

HALLIBURTON

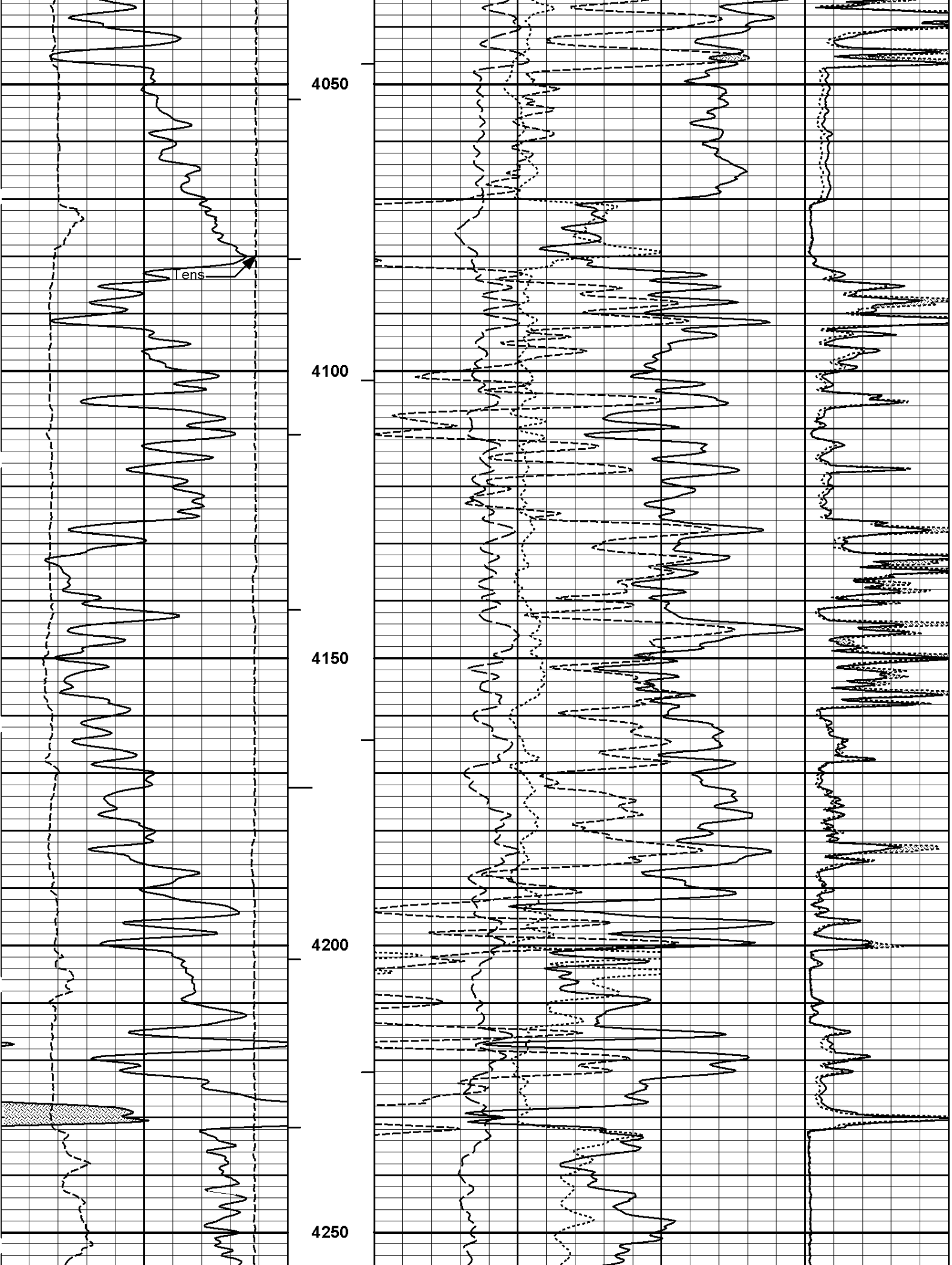
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

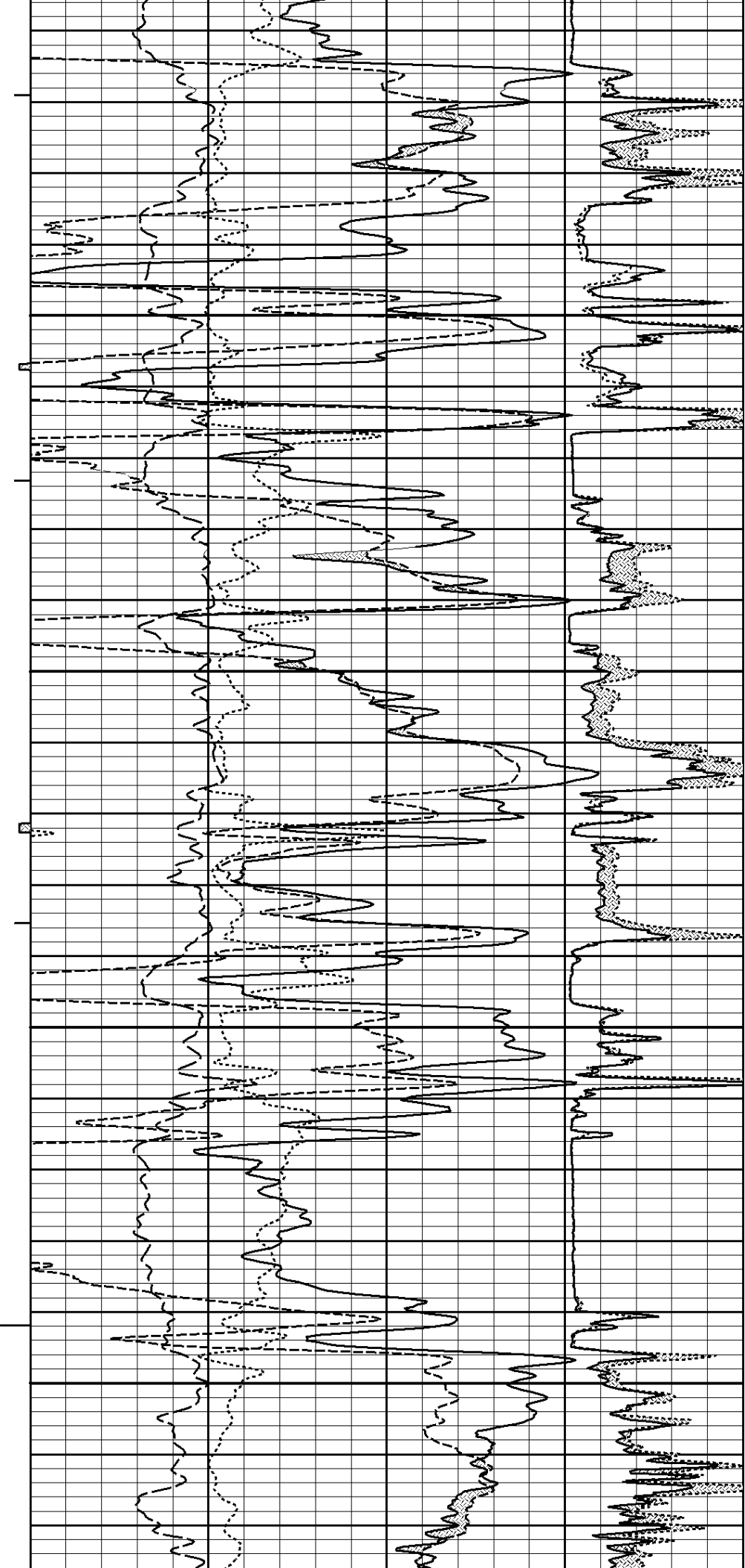
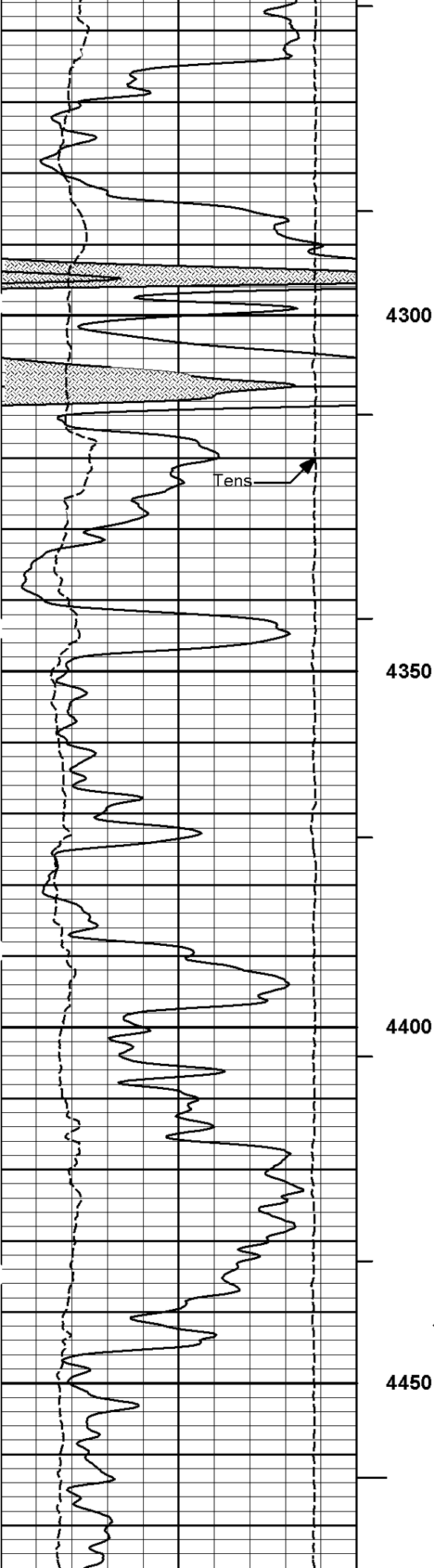
RAYDON EXPLORATION INC.				COMPANY				RAYDON EXPLORATION INC.			
PARITY 1-27				WELL				PARITY 1-27			
WILDCAT				FIELD/BLOCK				WILDCAT			
SEWARD				COUNTY				SEWARD			
KANSAS				STATE				STATE KANSAS			
AP/ No. 15-175-22249-00-00				Location (SHL) E2 SW SW/ 660' FSL & 990' FWL				Other Services: SDLT DSNT MICROLOG BSAT ACRT			
Permanent Datum GL				Sect. 27 Twp. 33S Rge. 31W				Elev. 2727.0 ft			
Log measured from KB								Elev. 2737.0 ft			
Drilling measured from KB								Elev. 2727.0 ft			
Date 18-Oct-16											
Run No. ONE											
Depth - Driller 6293.0 ft											
Depth - Logger 6293.0 ft											
Bottom - Logged Interval 6293.00 ft											
Top - Logged Interval 4000.00 ft											
Casing - Driller 8.625 in @ 1675.0 ft											
Casing - Logger 1668.0 ft											
Bit Size 7.875 in											
Type Fluid in Hole Water Based Mud											
Density 8.8 ppg				Viscosity 58.00 s/qt							
PH 10.00 pH				Fluid Loss 5.2 cphm							
Source of Sample FLOWLINE											
Rm @ Meas. Temperature 1.29 ohmm @ 80.00 degF											
Rmf @ Meas. Temperature 1.09 ohmm @ 60.00 degF											
Rmc @ Meas. Temperature 1.61 ohmm @ 60.00 degF											
Source Rmf Rmc MEAS											
Rm @ BHT 0.86 ohmm @ 123.0 degF											
Time Since Circulation 8.0 hrs hr											
Time on Bottom 18-Oct-16 17:16											
Max. Rec. Temperature 123.00 degF @ 6293.0 ft											
Equipment Location 12156883 EL RENO, OK											
Recorded By COTHREN											
Witnessed By EDWIN GRIEVES											

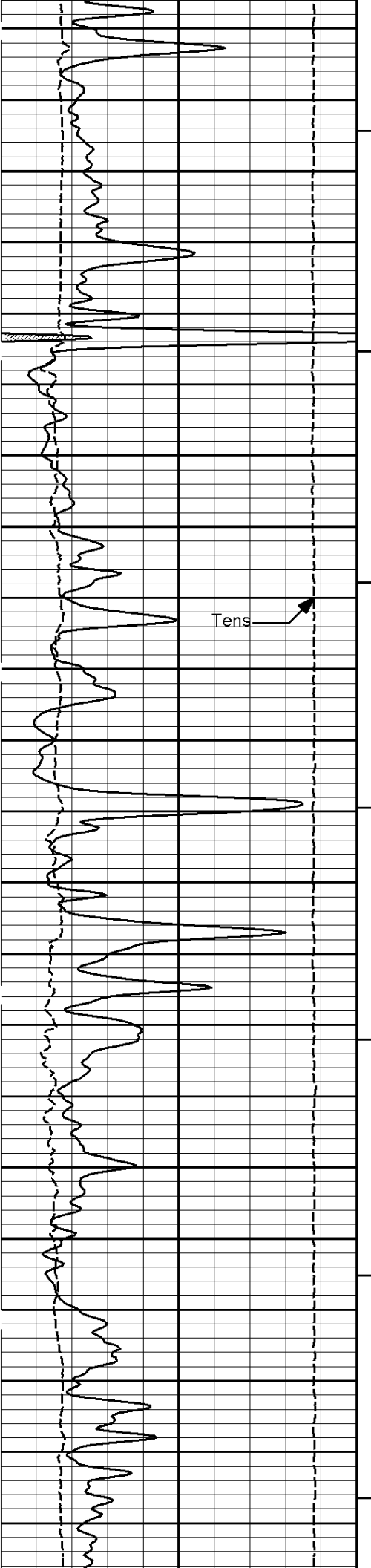
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Service Ticket No.: 903584926				API No.: 15-175-22249-00-00				PGM Version: WL INSITE R5.0.5 (Build 8)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES											
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down 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 156	N/A	1.5" STANDOFF	N/A							
Rmc @ Meas. Temp.	@		@												
Source Rmf	Rmc														
Rm @ BHT	@		@												
Rmf @ BHT	@		@												
Rmc @ BHT	@		@												
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.	ONE		Run No.	ONE	Run No.	ONE	Run No.	ONE							
Serial No.	11021139		Serial No.	10939049	Serial No.	10951315	Serial No.	11020487							
Model No.	GTET		Model No.	BSAT	Model No.	SDLT	Model No.	DSNT							
Diameter	3.625"		No. of Cent.	2	Diameter	4.5"	Diameter	3.625"							
Detector Model No.	A-102		Spacing	4	Log Type	GAM-GAM	Log Type	NEU-NEU							
Type	SCINT.				Source Type	Cs 137	Source Type	AM241Be							
Length	8"		LSA [Y/N]	N	Serial No.	5155GW	Serial No.	DSN 436							
Distance to Source	10'		FWDA [Y/N]	N	Strength	1.5 Ci	Strength	15 Ci							

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	TD	4000	REC	0	150	30	-10	47.5	30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks: THANKS FOR USING HALLIBURTON LOGGING SERVICES.														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
CHLORIDES REPORTED AT 1700 mg/L														







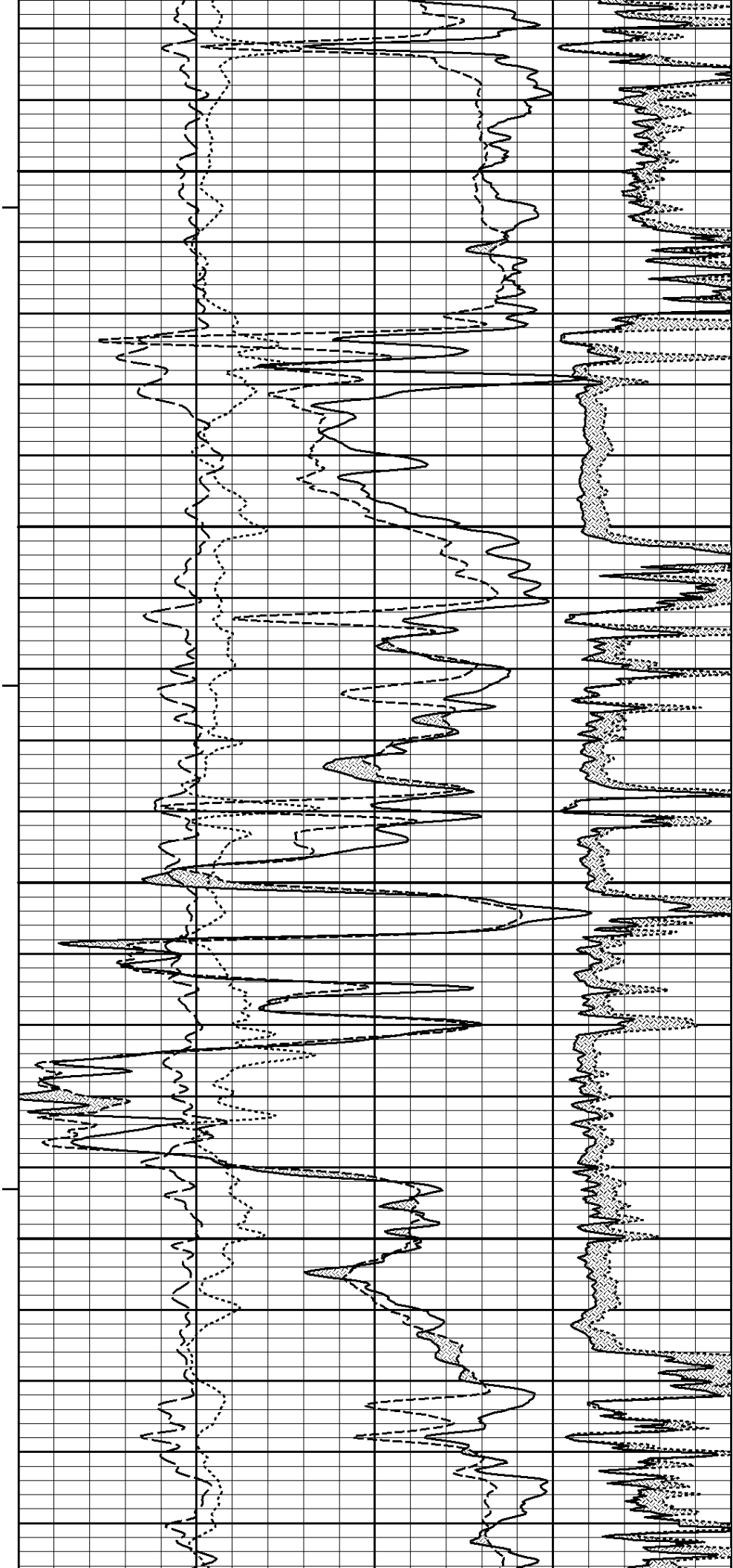
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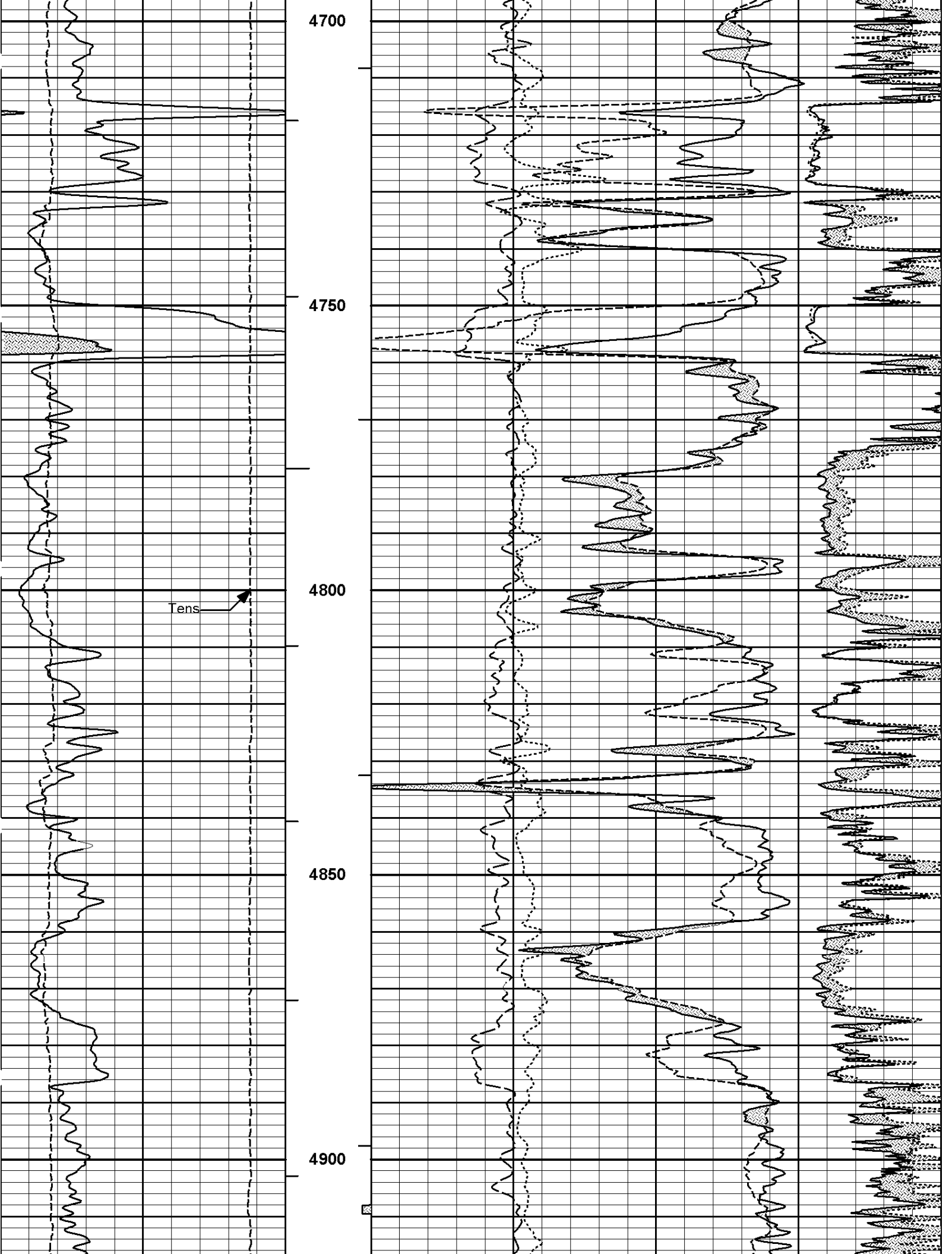
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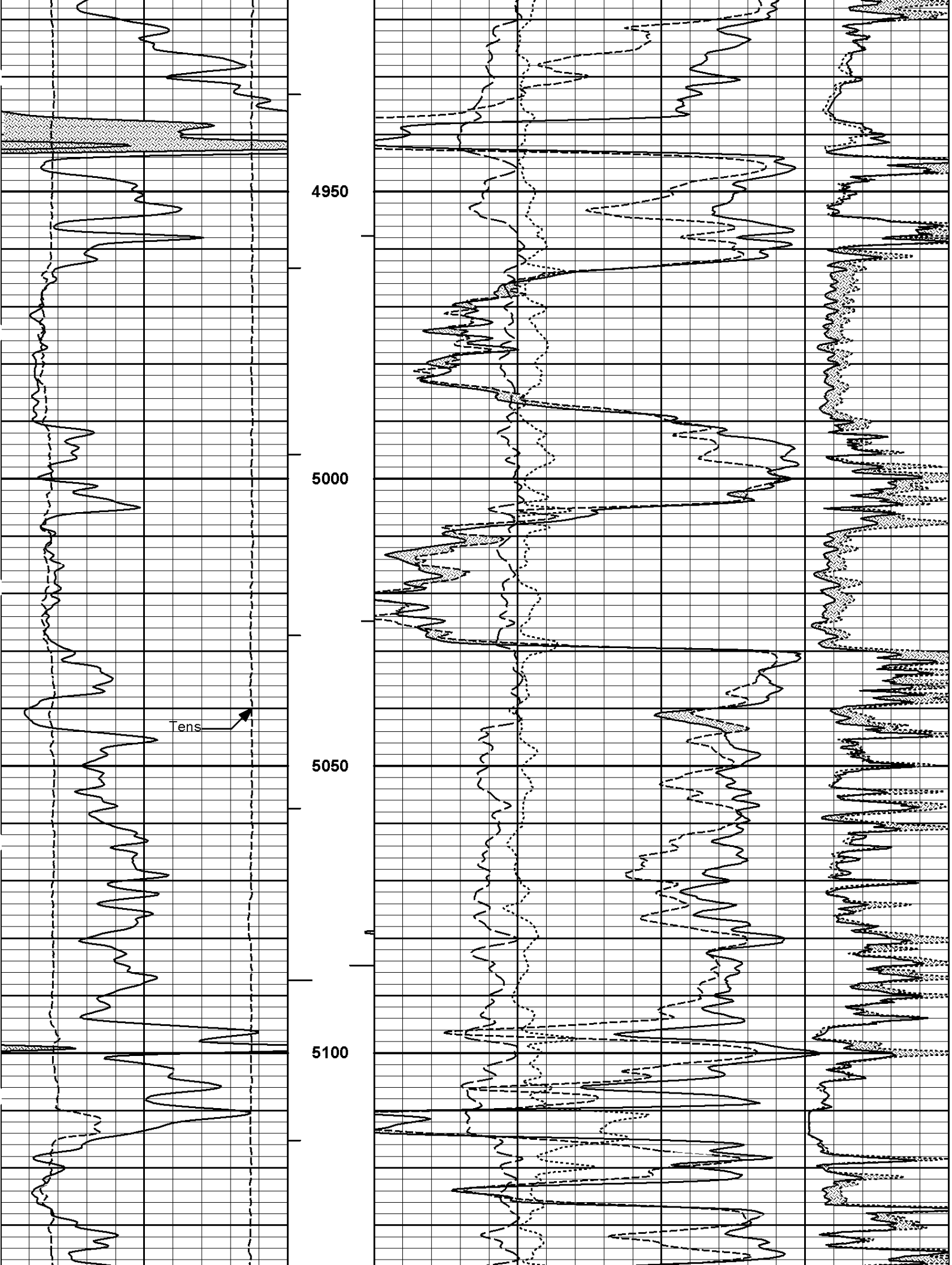
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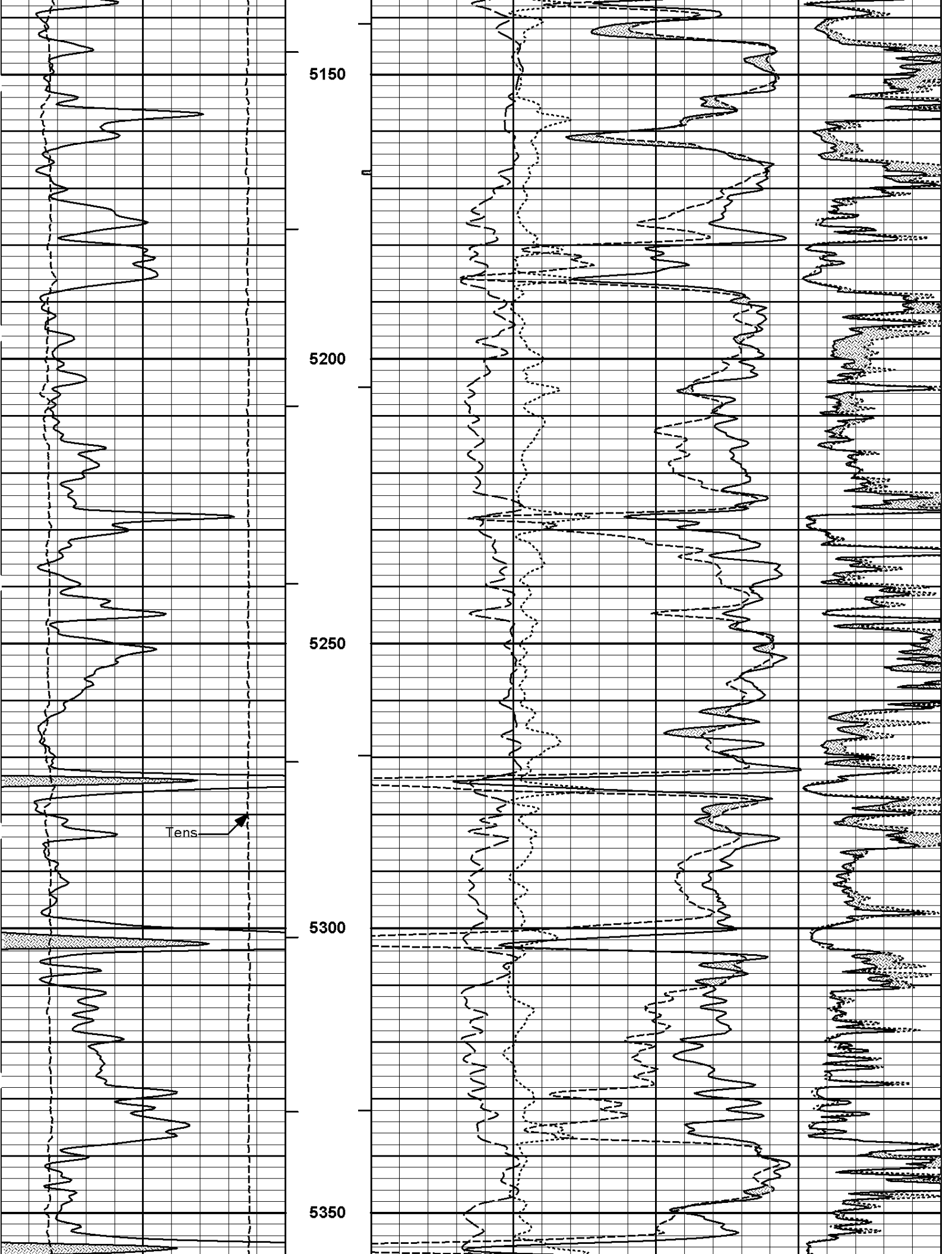
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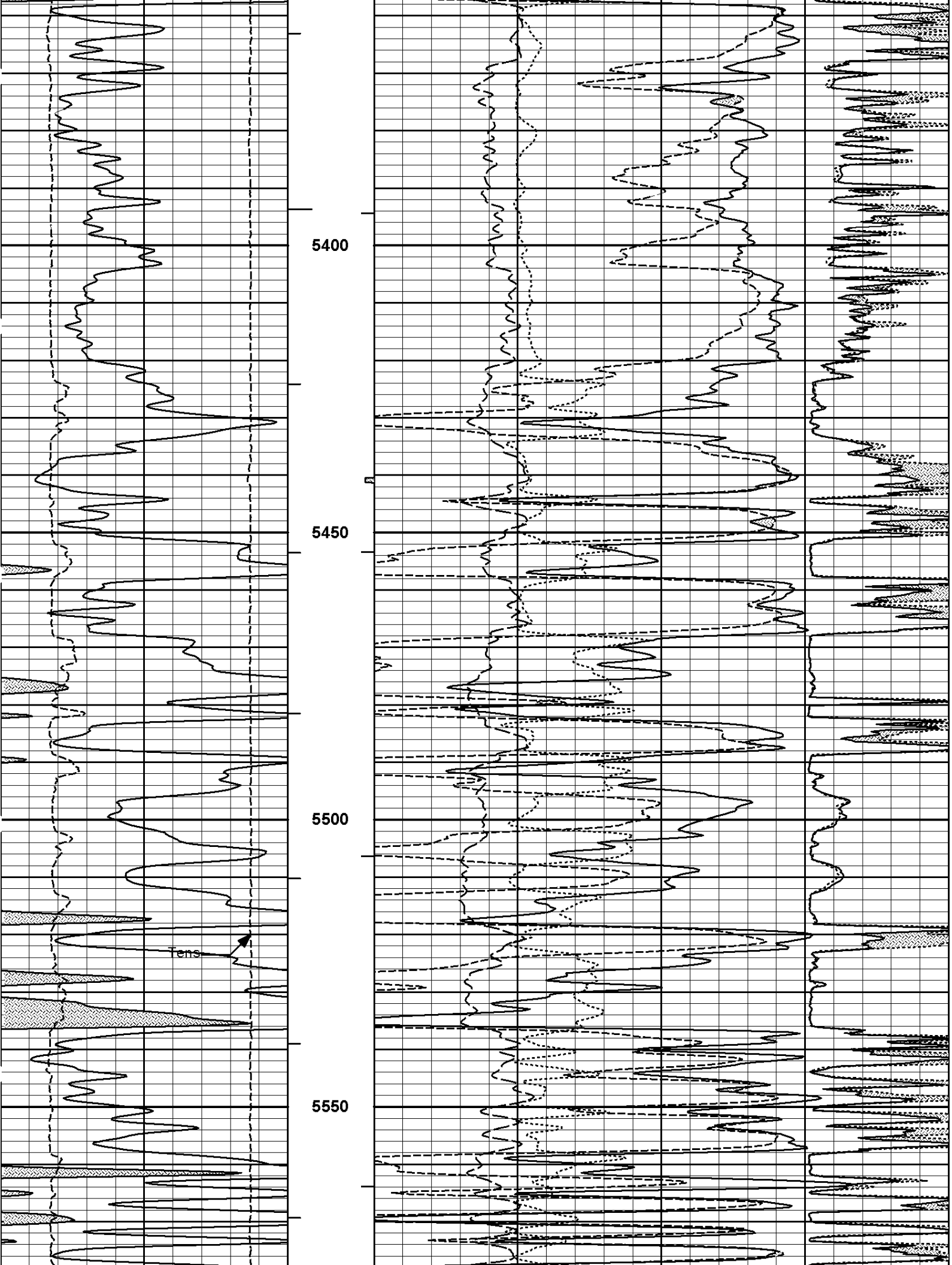
Tens

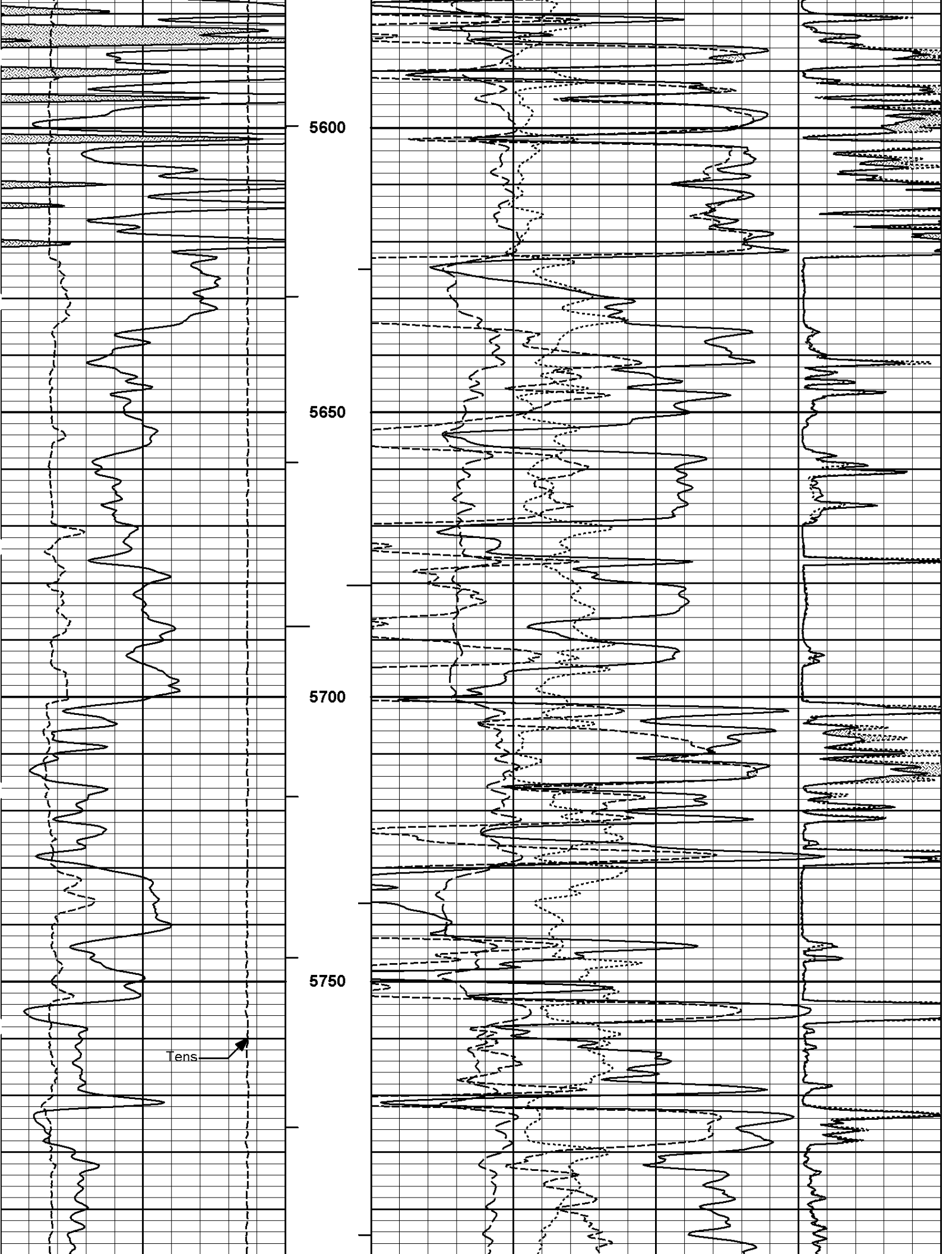


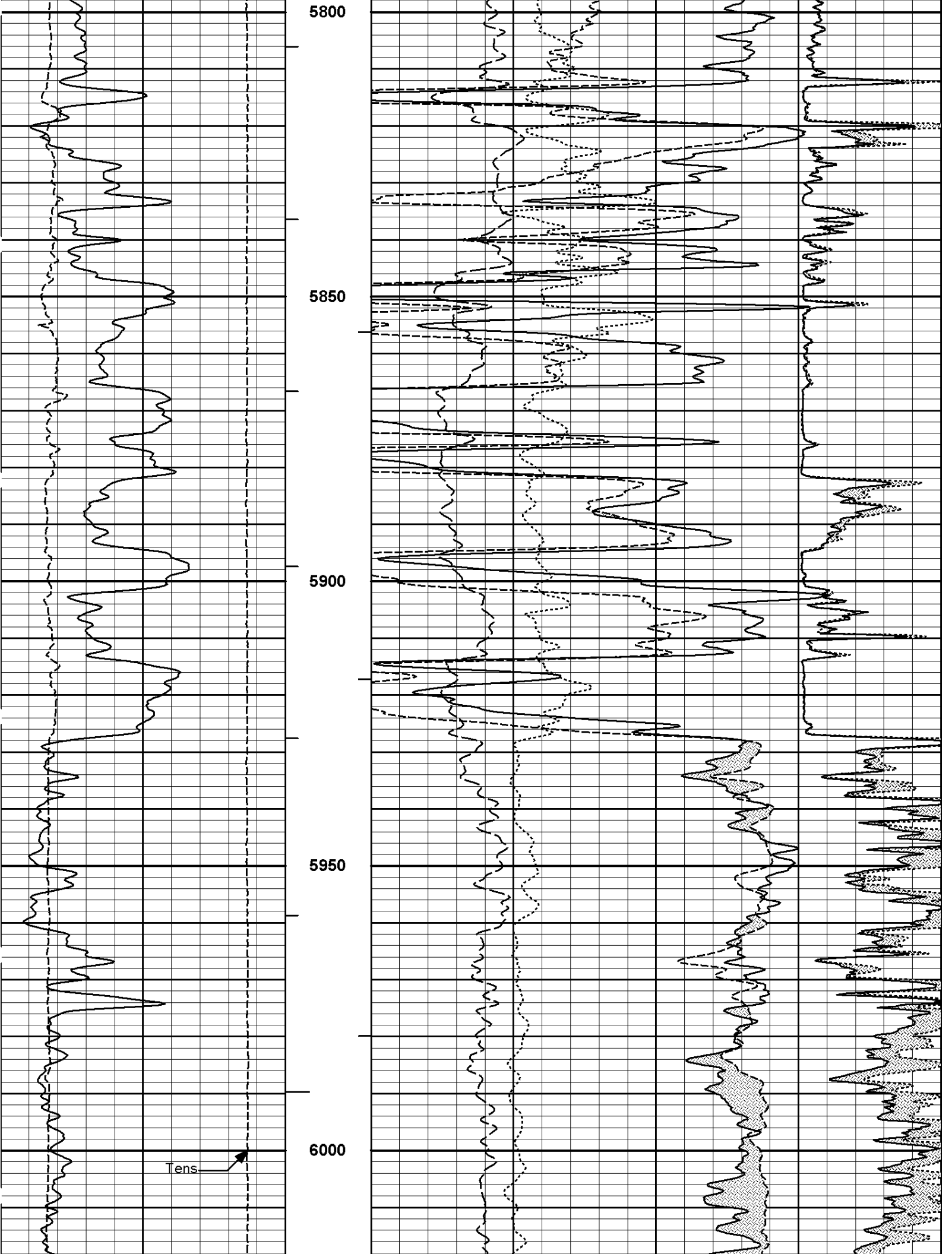


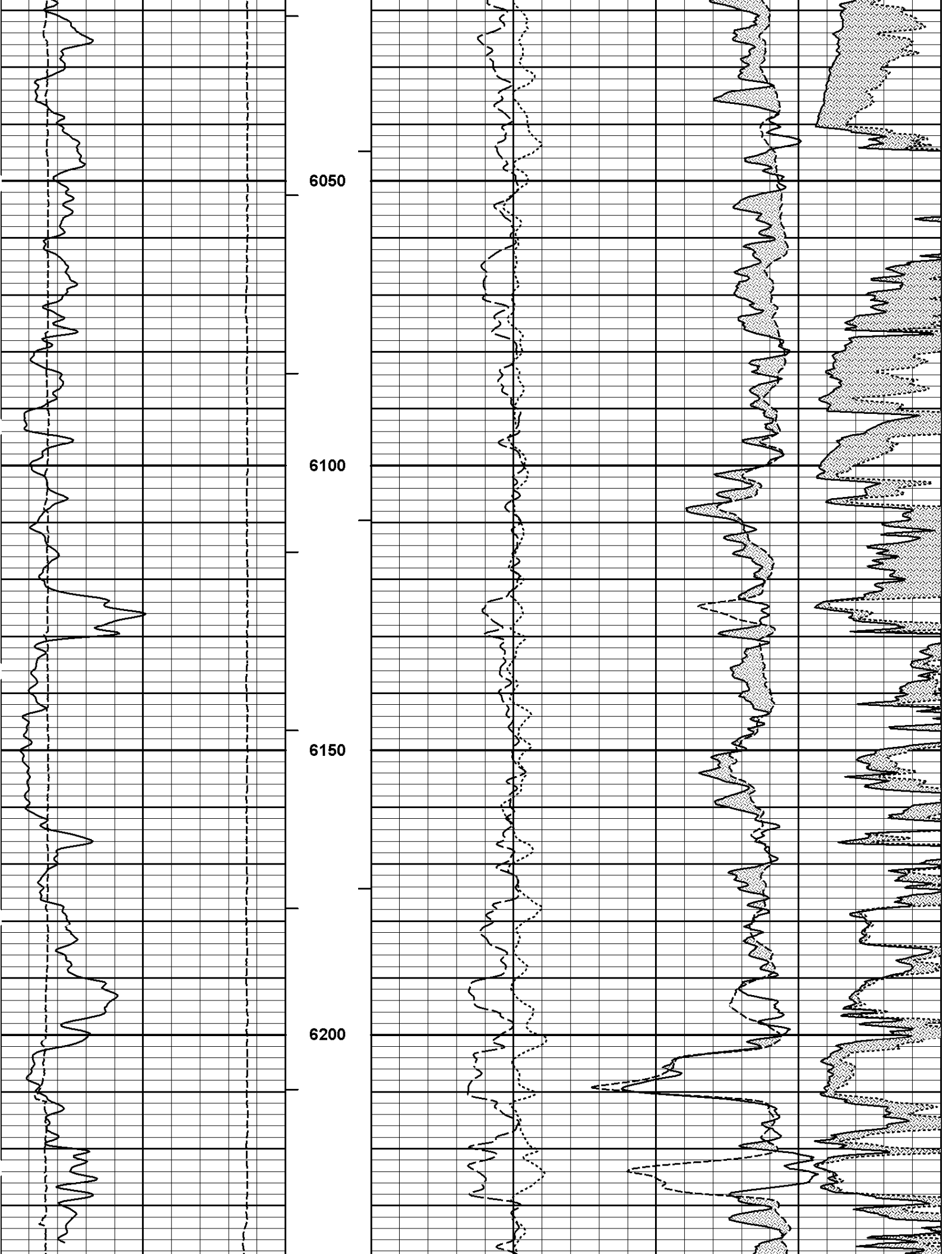


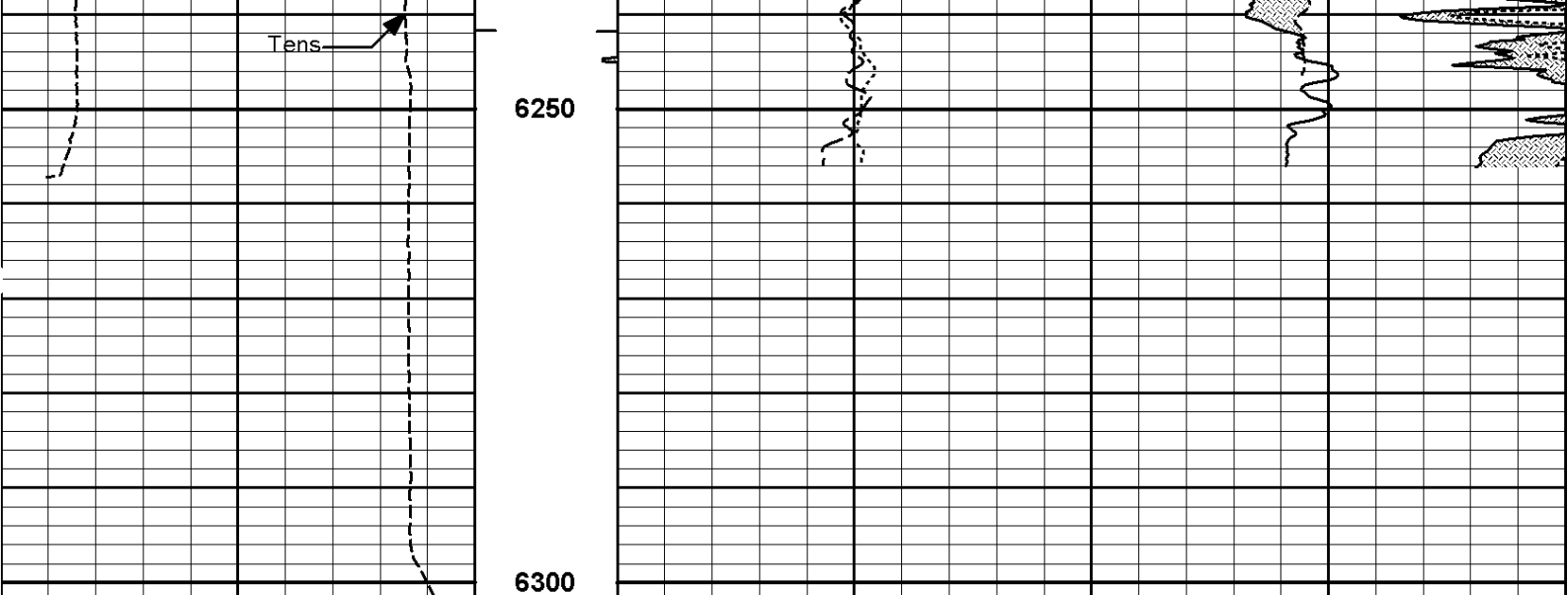












6	Caliper	16	1 : 240	0	Pe	10	0	MicrologLateral	40
	inches		ft					ohm-metre	
0	Gamma API	150	AHVT	-0.25	DensityCorr	0.25	0	MicrologNormal	40
	api				gram per cc			ohm-metre	
15K	Tens	0	BHVT	30	DensityPorosity				-10
	pounds				percent				
			Tension Pull	30	Neutron Porosity				-10
			10 0		percent				

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Plot Time: 18-Oct-16 22:00:50
Plot Range: 4000 ft to 6301.67 ft
Data: {ActiveWell}\Well Based*\
Plot File: \\PORO\1_PoroMicro_5_mainx

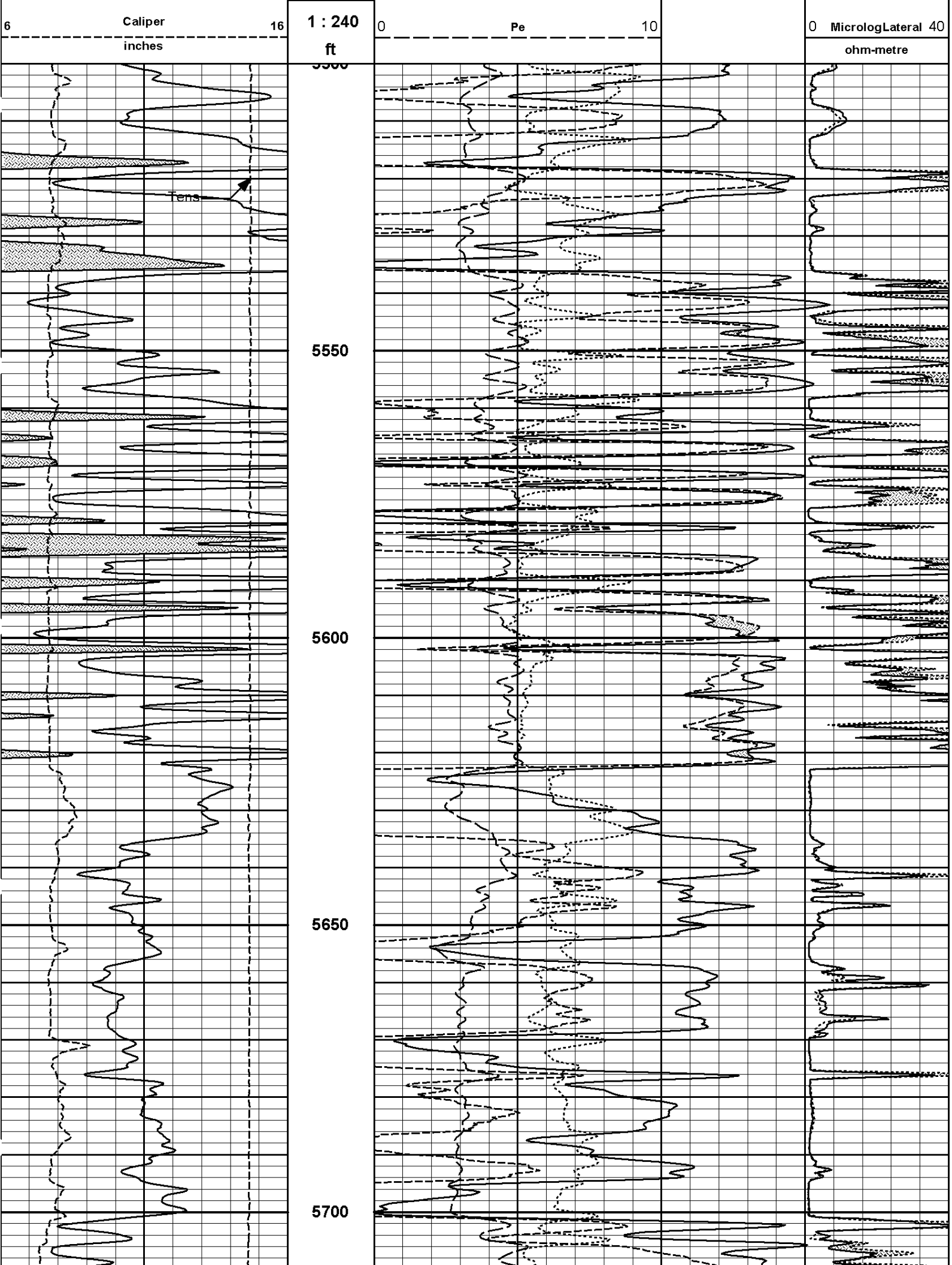
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 18-Oct-16 22:00:51
Plot Range: 5500 ft to 6301.08 ft
Data: {ActiveWell}\Well Based*\
Plot File: \\PORO\1_PoroMicro_5_rptx

REPEAT SECTION

			30 Neutron Porosity -10						
			percent						
15K	Tens	0	30 DensityPorosity -10						
			percent						
0	Gamma API	150	Tension Pull	-0.25	DensityCorr	0.25	0	MicrologNormal	40
			10	0	gram per cc		ohm-metre		



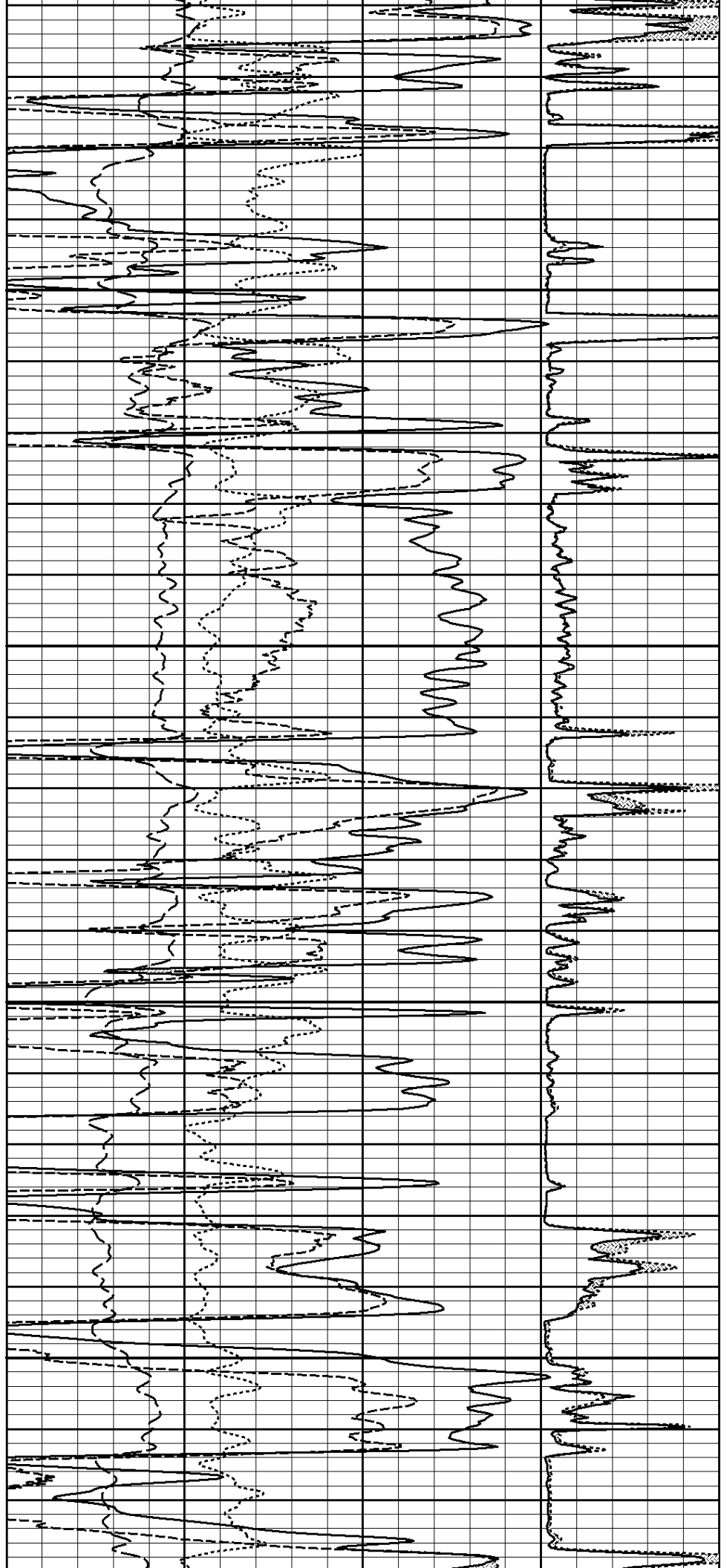


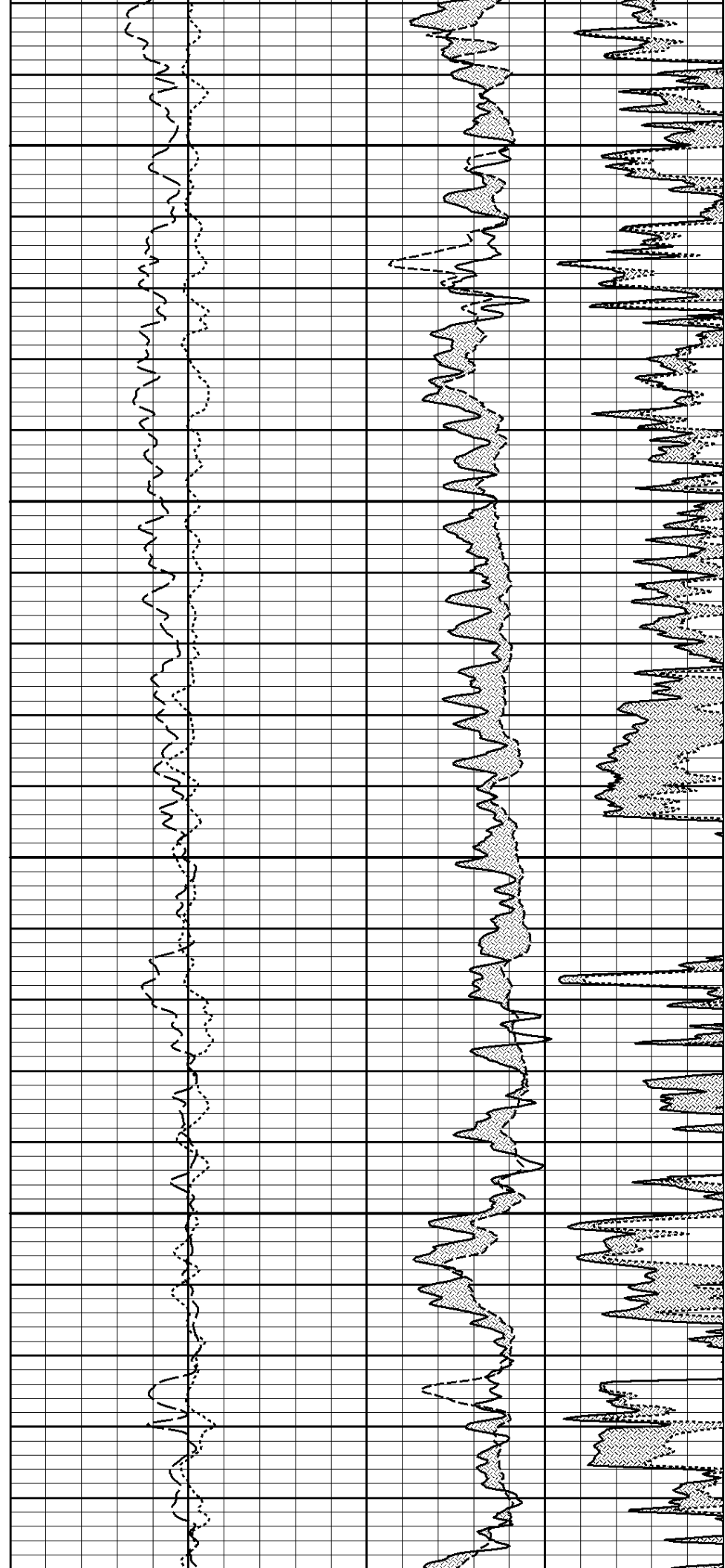
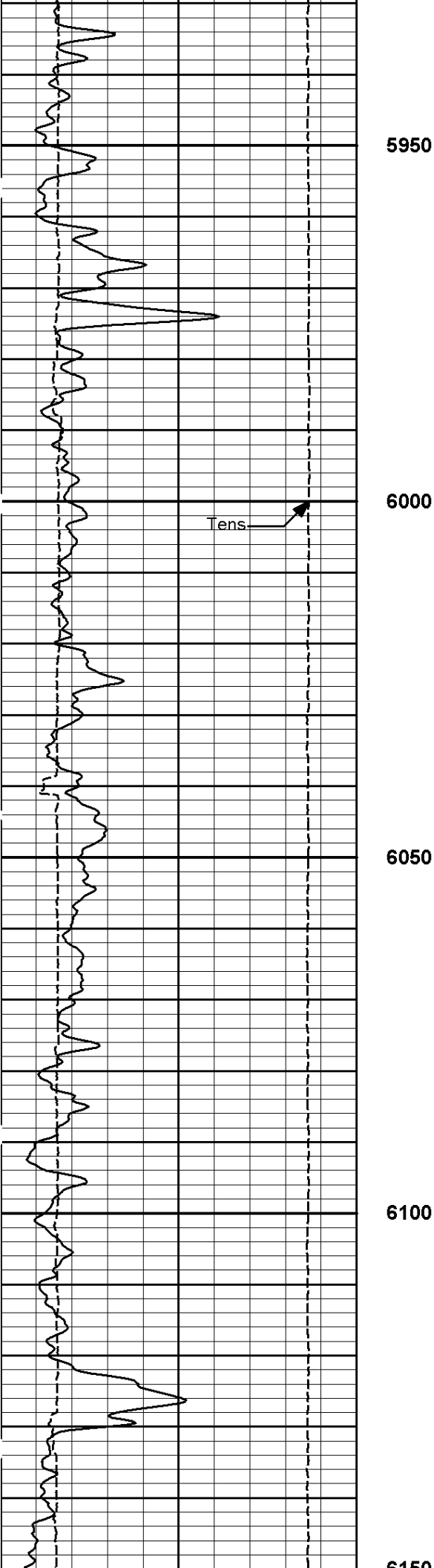
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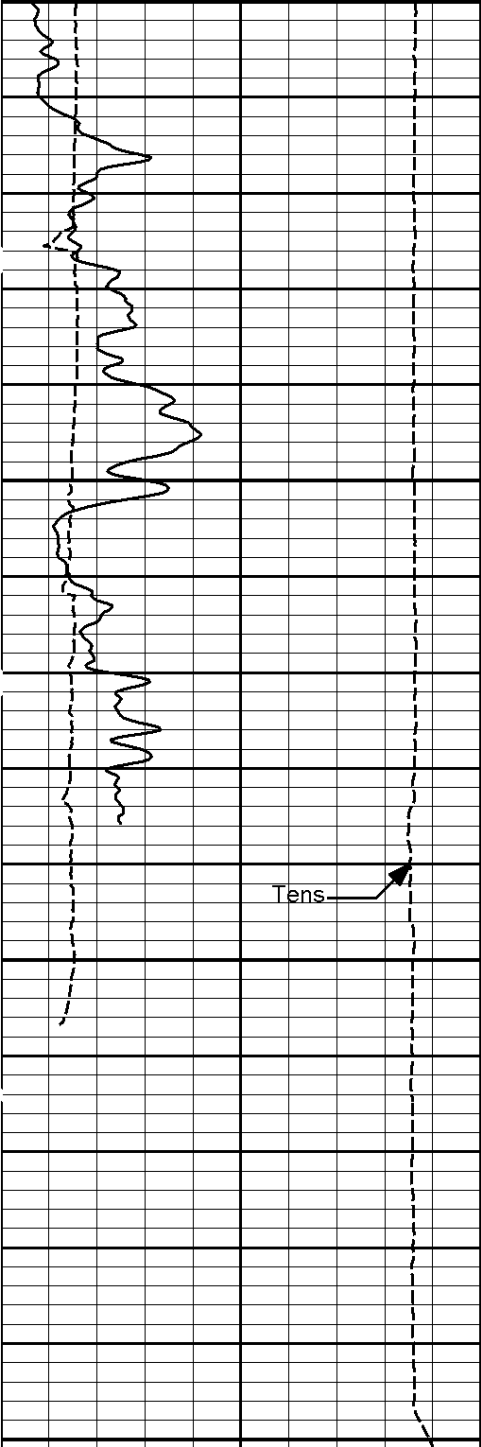
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5850

5900





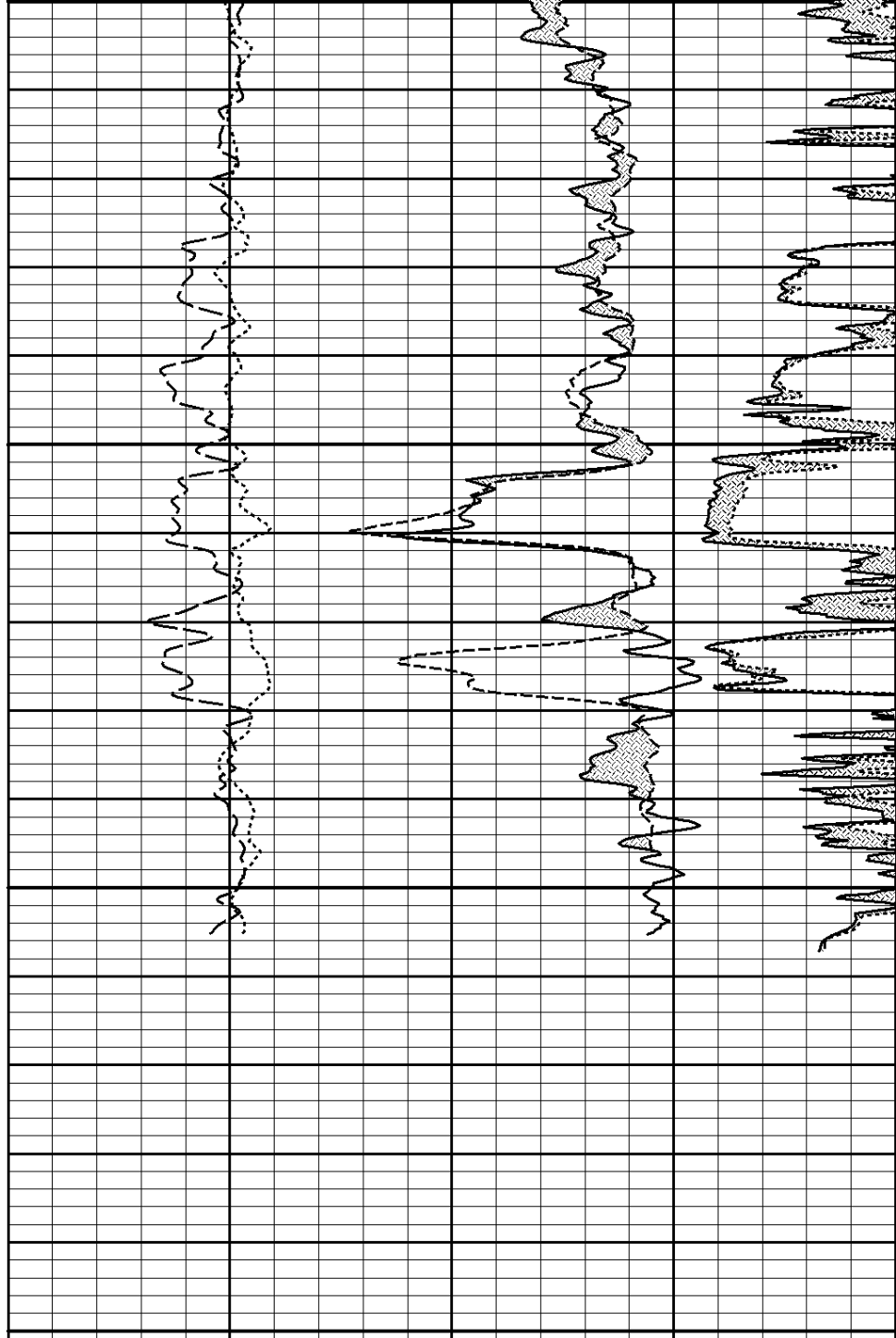


6150

6200

6250

6300



6	Caliper	16	1 : 240	0	Pe	10	0	MicrologLateral	40
	inches		ft					ohm-metre	
0	Gamma API	150	Tension Pull	-0.25	DensityCorr	0.25	0	MicrologNormal	40
	api		10 0		gram per cc			ohm-metre	
15K	Tens	0		30	DensityPorosity				-10
	pounds				percent				
				30	Neutron Porosity				-10
					percent				

HALLIBURTON

Plot Time: 18-Oct-16 22:00:53

Plot Range: 5500 ft to 6301.08 ft

Data: {ActiveWell}\Well Based*

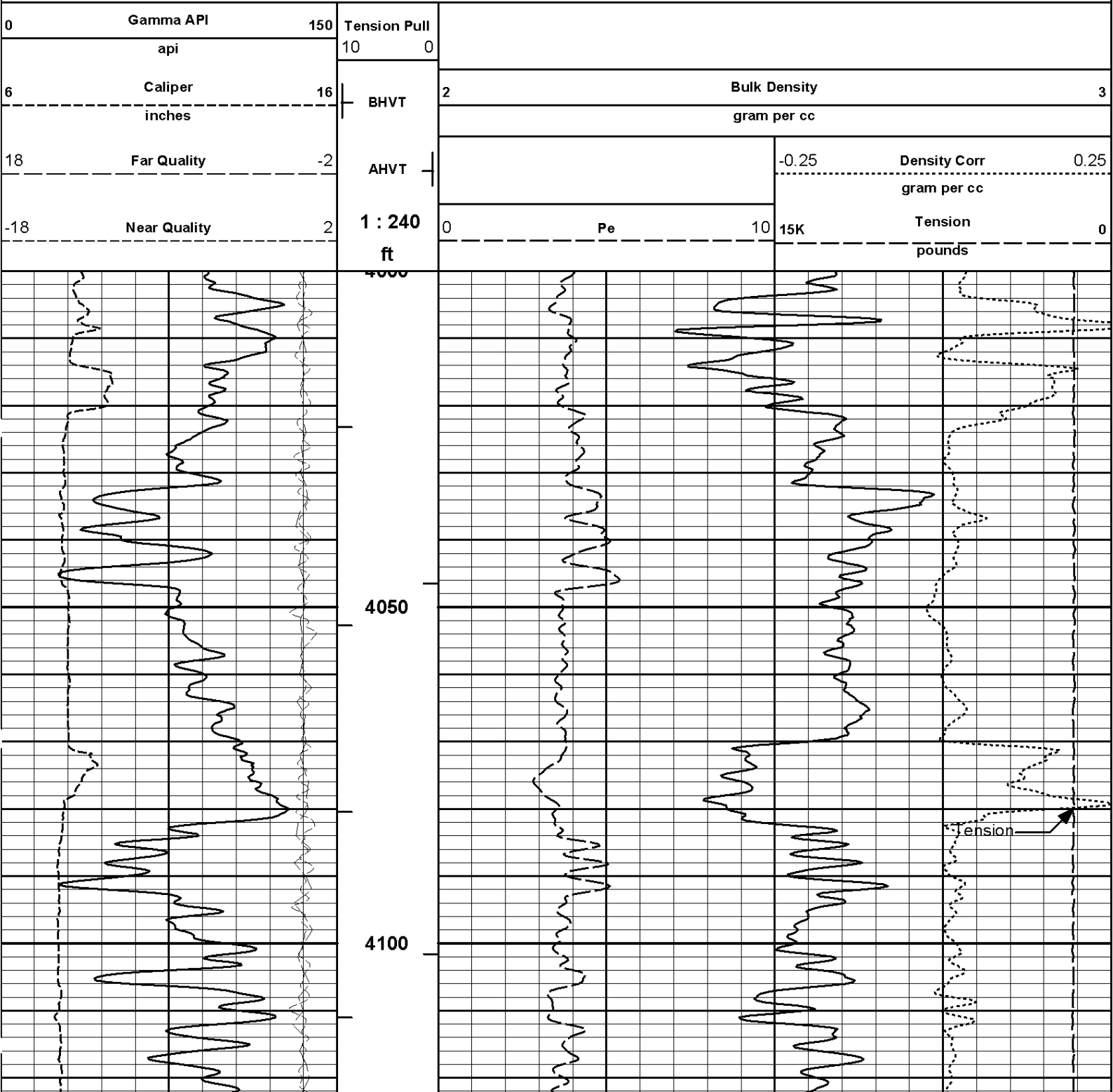
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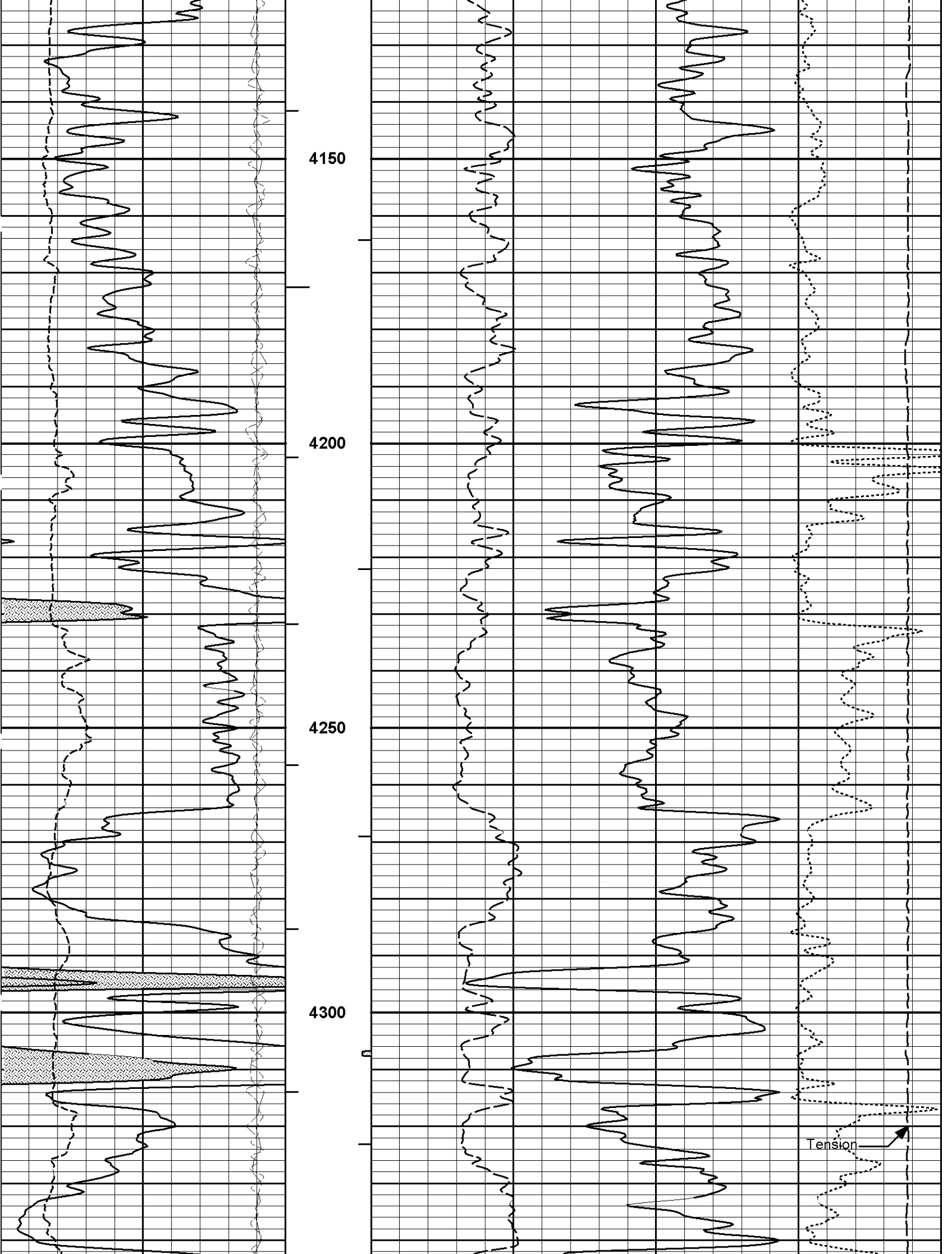
REPEAT SECTION

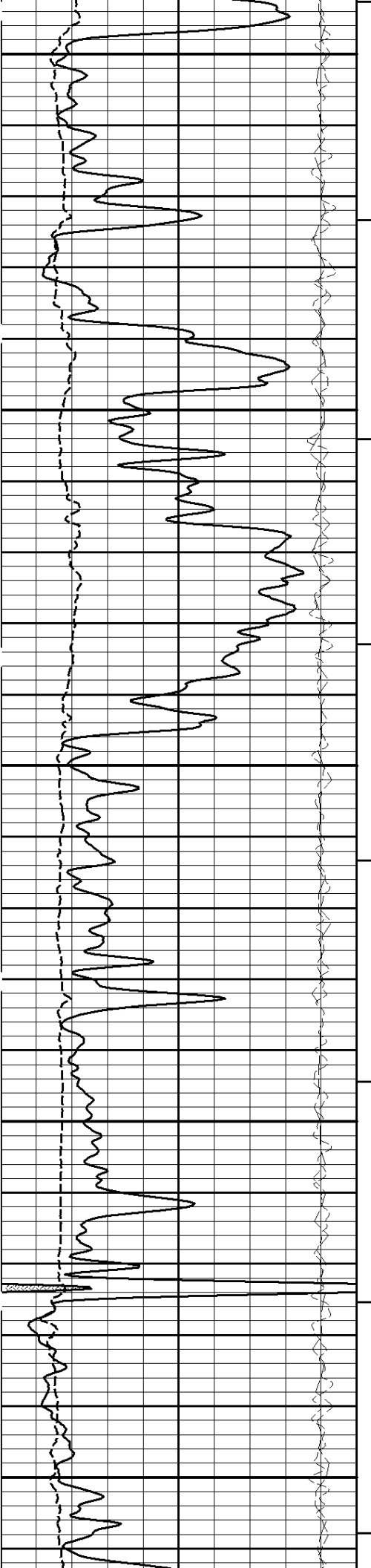
HALLIBURTON

Plot Time: 18-Oct-16 22:00:53
Plot Range: 4000 ft to 6301.67 ft
Data: {ActiveWell}\Well Based\DAQ-0001-004\
Plot File: \\PORO\1_Bulk_5_mainx

5 INCH MAIN LOG







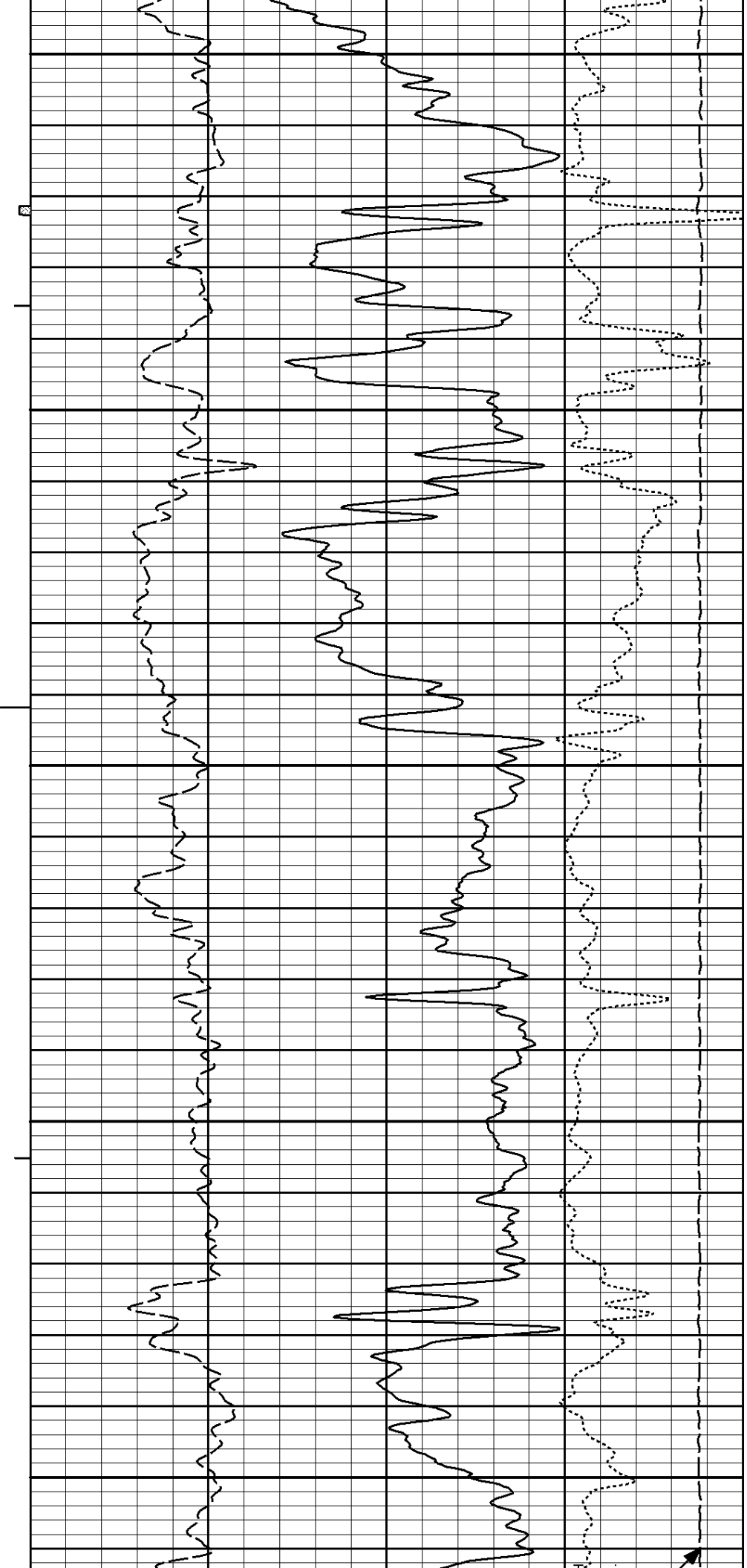
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4400

4450

4500

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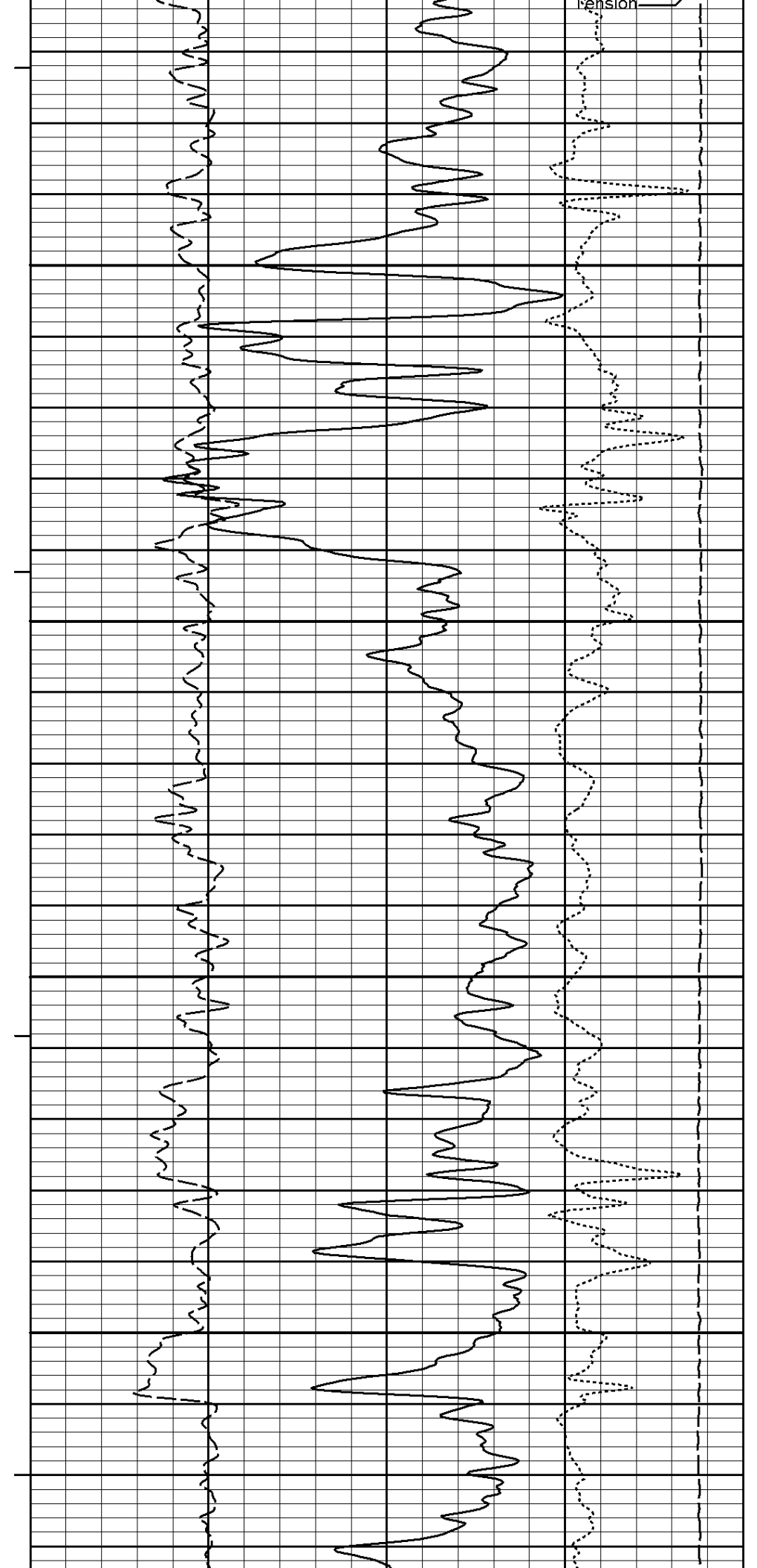
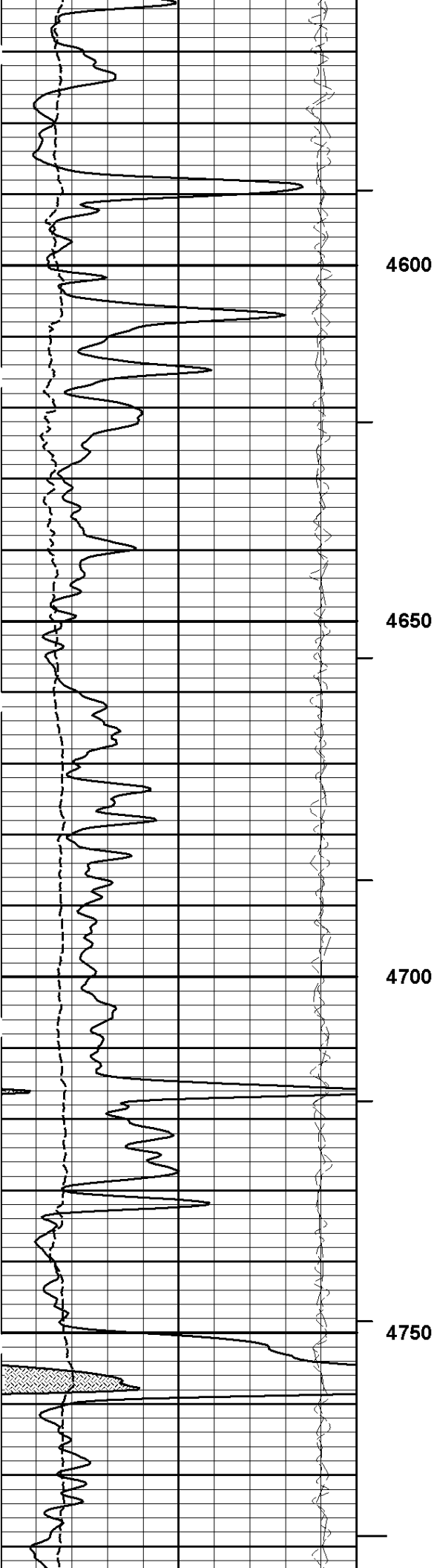
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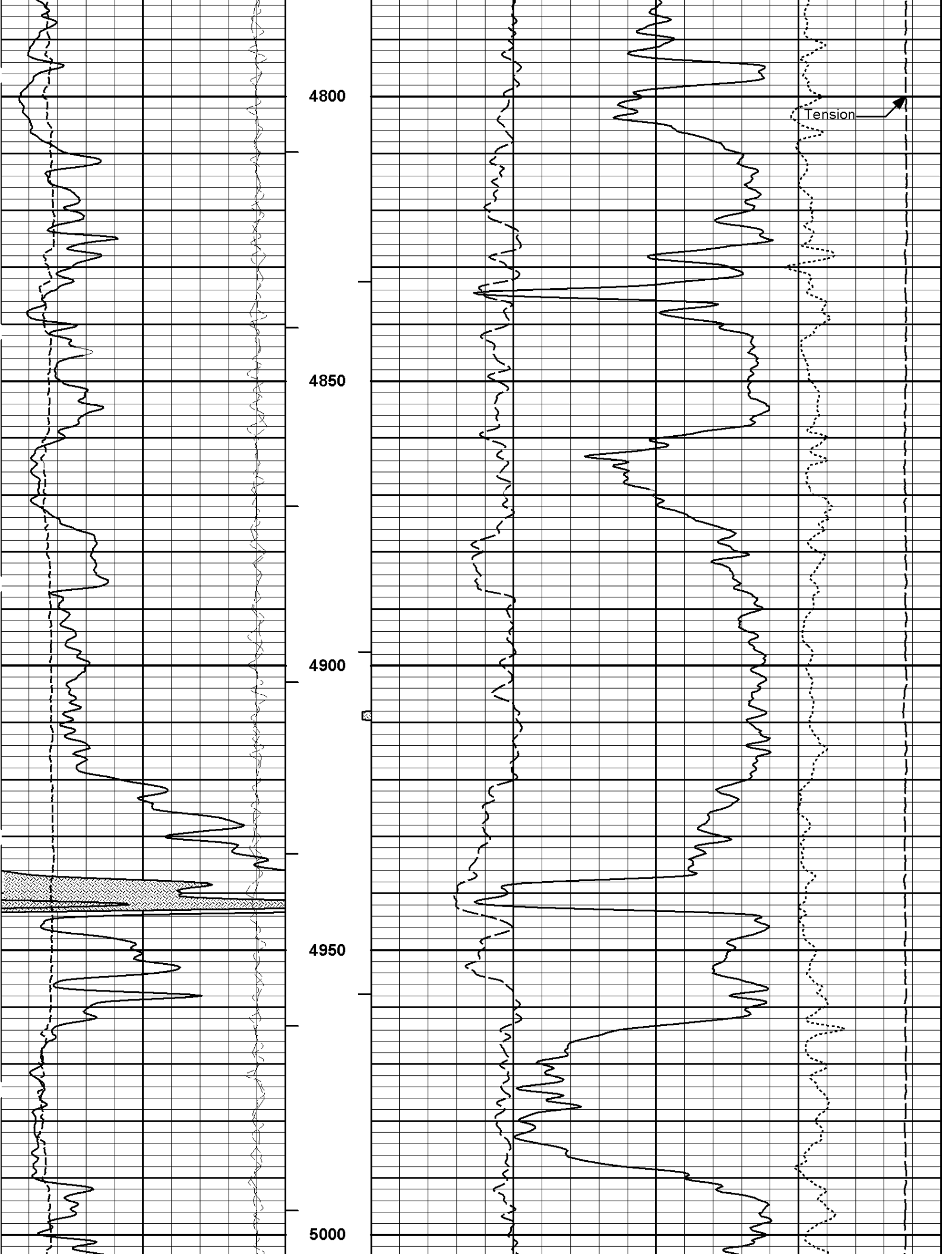
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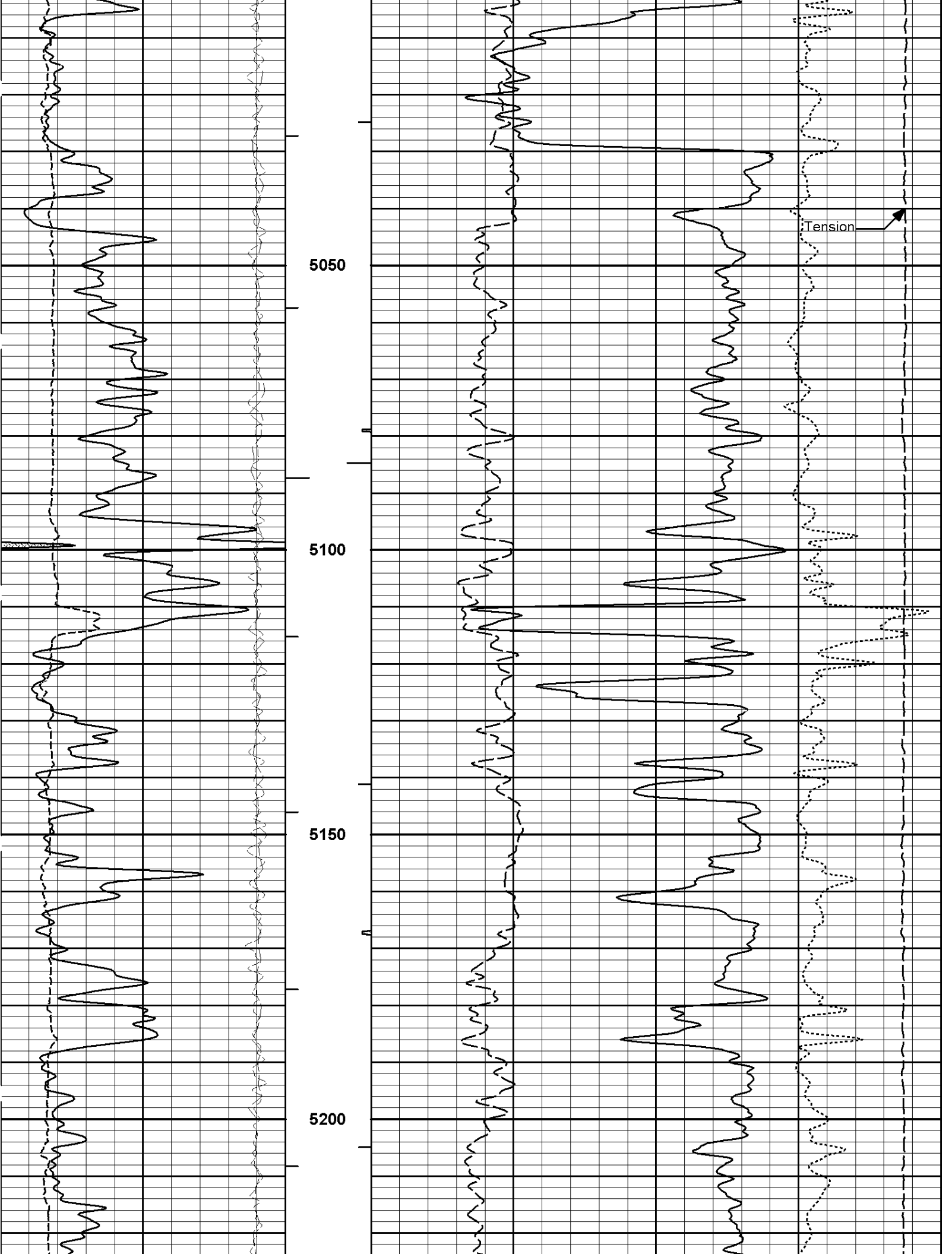
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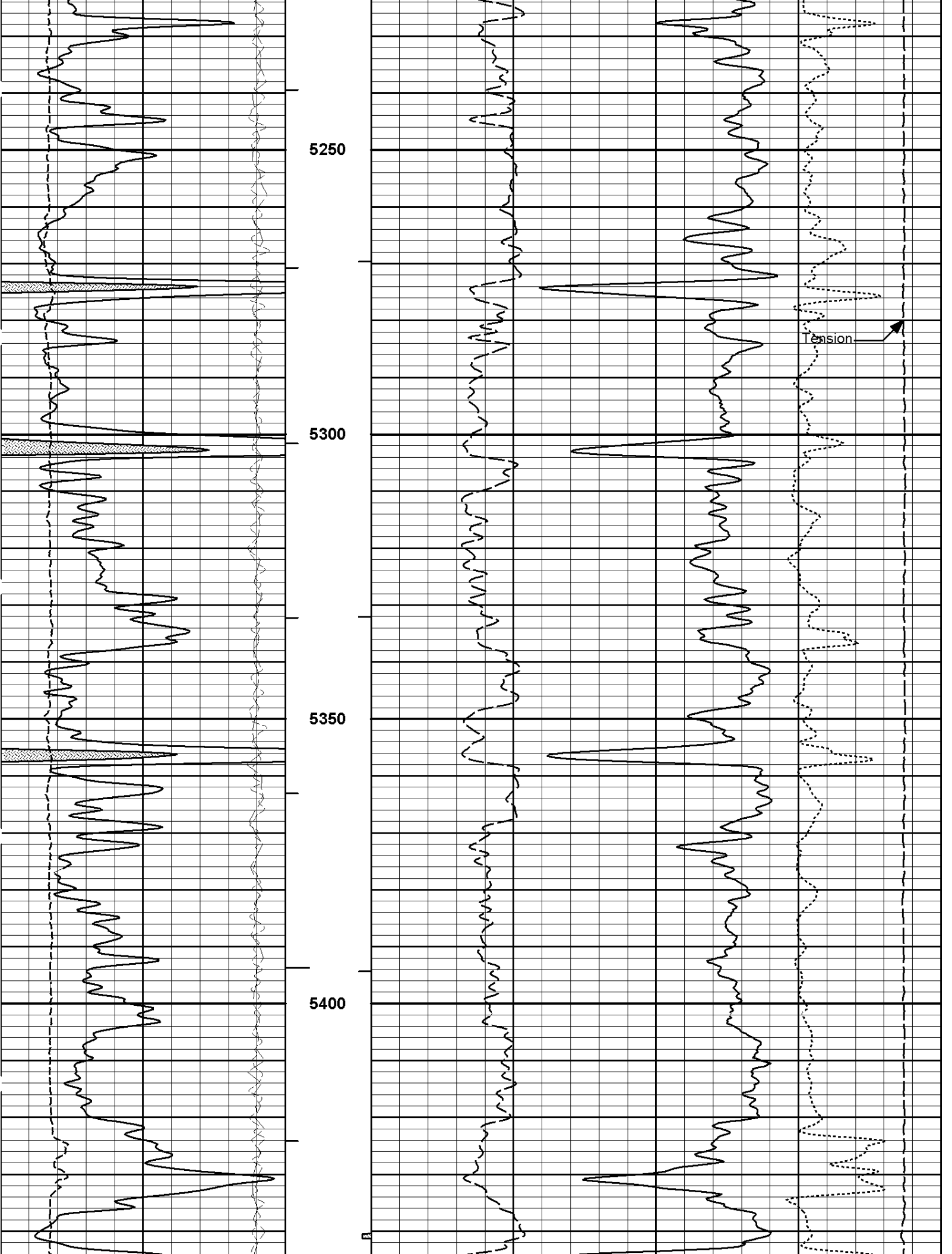
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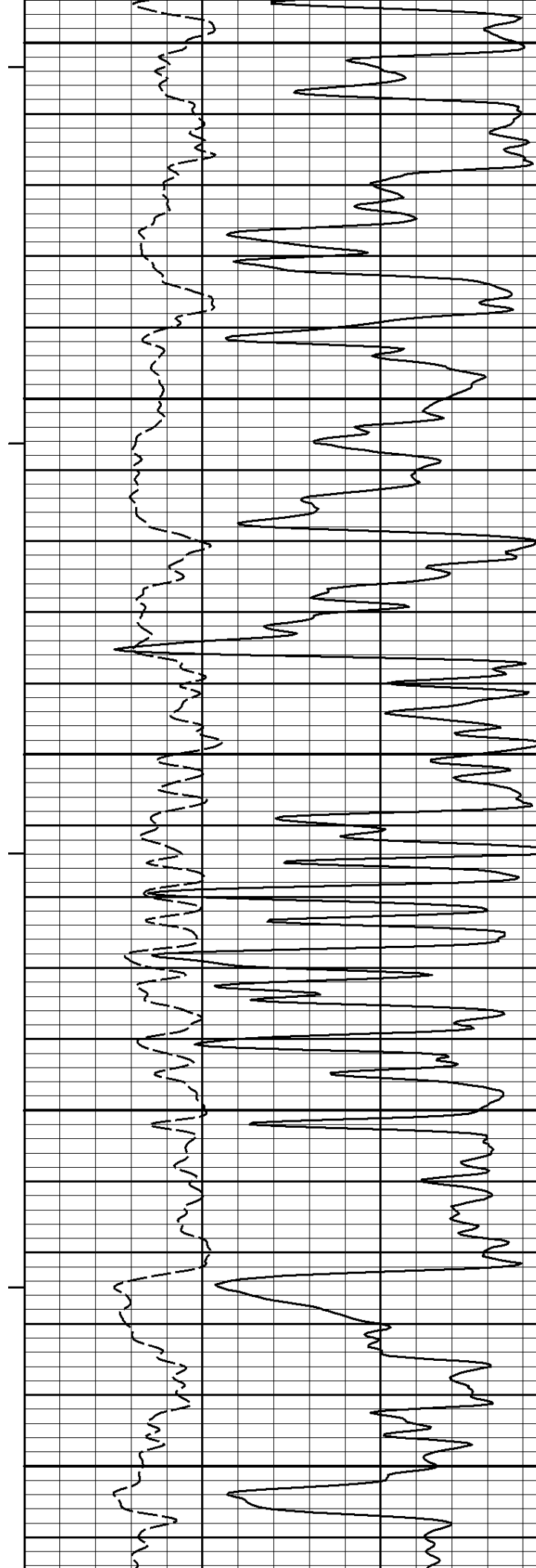
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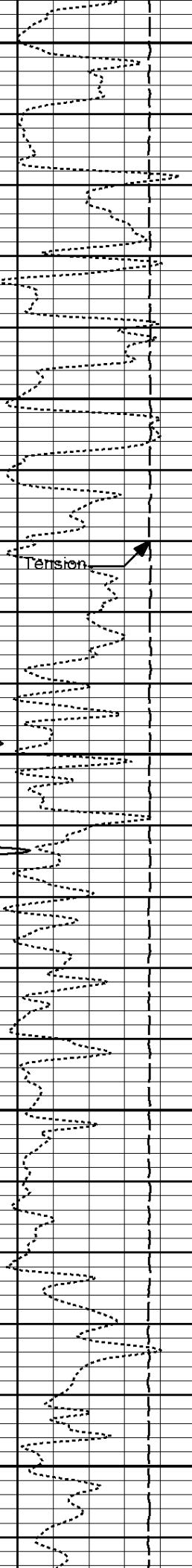
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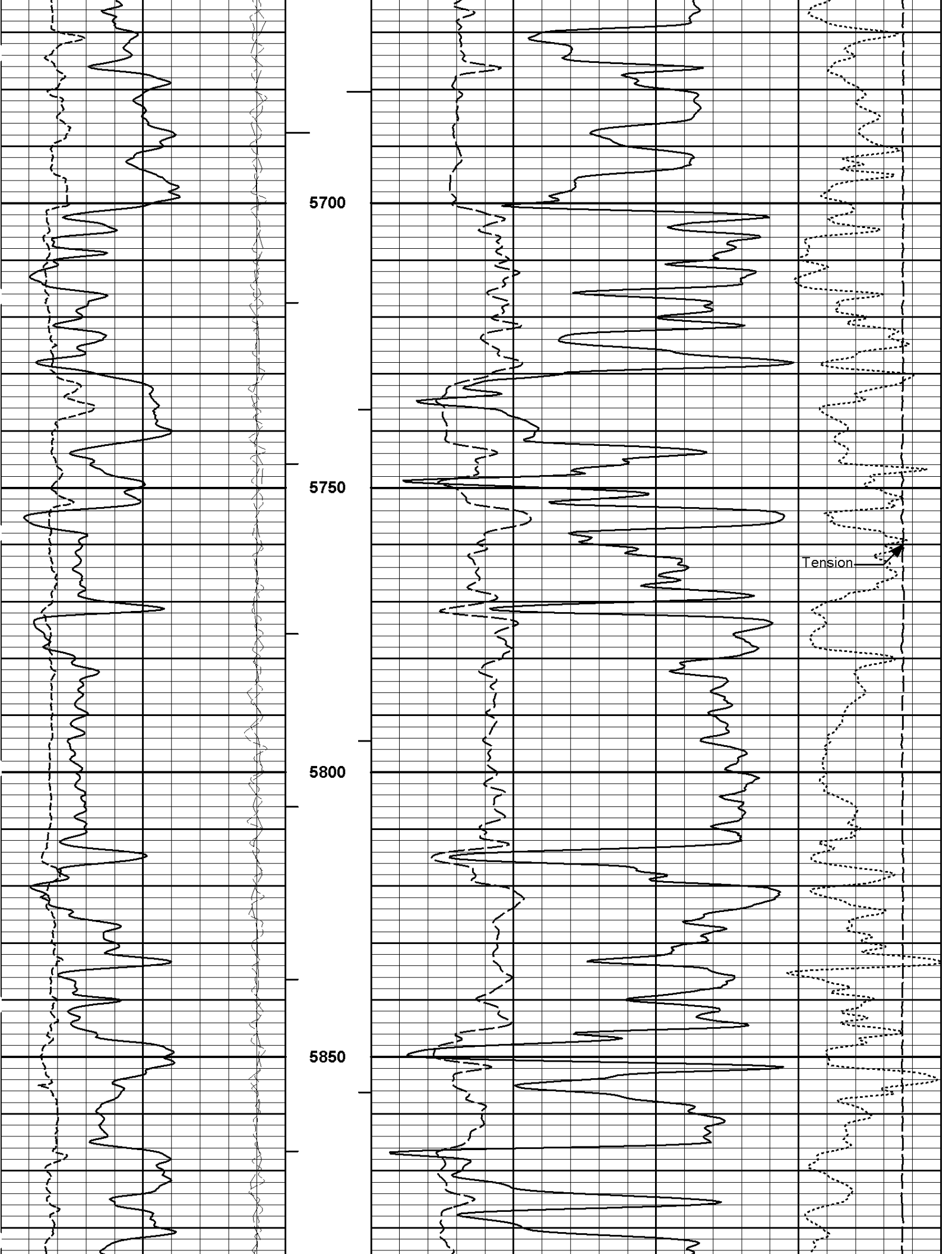
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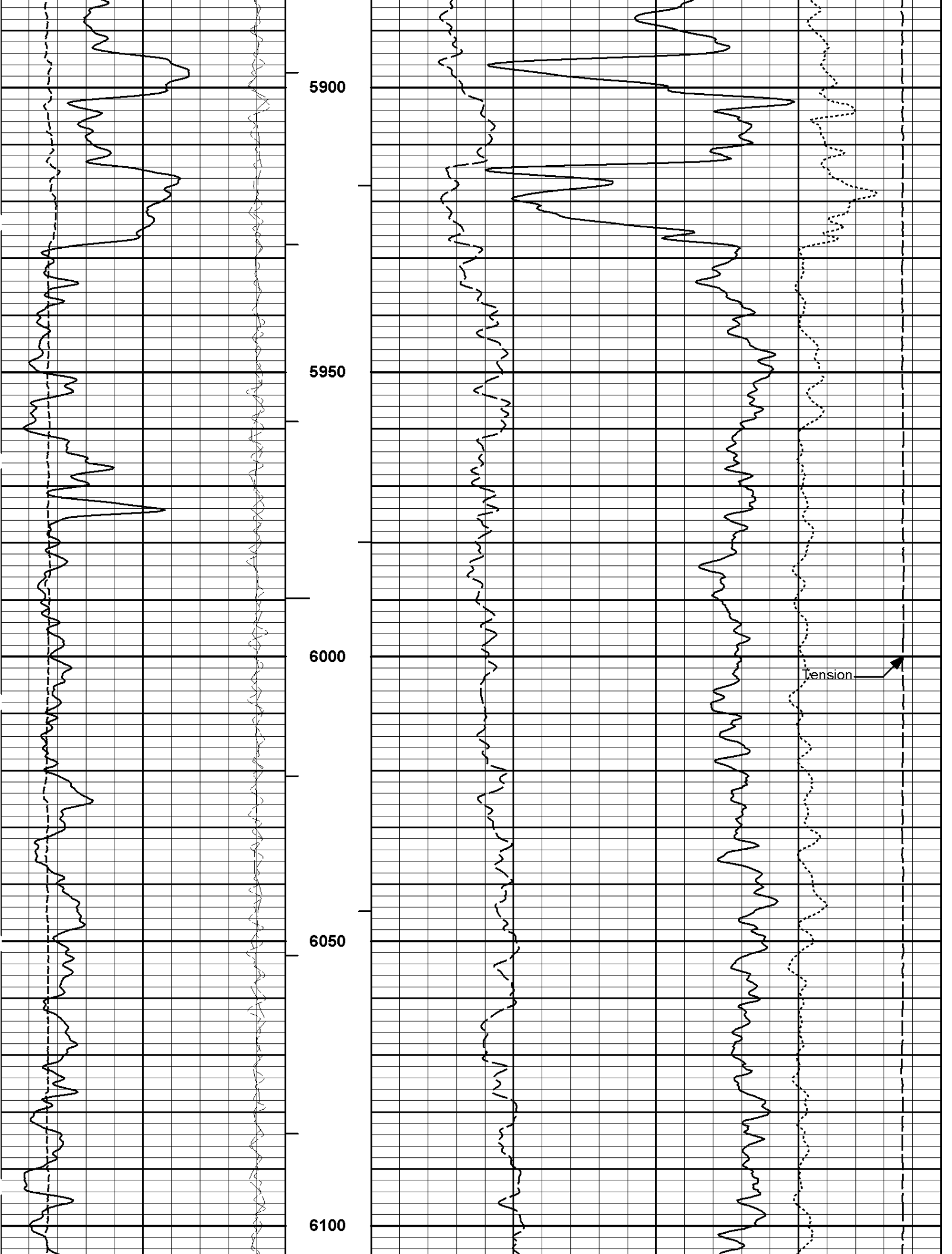
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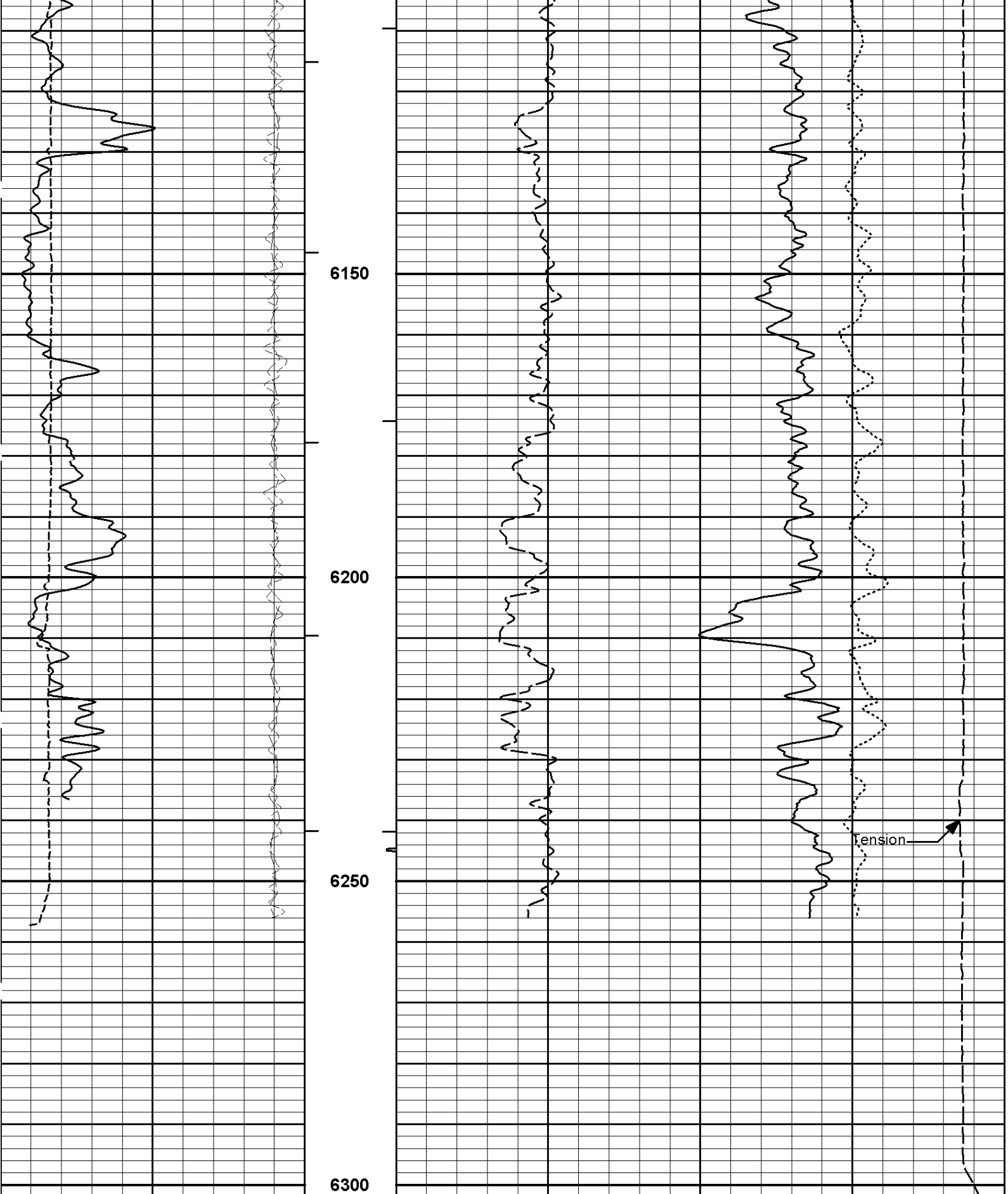


Tension









-18 Near Quality 2	1 : 240 ft	0 Pe 10 15K	Tension 0
18 Far Quality -2	AHVT	-0.25 Density Corr 0.25	pounds
6 Caliper 16		Bulk Density	gram per cc

10	inches	BHVT	2	gram per cc	3
0	Gamma API	150	Tension Pull		
	api		10	0	

HALLIBURTON

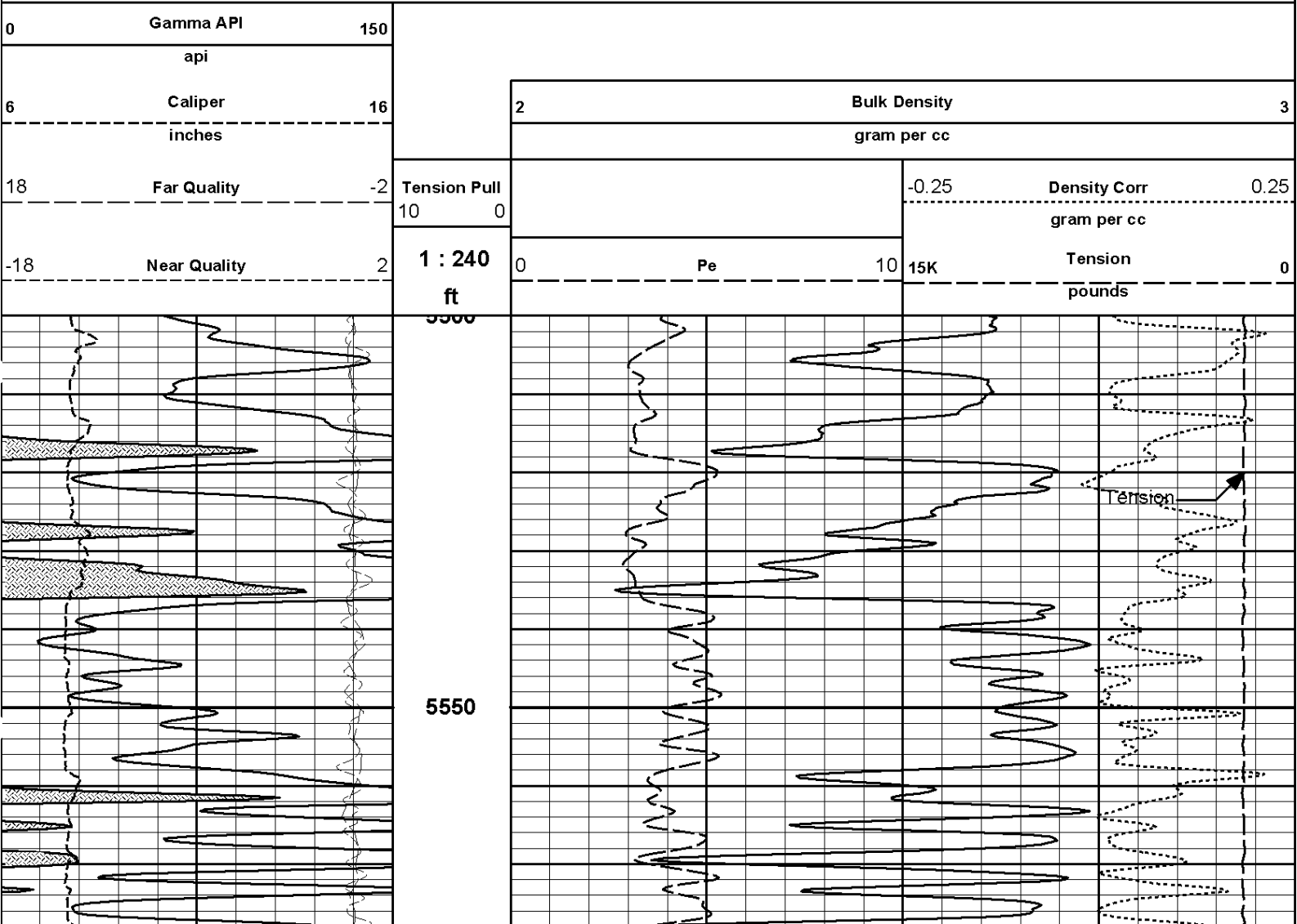
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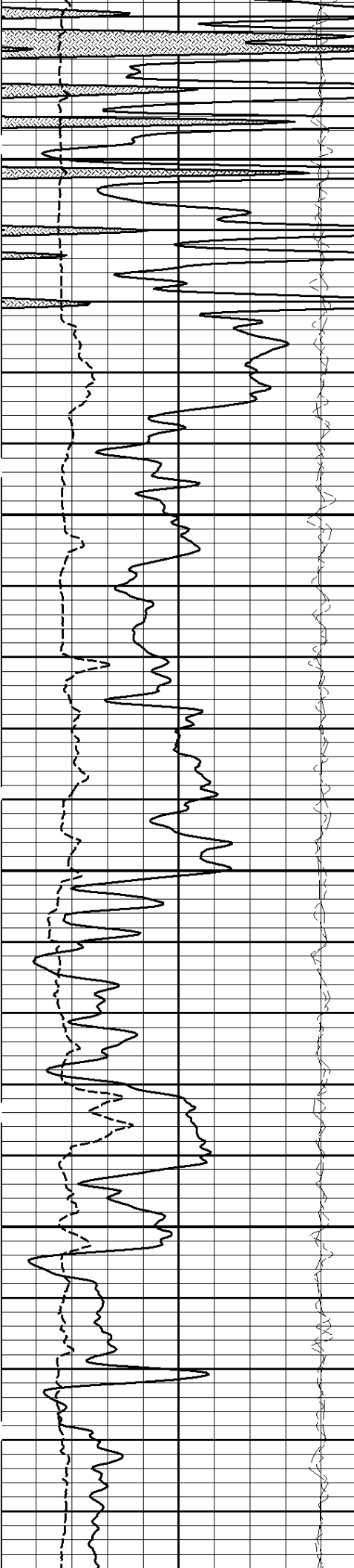
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 18-Oct-16 22:00:56
Plot Range: 5500 ft to 6301.08 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003\
Plot File: \\PORO\1_Bulk_5_rptx

REPEAT SECTION



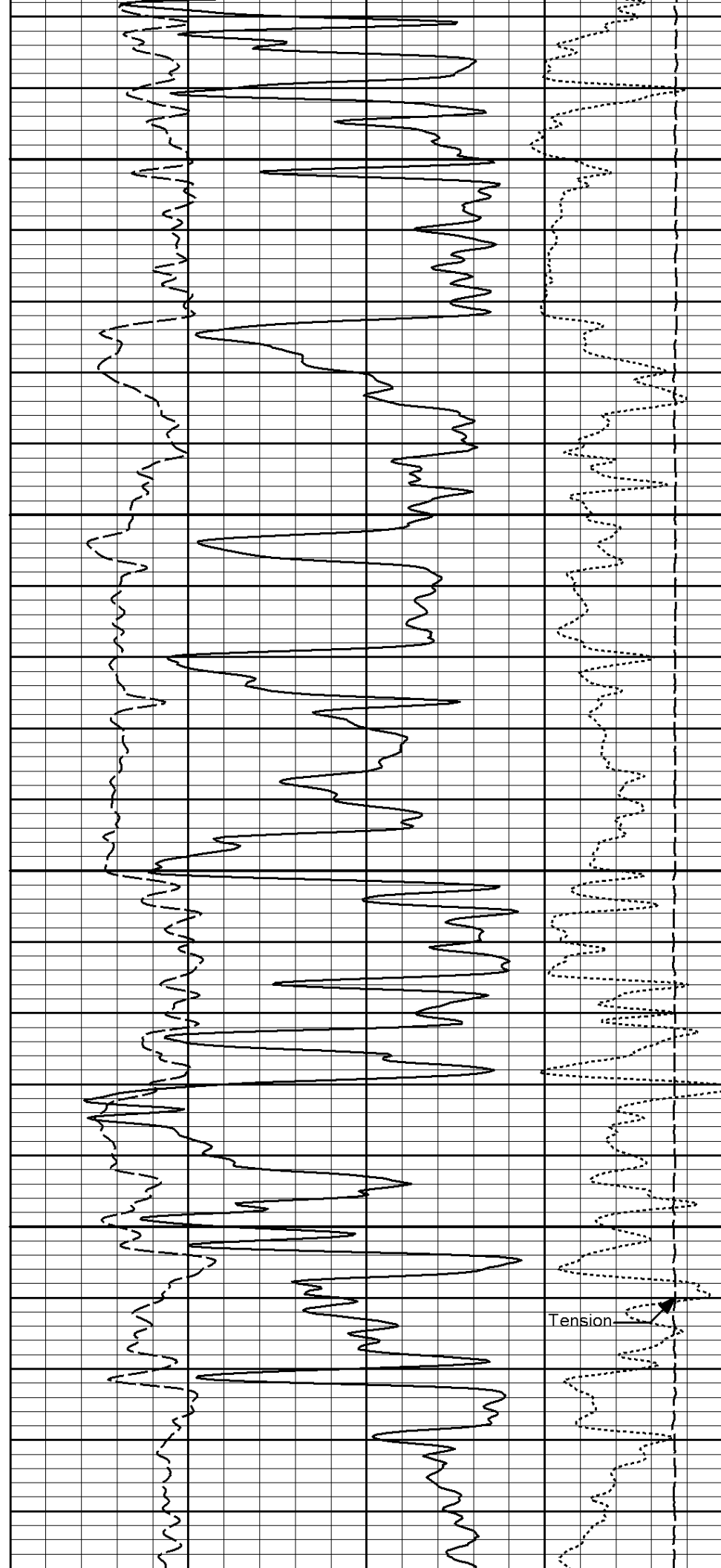


5600

5650

5700

5750



Tension



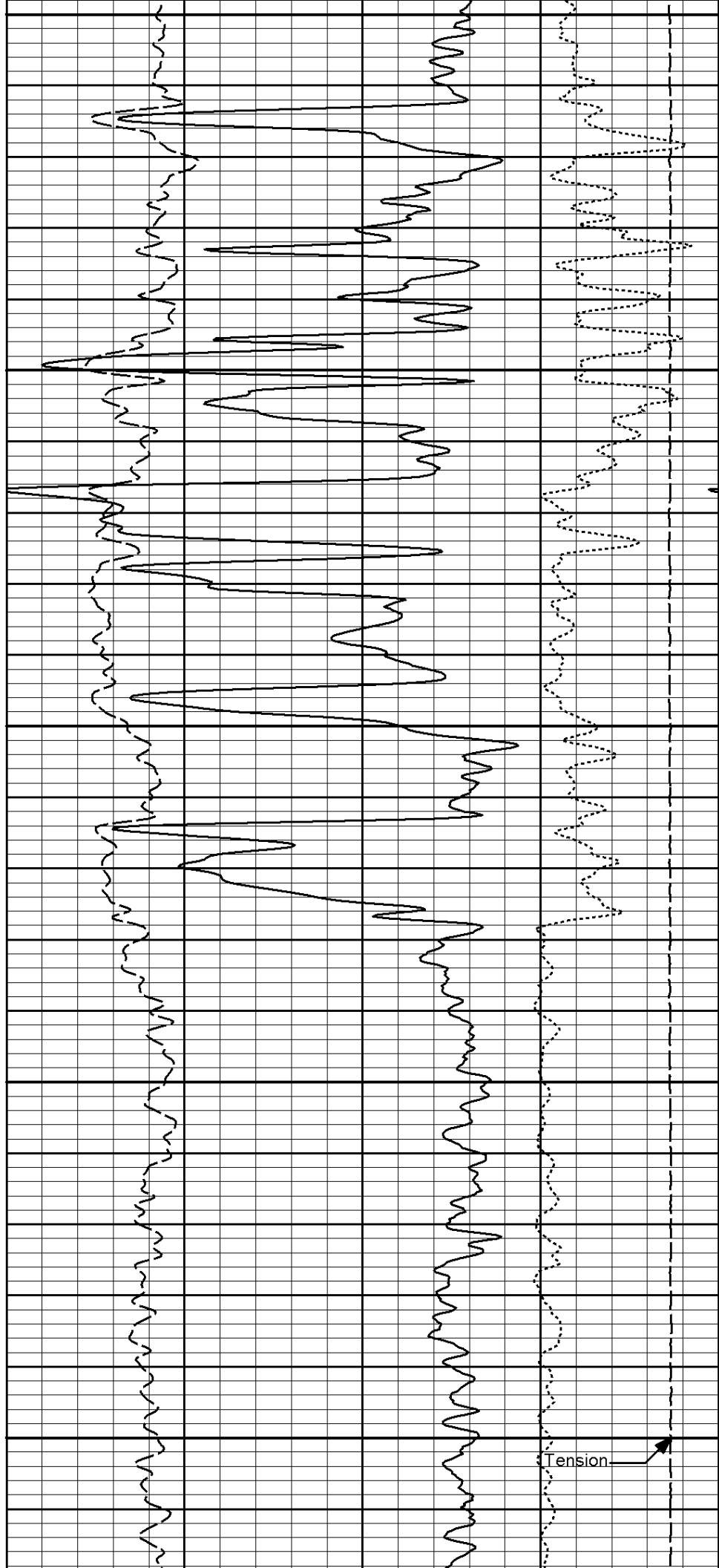
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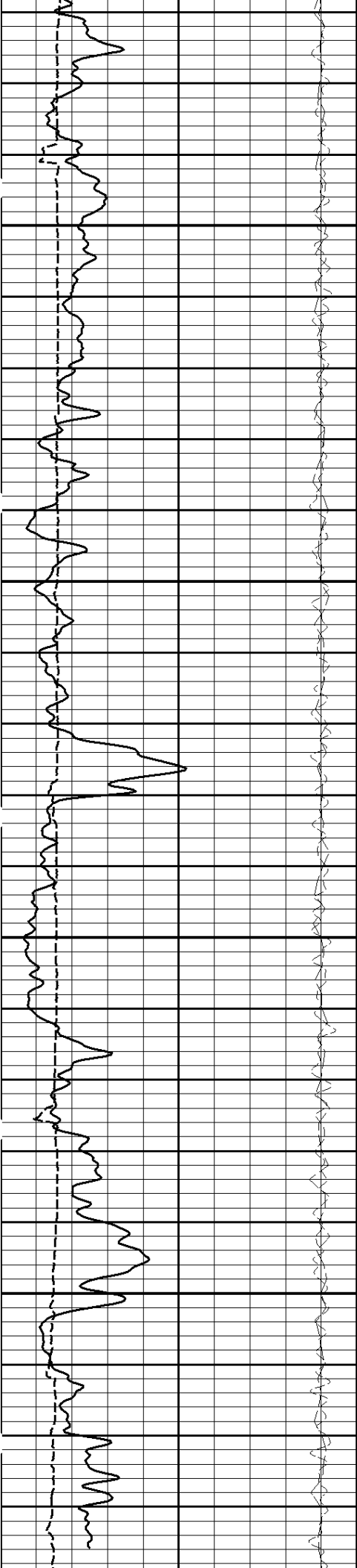
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5900

5950

6000



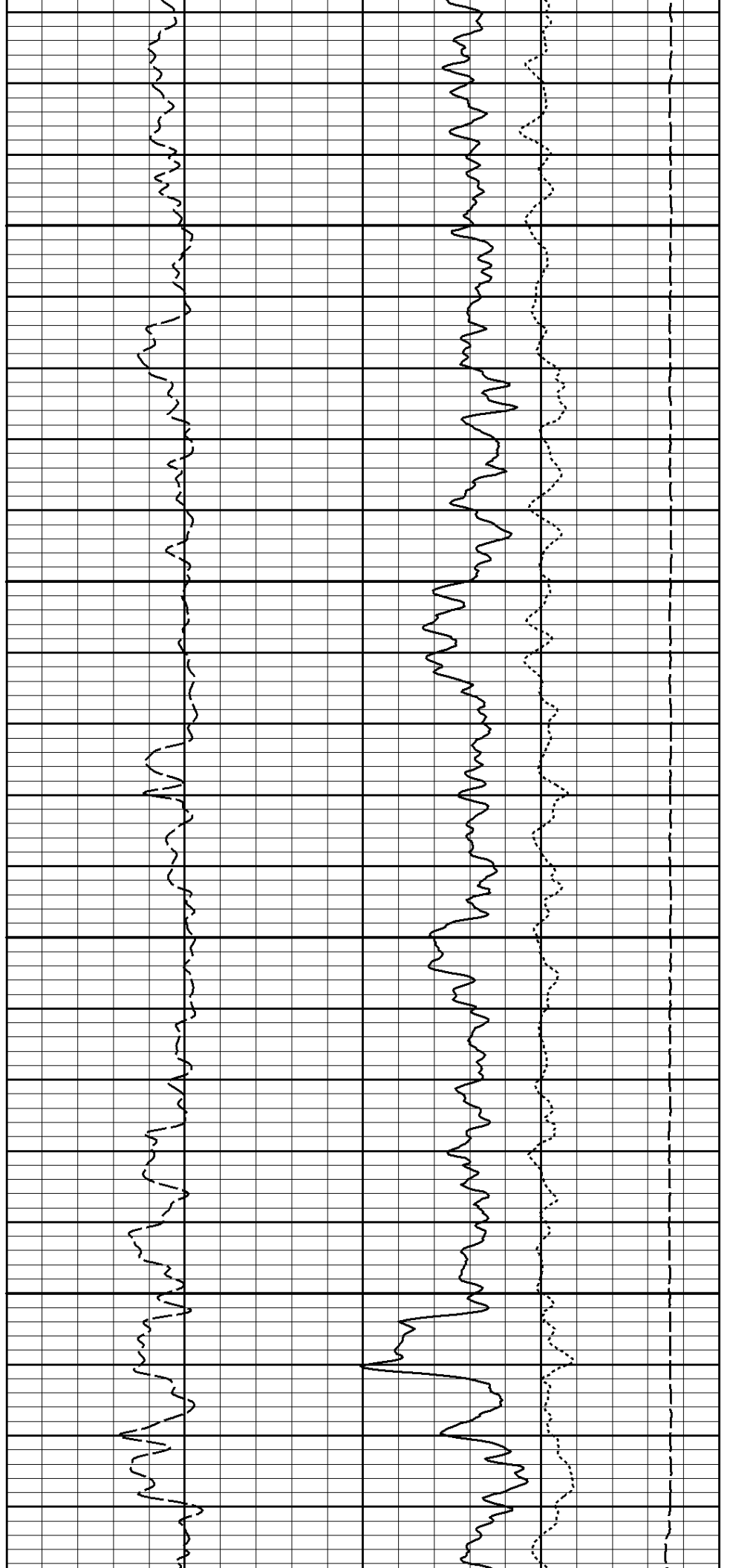


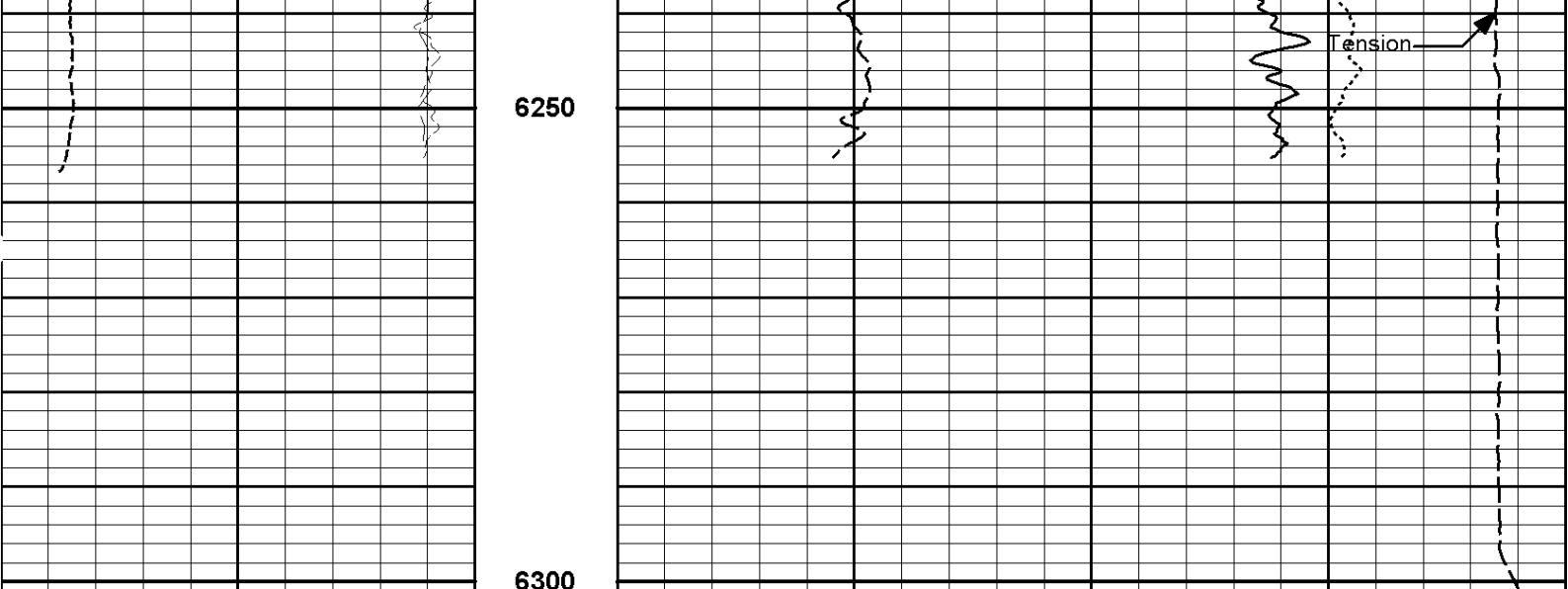
6050

6100

6150

6200





-18	Near Quality	2	1 : 240	0	Pe	10	15K	Tension	0
			ft					pounds	
18	Far Quality	-2	Tension Pull				-0.25	Density Corr	0.25
			10	0				gram per cc	
6	Caliper	16			2			Bulk Density	3
	inches							gram per cc	
0	Gamma API	150							
	api								

HALLIBURTON

Plot Time: 18-Oct-16 22:00:58
Plot Range: 5500 ft to 6301.08 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003\
Plot File: \\PORO\1_Bulk_5_rptx

REPEAT SECTION

HALLIBURTON

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	8.800	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	1800.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	LOGP	Logging Interval is Open?	5.500	

SHARED	ICOD	AHV Casing OD	5.500	in
SHARED	CSTR	Compressive Strength	1000.00	psia
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	6293.00	ft
SHARED	BHT	Bottom Hole Temperature	150.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	CBM Temperature Master Tool	GTET	
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	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
GTET	GROK	Process Gamma Ray?	Yes	
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	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTT	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	
Microlog Pad	MLOK	Process MicroLog 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	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wyllie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in

ACRt Sonde	MINSO	Minimum Tool Standon	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMAX	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	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

BOTTOM_____

Data: PARITY_1_27\0001 QUAD_1\IDLE

Date: 18-Oct-16 16:39:29

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11021139	Reference Calibration Date:	20-Sep-16 10:34:43
Engineer:	WHITLOCK	Calibration Date:	03-Oct-16 12:54:42
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Calibrator Source S/N: TB79

Calibrator API Reference:222.00 api

Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	22.4	22.8	api
Background + Calibrator	244.8	248.6	api
Calibrator	222.4	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11021139	Reference Calibration Date:	03-Oct-16 12:54:42
Engineer:	COTHREN	Calibration Date:	18-Oct-16 15:58:11
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Calibrator Source S/N: TB79

Calibrator API Reference:222.00 api

Equivalent Calibrator API Reference:225.9 api

Field Verification	Shop	Field	Units
Background	22.8	22.6	api
Background + Calibrator	248.6	249.4	api
Calibrator	225.9	226.8	api

Shop	Field	Difference	Tolerance
225.9	226.8	-0.9	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11020487	Reference Calibration Date:	24-Sep-16 05:52:05
Engineer:	WHITLOCK	Calibration Date:	03-Oct-16 14:33:22
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Logging Source S/N: DSN-436

Tank Serial Number: EL RENO

Reference value assigned to Tank: 56.100

Calibrator S/N: 10172000

Snow Block S/N: 12156883
Calibration Tank Water Temperature: 83 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.02234	1.01858	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):	0.2369	0.2358	0.0012	+/- 0.0020
Calibrated Ratio:	10.5987	10.5598	0.039	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0871	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 - 11020487	Reference Calibration Date:	03-Oct-16 14:33:22
Engineer:	COTHREN	Calibration Date:	18-Oct-16 15:34:37
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Logging Source S/N: DSN-436
Snow Block S/N: 12156883

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0871	0.0875	0.0004	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10951315	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	WHITLOCK	Calibration Date:	24-Sep-16 04:40:51
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1
Host Tool Name:	DSNT - 11020487		

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2537.21	-2537.21	-7000.00 - -1000.00
Pad Gain	0.0003731	0.0003731	0.0002000 - 0.0006000
Arm Offset	-2083.18	-2083.18	-5000.00 - 3000.00
Arm Gain	0.0005378	0.0005378	0.000300 - 0.000700
Arm Power	-0.000006509	-0.000006509	-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)	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 - 10951315	Reference Calibration Date:	24-Sep-16 04:40:51	
Engineer:	COTHREN	Calibration Date:	18-Oct-16 15:42:41	
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1	
MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.80	0.05	+/- 0.10
Ring Diameter	8.25	8.25	0.00	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:			Passed	
Diameter Check:			Passed	

MICRO LOG SHOP CALIBRATION					
Tool Name:	Microlog Pad - 10951315		Reference Calibration Date:	01-Jan-70 00:00:00	
Engineer:	WHITLOCK		Calibration Date:	24-Sep-16 04:33:41	
Software Version:	WL INSITE R5.0.5 (Build 8)		Calibration Version:	1	
Host Tool Name:	DSNT - 11020487				
CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.17	-0.17	-0.01	-0.01	ohmm
Calibration Point #1	0.00	0.00	0.00	0.00	ohmm
Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	19.83	19.83	20.01	20.01	ohmm
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Tool Value		Tool Value		
Tool Zero	-0.41		0.75		V
Calibration Point #1	43.74		3.58		V
Calibration Point #2	5378.37		6904.50		V
Internal Reference	5332.92		6907.11		V

MICRO LOG FIELD CHECK

Tool Name: Microlog Pad - 10951315

Reference Calibration Date: 24-Sep-16 04:33:41

Engineer: WHITLOCK

Calibration Date: 18-Oct-16 15:40:19

Software Version: WL INSITE R5.0.5 (Build 8)

Calibration Version: 1

Measurement

Micro Log Normal

Micro Log Lateral

Shop

Field

Shop

Field

Units

Tool Zero

-0.17

-0.17

-0.01

-0.01

ohmm

Internal Reference

19.83

19.82

20.01

20.00

ohmm

Summary

Signal

Shop

Field

Difference

Tolerance

Microlog Normal

19.83

19.82

0.01

+/- 0.80

Microlog Lateral

20.01

20.00

0.01

+/- 0.80

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10865873

Reference Calibration Date: 03-Oct-16 13:25:45

Engineer: WHITLOCK

Calibration Date: 03-Oct-16 13:48:47

Software Version: WL INSITE R5.0.5 (Build 8)

Calibration Version: 1

Logging Source S/N: 5155GW

Aluminum Block S/N: EL RENO

Density: 2.581g/cc

Pe: 3.170

Magnesium Block S/N: EL RENO MG

Density: 1.687g/cc

Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement

Previous Value

New Value

Control Limit

Near Bar Gain

1.0087

0.9937

0.90 - 1.10

Near Dens Gain

1.0154

1.0020

0.90 - 1.10

Near Peak Gain

1.0325

1.0183

0.90 - 1.10

Near Lith Gain

1.0324

1.0326

0.90 - 1.10

Far Bar Gain

1.0026

1.0004

0.90 - 1.10

Far Dens Gain

0.9952

0.9925

0.90 - 1.10

Far Peak Gain

0.9930

0.9905

0.90 - 1.10

Far Lith Gain

0.9637

0.9628

0.90 - 1.10

Near Bar Offset

0.1313

0.2674

NONE

Near Dens Offset

0.0769

0.1926

NONE

Near Peak Offset

-0.0784

0.0398

NONE

Near Lith Offset

-0.1076

-0.1108

NONE

Far Bar Offset

0.1698

0.1881

NONE

Far Dens Offset

0.1897

0.2106

NONE

Far Peak Offset

0.1515

0.1696

NONE

Far Lith Offset

0.3073

0.3125

NONE

Near Bar Background

853.18

851.94

700 - 1450

Near Dens Background

280.72

279.53

230 - 480

Near Peak Background

123.05

122.77

100 - 210

Near Lith Background

149.30

149.32

125 - 260

Far Bar Background

480.88

481.47

450 - 900

Far Dens Background

189.26

187.52

175 - 345

Far Peak Background

74.44

75.44

70 - 140

Far Lith Background

77.02

77.37

75 - 145

CALIBRATION BLOCK SUMMARY

Current Reading

Calibrated

Control Limit

Measurement	(Previous Coef)	(New Coef)	Change	On Change
MAGNESIUM				
Density (g/cc)	1.687	1.687	0.000	+/- 0.015
Pe	2.565	2.559	-0.006	+/- 0.150
ALUMINUM				
Density (g/cc)	2.580	2.581	0.001	+/- 0.01500
Pe	3.121	3.132	0.011	+/- 0.150
TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0006	+/- 0.0110	0.0004	+/- 0.0140
Magnesium Block	-0.0010	+/- 0.0110	-0.0011	+/- 0.0140
Aluminum Block	0.0009	+/- 0.0110	0.0003	+/- 0.0140
Resolution	9.96	6.00 - 11.50	8.99	6.00 - 11.50
Internal Verifier(B+D+P+L)	1404	1200 - 2700	822	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 - 10865873	Reference Calibration Date:	03-Oct-16 13:48:47	
Engineer:	COTHREN	Calibration Date:	18-Oct-16 15:52:49	
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1	
Pad Temperature: 85.8 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1403.558	1399.829	-3.729	15.129
Far (B+D+P+L) cps	821.813	819.856	-1.957	15.811
Near Resolution	9.96	9.95	-0.010	0.50
Far Resolution	8.99	9.00	0.010	1.00
PASS/FAIL SUMMARY				
Bkg Quality Check:		Passed		
Bkg Resolution Check:		Passed		
Bkg Verification Check:		Passed		

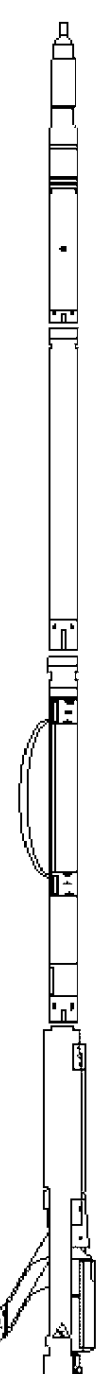
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11021139						
Gamma Ray Calibrator	225.9	226.8	-----	-0.9	+/- 9.00	api
DSNT-11020487						
Gamma Block Density	0.0074	0.0075		0.0001	+/- 0.0150	api

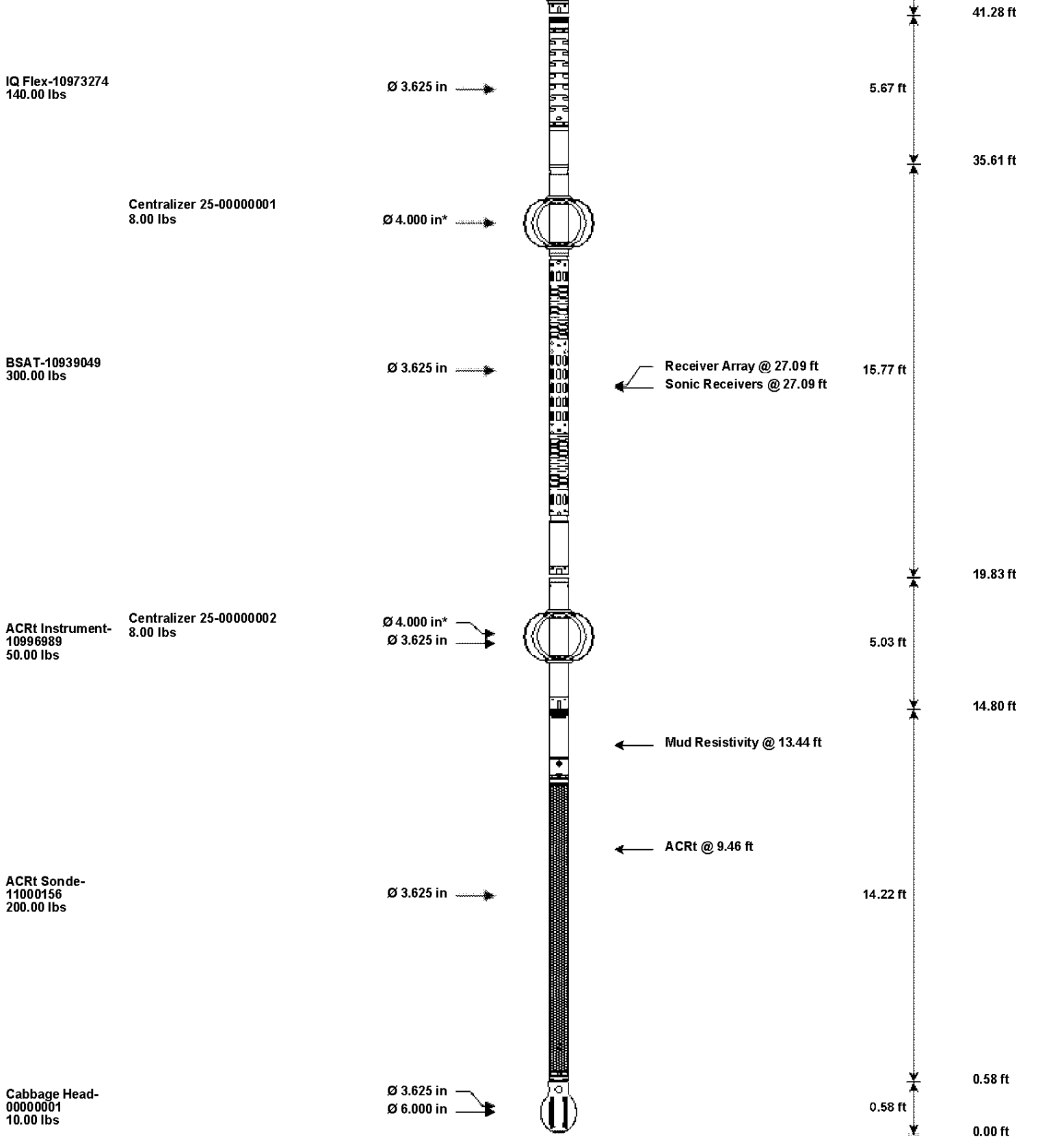
Snow-Block Porosity	0.08/1	0.0875	-----	-0.0004	+/- 0.0150	decip
SDLT-10951315						
Pad Extension	3.75	3.80	-----	-0.05	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
Microlog Pad-10951315						
MicroLog Normal	19.83	19.82	-----	0.01	+/-0.80	ohmm
MicroLog Lateral	20.01	20.00	-----	0.01	+/-0.80	ohmm
SDLT Pad-10865873						
Near(B+D+P+L)	1403.558	1399.829	-----	3.729	+/-15.129	cps
Far(B+D+P+L)	821.813	819.856	-----	1.957	+/-15.811	cps

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HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS_I 37.50 lbs		Ø 2.750 in		Temperature @ 76.98 ft	2.25 ft	77.23 ft
XOHD-12345678 20.00 lbs		Ø 2.750 in Ø 3.625 in			0.95 ft	74.98 ft 74.03 ft
SP Sub-10904995 60.00 lbs		Ø 3.625 in		SP @ 72.26 ft	3.74 ft	
				Z-Accelerometer @ 69.84 ft		70.30 ft
GTET-11021139 165.00 lbs		Ø 3.625 in			8.52 ft	
				GammaRay @ 64.23 ft		
						61.78 ft
DSN Decentralizer-10993115 6.60 lbs		Ø 5.000 in*				
DSNT-11020487 174.00 lbs		Ø 3.625 in			9.69 ft	
				DSN Far @ 54.84 ft DSN Near @ 54.09 ft		
						52.09 ft
SDLT-10951315 360.00 lbs	SDLT Pad-10865873 65.00 lbs Microlog Pad-10951315 8.00 lbs RAM-Cs137-00005155 1.00 lbs	Ø 4.500 in Ø 4.500 in* Ø 4.750 in* Ø 0.800 in*		Microlog @ 44.28 ft SDL Caliper @ 44.09 ft SDL @ 44.08 ft	10.81 ft	



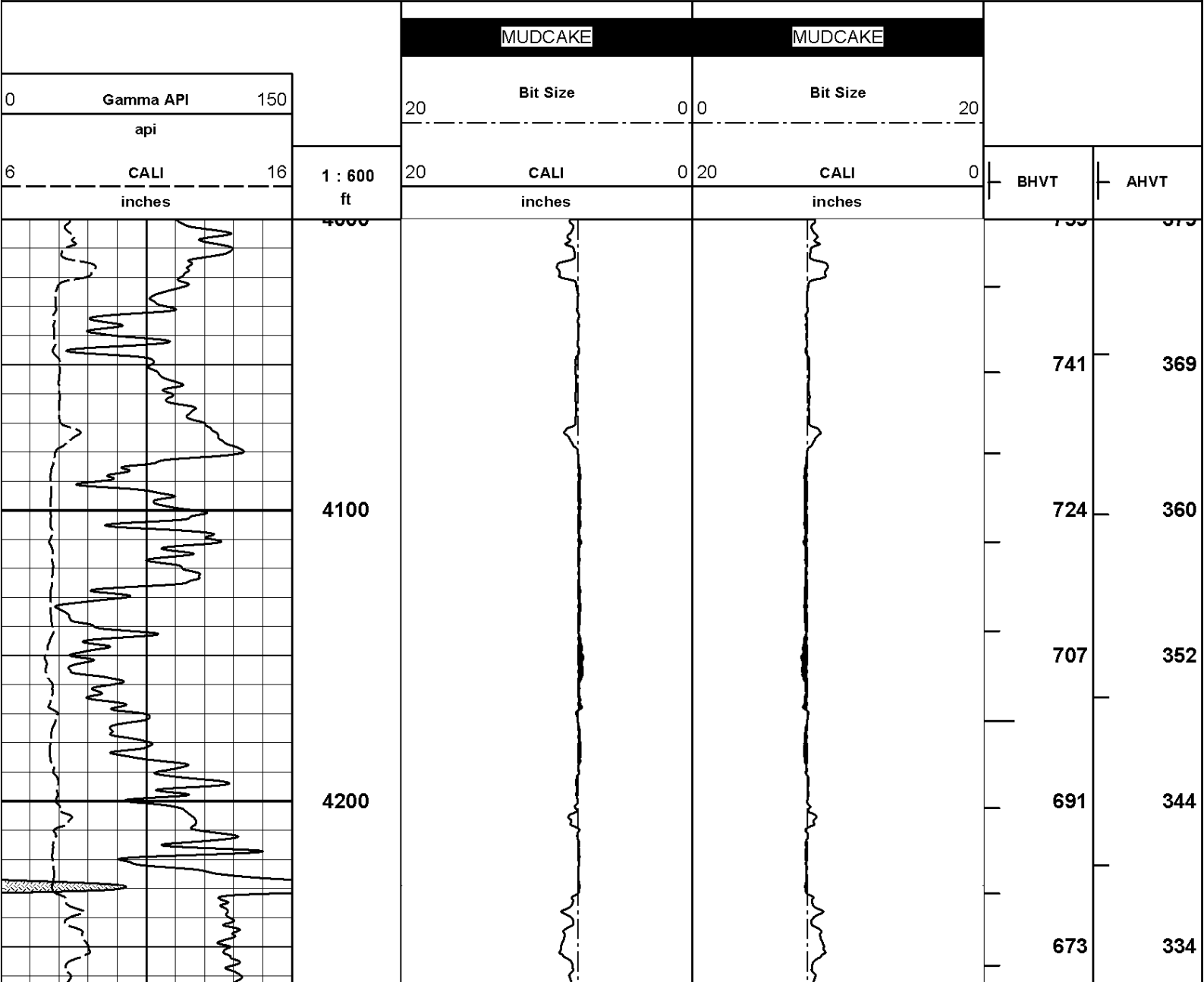
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_HOS_I	37.50	2.25	74.98	300.00
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	74.03	300.00
SP	SP Sub	10904995	60.00	3.74	70.30	300.00
GTET	Gamma Telemetry Tool	11021139	165.00	8.52	61.78	60.00
DSNT	Dual Spaced Neutron	11020487	174.00	9.69	52.09	60.00
DCNT	DSN Decentralizer	10993115	6.60	5.13	* 55.42	300.00
SDLT	Spectral Density Tool	10951315	360.00	10.81	41.28	60.00
SDLP	Density Insite Pad	10865873	65.00	2.55	* 43.49	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	00005155	1.00	0.80	* 43.72	300.00
MICP	Microlog Pad	10951315	8.00	1.00	* 43.78	60.00
IQF	IQ Flex tool	10973274	140.00	5.67	35.61	300.00

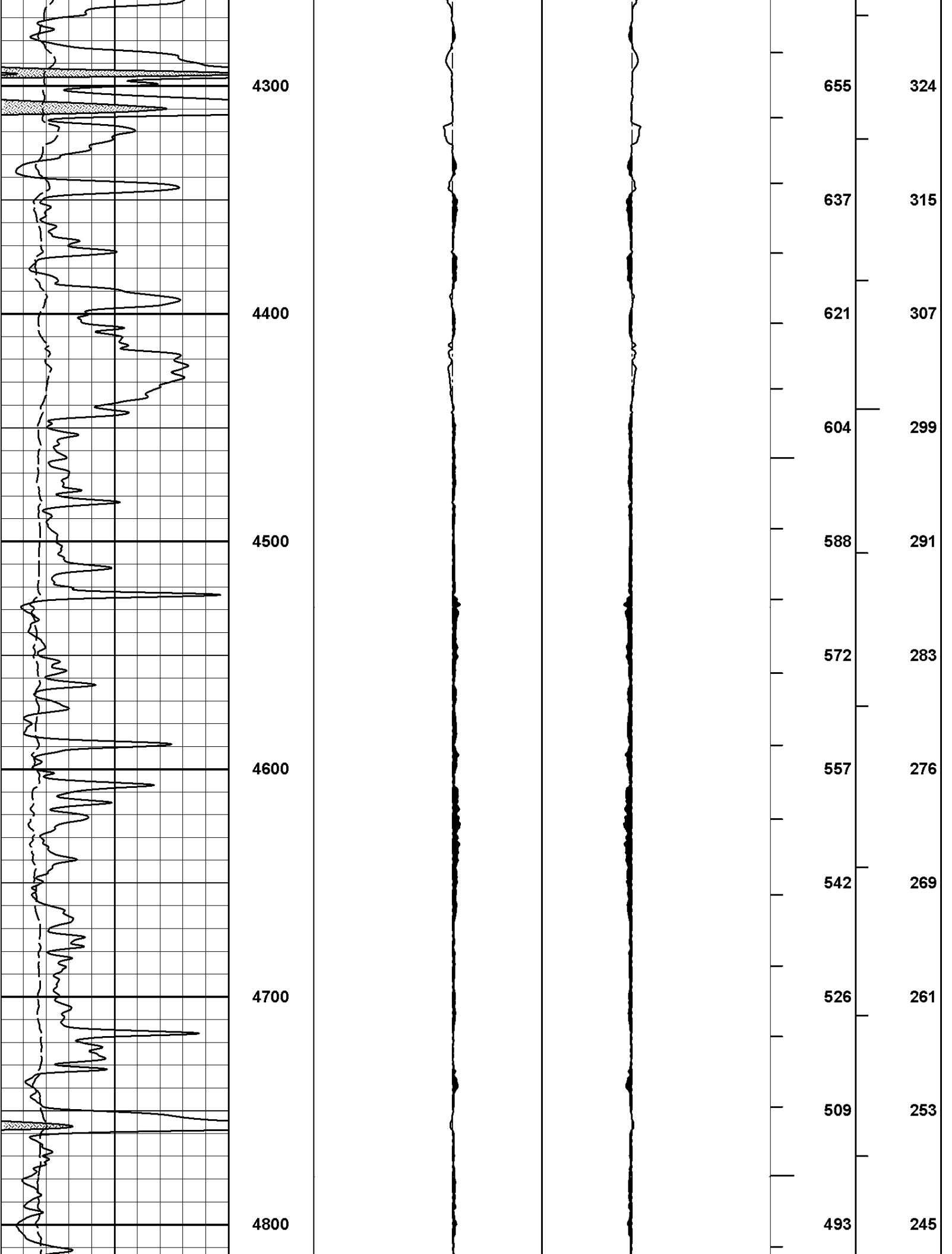
BSAT	Borehole Sonic Array Tool	10939049	300.00	15.77	19.83	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	32.31 300.00
ACRt	Array Compensated True Resistivity Instrument Section	10996989	50.00	5.03		14.80 120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	16.56 300.00
ACRt	Array Compensated True Resistivity Sonde Section	11000156	200.00	14.22		0.58 120.00
CBHD	Cabbage Head	00000001	10.00	0.58		0.00 300.00
Total			1,613.10	77.23		
* Not included in Total Length and Length Accumulation.						
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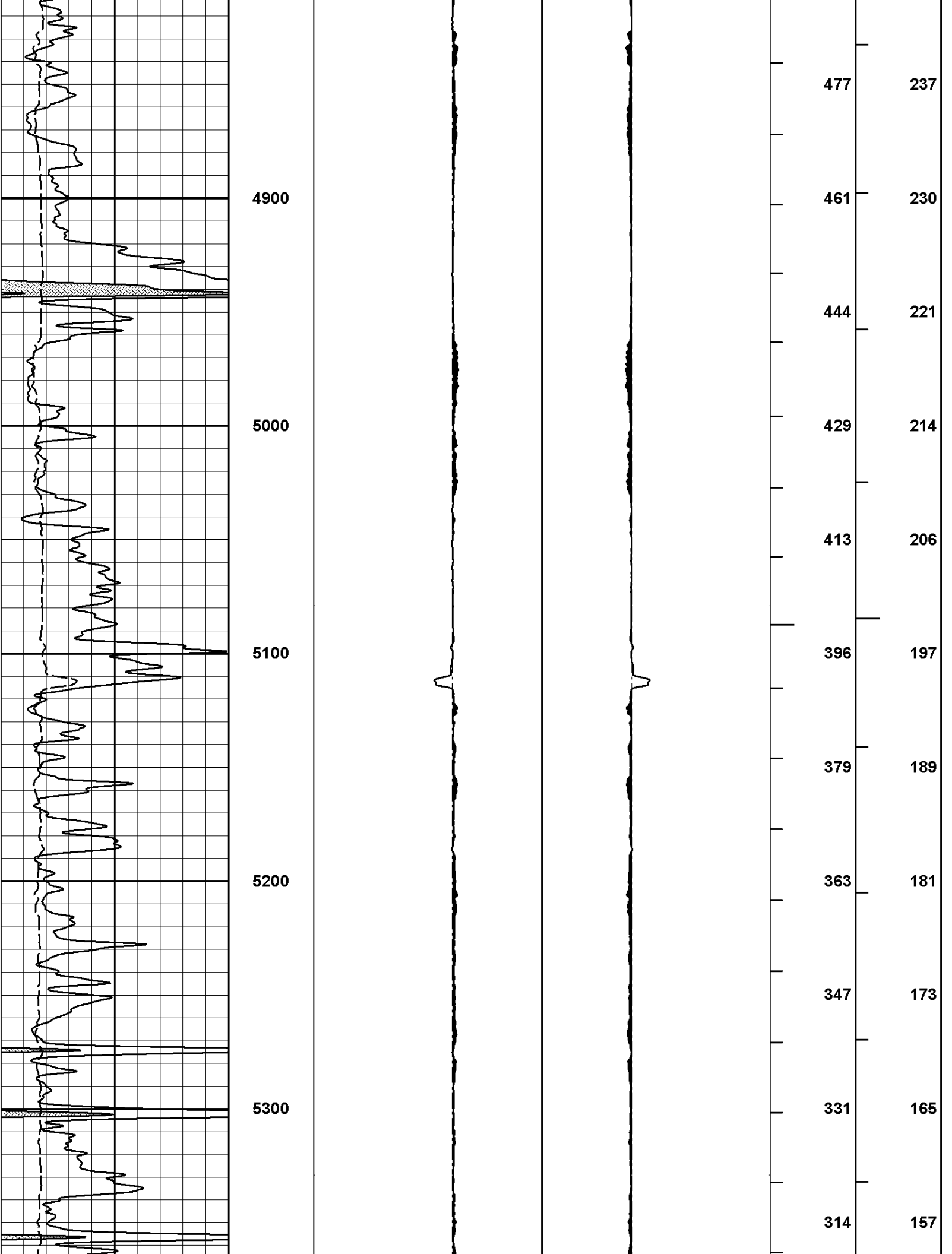
HALLIBURTON

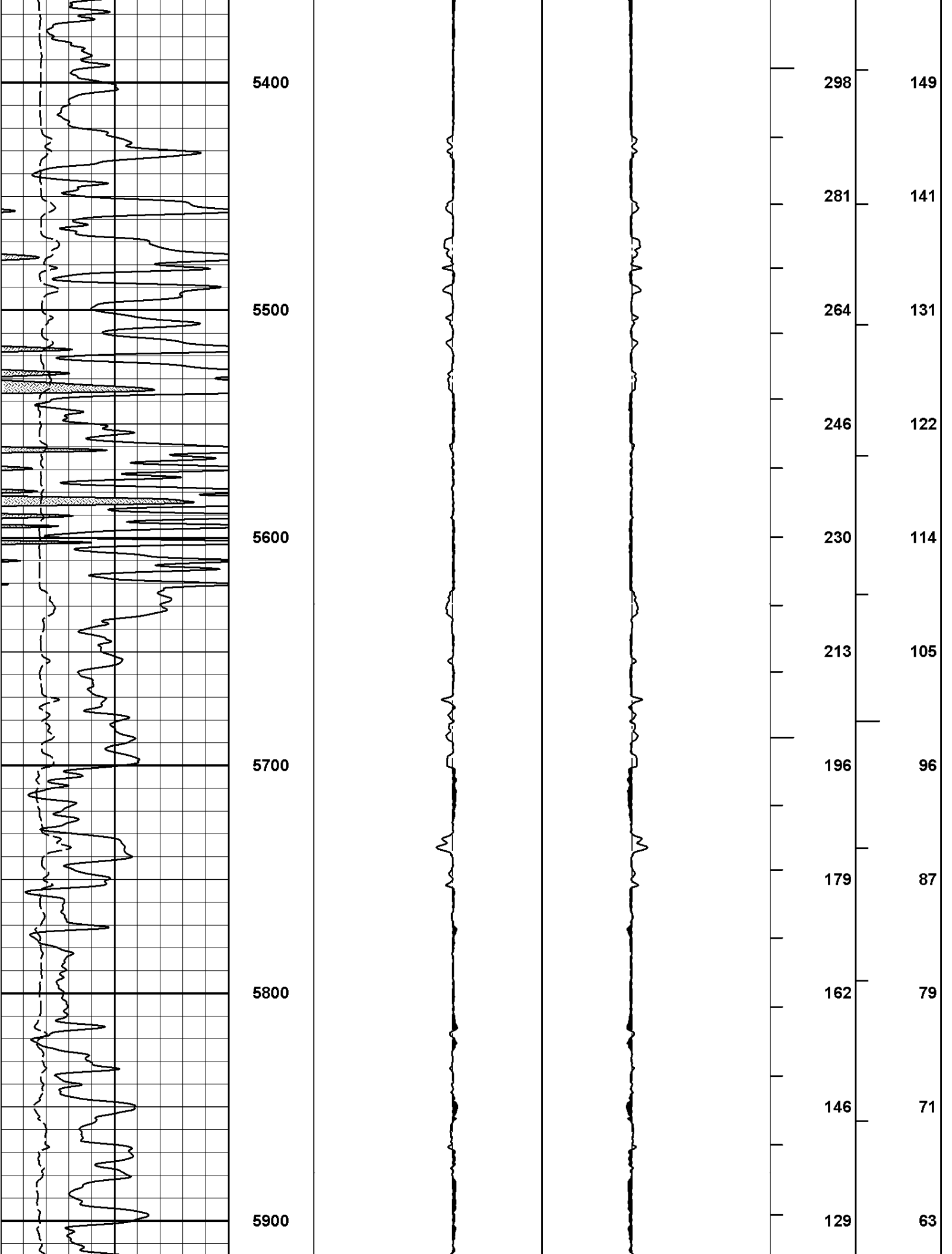
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ANNULAR HOLE VOLUME PLOT









ANNULAR HOLE VOLUME PLOT

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COMPANY	RAYDON EXPLORATION INC.		
WELL	PARITY 1-27		
FIELD	WILDCAT		
COUNTY	SEWARD	STATE	KANSAS
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON LOG	