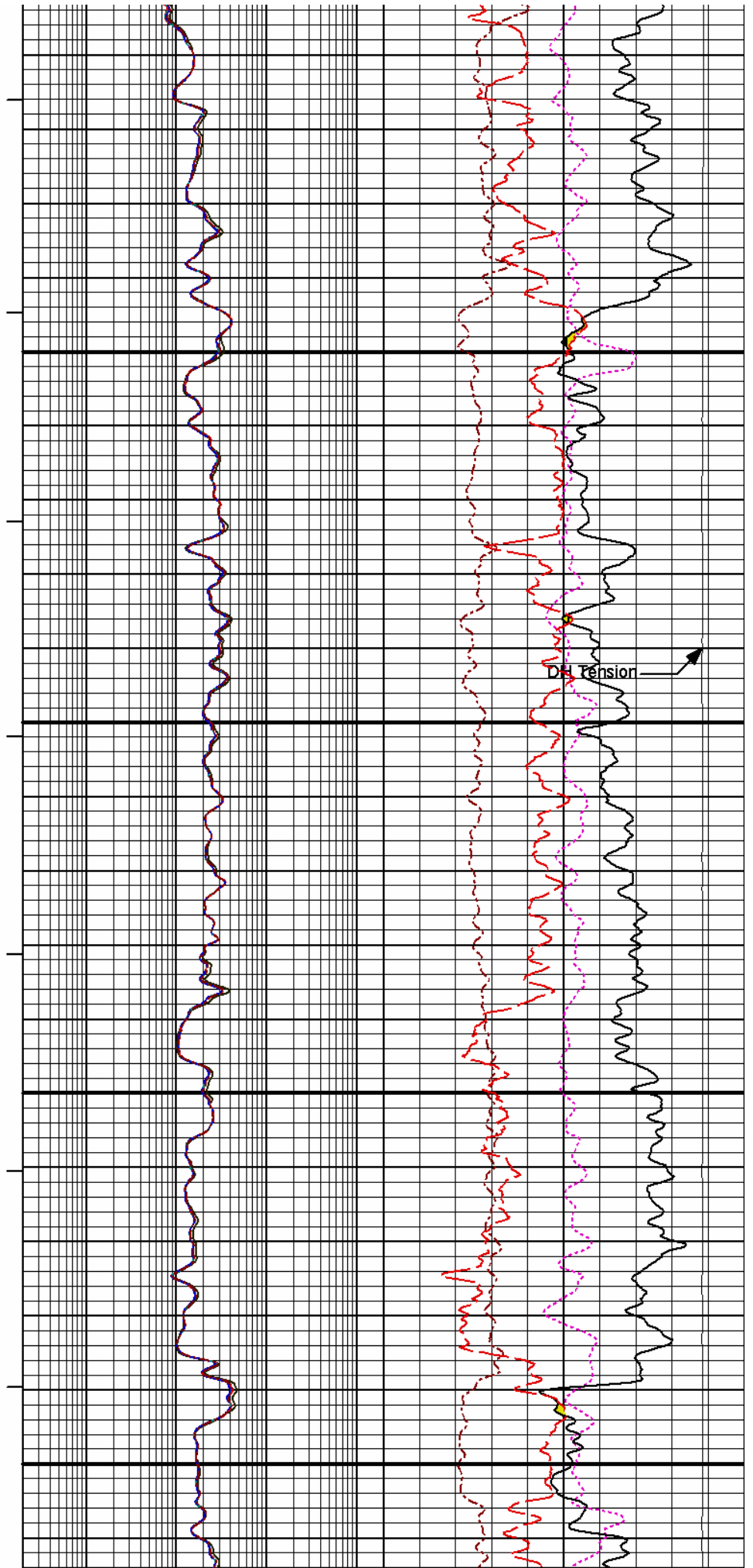
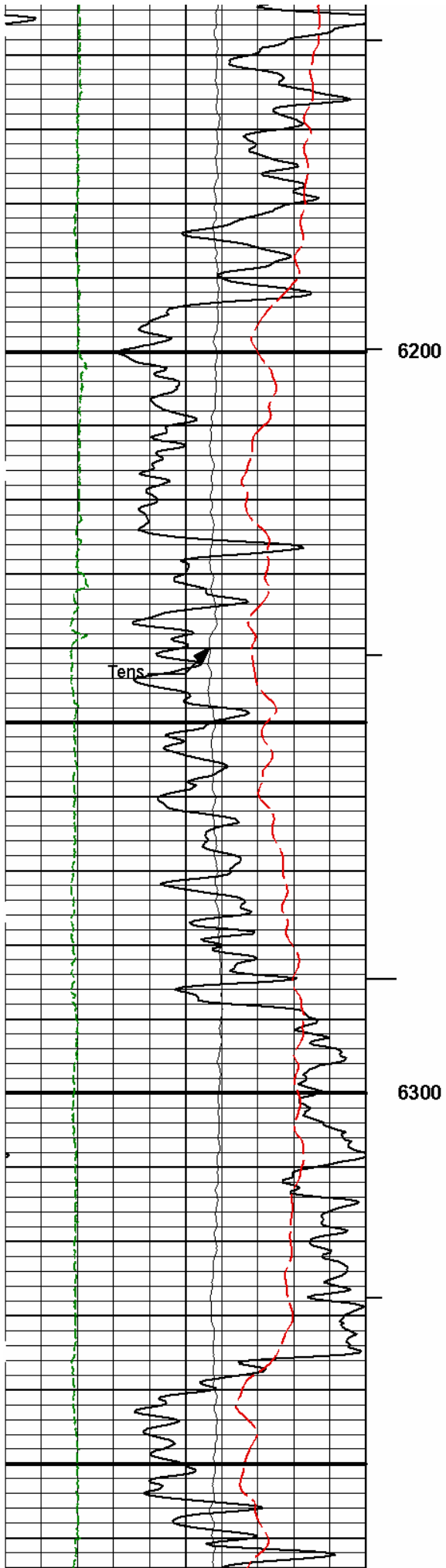


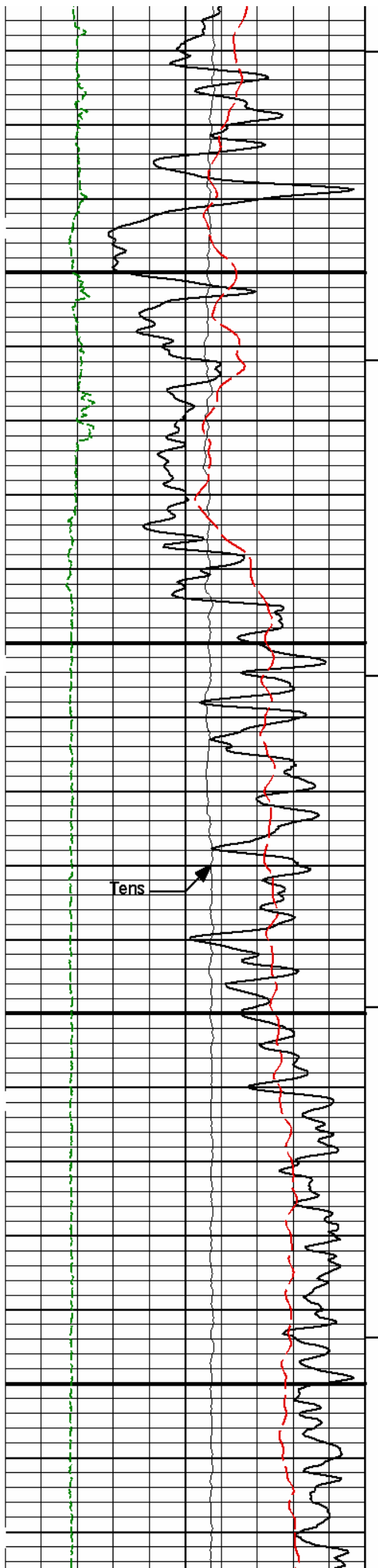


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6100



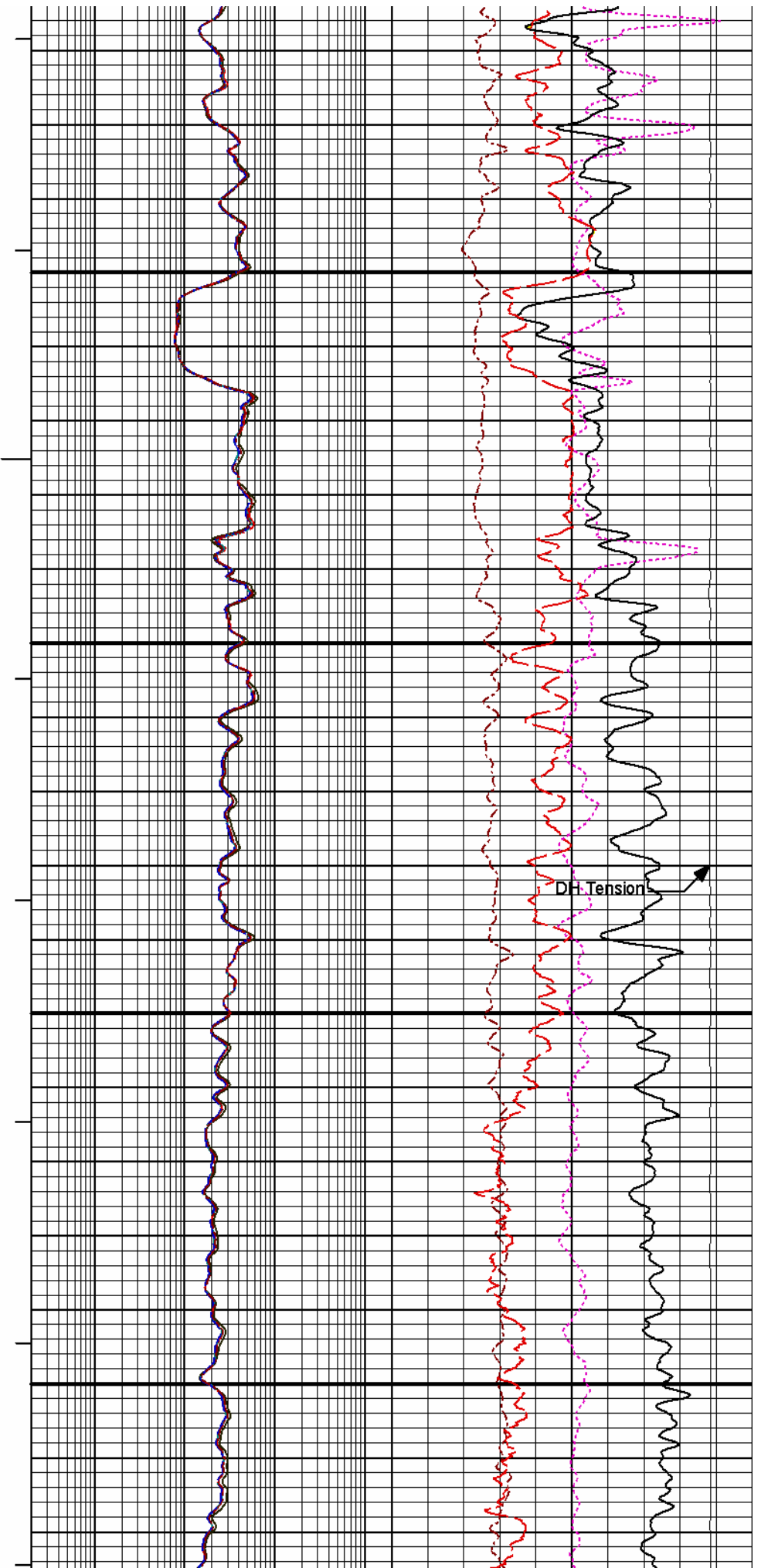




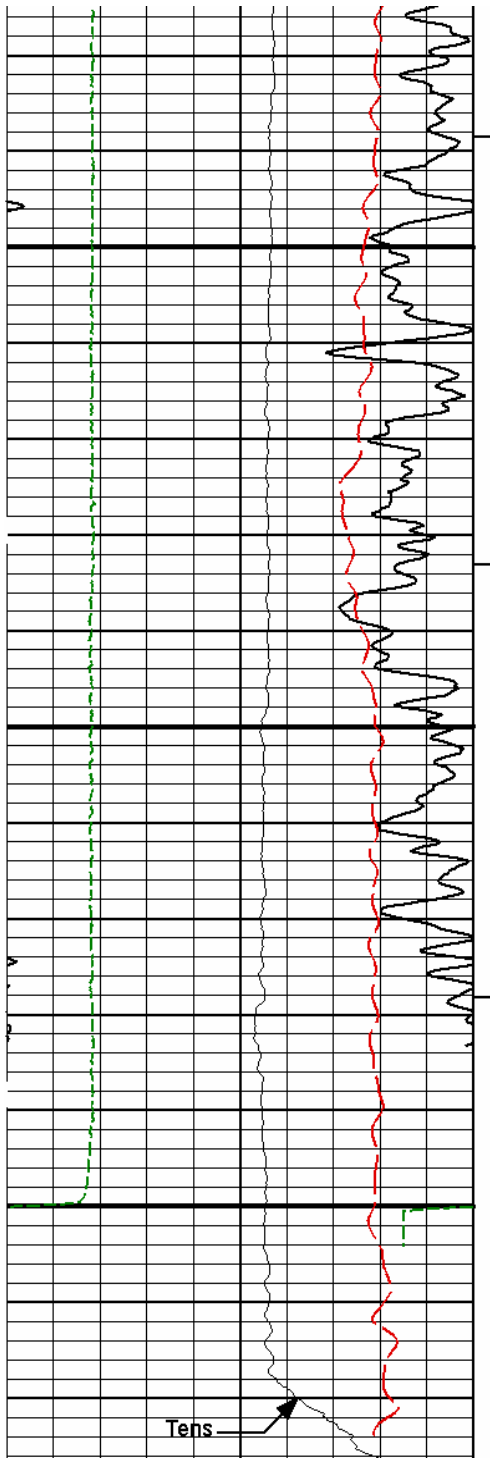
Tens

6400

6500



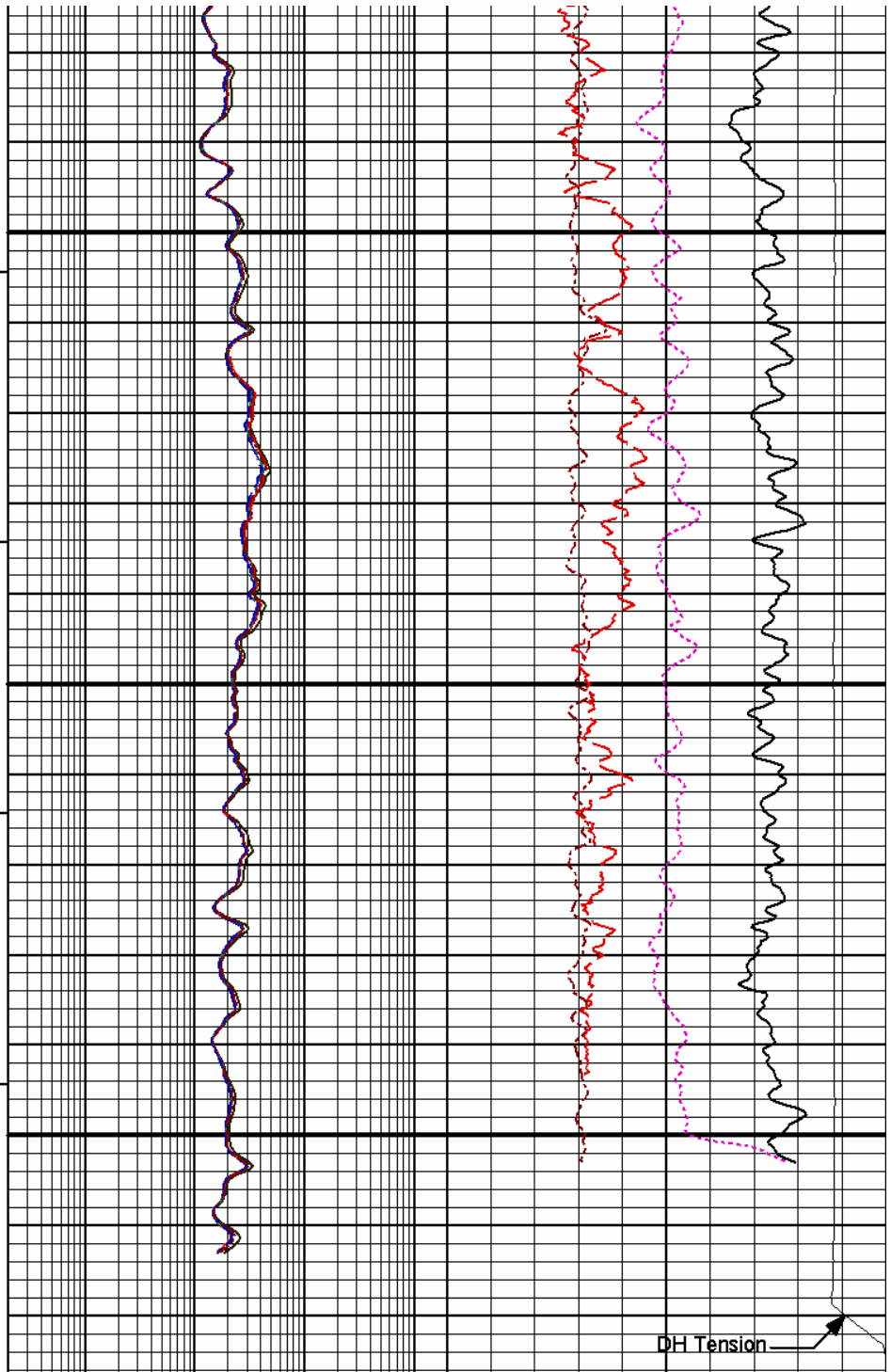
DH Tension



6600

6700

Tens



DH Tension

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

1 : 240

BHVT

AHVT

0.2	RT90	2K
	Ohm-m	
0.2	RT60	2K
	Ohm-m	
0.2	RT30	2K
	Ohm-m	
0.2	RT20	2K
	Ohm-m	
0.2	RT10	2K
	Ohm-m	

-0.25	Density Corr	0.25
	gram per cc	
0	Pe	10
30	Density Porosity	-10
	percent	
30	Neutron Porosity	-10
	percent	
10K	DH Ten	0
	pounds	

HALLIBURTON

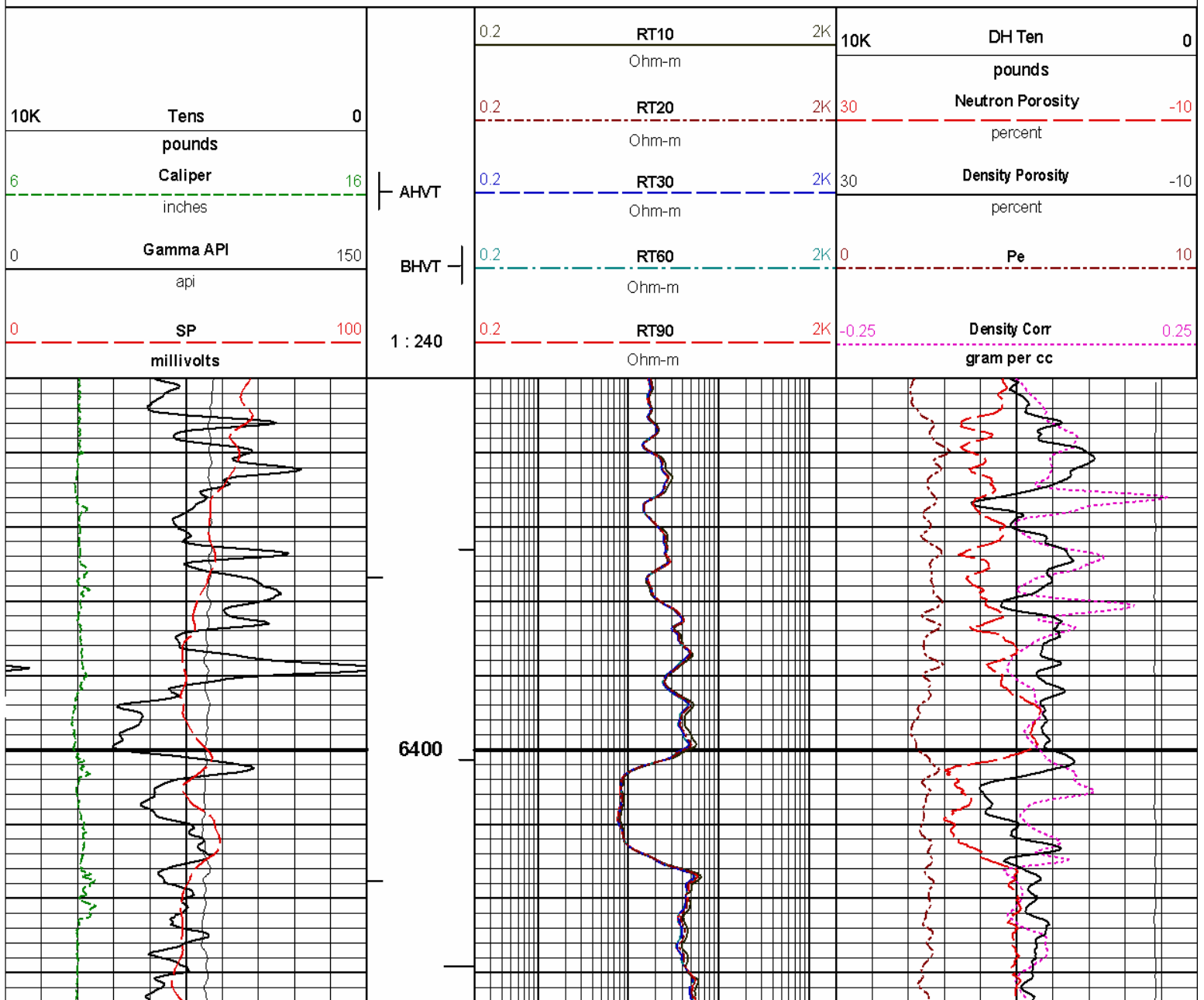
Plot Time: 04-Feb-11 00:20:11
 Plot Range: 1530 ft to 6726.42 ft
 Data: AX KC 23 210 QOIW/All Recs/MAIN*

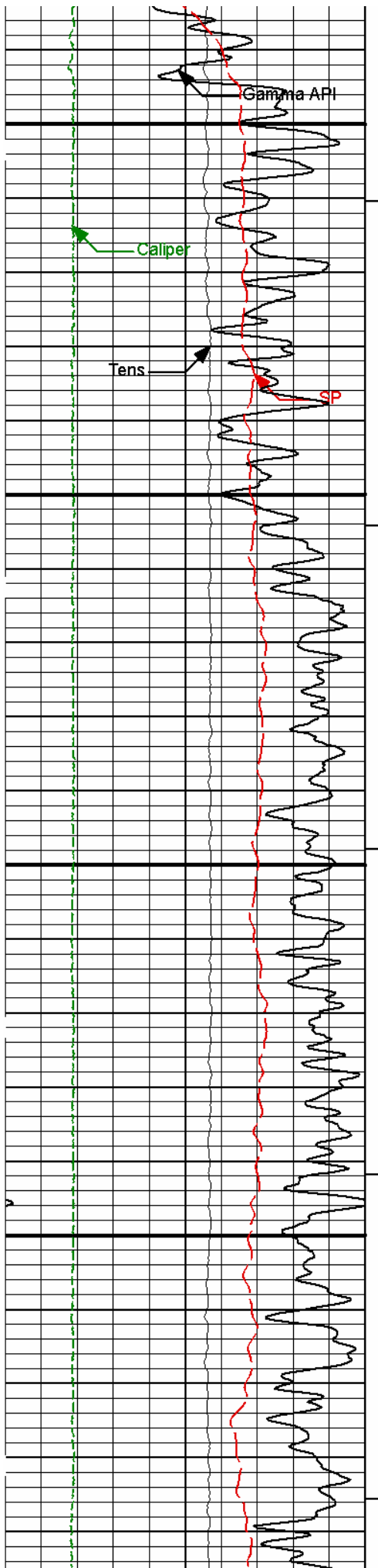
MAIN PASS 5" = 100'

HALLIBURTON

Plot Time: 04-Feb-11 00:20:11
Plot Range: 6350 ft to 6726.4 ft
Data: AX_KC_23_210_99\Well Based\REPEAT1
Plot File: \\COMP\BP_5IN_COMP_M

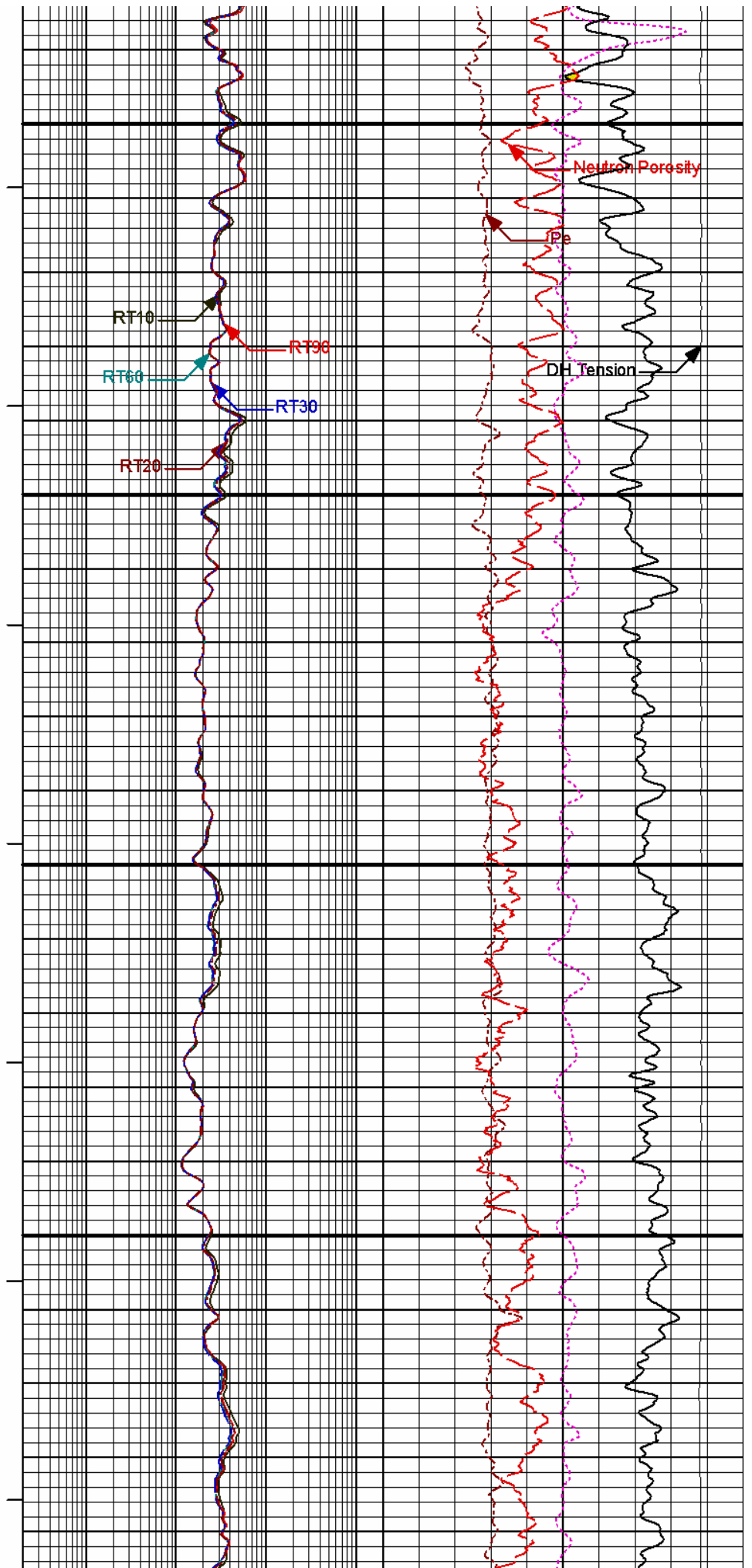
MAIN PASS 5" = 100'

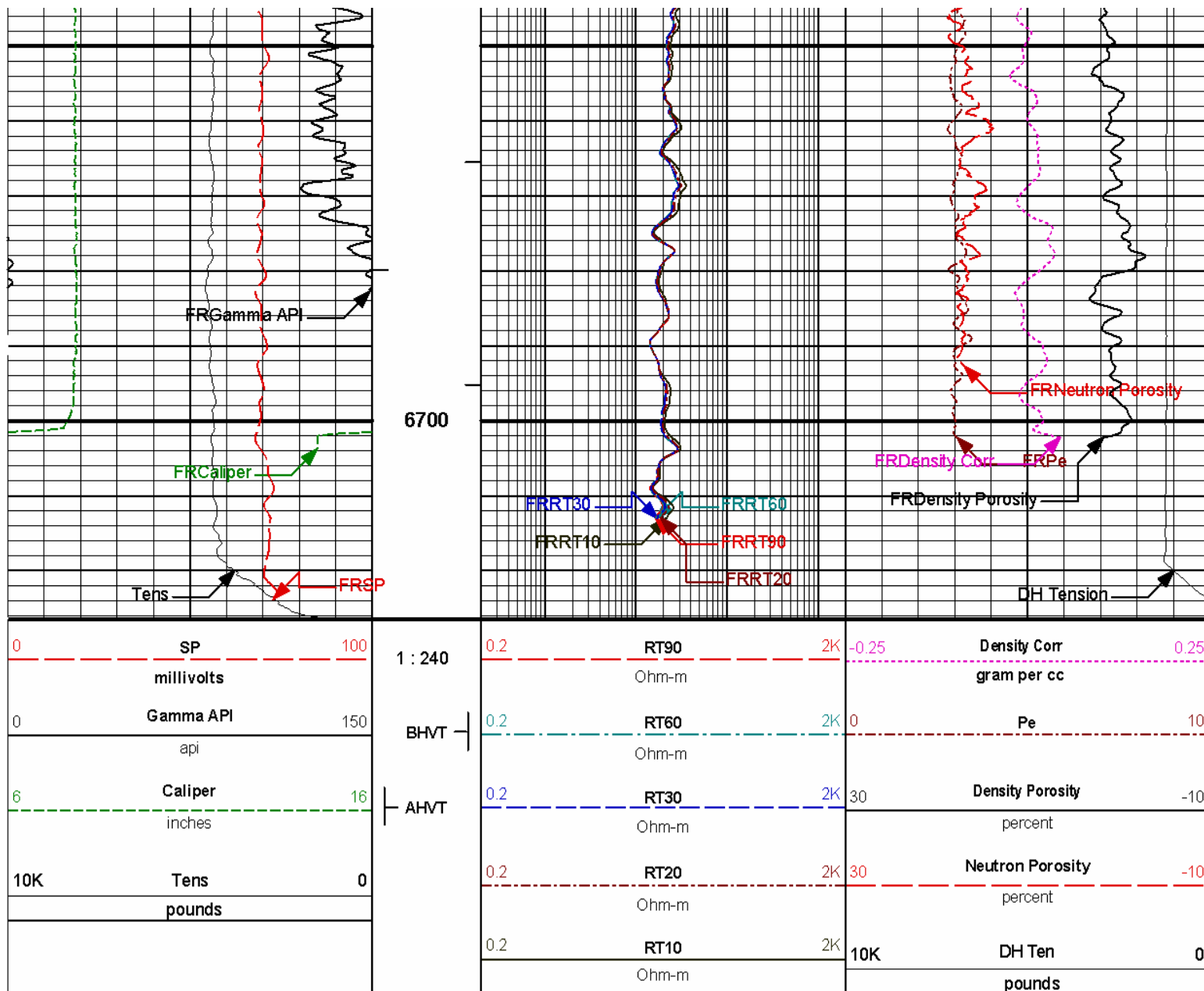




6500

6600





HALLIBURTON

Plot Time: 04-Feb-11 00:20:14
 Plot Range: 6350 ft to 6726.4 ft
 Data: AX_KC_23_210_99\Well Based\REPEAT1*
 Plot File: \\COMP\BP_5IN_COMP_M

MAIN PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11004661

Reference Calibration Date: 14-Dec-10 18:40:33

Engineer: C. BLUE

Calibration Date: 19-Jan-11 10:27:15

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	53.8	54.0	api
Background + Calibrator	296.0	297.2	api
Calibrator	243.4	243.2	api

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10993888

Reference Calibration Date: 10-Dec-10 15:56:41

Engineer: W. MATSON

Calibration Date: 07-Jan-11 15:35:37

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: 68 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.964	0.964	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):	0.2165	0.2166	0.0001	+/- 0.0020
Calibrated Ratio:	9.92	9.92	0.003	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0564	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT - 10951314

Reference Calibration Date: 10-Dec-10 13:33:28

Engineer: W. MATSON

Calibration Date: 07-Jan-11 16:08:00

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

Calibration Version: 1

Logging Source S/N: 5253GW

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	1.0725	1.0381	0.90 - 1.10

Near Dens Gain	1.0280	0.9982	0.90 - 1.10
Near Peak Gain	1.0150	0.9555	0.90 - 1.10
Near Lith Gain	0.9737	0.9076	0.90 - 1.10
Far Bar Gain	1.0142	1.0125	0.90 - 1.10
Far Dens Gain	1.0007	0.9962	0.90 - 1.10
Far Peak Gain	0.9911	0.9861	0.90 - 1.10
Far Lith Gain	0.9700	0.9553	0.90 - 1.10
Near Bar Offset	-0.5627	-0.2520	NONE
Near Dens Offset	-0.1481	0.1108	NONE
Near Peak Offset	-0.0285	0.4670	NONE
Near Lith Offset	0.2972	0.8455	NONE
Far Bar Offset	-0.0709	-0.0558	NONE
Far Dens Offset	0.0532	0.0792	NONE
Far Peak Offset	0.1259	0.1472	NONE
Far Lith Offset	0.2685	0.3601	NONE
Near Bar Background	951.74	949.61	700 - 1450
Near Dens Background	316.38	313.68	230 - 480
Near Peak Background	137.51	138.50	100 - 210
Near Lith Background	168.18	169.88	125 - 260
Far Bar Background	571.94	572.12	450 - 900
Far Dens Background	222.72	222.17	175 - 345
Far Peak Background	88.30	87.44	70 - 140
Far Lith Background	91.73	92.38	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.688	1.686	-0.002	+/- 0.015
Pe	2.517	2.555	0.038	+/- 0.150
ALUMINUM				
Density (g/cc)	2.605	2.610	0.005	+/- 0.01500
Pe	3.089	3.064	-0.025	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0031	+/- 0.0110	-0.0019	+/- 0.0140
Magnesium Block	0.0005	+/- 0.0110	-0.0017	+/- 0.0140
Aluminum Block	0.0008	+/- 0.0110	-0.0005	+/- 0.0140
Resolution	9.29	6.00 - 11.50	9.46	6.00 - 11.50
Internal Verifier(B+D+P+L)	1572	1200 - 2700	974	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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	W. MATSON	Calibration Date:	10-Dec-10 13:58:32
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	-1560.13	-1560.13	-7000.00 - -1000.00
Pad Gain	0.0003780	0.0003780	0.000200 - 0.000600
Arm Offset	-2625.39	-2625.39	-5000.00 - 3000.00
Arm Gain	0.0005744	0.0005744	0.000300 - 0.000700
Arm Power	-0.000005884	-0.000005884	-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)	2.00	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
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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

Signal	Lower	R	Upper
12K	0.6	0.8635	1.3
36K	1.0	1.8975	2.0
72K	1.0	1.1171	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.005	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11004661						
Gamma Ray Calibrator	243.2	-----	-----	0.0	+/- 9.00	api
DSNT-10993888						
Snow-Block Porosity	0.0564	-----	-----	0.0000	+/- ---	decP
SDLT-10951314						
Near(B+D+P+L)	1571.678	-----	-----	0.000	+/-13.948	cps
Far(B+D+P+L)	974.106	-----	-----	0.000	+/-15.193	cps
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
ACRt-90190515-E9775-						
Mud Cell	1.005	-----	-----	0.000	-----	ohm-m

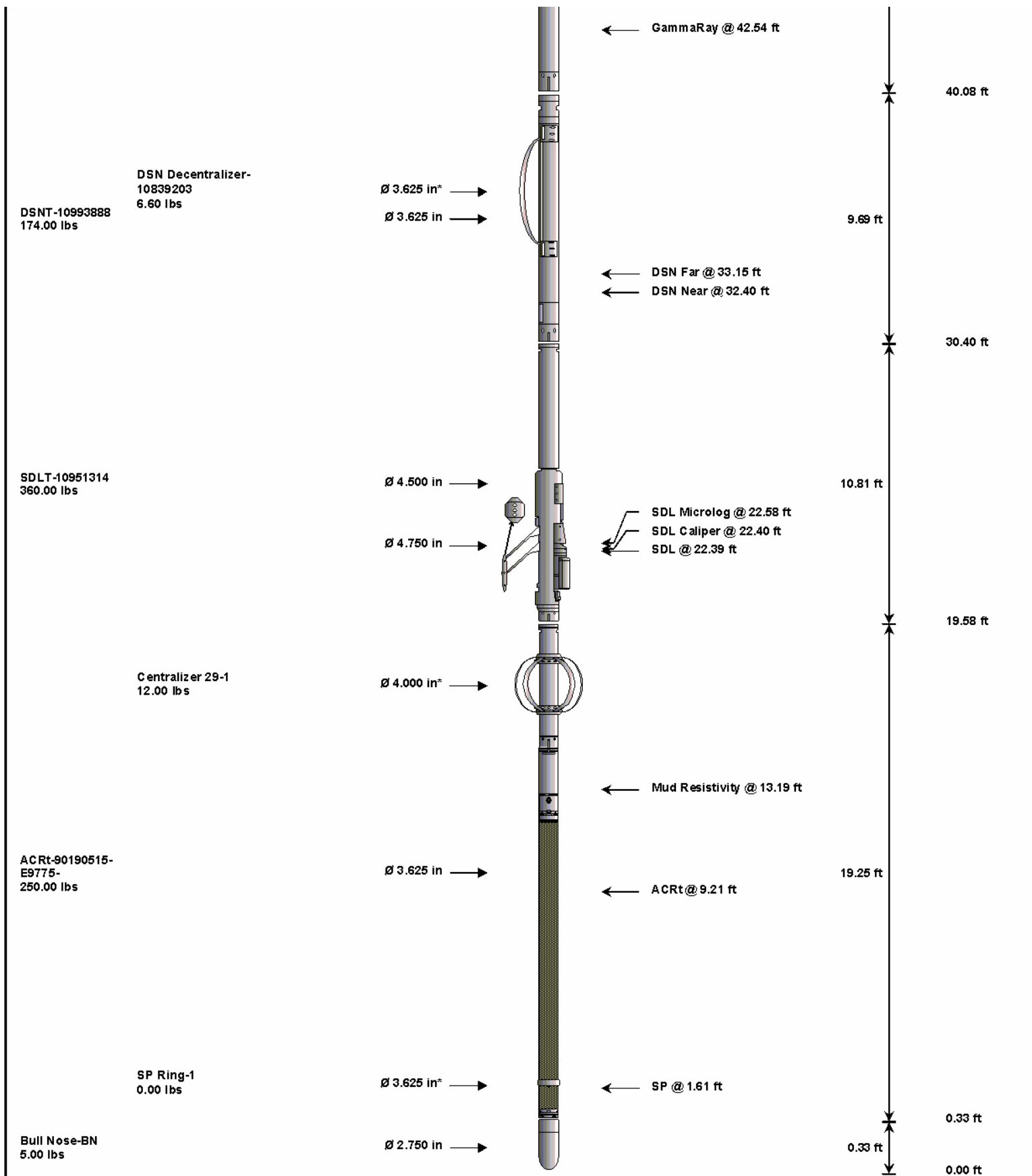
Data: AX_KC_23_210_99\0001 QUAD\IDLE

Date: 03-Feb-11 23:06:00

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-A089 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
GTET-11004661 165.00 lbs		Ø 3.625 in →			8.52 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	A089	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	300.00
SDLT	Spectral Density Tool	10951314	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
OBCEN	Centralizer - 29 in.Overbody	1	12.00	2.42	*	15.98	300.00
BLNS	Bull Nose	BN	5.00	0.33		0.00	300.00
Total			1,107.60	54.85			
					* Not included in Total Length and Length Accumulation.		
Data: AX_KC_23_210_9910001 QUAD1003 03-Feb-11 22:46 Up @6727.0f					Date: 03-Feb-11 22:52:25		

COMPANY	AXIA ENERGY LCC					
WELL	KIMBALL CREEK 23-210D-995					
FIELD	BUZZARD					
COUNTY	MESA	STATE	CO			
HALLIBURTON			SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY			