

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY		FOUNDATION ENERGY	
WELL		GREEN 1-10	
FIELD/BLOCK		WILDCAT	
COUNTY		WELD	
STATE		CO	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		10-Jun-14	
Run No.		ONE	
Depth - Driller		7100.00 ft	
Depth - Logger		7096.0 ft	
Bottom - Logged Interval		7093 ft	
Top - Logged Interval		CASING	
Casing - Driller		8.625 in @ 618.0 ft	
Casing - Logger		611.0 ft	
Bit Size		7.875 in	
Type Fluid in Hole		Water Based Mud	
Density		9.3 ppg	
Viscosity		49.00 s/qt	
PH		8.50 pH	
Fluid Loss		7.6 cpm	
Source of Sample		MUD TANK	
Rm @ Meas. Temperature		1.800 ohmm @ 65.50 degF	
Rmf @ Meas. Temperature		1.60 ohmm @ 54.20 degF	
Rmc @ Meas. Temperature		2.100 ohmm @ 59.80 degF	
Source Rmf		MEASURED	
Rmc		MEASURED	
Rm @ BHT		0.65 ohmm @ 193.0 degF	
Time Since Circulation		6.0000 hr	
Time on Bottom		10-Jun-14 06:51	
Max. Rec. Temperature		193.0 degF @ 7096.0 ft	
Equipment		11170614	
Location		ROCK SPRING	
Recorded By		J. SCHMIDT	
Witnessed By		M. SMITH	

COMPANY	FOUNDATION ENERGY
WELL	GREEN 1-10
FIELD/BLOCK	WILDCAT
COUNTY	WELD
STATE	CO
API No.	05123357550000
Location	SHA: 1600' FSL & 2186' FEL NWSE LATITUDE: 40.601578 LONGITUDE: -104.038833
Sect. 1	Twp. 7N
Rge.	60W
Elev. 4948.0 ft	Elev.: K.B. 4960.0 ft D.F. 4960.0 ft G.L. 4948.0 ft

Other Services:
RWCH
MICROLOG

Fold here

Service Ticket No.: N/A				API Serial No.: 05123357550000				PGM Version: WL INSITE R4.2.1 (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	N/A	0.5" S.O.	N/A	
Rmc @ Meas. Temp.		@		@			10996988				
Source Rmf	Rmc						10988481				
Rm @ BHT		@		@							
Rmf @ BHT		@		@		ONE	MICROLOG	MICROLOG	0.0" S.O.	N/A	
Rmc @ BHT		@		@			12026169				
EQUIPMENT DATA											
GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	ONE		Run No.			Run No.	ONE		Run No.	ONE	
Serial No.	11294346		Serial No.			Serial No.	11045462		Serial No.	10846353	
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	GAM-GAM		Log Type	NEU-NEU	
Type	SCINT					Source Type	Cs-137		Source Type	Am241Be	
Length	8"		LSA [Y/N]			Serial No.	5235 GW		Serial No.	08-018	
Distance to Source	10'		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	6800'	REC	0 API	200 API				30%	-10%	2.65 g/cc	30%	-10%	SAND															
ONE	6800'	CSG	REC	0 API	200 API				30%	-10%	2.71 g/cc	30%	-10%	LIME															
DIRECTIONAL INFORMATION																													
Maximum Deviation								@	KOP							@													
Remarks:																													
RWCH-GTET-DSNT-SDLT-ACRT RAN IN COMBINATION																													
BOREHOLE RUGOSITY, TENSION PULLS, AND WASHOUTS MAY EFFECT LOG QUALITY																													
ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING																													
YOUR CREW: D. PIEGER, T. HOWELL, P. GROCE															RIG: XCELL 3														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, WY (307) 352-8600																													
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					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
6800.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.300	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	740.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.800	ohmm
	SHARED	TRM	Temperature of Mud	65.5	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	7096.00	ft
	SHARED	BHT	Bottom Hole Temperature	193.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	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	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
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 for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.650	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	0.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Eccentered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	

BOTTOM

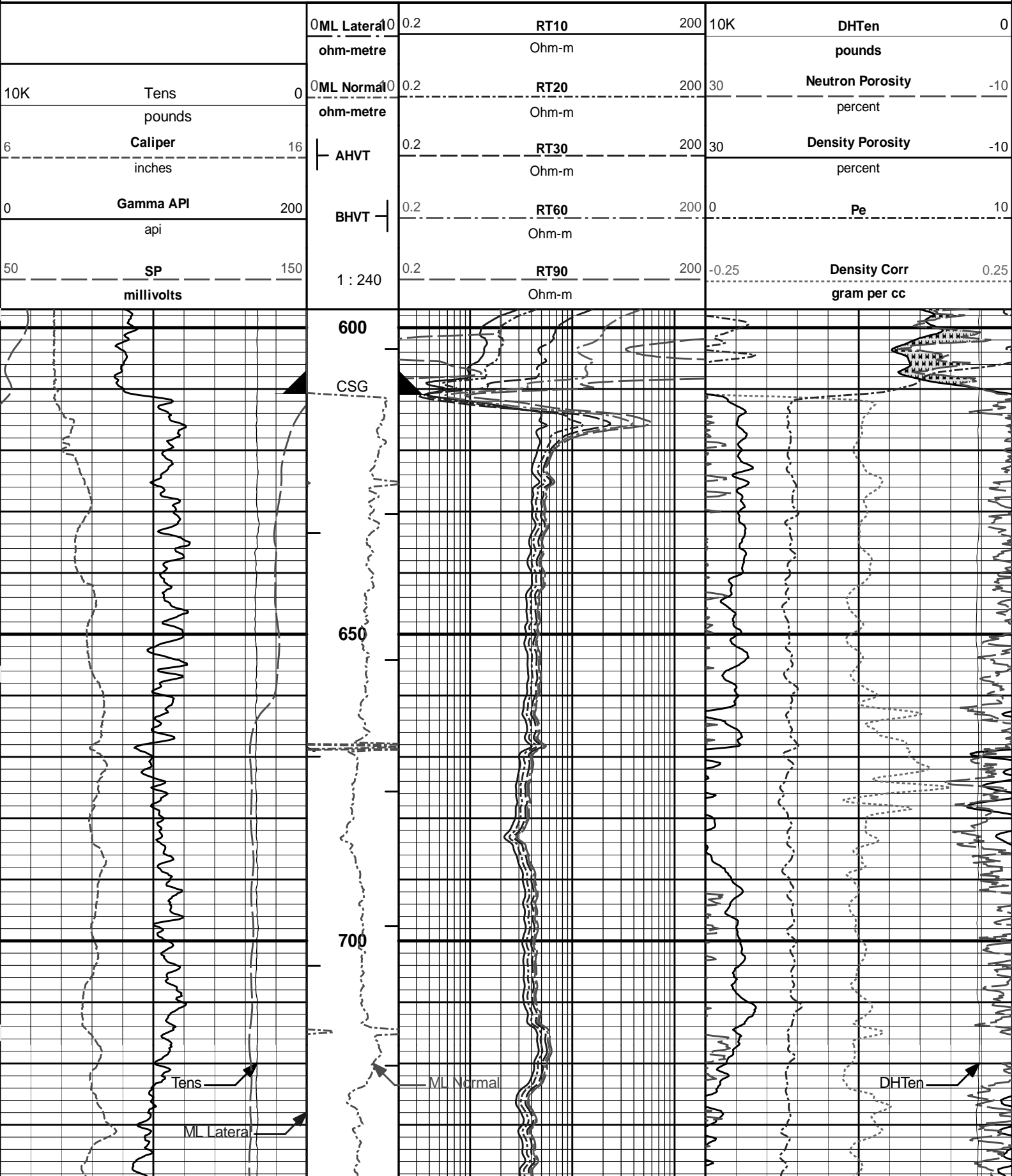
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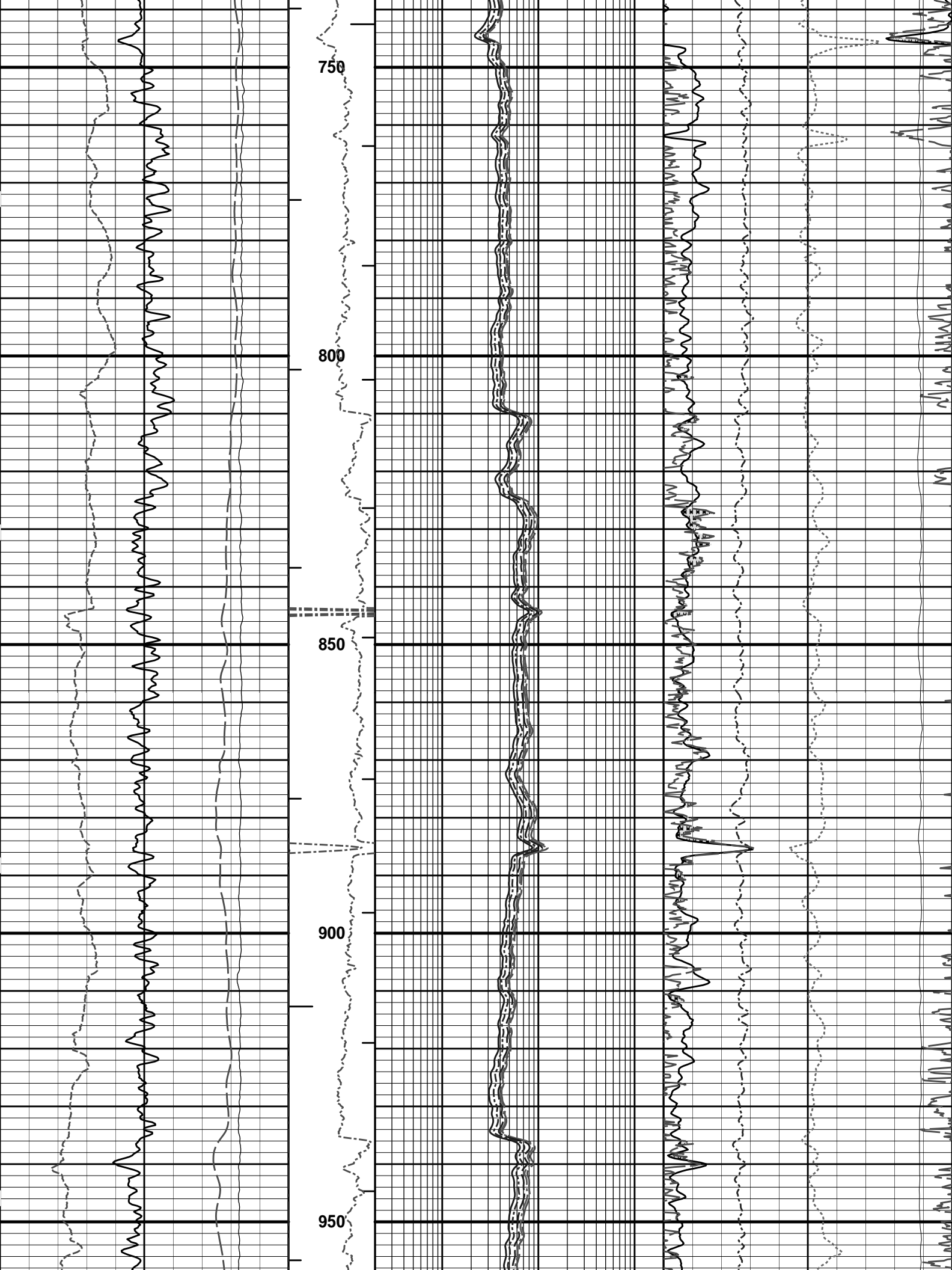
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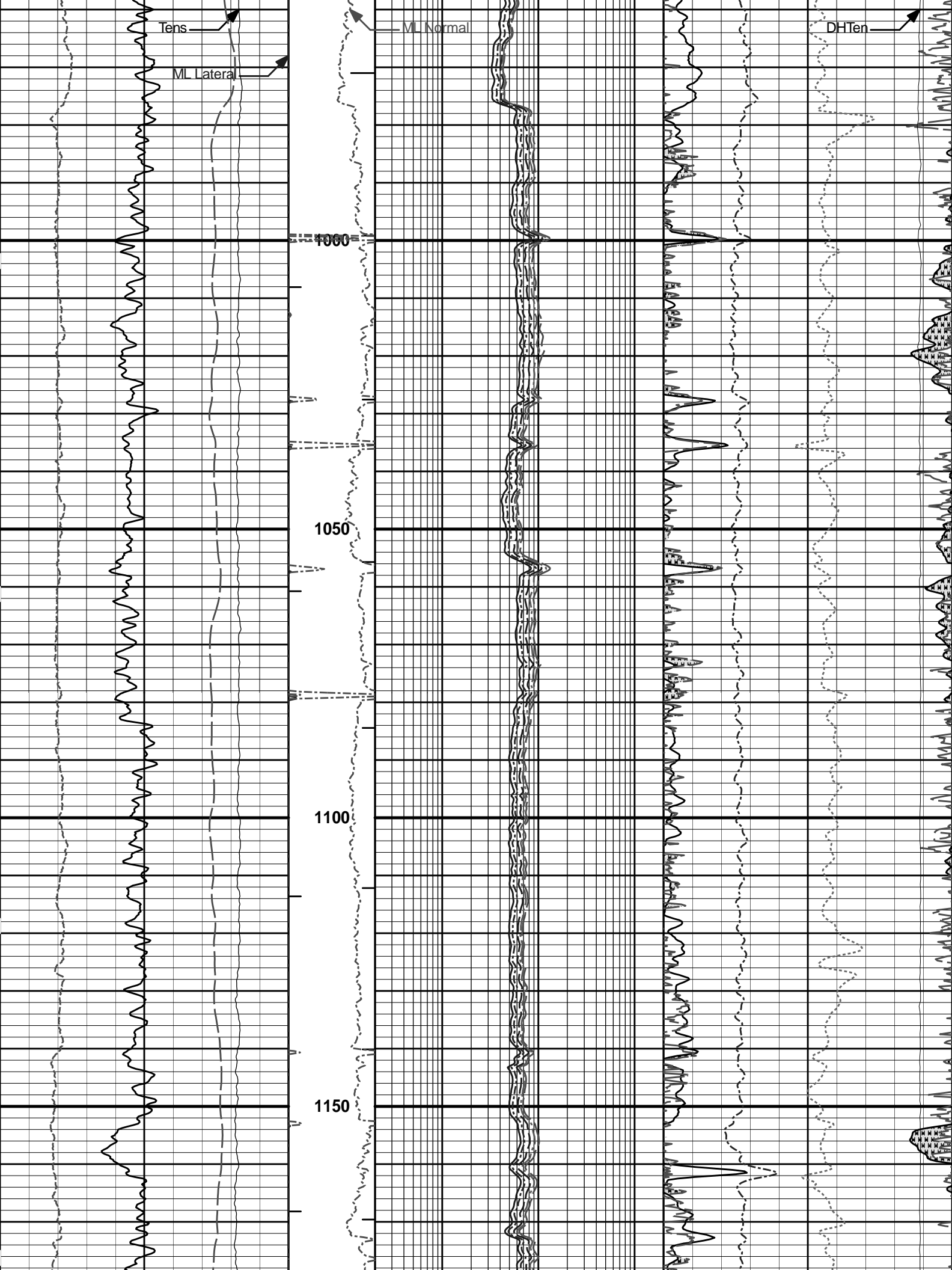
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Plot Time: 10-Jun-14 09:37:35
Plot Range: 597 ft to 7110.69 ft
Data: GREEN 1-10\Well Based\MAIN*
Plot File: \COMP\MAIN

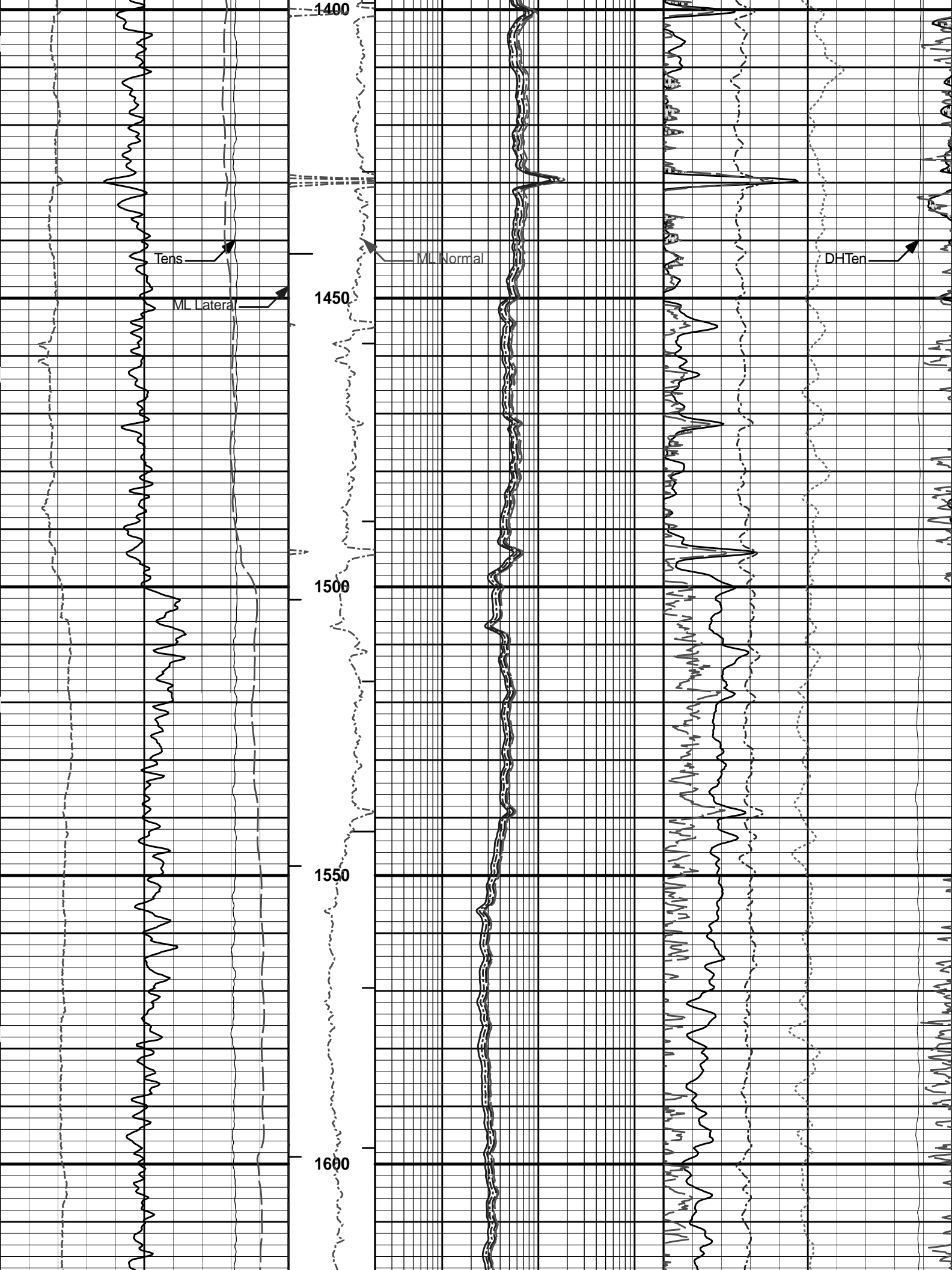
MAIN PASS 5" = 100'





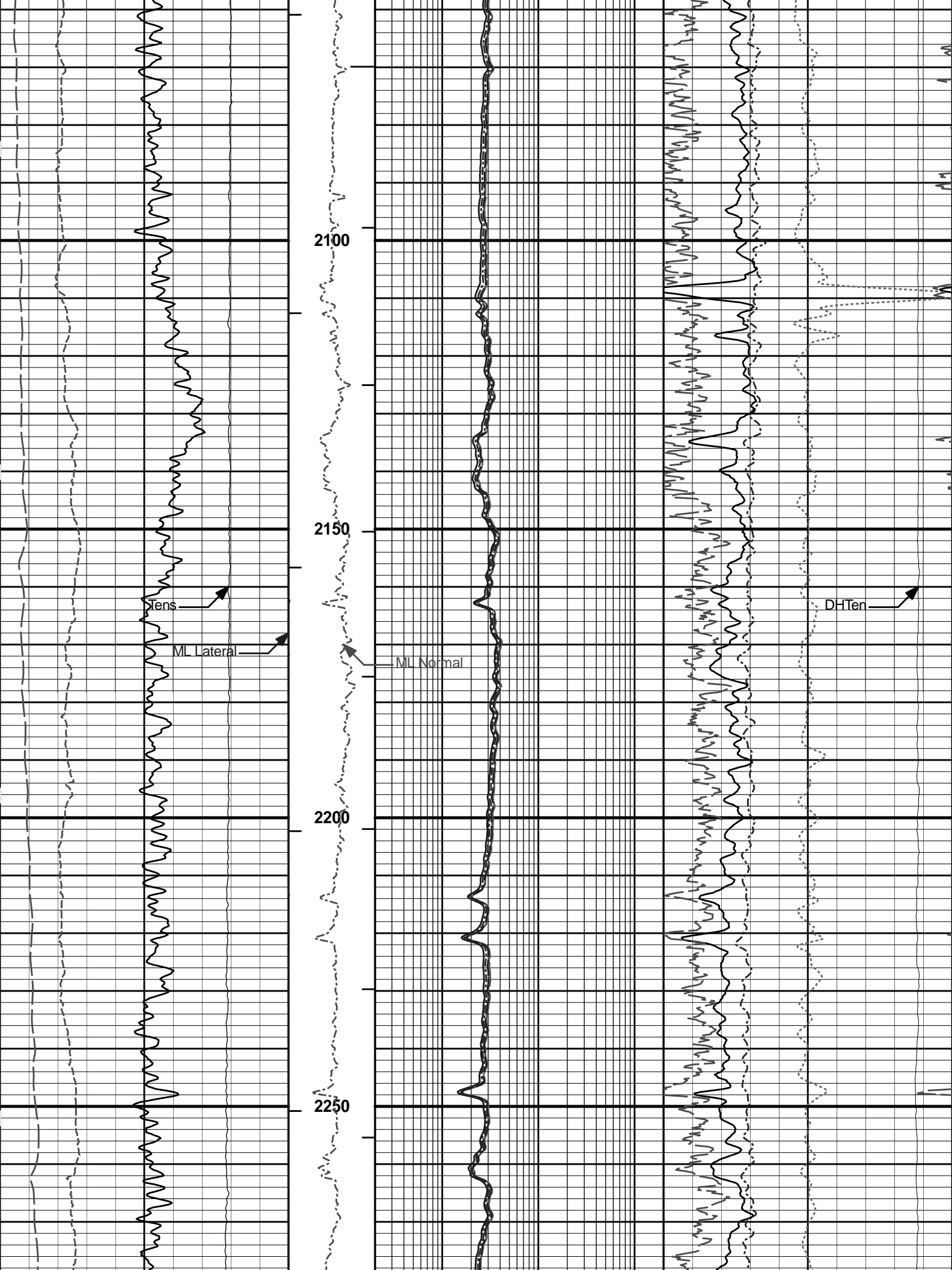








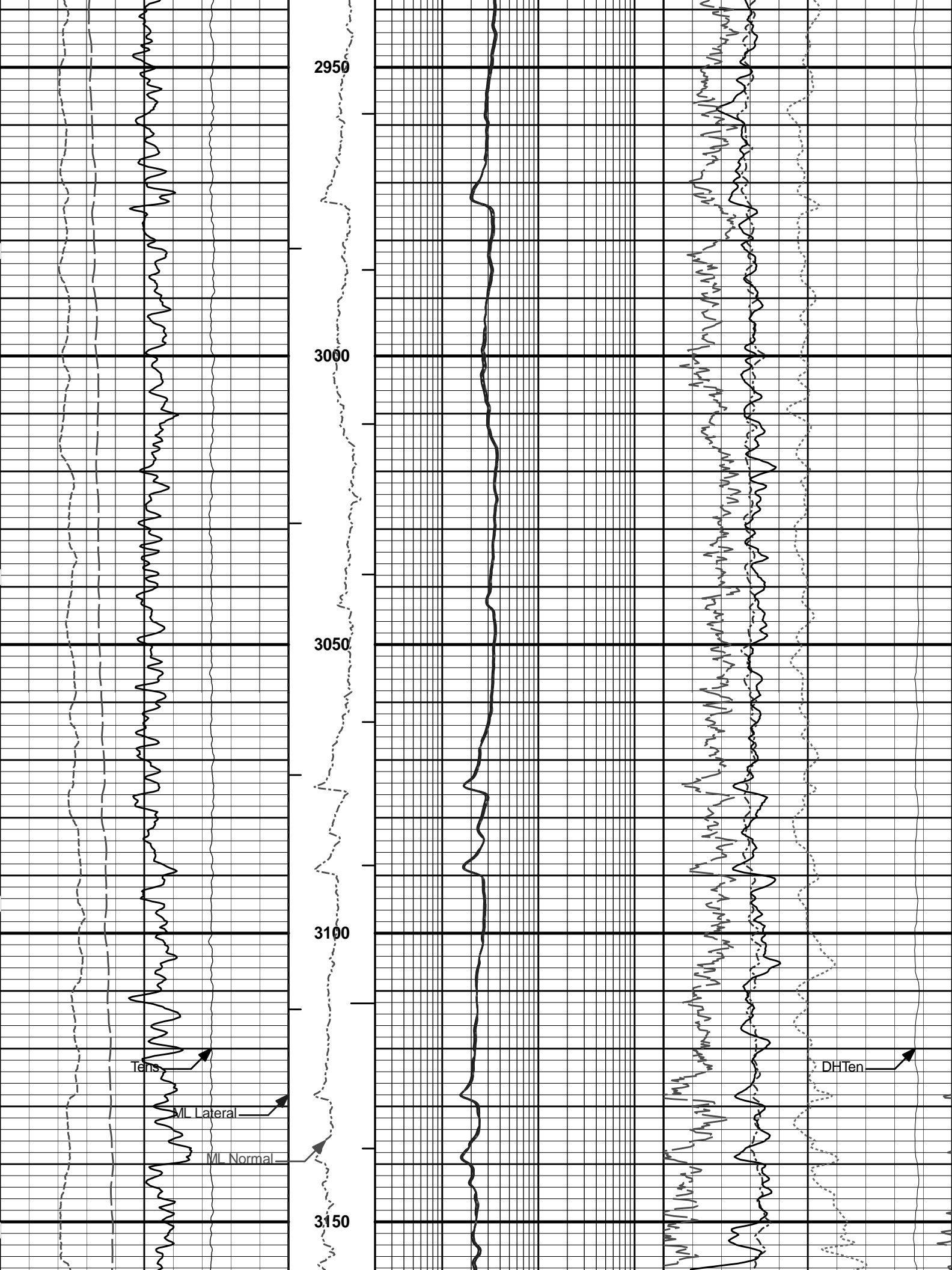


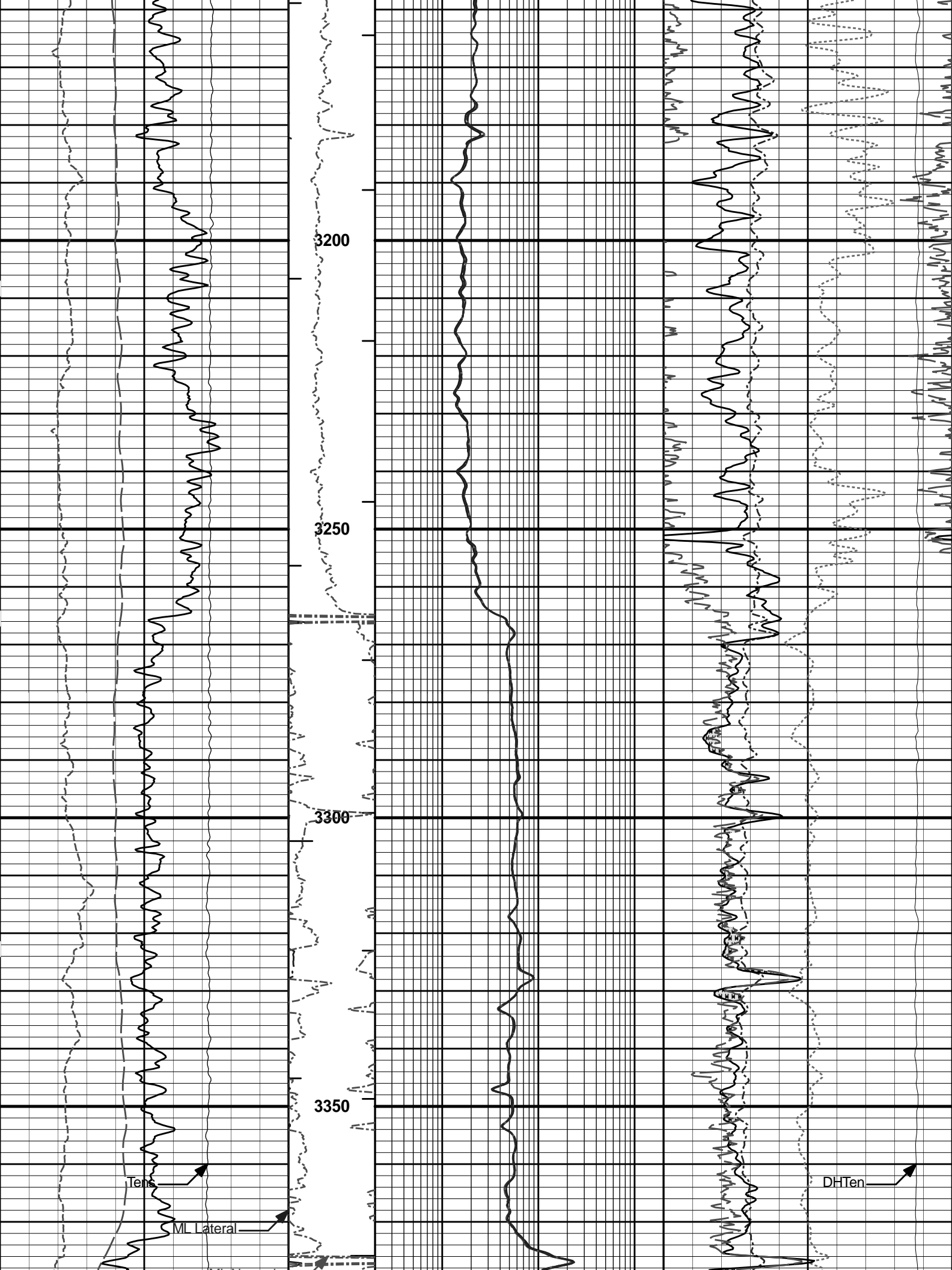












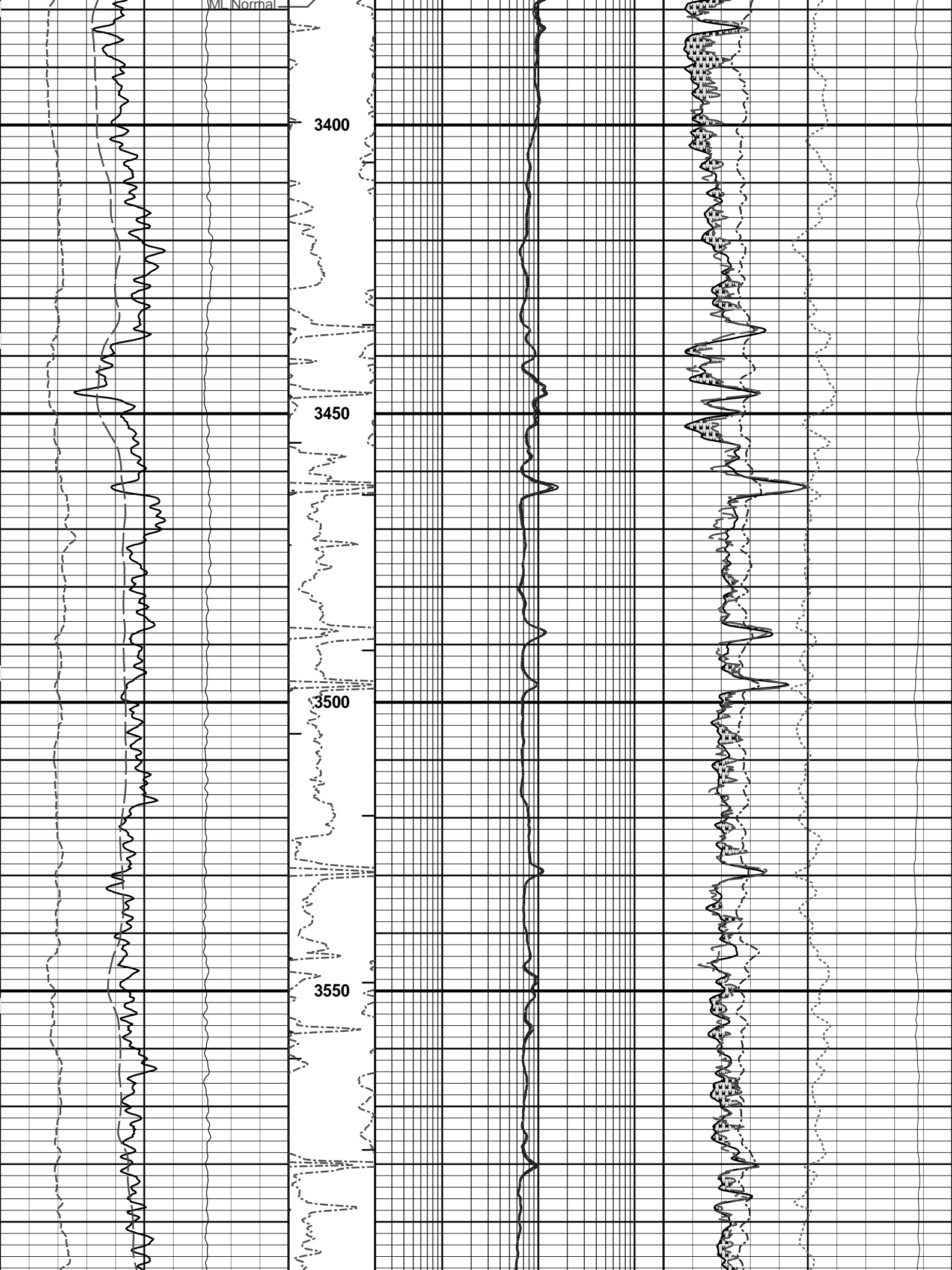
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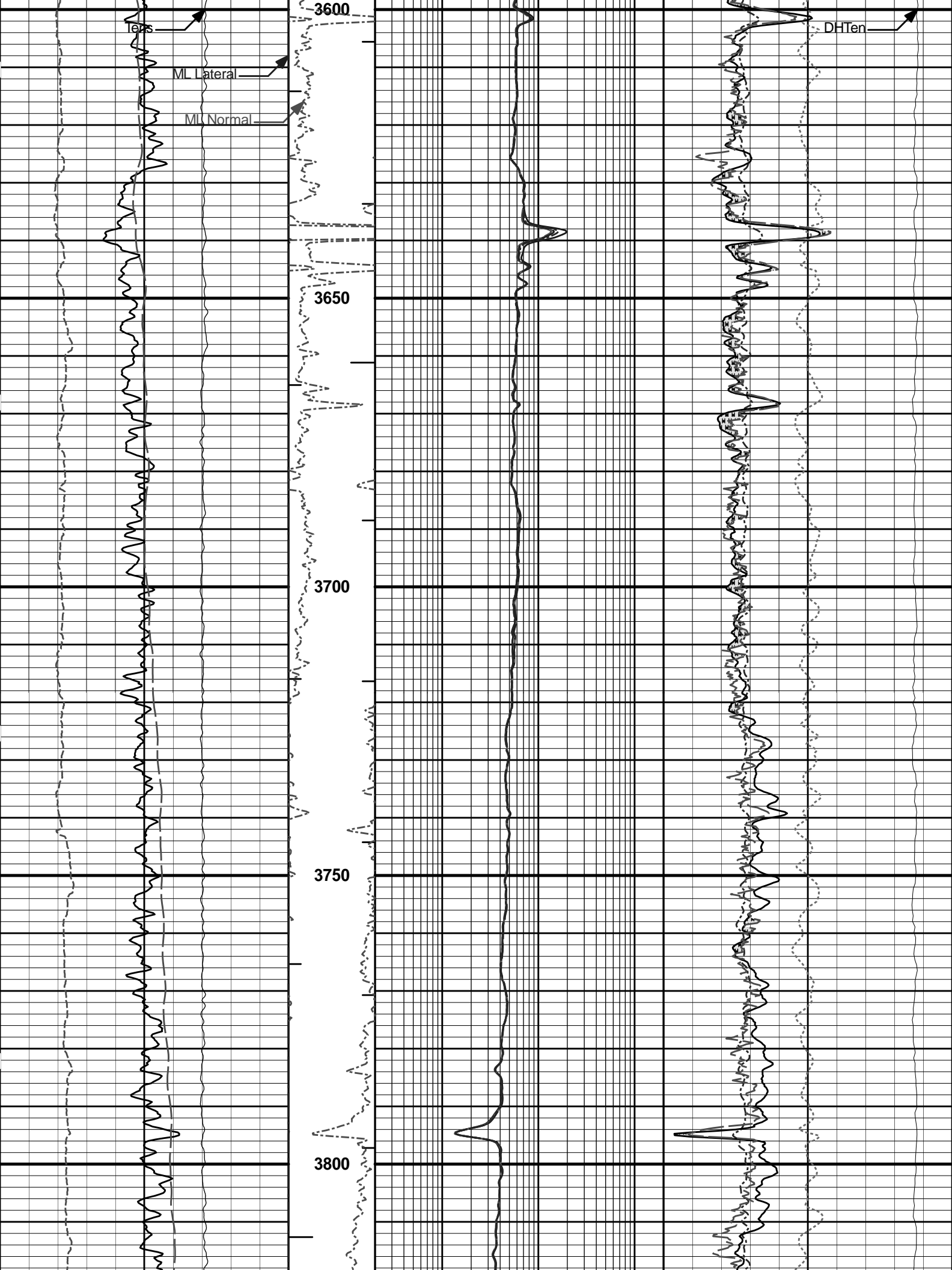
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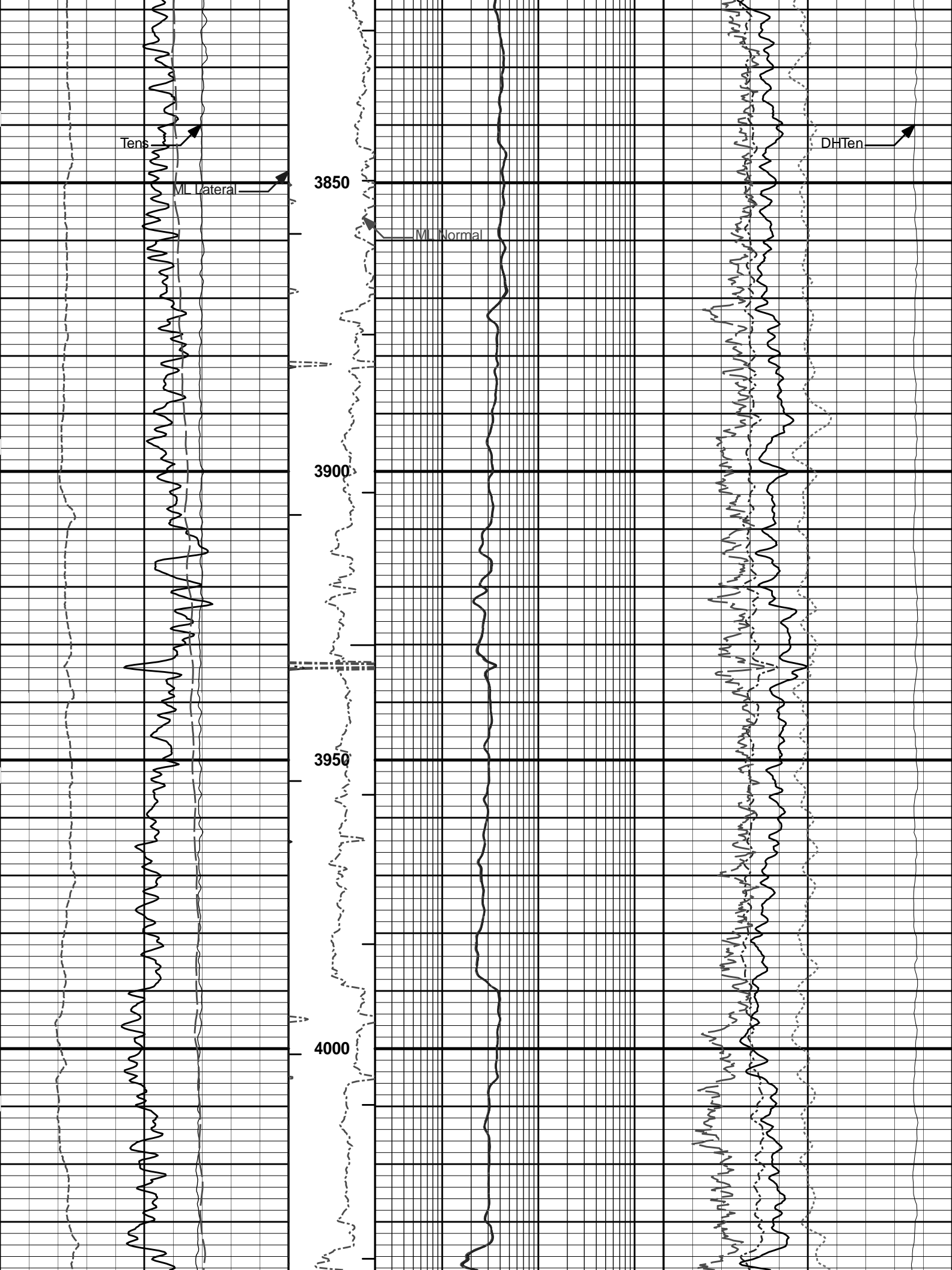
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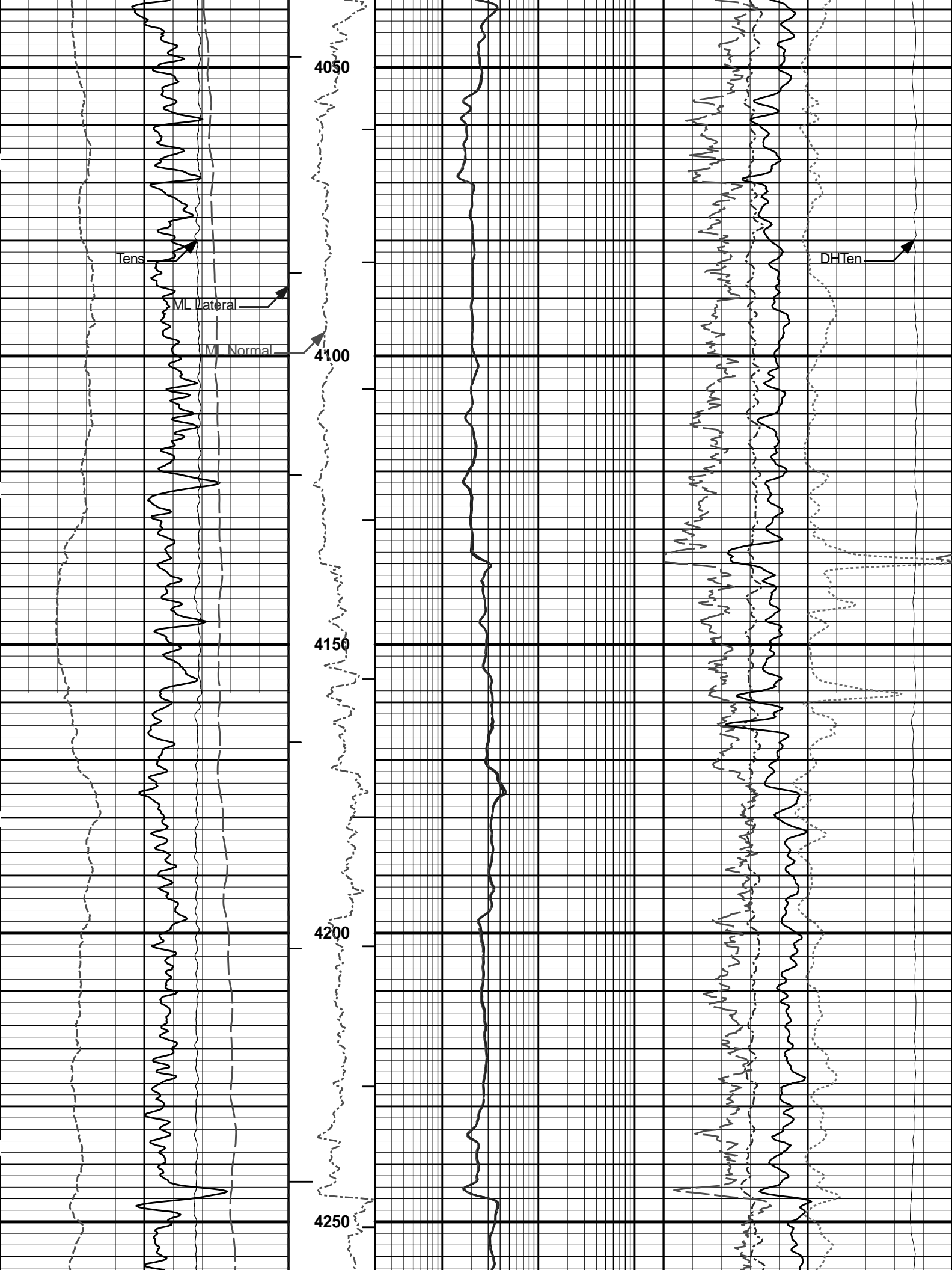
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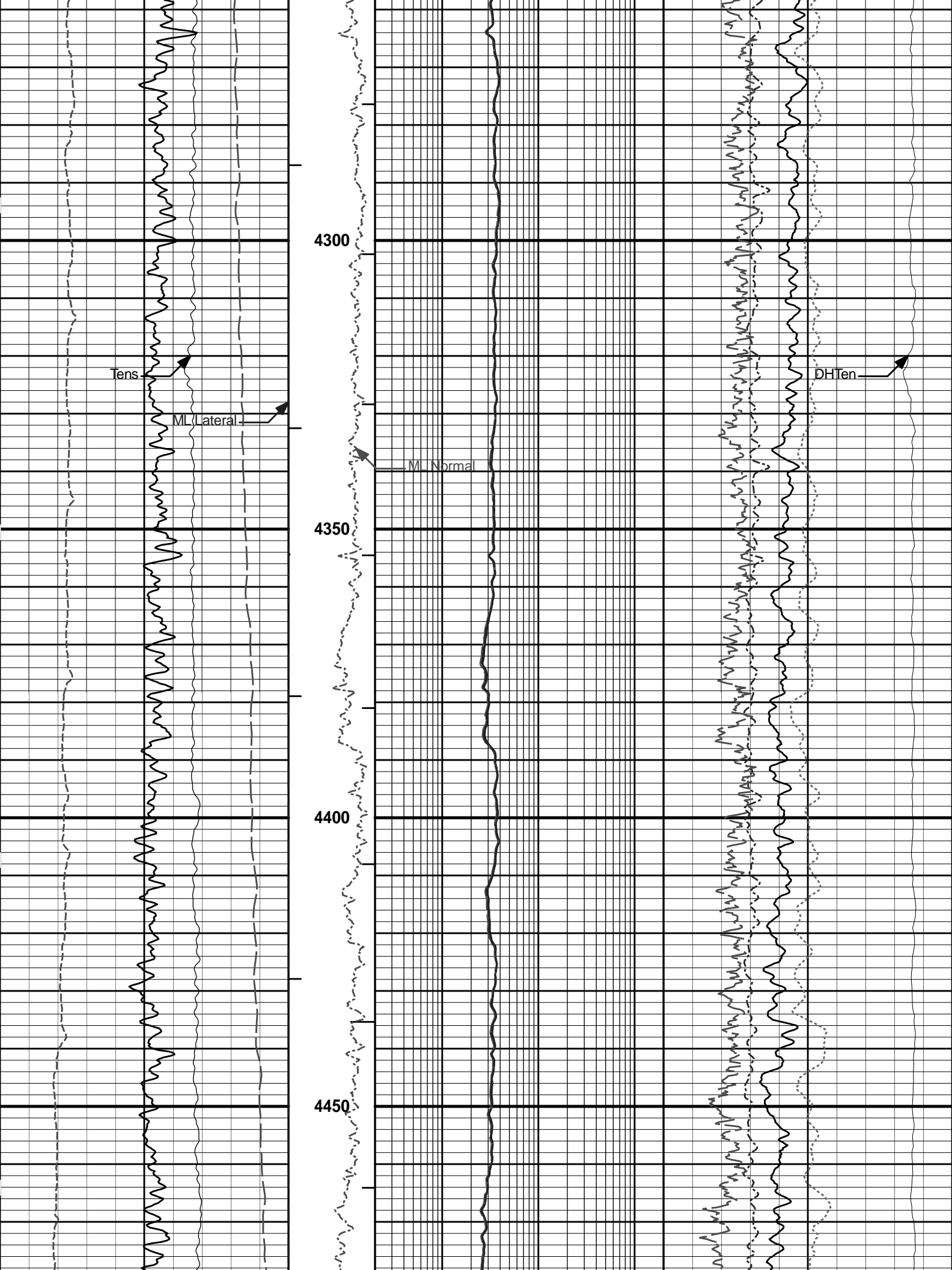
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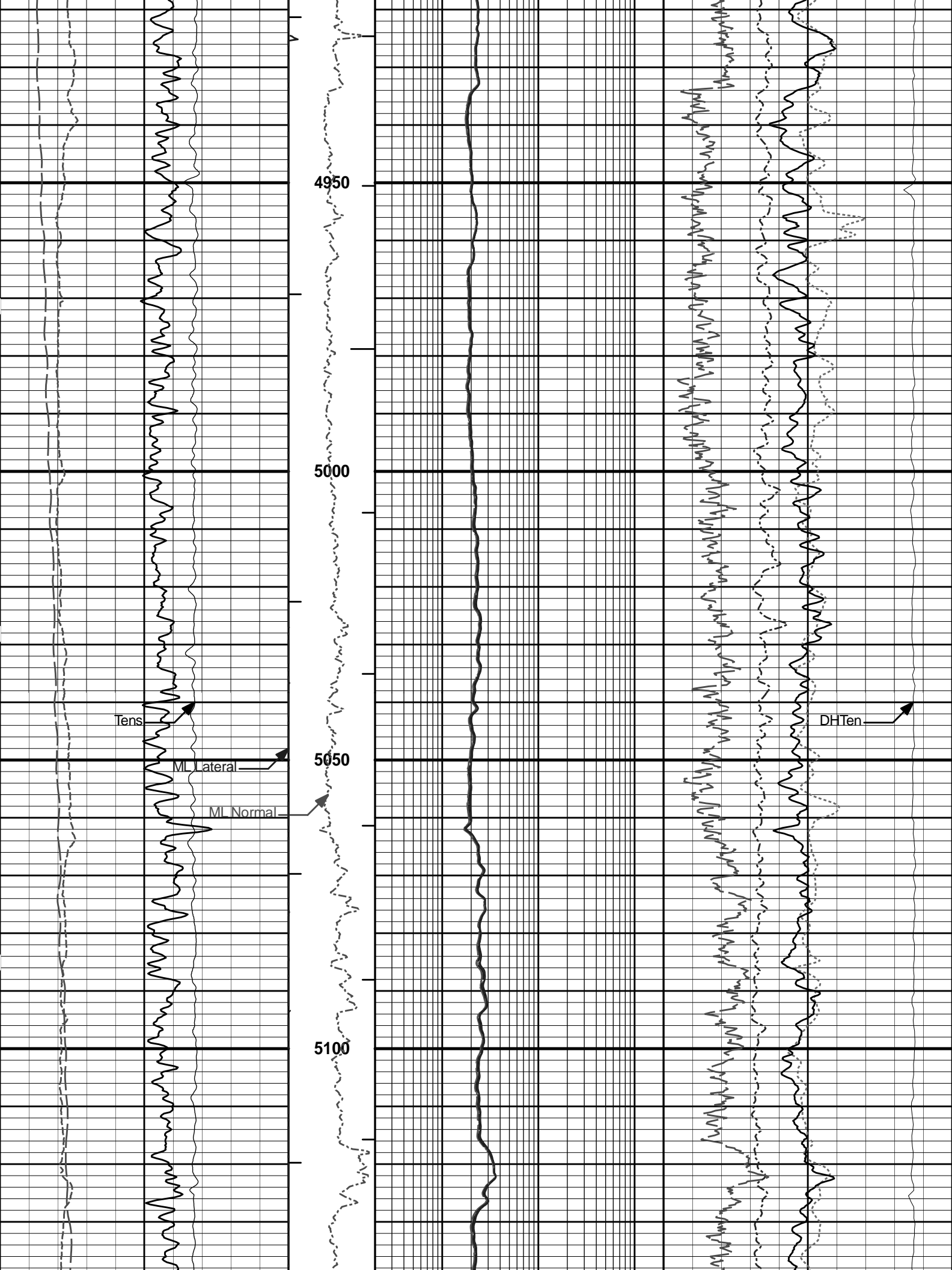


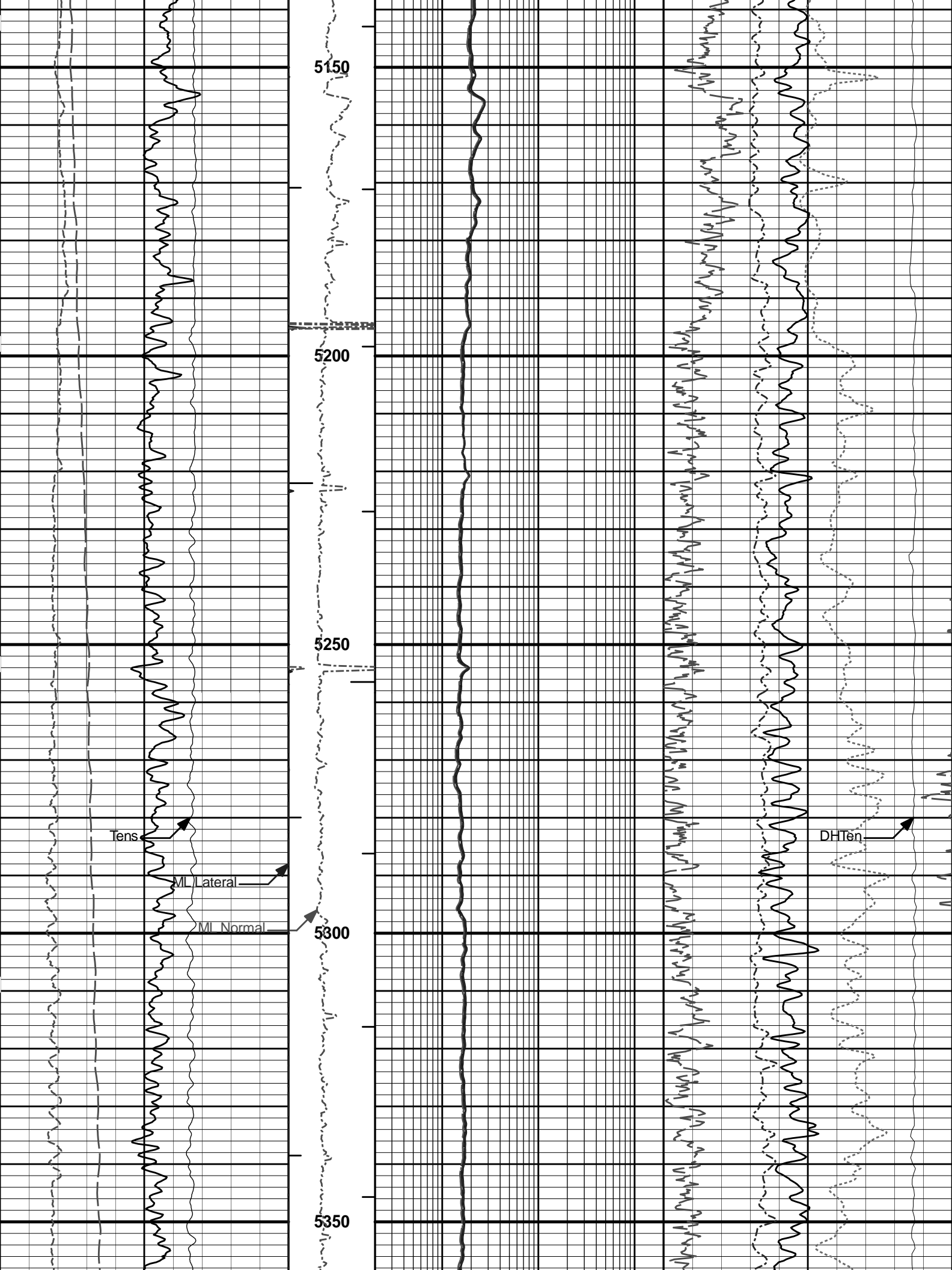


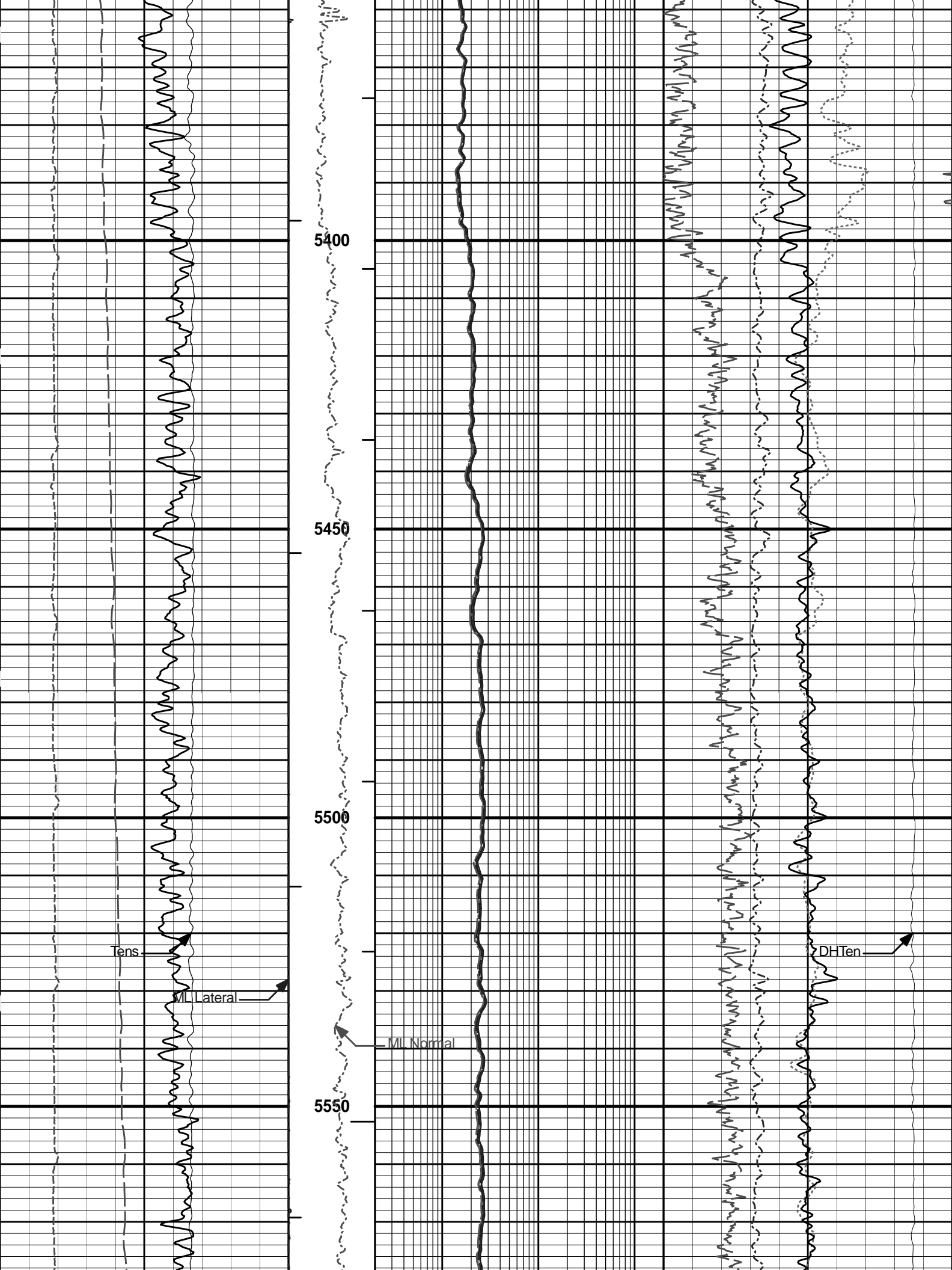






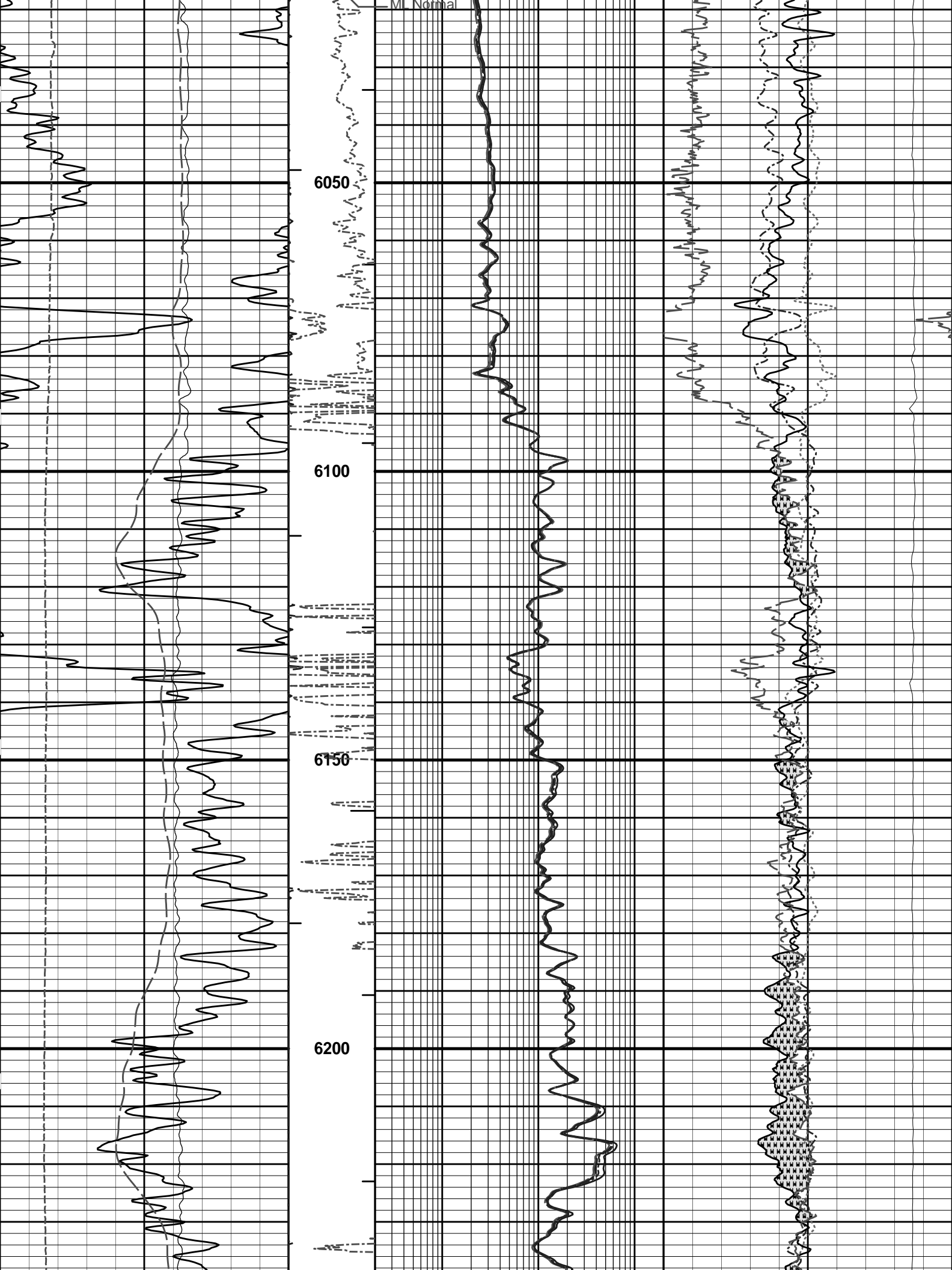


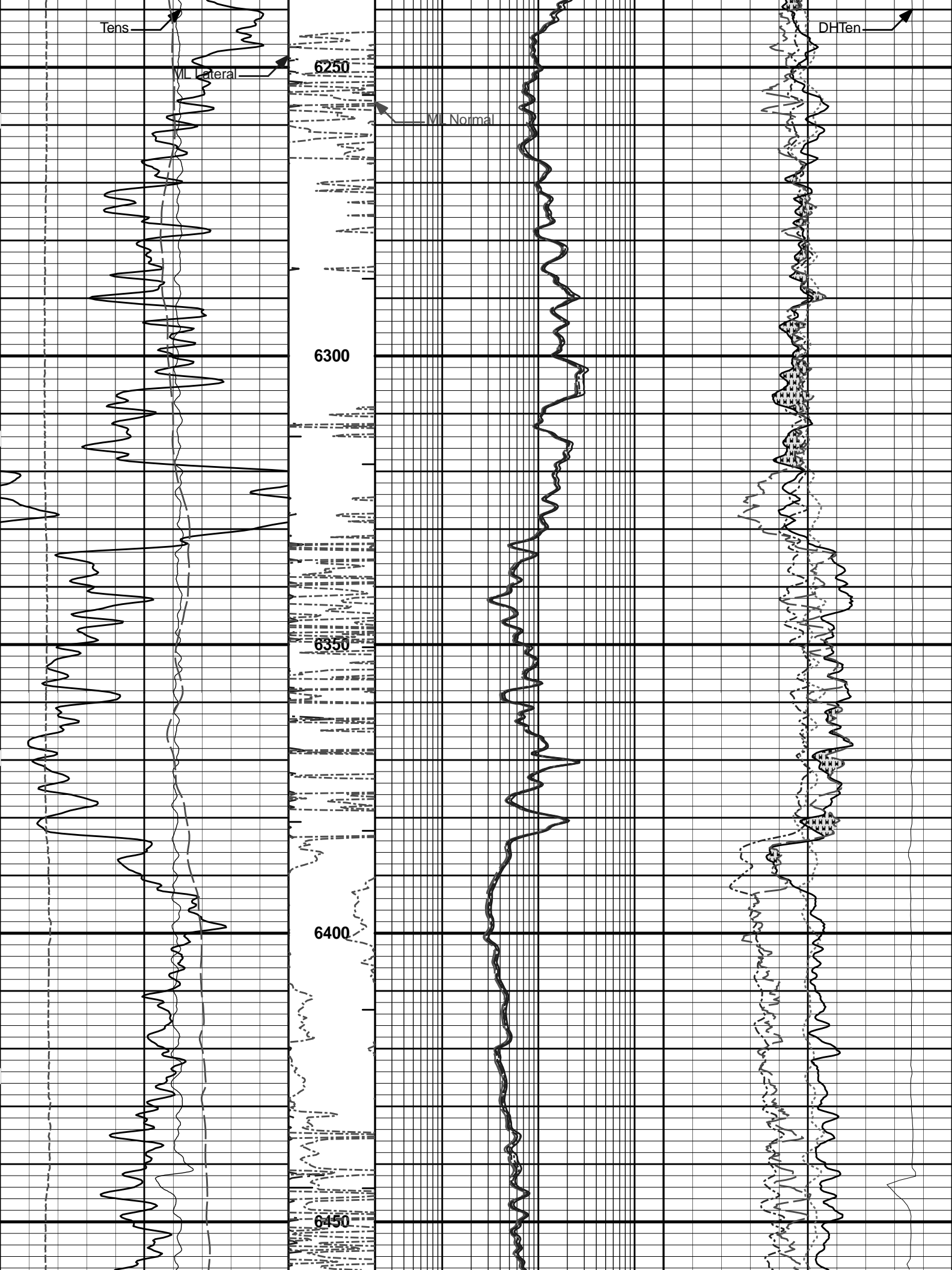


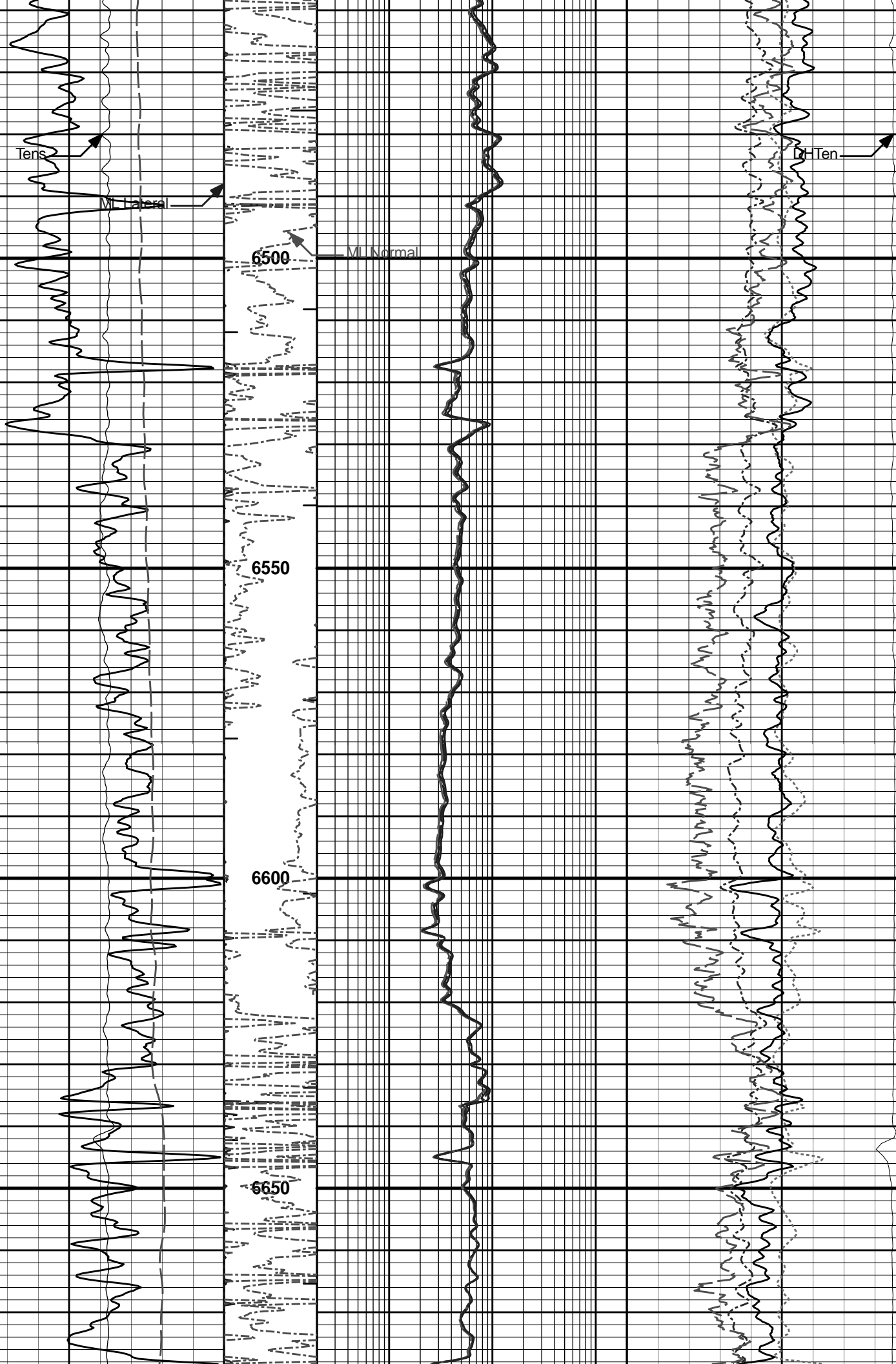


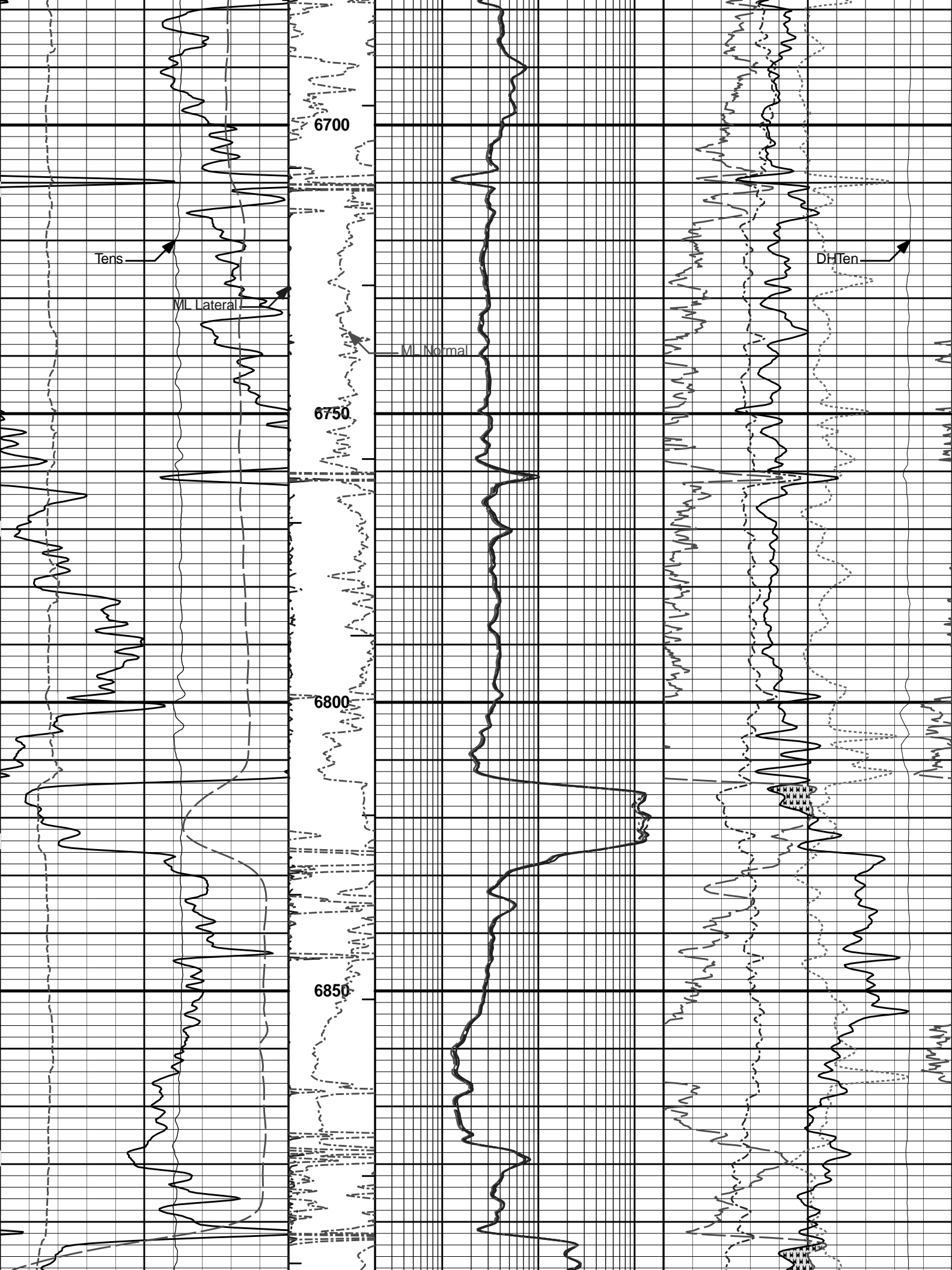


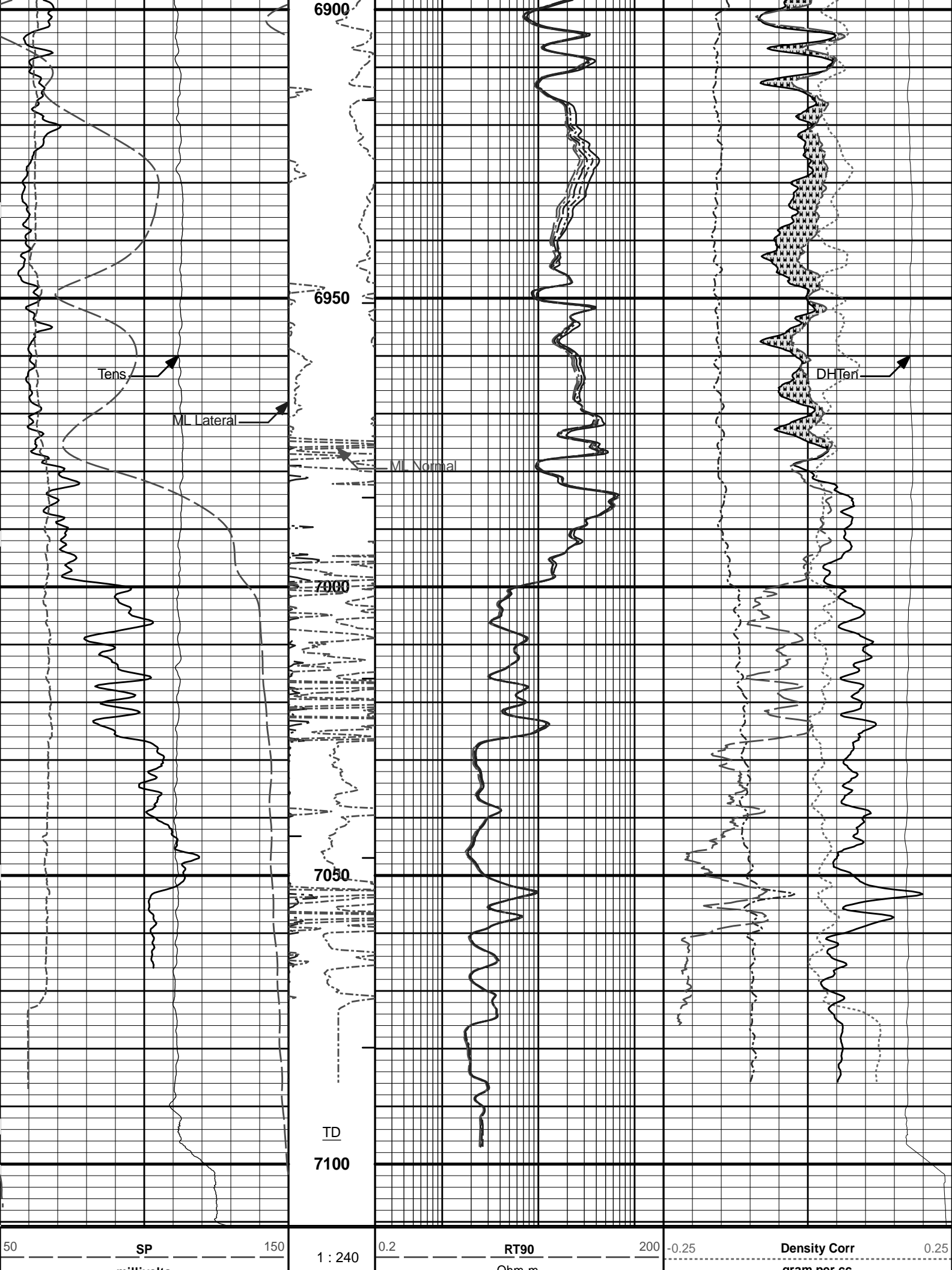












0	millivolts	200	BHVT	0.2	Ohm-m	200	0	gram per cc	10
	api				RT60			Pe	
6	Caliper	16	AHVT	0.2	Ohm-m	200	30	Density Porosity	-10
	inches				RT30			percent	
10K	Tens	0	ML Normal	0.2	Ohm-m	200	30	Neutron Porosity	-10
	pounds		ohm-metre		RT20			percent	
			ML Lateral	0.2	Ohm-m	200	10K	DHTen	0
			ohm-metre		RT10			pounds	

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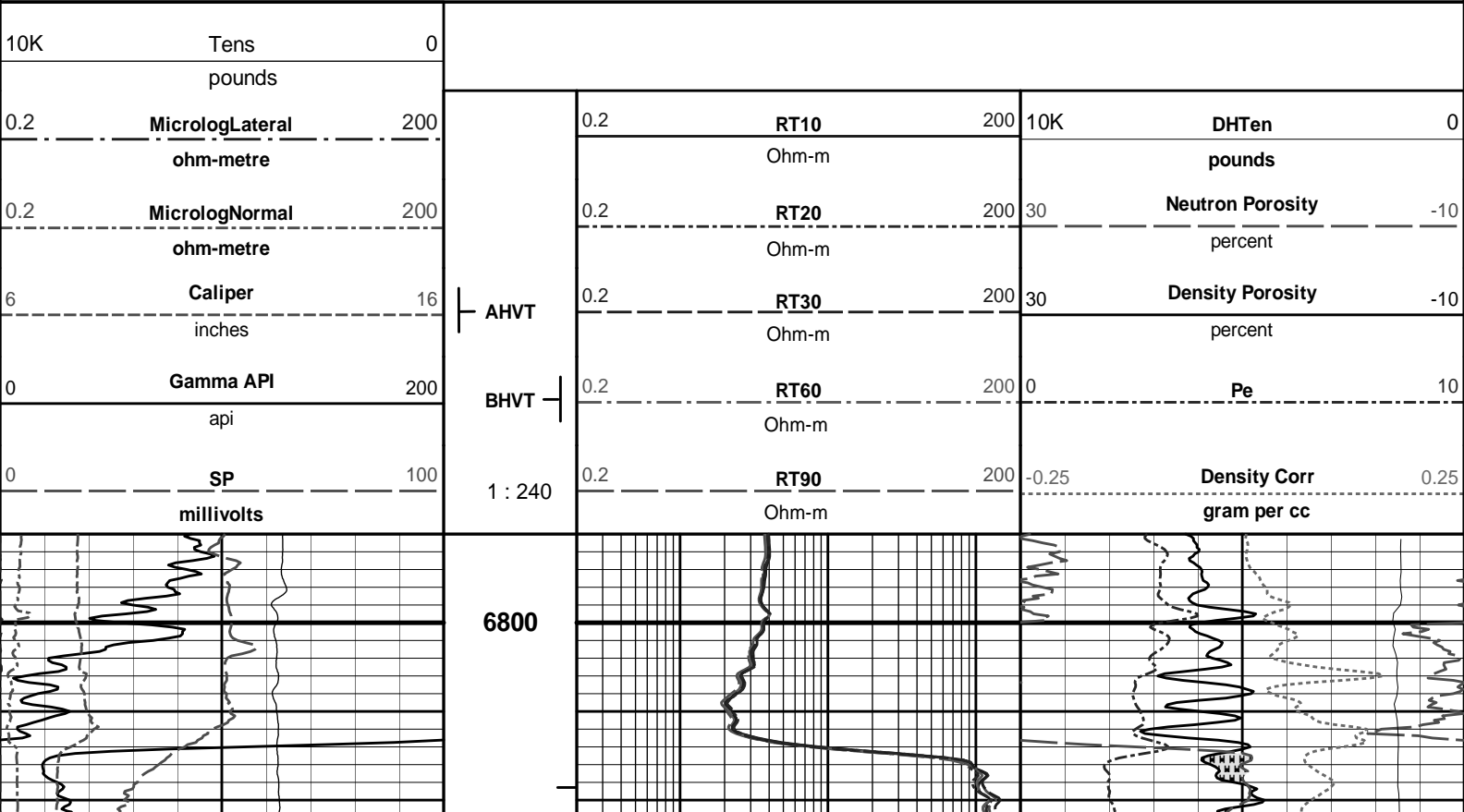
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Plot Range: 597 ft to 7110.69 ft
Data: GREEN 1-10\Well Based\MAIN*
Plot File: \\COMP\MAIN

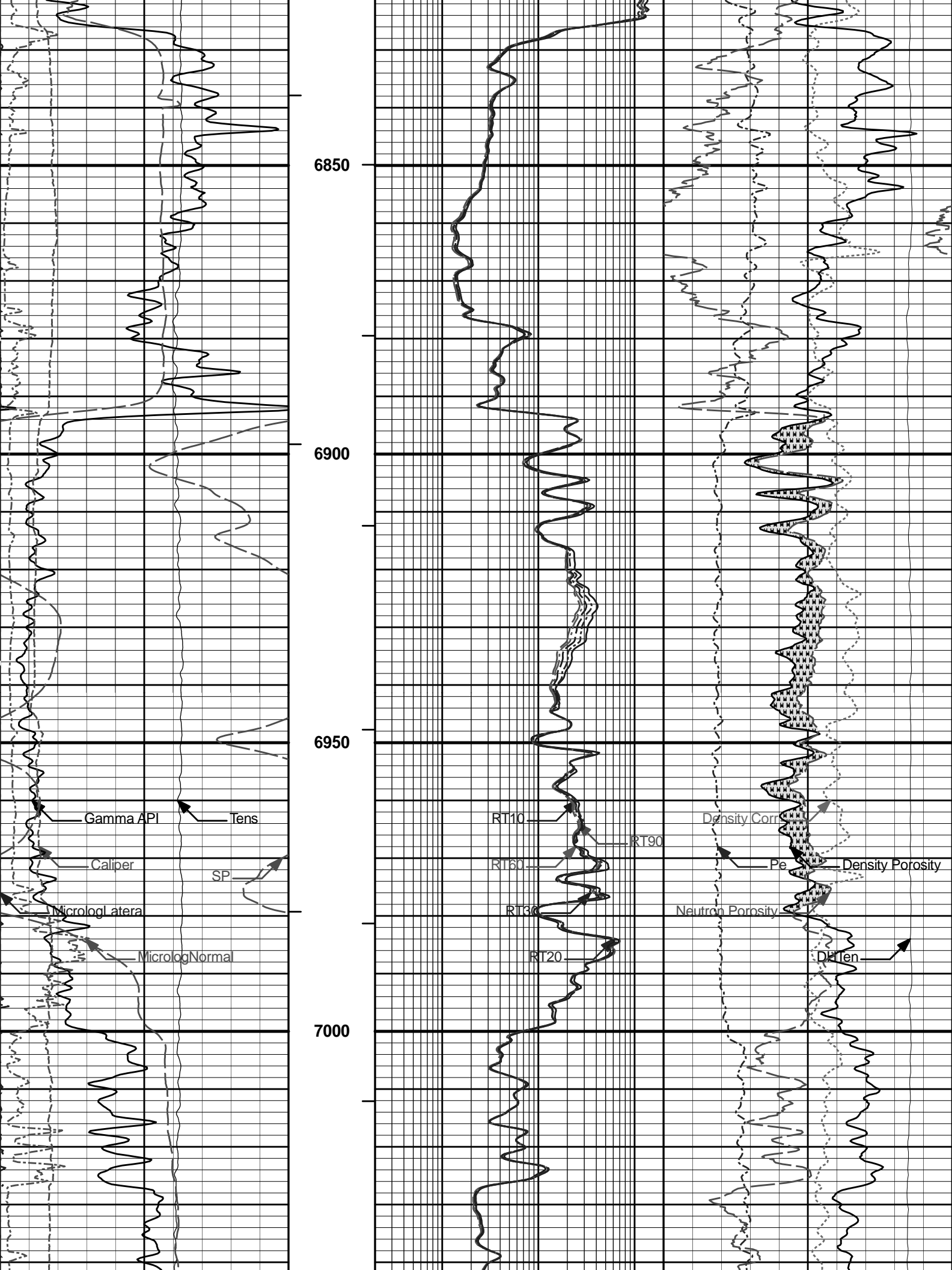
MAIN PASS 5" = 100'

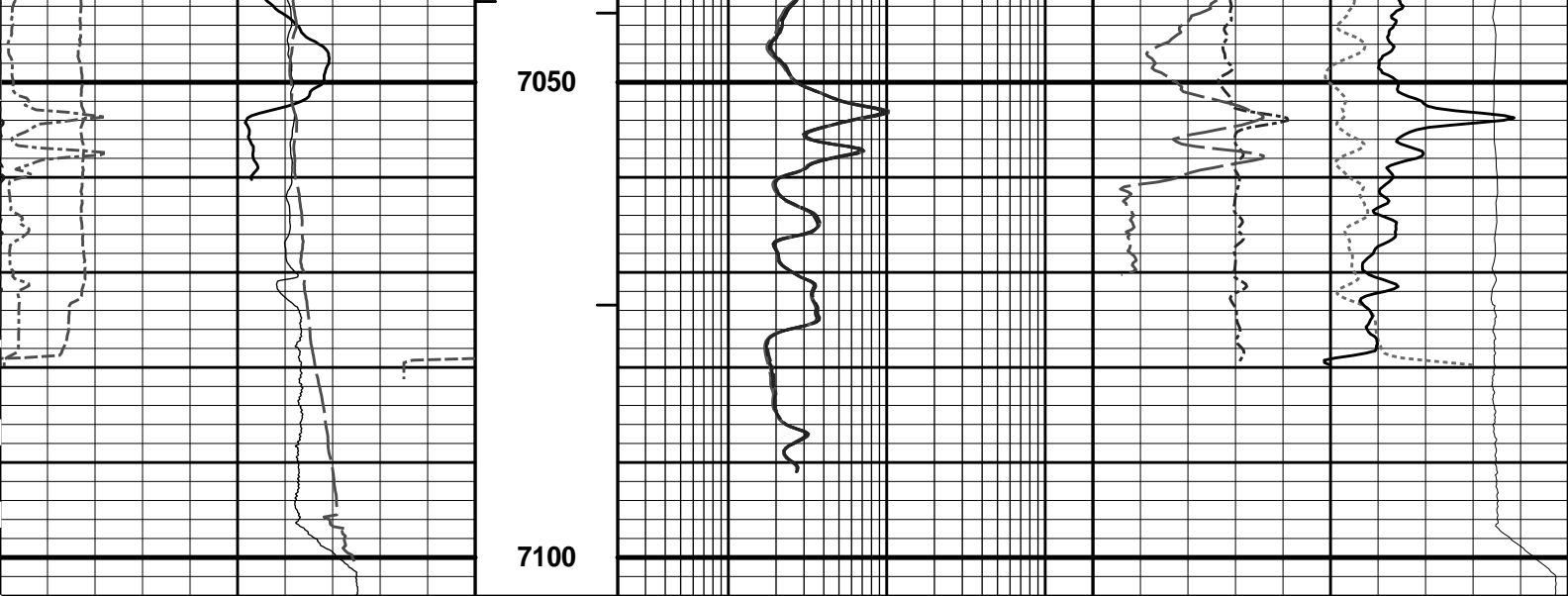
HALLIBURTON

Plot Time: 10-Jun-14 09:37:50
Plot Range: 6790 ft to 7104.08 ft
Data: GREEN 1-10\Well Based\REPEAT*
Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'







0	SP	100	1 : 240	0.2	RT90	200	-0.25	Density Corr	0.25
	millivolts				Ohm-m			gram per cc	
0	Gamma API	200	BHVT	0.2	RT60	200	0	Pe	10
	api				Ohm-m				
6	Caliper	16	AHVT	0.2	RT30	200	30	Density Porosity	-10
	inches				Ohm-m			percent	
0.2	MicrologNormal	200		0.2	RT20	200	30	Neutron Porosity	-10
	ohm-metre				Ohm-m			percent	
0.2	MicrologLateral	200		0.2	RT10	200	10K	DHTen	0
	ohm-metre				Ohm-m			pounds	
10K	Tens	0							
	pounds								

HALLIBURTON Plot Time: 10-Jun-14 09:37:53
Plot Range: 6790 ft to 7104.08 ft
Data: GREEN 1-10\Well Based\REPEAT\
Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11294346	Reference Calibration Date:	06-May-14 11:12:33
Engineer:	B. CRAWFORD	Calibration Date:	06-Jun-14 18:16:40
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-270
Calibrator API Reference:259.00 api
Equivalent Calibrator API Reference:263.5 api

Measurement	Measured	Calibrated	Units
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Background	45.2	45.1	api
Background + Calibrator	309.2	308.7	api
Calibrator	264.0	263.5	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11294346	Reference Calibration Date:	06-Jun-14 18:16:40
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 14:26:28
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-270
Calibrator API Reference:259.00 api
Equivalent Calibrator API Reference:263.5 api

Field Verification	Shop	Field	Units
Background	45.1	41.9	api
Background + Calibrator	308.7	297.6	api
Calibrator	263.5	255.7	api
Shop	Field	Difference	Tolerance
263.5	255.7	7.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10846353	Reference Calibration Date:	06-May-14 15:31:32
Engineer:	B. CRAWFORD	Calibration Date:	06-Jun-14 19:36:13
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1

Logging Source S/N: 08-018
Tank Serial Number: 105039
Reference value assigned to Tank: 49.230
Snow Block S/N: 11170614
Calibration Tank Water Temperature: 71 degF
Min. Tool Housing Outside Diameter: 3.615 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.946	0.944	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):	0.1972	0.1968	0.0005	+/- 0.0020
Calibrated Ratio:	9.26	9.24	0.016	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0738	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 - 10846353	Reference Calibration Date:	06-Jun-14 19:36:13
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 15:22:22

Logging Source S/N: 08-018
Snow Block S/N: 11170614

NEUTRON FIELD-CHECK SUMMARY			
	Shop	Field	Difference
Snow-Block Porosity (decp):	0.0738	0.0729	-0.0009
			Control Limit On Change +/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 12026169	Reference Calibration Date:	09-Jun-14 14:32:11
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 14:50:31
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 10846353		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2536.50	-2587.39	-7000.00 - -1000.00
Pad Gain	0.0003717	0.0003805	0.000200 - 0.000600
Arm Offset	-2112.27	-2093.29	-5000.00 - 3000.00
Arm Gain	0.0005958	0.0005737	0.000300 - 0.000700
Arm Power	-0.000009647	-0.000008231	-0.000010000 - 0.000010000

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)	1.97	2.00	0.03	+/- 0.20
Medium Ring (in)	3.68	3.75	0.07	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.58	6.50	-0.08	+/- 0.20
Medium Ring (in)	8.37	8.25	-0.12	+/- 0.20
Large Ring (in)	14.99	15.00	0.01	+/- 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 - 12026169	Reference Calibration Date:	09-Jun-14 14:50:31
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 14:52:11
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1

MEASURED CALIPER VALUES			
Measurement	Shop	Field	Change
			Control Limit On New Value

	New Value			
Pad Extension	3.75	3.75	0.00	+/- 0.10
Ring Diameter	8.25	8.22	-0.03	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION				
Tool Name:	SDLT Pad - 11045462	Reference Calibration Date:	06-May-14 11:12:13	
Engineer:	B. CRAWFORD	Calibration Date:	06-Jun-14 18:37:22	
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1	

Logging Source S/N: 5235GW		
Aluminum Block S/N: ROCK SPRINGS	Density: 2.602g/cc	Pe: 3.110
Magnesium Block S/N: ROCK SPRINGS	Density: 1.690g/cc	Pe: 2.610

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0460	1.0402	0.90 - 1.10
Near Dens Gain	1.0096	1.0044	0.90 - 1.10
Near Peak Gain	1.0262	1.0017	0.90 - 1.10
Near Lith Gain	1.0057	0.9892	0.90 - 1.10
Far Bar Gain	1.0165	1.0144	0.90 - 1.10
Far Dens Gain	1.0028	1.0010	0.90 - 1.10
Far Peak Gain	0.9951	0.9926	0.90 - 1.10
Far Lith Gain	0.9739	0.9725	0.90 - 1.10
Near Bar Offset	-0.3402	-0.2854	NONE
Near Dens Offset	-0.0214	0.0281	NONE
Near Peak Offset	-0.1834	0.0250	NONE
Near Lith Offset	-0.0322	0.1077	NONE
Far Bar Offset	-0.1620	-0.1471	NONE
Far Dens Offset	-0.0109	0.0011	NONE
Far Peak Offset	0.0661	0.0839	NONE
Far Lith Offset	0.2081	0.2090	NONE
Near Bar Background	875.39	877.01	700 - 1450
Near Dens Background	289.73	287.77	230 - 480
Near Peak Background	125.39	125.20	100 - 210
Near Lith Background	153.72	152.17	125 - 260
Far Bar Background	483.68	484.55	450 - 900
Far Dens Background	191.19	190.91	175 - 345
Far Peak Background	75.08	74.55	70 - 140
Far Lith Background	78.51	77.85	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.686	1.690	0.004	+/- 0.015
Pe	2.555	2.570	0.015	+/- 0.150
ALUMINUM				
Density (g/cc)	2.597	2.602	0.005	+/- 0.01500
Pe	3.076	3.075	-0.001	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0008	+/- 0.0110	-0.0000	+/- 0.0140
Magnesium Block	-0.0001	+/- 0.0110	0.0010	+/- 0.0140
Aluminum Block	0.0003	+/- 0.0110	-0.0009	+/- 0.0140
Resolution	8.83	6.00 - 11.50	9.40	6.00 - 11.50
Internal Verifier(B+D+P+L)	1442	1200 - 2700	828	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 Pad - 11045462	Reference Calibration Date:	06-Jun-14 18:37:22
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 14:26:49
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1

Pad Temperature: 89.3 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1442.158	1441.637	-0.521	15.322
Far (B+D+P+L) cps	827.864	826.096	-1.768	15.851
Near Resolution	8.83	8.87	0.040	0.50
Far Resolution	9.40	9.55	0.150	1.00

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

MICRO LOG SHOP CALIBRATION

Tool Name:	Microlog Pad - 12026169	Reference Calibration Date:	09-Jun-14 14:59:02
Engineer:	B. CRAWFORD	Calibration Date:	09-Jun-14 15:00:32
Software Version:	WL INSITE R4.2.1 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 10846353		

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.10	-0.11	0.00	0.00	ohmm
Calibration Point #1	0.01	0.00	-0.00	0.00	ohmm
Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	10.00	10.00	10.00	10.00	ohmm

Internal Reference		19.90	19.90	19.99	19.98	onmm
Measurement		Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero		-4.14		3.62		V
Calibration Point #1		24.73		2.88		V
Calibration Point #2		5337.02		6898.02		V
Internal Reference		5309.51		6892.63		V

MICRO LOG FIELD CHECK					
Tool Name:		Microlog Pad - 12026169		Reference Calibration Date: 09-Jun-14 15:00:32	
Engineer:		B. CRAWFORD		Calibration Date: 09-Jun-14 15:01:10	
Software Version:		WL INSITE R4.2.1 (Build 5)		Calibration Version: 1	

	Measurement		Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field		
	Tool Zero		-0.11	-0.11	0.00	0.00	ohmm
	Internal Reference		19.90	19.90	19.98	19.99	ohmm
	Summary						
	Signal	Shop	Field	Difference	Tolerance		
	Microlog Normal	19.90	19.90	0.00	+/- 0.80		
	Microlog Lateral	19.98	19.99	-0.01	+/- 0.80		

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION					
Tool Name:		ACRt Sonde - 10988481		Reference Calibration Date: 28-May-14 17:30:06	
Engineer:		B. CRAWFORD		Calibration Date: 28-May-14 17:45:38	
Software Version:		WL INSITE R4.2.1 (Build 5)		Calibration Version: 1	
Host Tool Name:		ACRt Instrument - 10996988			

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0053	1.05	0.95	1.0090	1.05	0.95	1.0103	1.05
A2 (50")	0.95	1.0052	1.05	0.95	1.0091	1.05	0.95	1.0079	1.05
A3 (29")	0.95	0.9961	1.05	0.95	1.0002	1.05	0.95	1.0019	1.05
A4 (17")	0.95	1.0018	1.05	0.95	1.0039	1.05	0.95	1.0077	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9973	1.05	0.95	0.9986	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9873	1.05	0.95	0.9902	1.05

SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-1.267			-4.382			-4.419		
A2 (50")	-2.549			-4.117			-4.166		
A3 (29")	-14.263			-5.053			-2.848		
A4 (17")	-96.379			-29.987			-24.189		
A5 (10")	N/A			-103.453			-50.986		
A6 (6")	N/A			303.431			148.383		

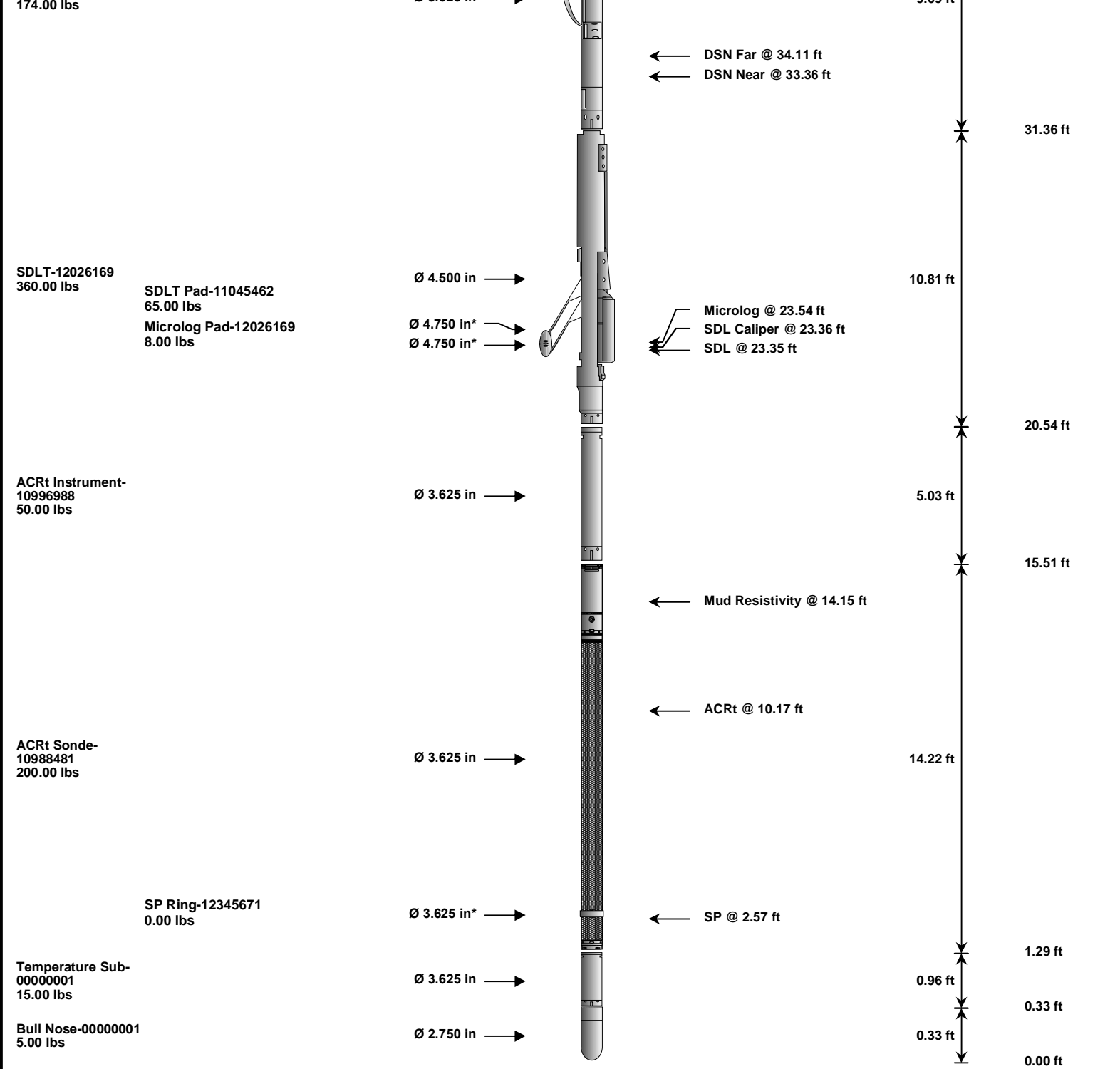
TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.82	1.3	Mud Cell	0.95	1.00	1.05

36K	1.0	1.23	2.0
72K	1.0	1.43	2.0
<div>PASS/FAIL SUMMARY</div> <div>GAIN RANGE CHKPASS</div> <div>SONDE OFFSET CHKPASS</div> <div>TOOL OK TO LOG</div>			

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11294346						
Gamma Ray Calibrator	263.5	255.7	-----	7.8	+/- 9.00	api
DSNT-10846353						
Snow-Block Porosity	0.0738	0.0729	-----	0.0009	+/- 0.0150	decp
SDLT-12026169						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.22	-----	0.03	+/-0.15	in
SDLT Pad-11045462						
Near(B+D+P+L)	1442.158	1441.637	-----	0.521	+/-15.322	cps
Far(B+D+P+L)	827.864	826.096	-----	1.768	+/-15.851	cps
Microlog Pad-12026169						
MicroLog Normal	19.90	19.90	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	19.98	19.99	-----	-0.01	+/-0.80	ohmm
ACRt Sonde-10988481						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: GREEN 1-10\0001 TRIPLE\IDLE				Date: 10-Jun-14 05:56:10		

HALLIBURTON
TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11830878 135.00 lbs		Ø 3.625 in →		← Load Cell @ 52.13 ft ← BH Temperature @ 51.56 ft	6.25 ft	55.81 ft
						49.56 ft
GTET-11294346 165.00 lbs		Ø 3.625 in →		← GammaRay @ 43.50 ft	8.52 ft	
						41.04 ft
DSN Decentralizer-10846353 6.60 lbs		Ø 5.000 in* →				
DSNT-10846353		Ø 3.625 in →			9.69 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	11830878	135.00	6.25	49.56	300.00
GTET	Gamma Telemetry Tool	11294346	165.00	8.52	41.04	60.00
DSNT	Dual Spaced Neutron	10846353	174.00	9.69	31.36	60.00
DCNT	DSN Decentralizer	10846353	6.60	5.13	* 34.69	300.00
SDLT	Spectral Density Tool	12026169	360.00	10.81	20.54	60.00
SDLP	Density Insite Pad	11045462	65.00	2.55	* 22.75	60.00
MICP	Microlog Pad	12026169	8.00	1.00	* 23.04	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10996988	50.00	5.03	15.51	120.00
ACRt	Array Compensated True Resistivity Sonde Section	10988481	200.00	14.22	1.29	120.00
SP	SP Ring	12345671	0.00	0.25	* 2.57	300.00
TMAX	Temperature Sub - 3_625 OD	00000001	15.00	0.96	0.33	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00

Total			1,183.60	55.81		
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* Not included in Total Length and Length Accumulation.

COMPANY	FOUNDATION ENERGY		
WELL	GREEN 1-10		
FIELD	WILDCAT		
COUNTY	WELD	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY	