HALLIBURTON

MICROLOG

COMPANY **OXY USA INC**

WELL **EDWARDS B-1**

FIELD **BIG BOW WEST**

COUNTY **STANTON** STATE **KANSAS**

COMPANY OXY USA INC
WELL EDWARDS B-1
FIELD BIG BOW WEST
COUNTY STANTON
STATE KANSAS

API No. 15187212220000
Location (SHL) 879' FNL & 572' FEL

Other Services:
SDLT
DSNT
BSAT
ACRT

Sect. 33 Twp. 29S Rge. 39W

Permanent Datum	GL	Elev. 3197.0 ft	Elev.: K.B. 3208.0 ft
Log measured from	KB	, 11.0 ft above perm. Datum	D.F. 3208.0 ft
Drilling measured from	KB		G.L. 3197.0 ft

Date		13-Apr-13					
Run No.		ONE					
Depth - Driller		6000.00 ft					
Depth - Logger		5966.0 ft					
Bottom - Logged Interval		5966 ft					
Top - Logged Interval		3700 ft					
Casing - Driller		8.625 in @ 1798.0 ft		@		@	
Casing - Logger		1797.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		WATER BASED					
Density	Viscosity	9.2 ppg	45.00 s/qt				
PH	Fluid Loss	10.70 pH	9.6 cptm				
Source of Sample		FLOW LINE					
Rm @ Meas. Temperature		1.140 ohmm @ 85.00 degF		@		@	
Rmf @ Meas. Temperature		0.96 ohmm @ 70.00 degF		@		@	
Rmc @ Meas. Temperature		1.420 ohmm @ 70.00 degF		@		@	
Source Rmf	Rmc	MEASURED	MEASURED				
Rm @ BHT		0.80 ohmm @ 124.0 degF		@		@	
Time Since Circulation		8.0 hr					
Time on Bottom		13-Apr-13 18:11					
Max. Rec. Temperature		124.0 degF @ 5966.0 ft		@		@	
Equipment	Location	10549592	PVOK				
Recorded By		JEREMY COTHREN					
Witnessed By		ROBERT WEBSTER					

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Service Ticket No.: 900357203 API Serial No.: 15187212220000 PGM Version: WL INSITE R3.6.0 (Build 3)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

RESISTIVITY SCALE CHANGES

	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Date					
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp		@	@	@	@
Rmf @ Meas. Temp.		@	@	@	@
Rmc @ Meas. Temp.		@	@	@	@
Source Rmf	Rmc				
Rm @ BHT		@	@	@	@
Rmf @ BHT		@	@	@	@
Rmc @ BHT		@	@	@	@

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Run No.					
Serial No.					
Model No.					
Diameter					
Log Type					
Source Type					
Serial No.					
Strength					

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	113	Serial No.		Serial No.		Serial No.	
Model No.	GTET	Model No.		Model No.		Model No.	
Diameter	3.625"	No. of Cent.		Diameter		Diameter	
Detector Model No.	A-102	Spacing		Log Type		Log Type	
Type	SCINT.	Source Type		Source Type		Source Type	
Length	8"	LSA [Y/N]		Serial No.		Serial No.	
Distance to Source	10'	FWDA [Y/N]		Strength		Strength	

LOGGING DATA

GENERAL GAMMA ACOUSTIC DENSITY NEUTRON

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									

DIRECTIONAL INFORMATION

Maximum Deviation @	KOP @

Remarks: THANKS FOR USING HALLIBURTON LOGGING SERVICES.

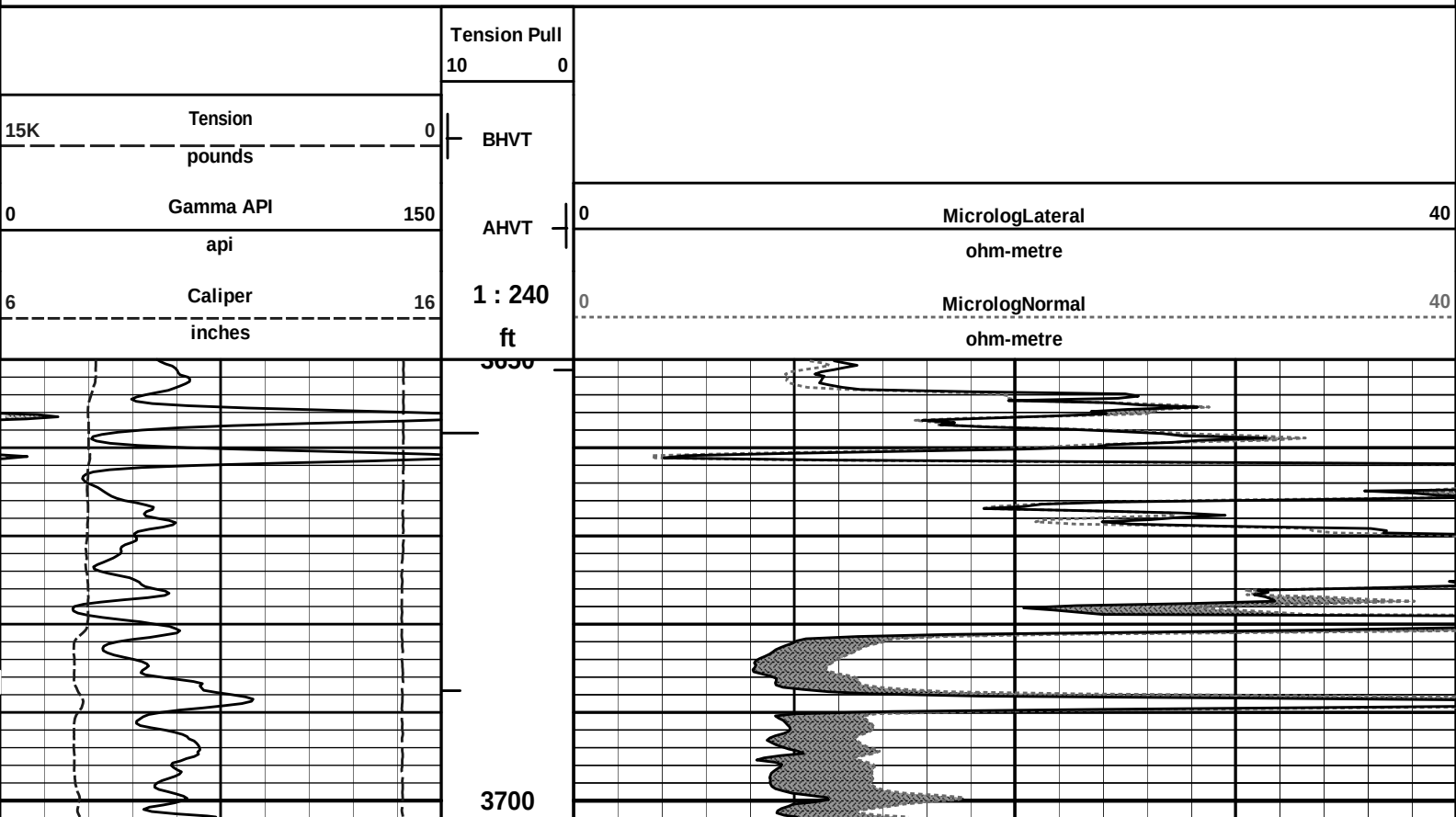
ANNULAR HOLE VOLUME CALCULATED FOE 5.5" CASING.

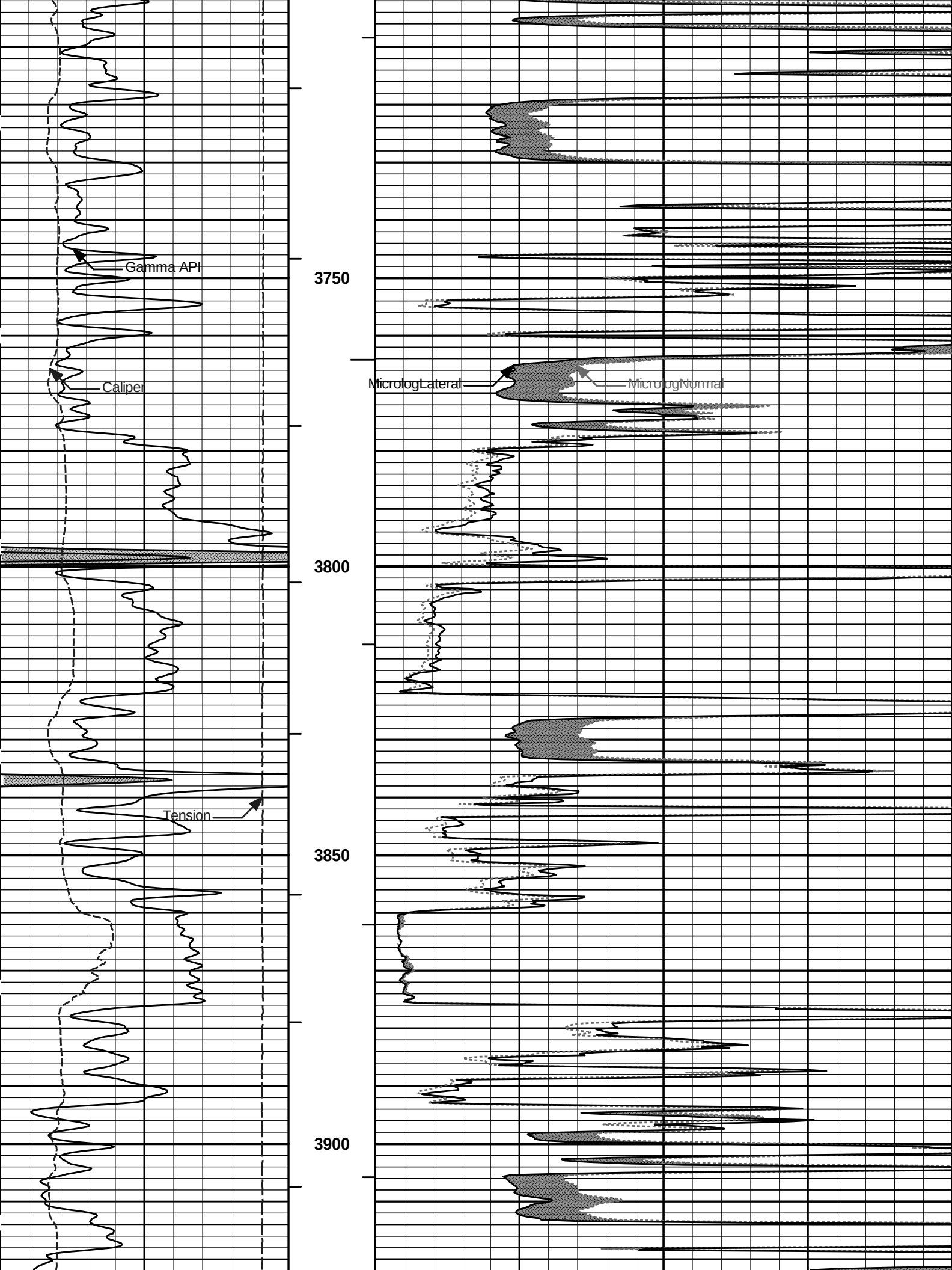
CHLORIDES REPORTED AT 2000 ppm.

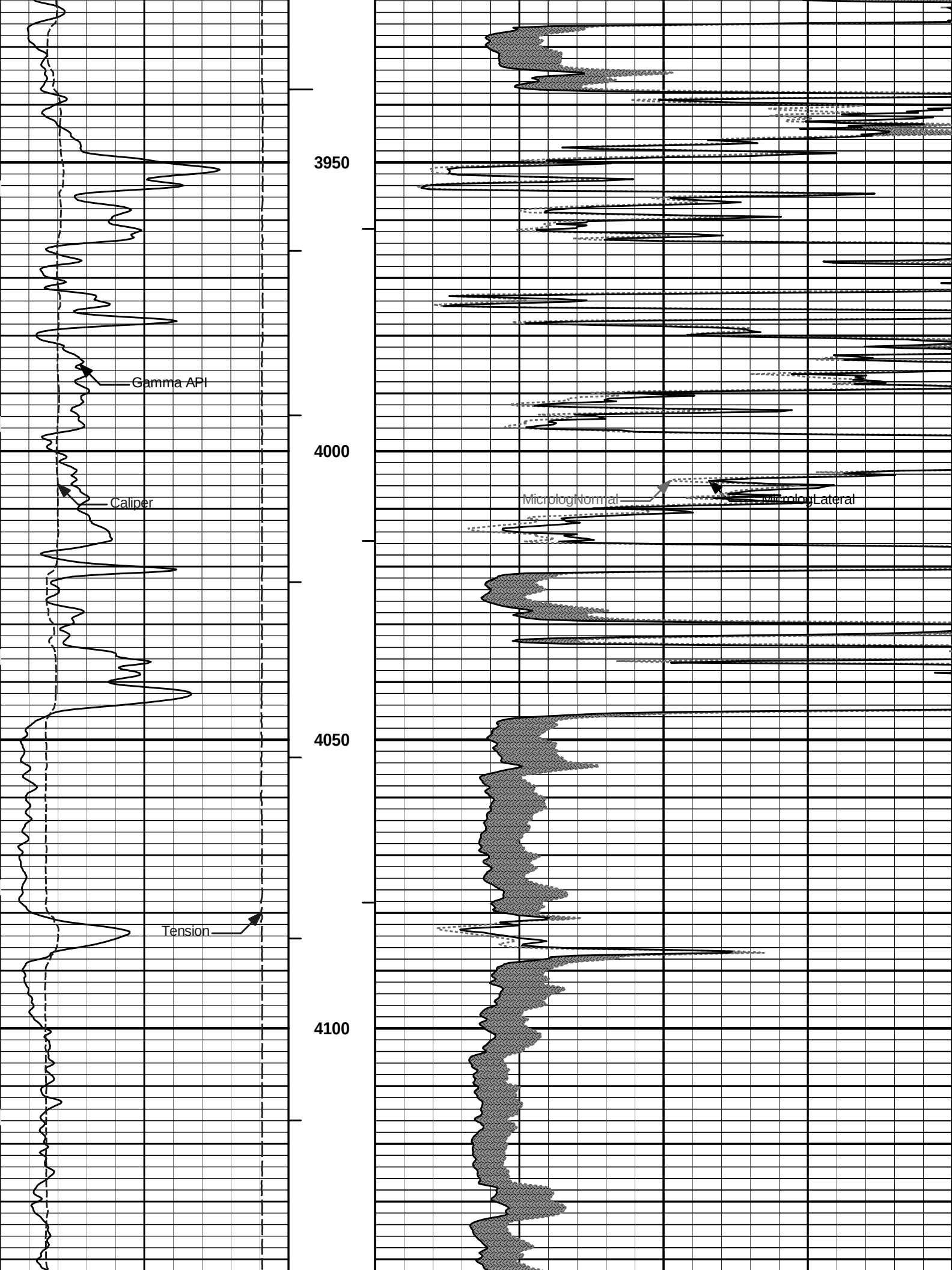
HALLIBURTON

Plot Time: 13-Apr-13 22:51:37
Plot Range: 3650 ft to 5970.08 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003
Plot File: \\MICROLOG\1_Micro_5_MAIN

5 INCH MAIN LOG




Gamma API
Caliper
Tension
3750
3800
3850
3900
MicrologLateral
MicrologNormal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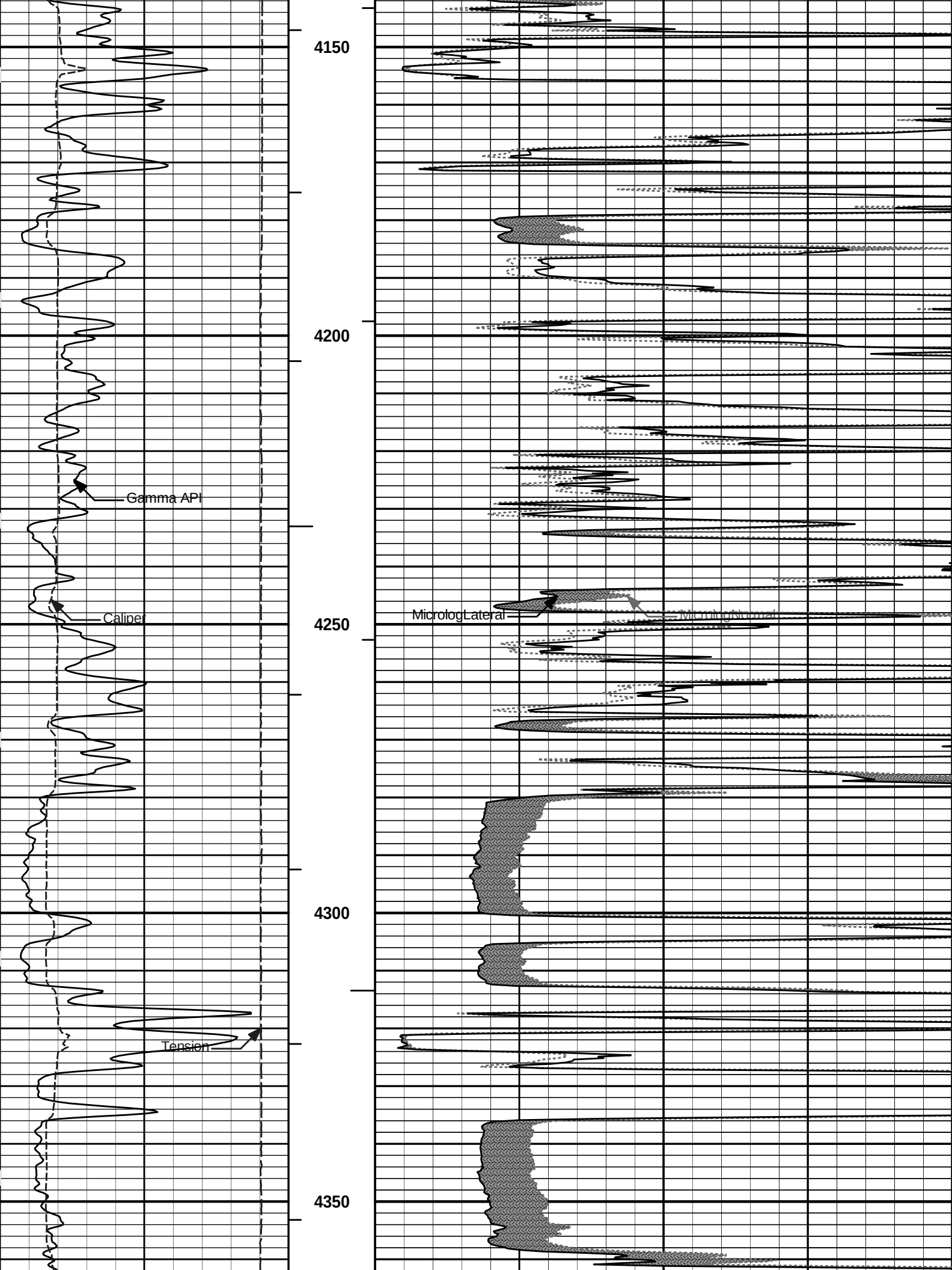
4050
4100
Gamma API
Caliper
Tension
MicrologNormal
MicrologLateral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Tension
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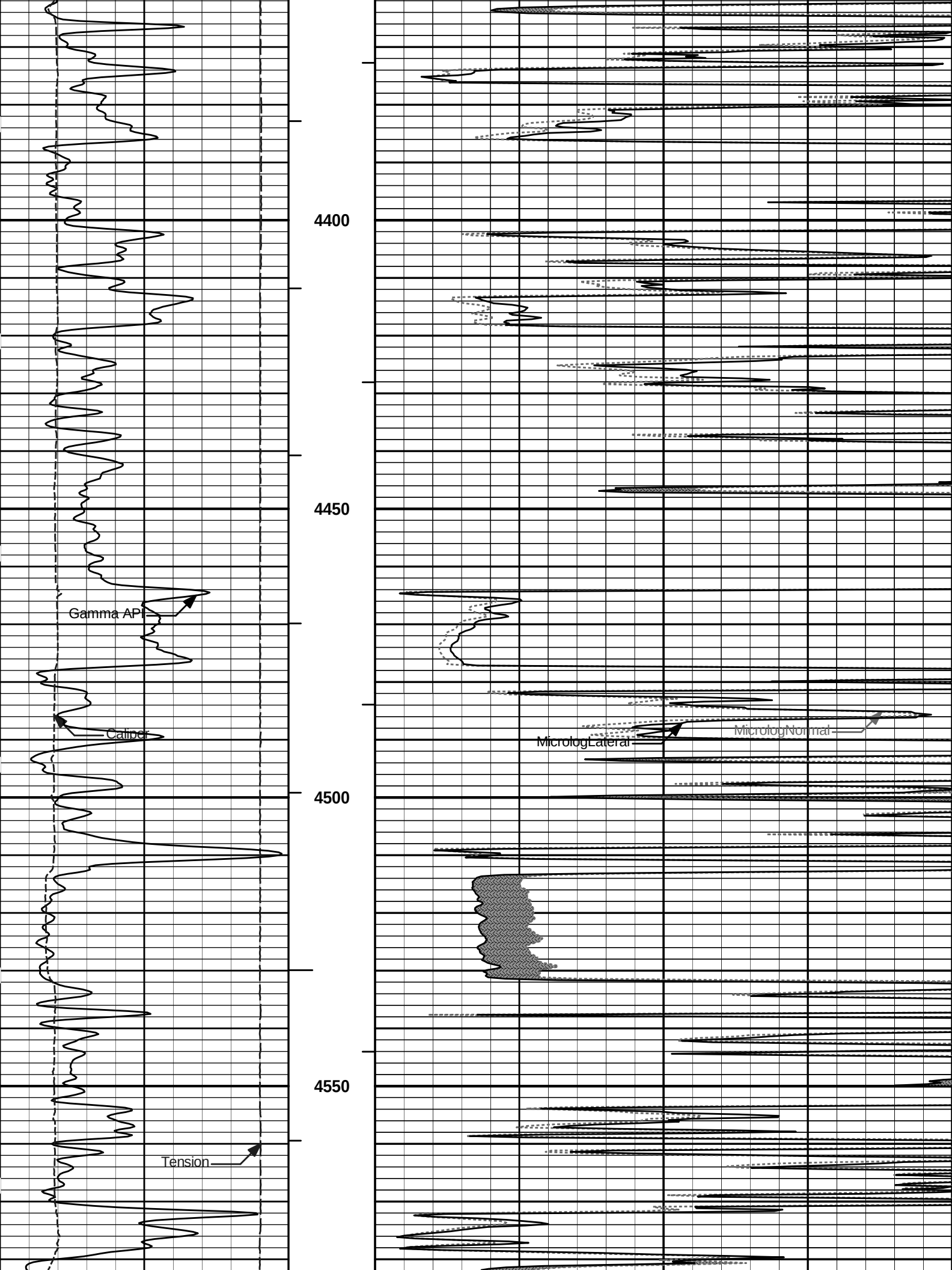
MicrologNormal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4550
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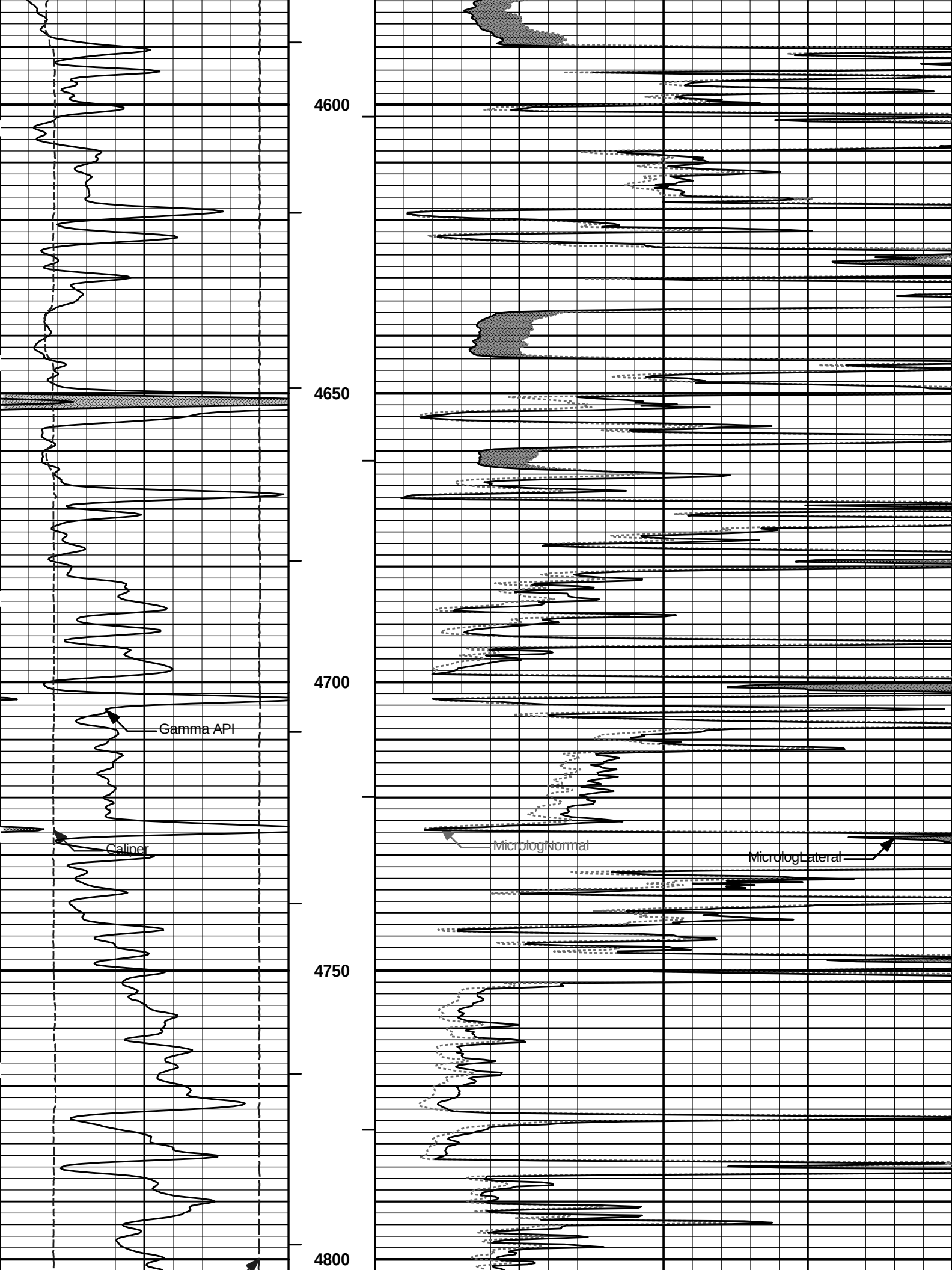
Caliper
Tension
MicrologLateral
MicrologNormal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4750
4800
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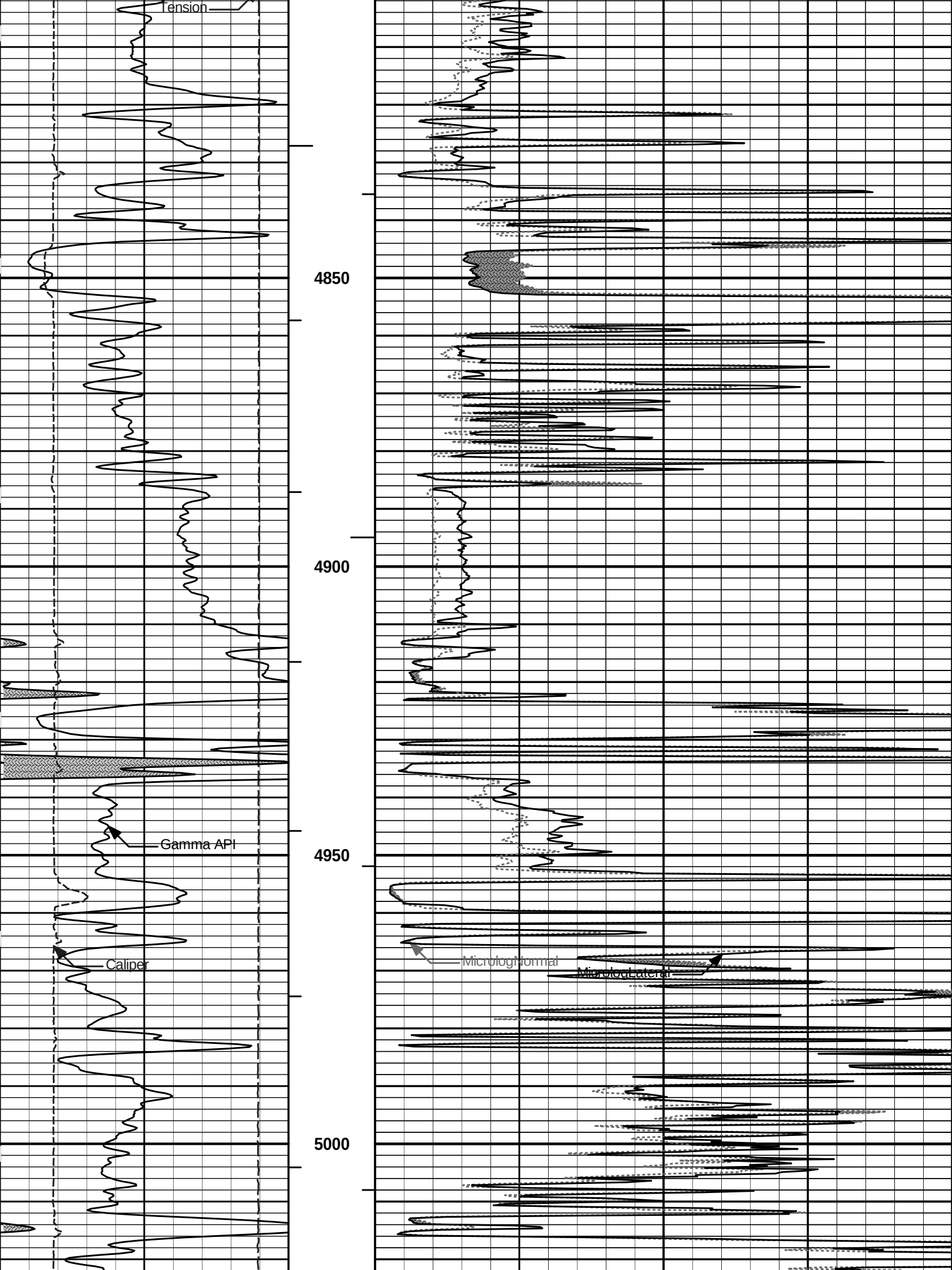
Caliper
MicrologNormal
MicrologLateral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Gamma API
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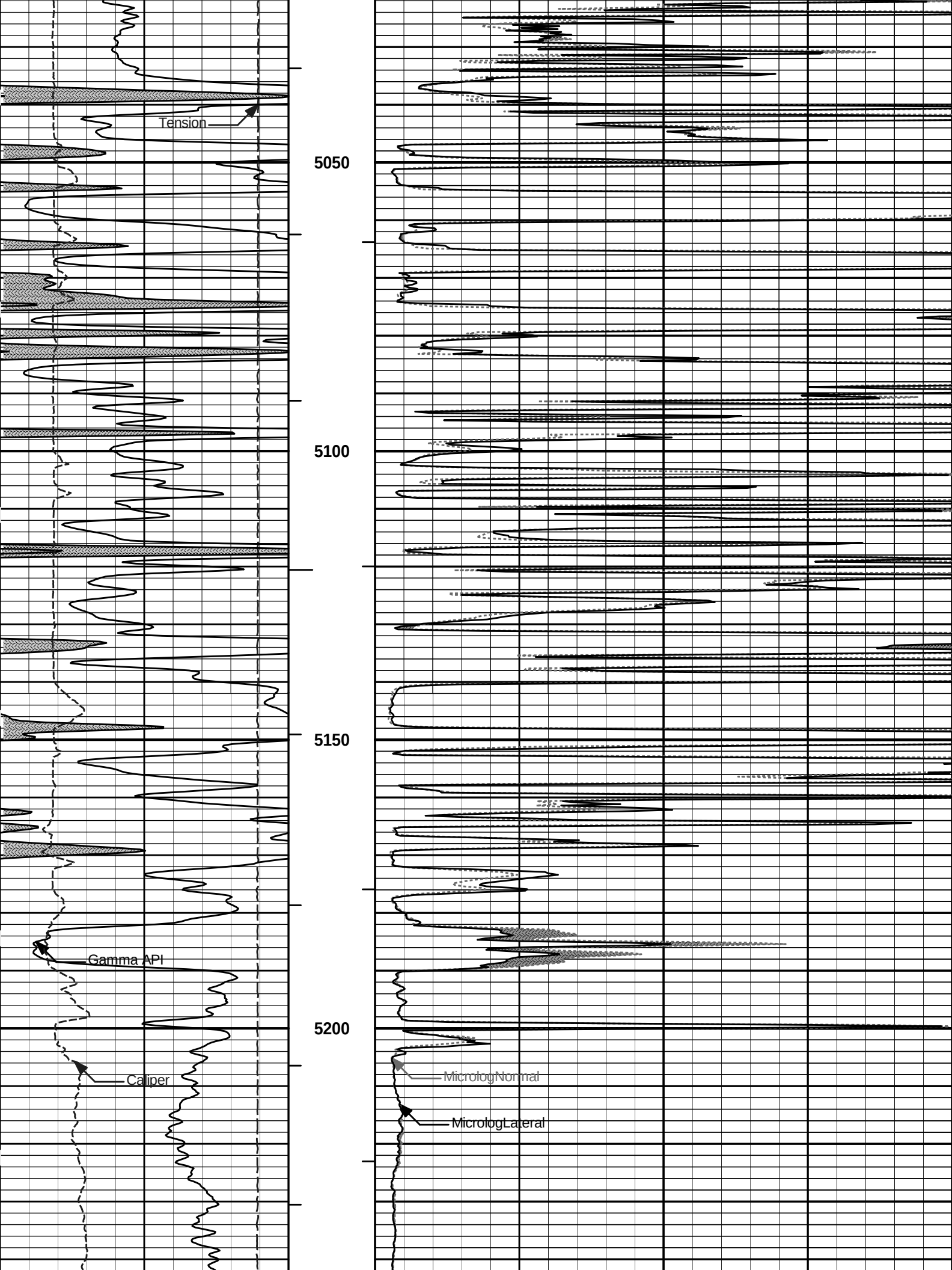
Caliper
MicrologNormal
MicrologLateral
5000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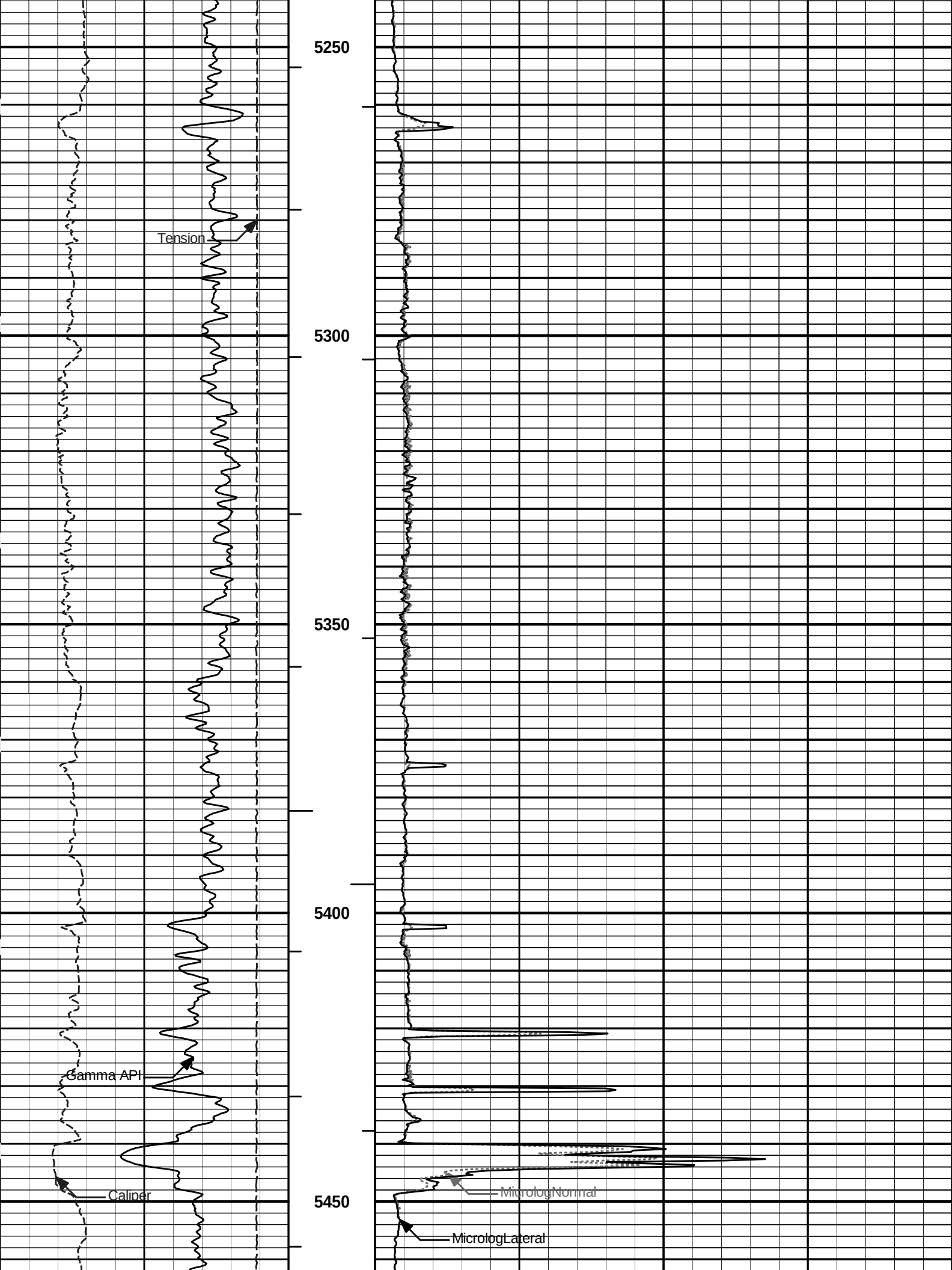
Gamma API
5200
Caliper
MicrologNormal
MicrologLateral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5300
5350
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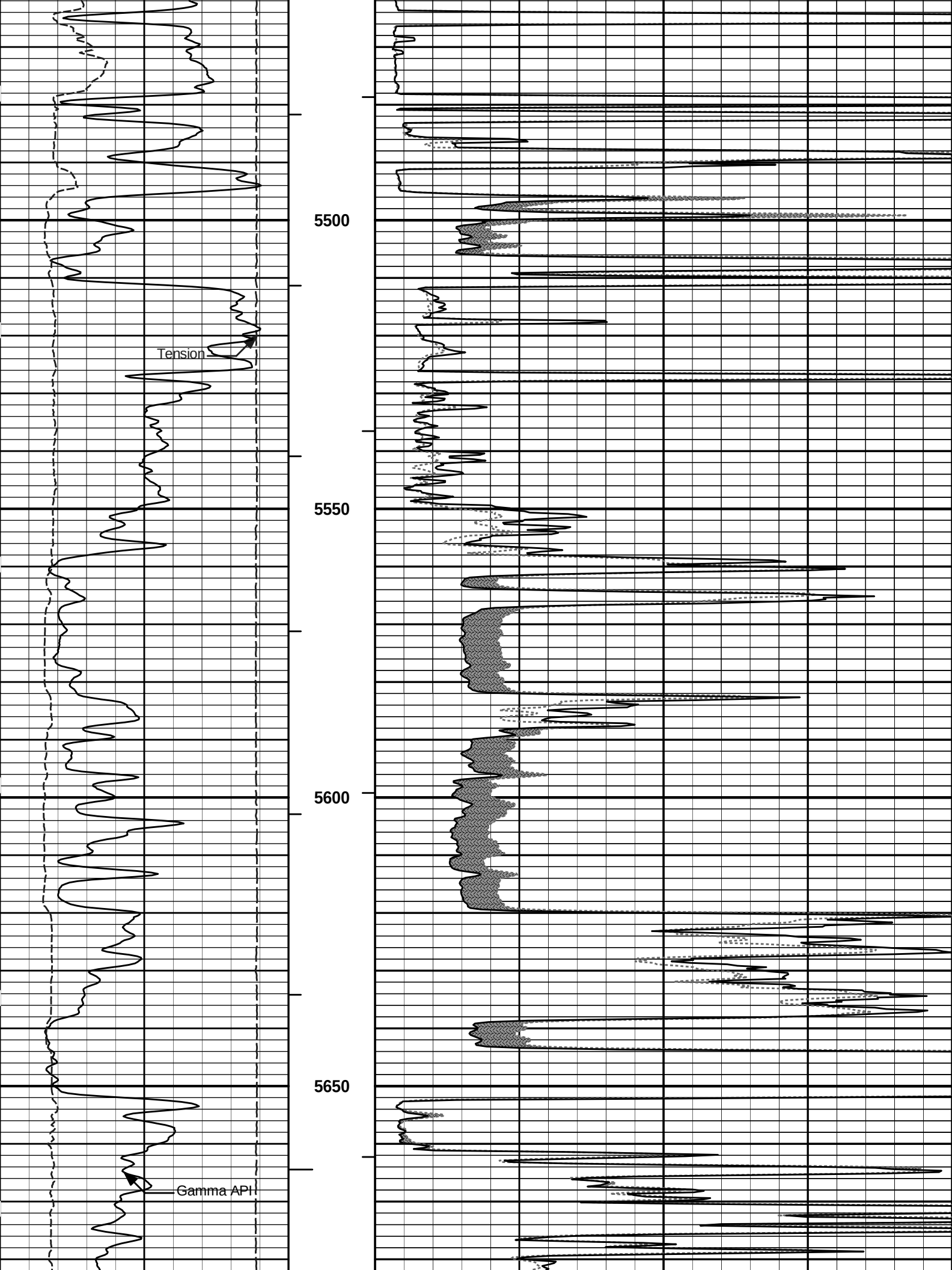
5450
Tension
Gamma API
Caliper
MicrologNormal
MicrologLateral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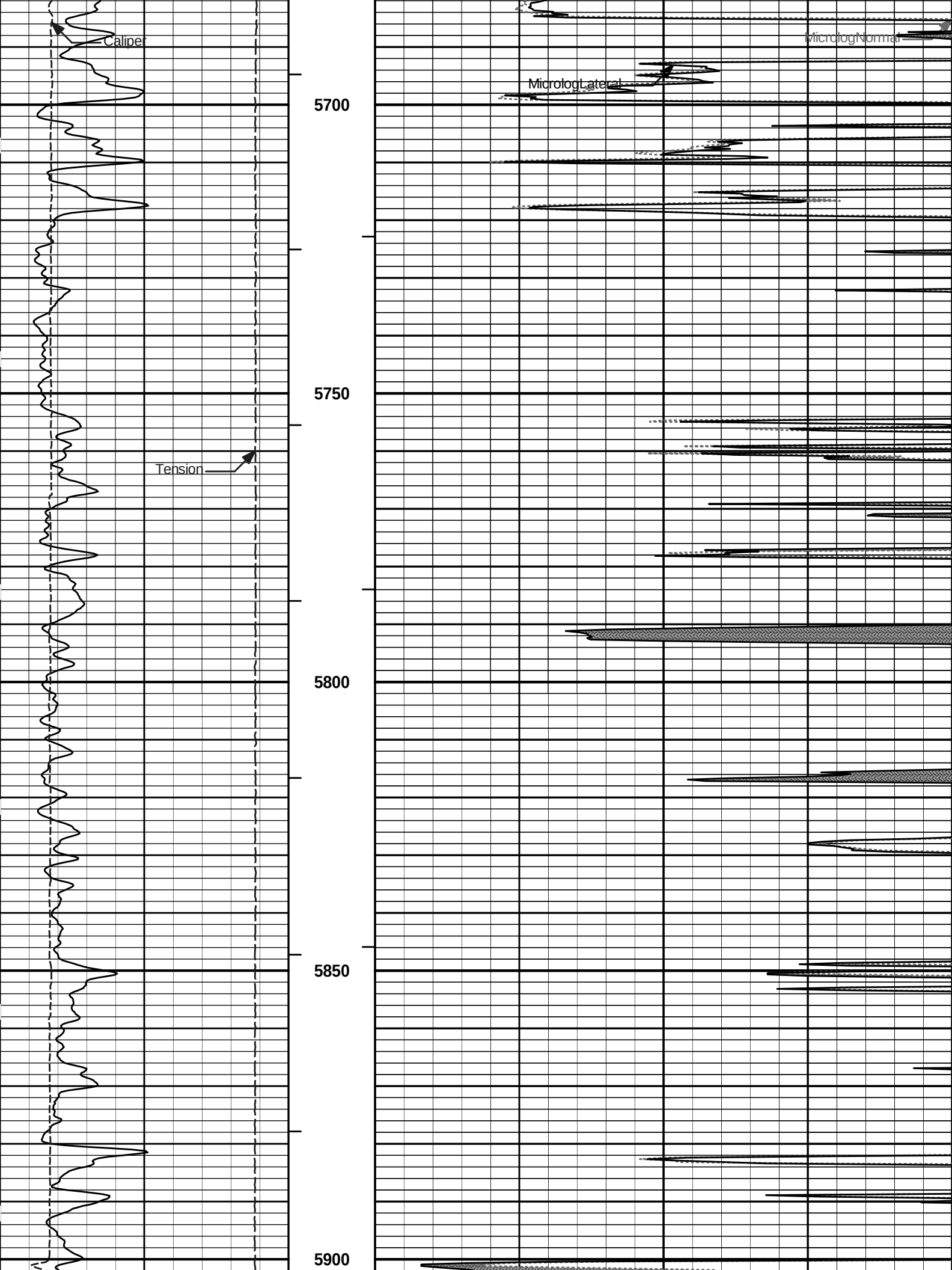
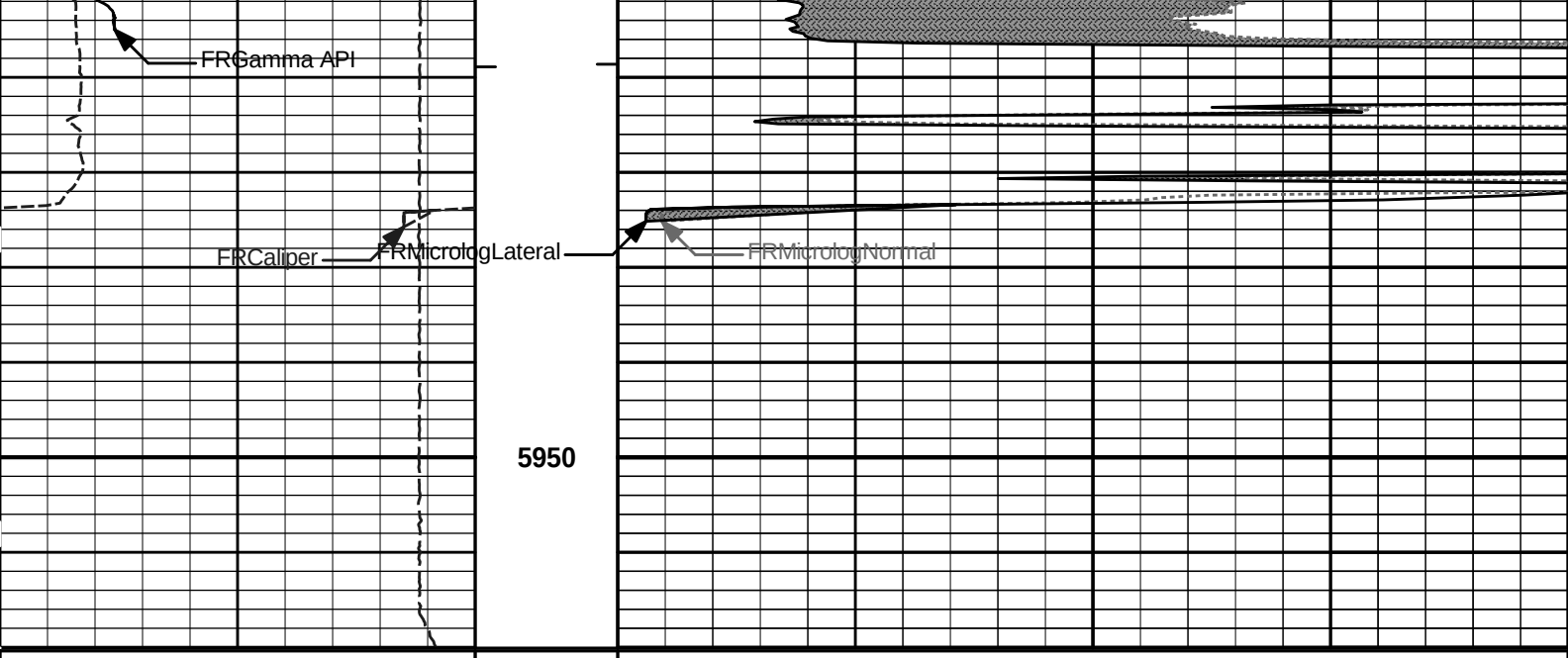
5550
5600
5650
Tension
Gamma API


Caliper
Tension
MicrologNormal
MicrologLateral
5700
5750
5800
5850
5900



6 Caliper 16 inches	1 : 240 ft	0 MicrologNormal 40 ohm-metre
0 Gamma API 150 api	AHVT	0 MicrologLateral 40 ohm-metre
15K Tension 0 pounds	BHVT	
	Tension Pull 10 0	

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Plot Time: 13-Apr-13 22:51:42
Plot Range: 3650 ft to 5970.08 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003\
Plot File: \\MICROLOG\1_Micro_5_MAIN

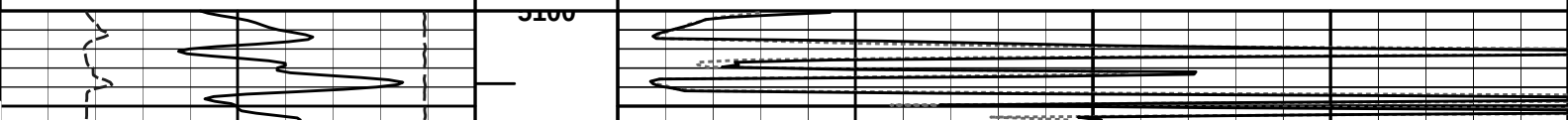
5 INCH MAIN LOG

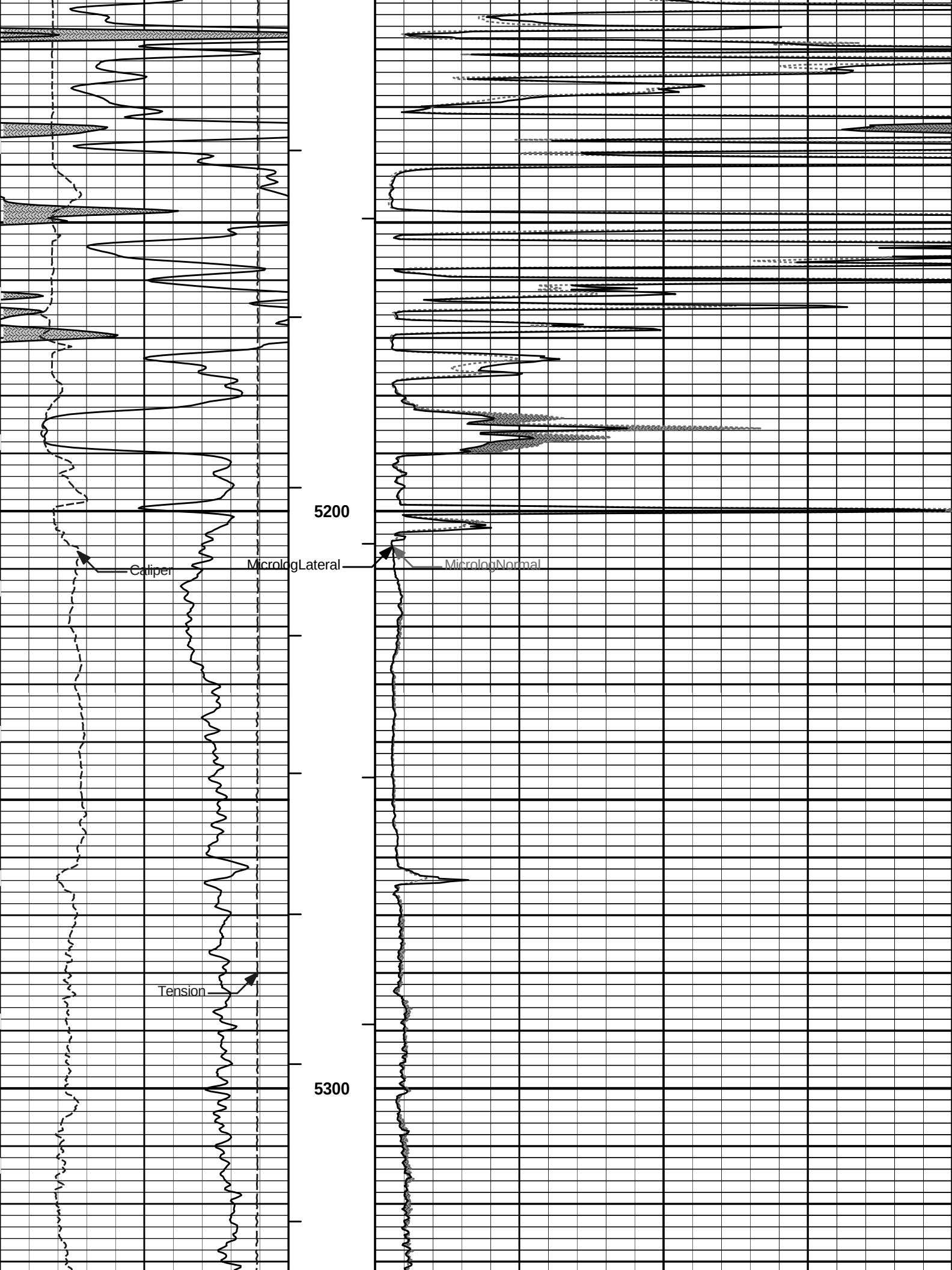
HALLIBURTON

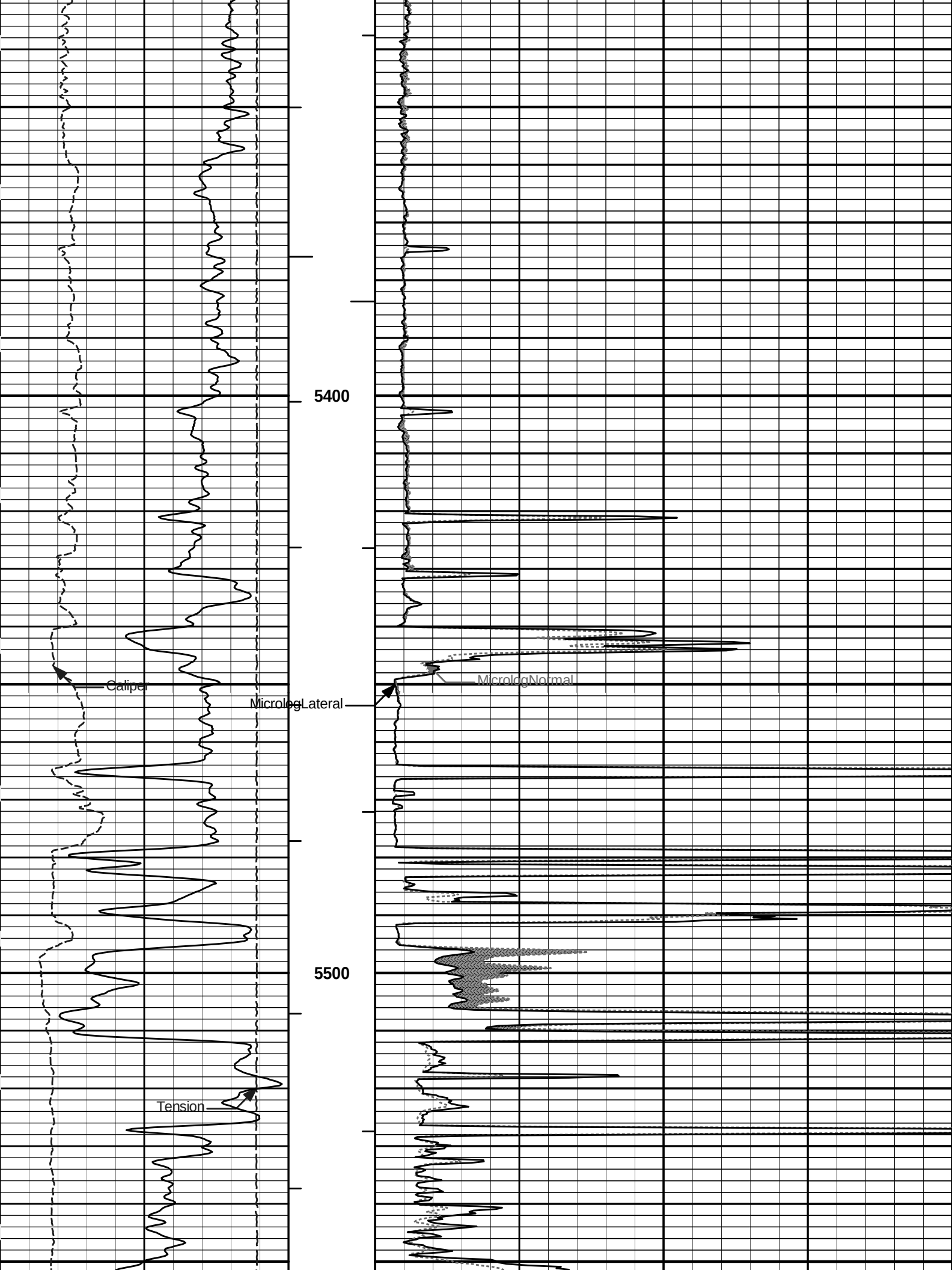
Plot Time: 13-Apr-13 22:51:42
Plot Range: 5100 ft to 5971.33 ft
Data: {ActiveWell}\Well Based\DAQ-0001-002\
Plot File: \\MICROLOG\1_Micro_5_RPT

REPEAT SECTION

	Tension Pull 10 0	
15K Tension 0 pounds	BHVT	
0 Gamma API 150 api	AHVT	0 MicrologLateral 40 ohm-metre
6 Caliper 16 inches	1 : 240 ft	0 MicrologNormal 40 ohm-metre




5200
Caliper
MicrologLateral
MicrologNormal
Tension
5300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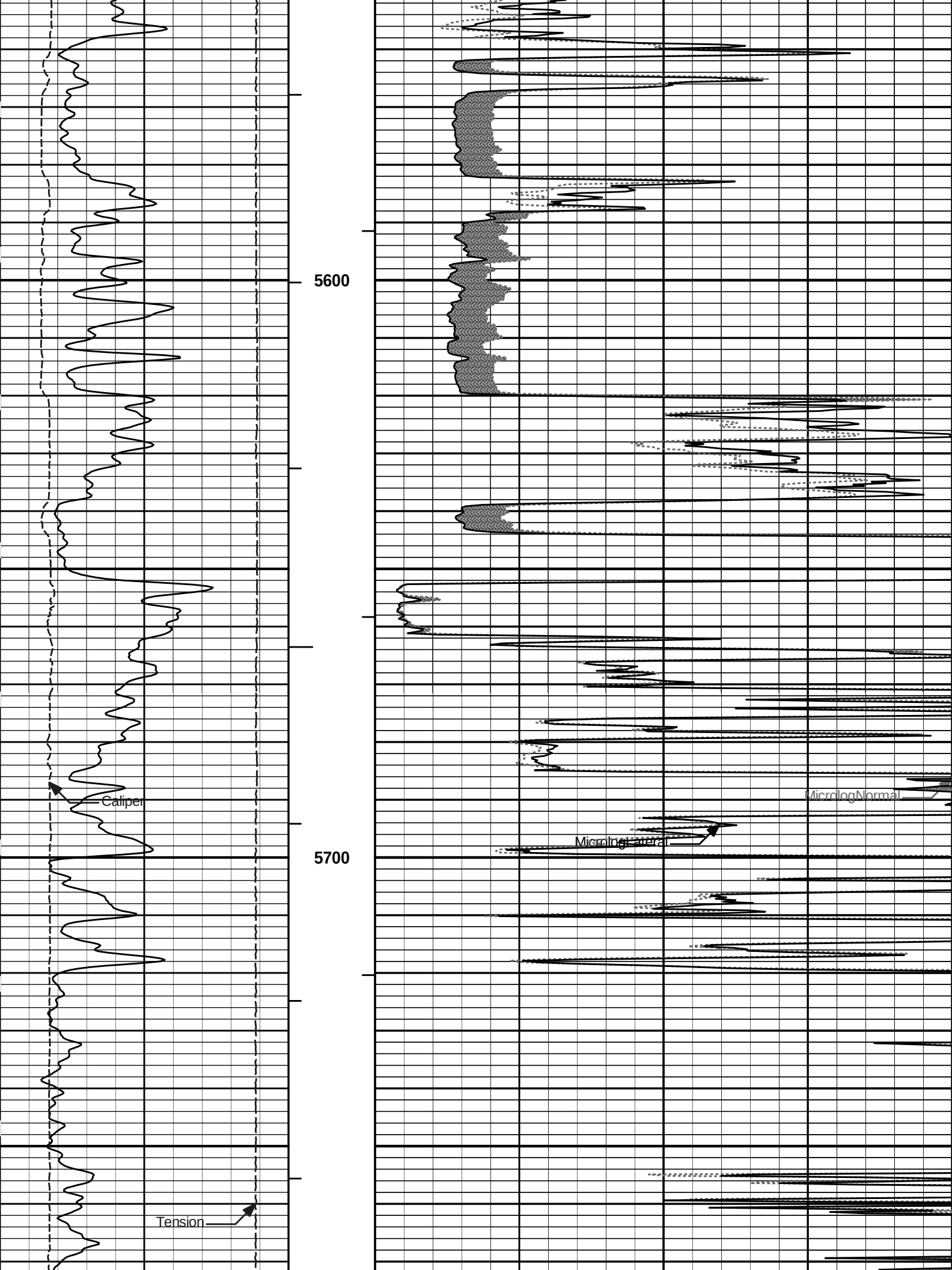
Caliper
MicrologLateral
MicrologNormal
Tension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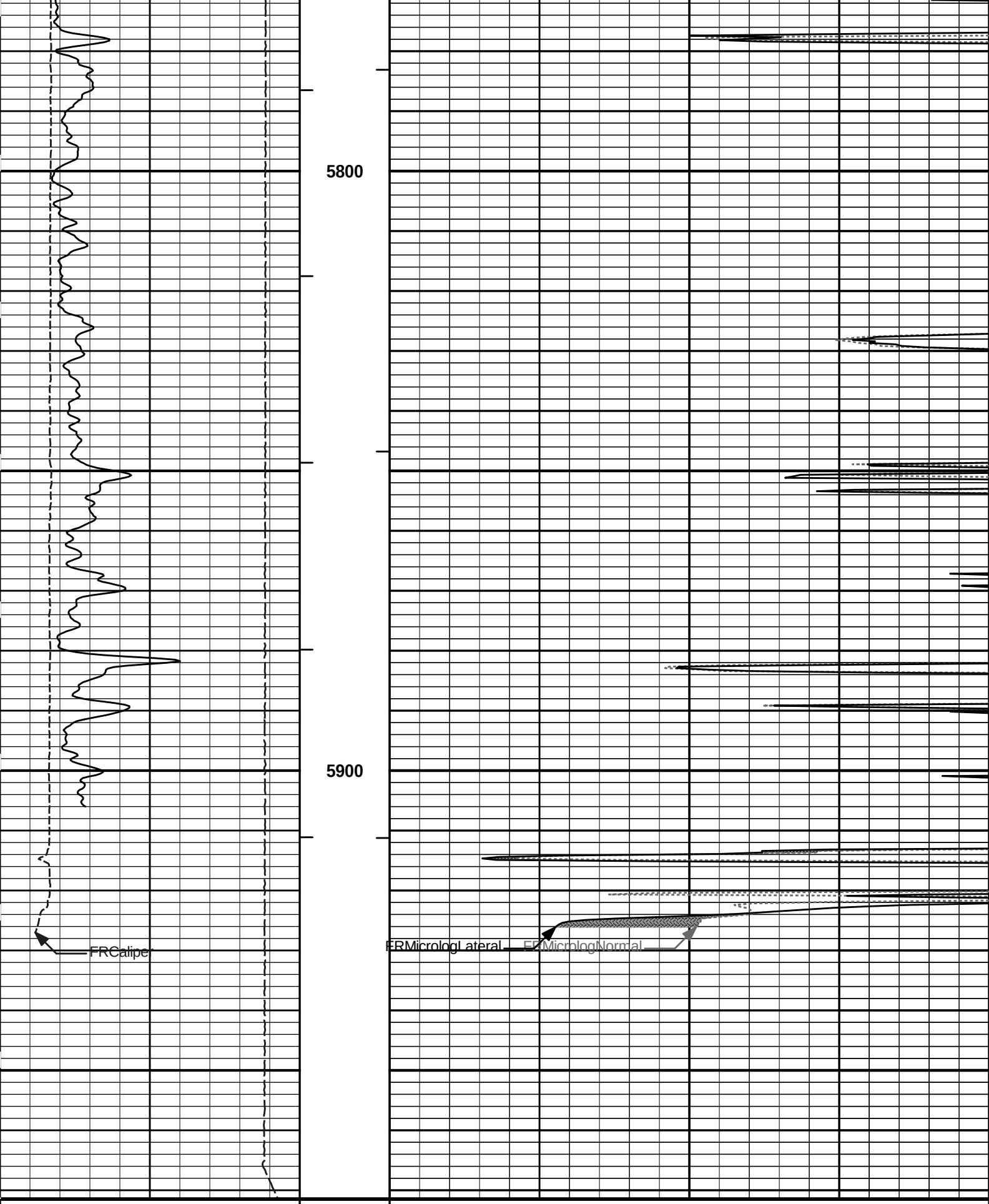
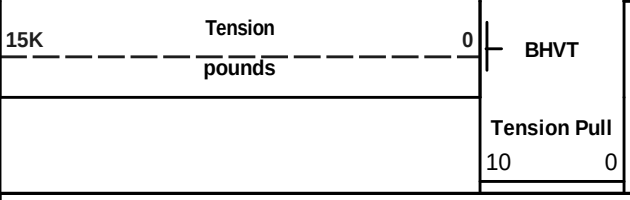
Caliper
MicrologNormal
Tension



6 Caliper 16	1 : 240	0 MicrologNormal 40
inches	ft	ohm-metre
0 Gamma API 150	AHVT	0 MicrologLateral 40
api		ohm-metre



HALLIBURTON

Plot Time: 13-Apr-13 22:51:45
Plot Range: 5100 ft to 5971.33 ft
Data: {ActiveWell}\Well Based\DAQ-0001-002\
Plot File: \\MICROLOG\1_Micro_5_RPT

REPEAT SECTION

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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	9.200	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	2000.00	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	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	6000.00	ft
	SHARED	BHT	Bottom Hole Temperature	110.0	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	
	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	
	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	

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	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	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	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
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 Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.5	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	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	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm

BOTTOM

Data: EDWARDS_B_1\0001 BLACK_TRIPLE\IDLE **Date: 13-Apr-13 18:27:07**

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 11013113**	**Reference Calibration Date:**	**12-Nov-12 00:44:16**
Engineer:	**CORY HANSON**	**Calibration Date:**	**10-Apr-13 12:26:20**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Calibrator Source S/N: 150

Calibrator API Reference:225.00 api

Equivalent Calibrator API Reference:228.9 api

Measurement	Measured	Calibrated	Units
Background	29.8	29.8	api
Background + Calibrator	258.9	258.7	api
Calibrator	229.1	228.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 11013113**	**Reference Calibration Date:**	**10-Apr-13 12:26:20**
Engineer:	**JEREMY COTHREN**	**Calibration Date:**	**13-Apr-13 18:01:14**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Calibrator Source S/N: 150

Calibrator API Reference:225.00 api

Equivalent Calibrator API Reference:228.9 api

Field Verification	Shop	Field	Units
Background	29.8	25.1	api
Background + Calibrator	258.7	246.5	api
Calibrator	228.9	221.3	api

Shop	Field	Difference	Tolerance
228.9	221.3	7.6	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 10993115**	**Reference Calibration Date:**	**15-Dec-12 11:10:22**
Engineer:	**JEREMY COTHREN**	**Calibration Date:**	**23-Jan-13 10:41:50**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Logging Source S/N: DSN 382

Tank Serial Number: PV

Reference value assigned to Tank: 56.100

Snow Block S/N: 592

Calibration Tank Water Temperature: 55 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	**Prev. Value**	**New Value**	**Control Limit On New Value**
Gain:	0.993	0.991	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):	0.2361	0.2358	0.0004	+/- 0.0020
Calibrated Ratio:	10.57	10.56	0.013	+/- 0.050

VERIFIER		
Measurement	**Value**	**Control Limit**
Snow-Block Porosity (decp):	0.0827	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 - 10993115**	**Reference Calibration Date:**	**23-Jan-13 10:41:50**
Engineer:	**JEREMY COTHREN**	**Calibration Date:**	**13-Apr-13 18:07:01**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Logging Source S/N: DSN 382

Snow Block S/N: 592

Snow Block S/N: 392

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0827	0.0855	0.0028	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10960494 **Reference Calibration Date:** 10-Apr-13 14:06:08

Engineer: CORY HANSON **Calibration Date:** 10-Apr-13 14:07:36

Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1

Host Tool Name: DSNT - 10993115

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3074.26	-3038.52	-7000.00 - -1000.00
Pad Gain	0.0003797	0.0003765	0.000200 - 0.000600
Arm Offset	-722.38	-772.81	-5000.00 - 3000.00
Arm Gain	0.0005114	0.0005132	0.000300 - 0.000700
Arm Power	-0.000004650	-0.000004767	-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)	3.77	3.75	-0.02	+/- 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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10865873 **Reference Calibration Date:** 15-Dec-12 10:11:58

Engineer: JEREMY COTHREN **Calibration Date:** 23-Jan-13 11:36:30

Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1

Logging Source S/N: 20791B

Aluminum Block S/N: pv Density: 2.584g/cc Pe: 3.140

Magnesium Block S/N: PV Density: 1.683g/cc Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit

Near Bar Gain	1.0027	0.9827	0.90 - 1.10
Near Dens Gain	1.0013	0.9895	0.90 - 1.10
Near Peak Gain	0.9823	0.9714	0.90 - 1.10
Near Lith Gain	0.9688	0.9506	0.90 - 1.10
Far Bar Gain	0.9965	0.9925	0.90 - 1.10
Far Dens Gain	0.9871	0.9836	0.90 - 1.10
Far Peak Gain	0.9817	0.9789	0.90 - 1.10
Far Lith Gain	0.9632	0.9653	0.90 - 1.10
Near Bar Offset	0.1326	0.3137	NONE
Near Dens Offset	0.1344	0.2340	NONE
Near Peak Offset	0.2737	0.3585	NONE
Near Lith Offset	0.3791	0.5200	NONE
Far Bar Offset	0.1332	0.1705	NONE
Far Dens Offset	0.2104	0.2418	NONE
Far Peak Offset	0.2362	0.2586	NONE
Far Lith Offset	0.3708	0.3481	NONE
Near Bar Background	931.11	929.32	700 - 1450
Near Dens Background	306.34	303.08	230 - 480
Near Peak Background	135.18	132.56	100 - 210
Near Lith Background	163.55	162.70	125 - 260
Far Bar Background	523.50	523.03	450 - 900
Far Dens Background	204.55	206.47	175 - 345
Far Peak Background	82.93	82.40	70 - 140
Far Lith Background	84.47	83.85	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.687	1.683	-0.004	+/- 0.015
Pe	2.477	2.545	0.068	+/- 0.150
ALUMINUM				
Density (g/cc)	2.589	2.584	-0.005	+/- 0.01500
Pe	3.033	3.089	0.056	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0002	+/- 0.0110	-0.0011	+/- 0.0140
Magnesium Block	0.0010	+/- 0.0110	-0.0024	+/- 0.0140
Aluminum Block	0.0015	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	10.11	6.00 - 11.50	8.85	6.00 - 11.50
Internal Verifier(B+D+P+L)	1528	1200 - 2700	896	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:** 23-Jan-13 11:36:30

Engineer: JEREMY COTHREN **Calibration Date:** 13-Apr-13 18:05:15

Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1

Pad Temperature: 47.1 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1527.659	1523.367	-4.292	15.740
Far (B+D+P+L) cps	895.741	890.015	-5.726	16.287
Near Resolution	10.11	10.01	-0.100	0.50
Far Resolution	8.85	8.92	0.070	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 10960494 **Reference Calibration Date:** 10-Apr-13 14:07:36

Engineer: CORY HANSON **Calibration Date:** 10-Apr-13 14:08:12

Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.75	0.00	+/- 0.10
Ring Diameter	8.25	8.25	-0.00	+/- 0.15

PASS/FAIL SUMMARY

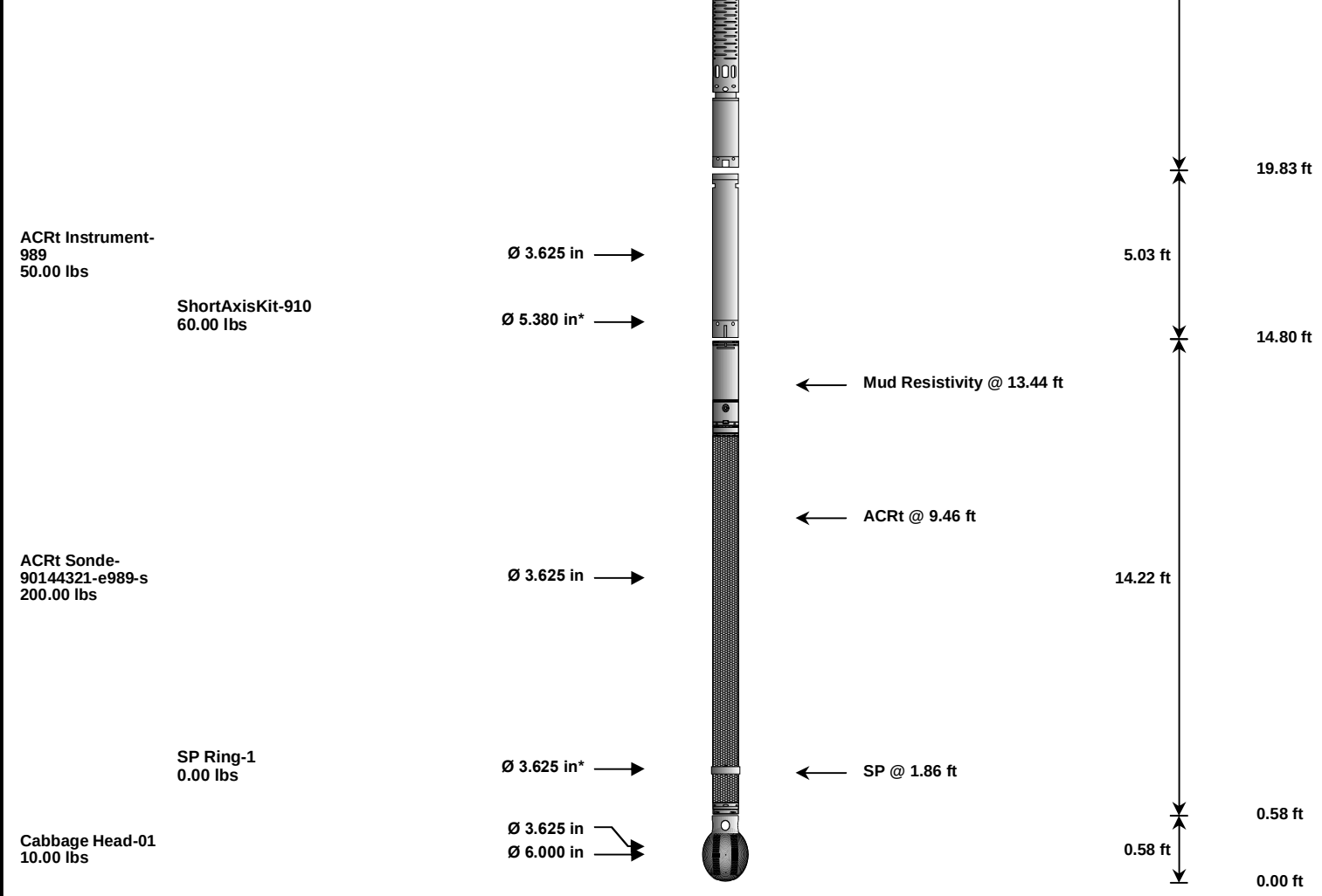
Pad Extension Check:	Passed
Diameter Check:	Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11013113						
Gamma Ray Calibrator	228.9	221.3	----------	7.6	+/- 9.00	api
DSNT-10993115						
Snow-Block Porosity	0.0827	0.0855	----------	-0.0028	+/- 0.0150	decp
SDLT-10960494						
Pad Extension	3.75	3.75	----------	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	----------	0.00	+/-0.15	in
SDLT Pad-10865873						
Near(B+D+P+L)	1527.659	1523.367	----------	4.292	+/-15.740	cps
Far(B+D+P+L)	895.741	890.015	----------	5.726	+/-16.287	cps

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						74.27 ft
CH_HOS-590_RED 37.50 lbs		Ø 2.750 in		Temperature @ 73.25 ft	3.03 ft	
						71.25 ft
XOHD-01 20.00 lbs		Ø 2.750 in Ø 3.625 in			0.95 ft	
						70.30 ft
GTET-11013113 165.00 lbs		Ø 3.625 in		GammaRay @ 64.23 ft	8.52 ft	
						61.78 ft
DSNT-10993115 174.00 lbs	DSN Decentralizer-10993115 6.60 lbs	Ø 5.000 in* Ø 3.625 in		DSN Far @ 54.84 ft DSN Near @ 54.09 ft	9.69 ft	
						52.09 ft
SDLT-10960494 360.00 lbs	SDLT Pad-10865873 65.00 lbs Microlog Pad-I15M94P73 8.00 lbs	Ø 4.500 in Ø 4.750 in* Ø 4.750 in*		Microlog @ 44.28 ft SDL Caliper @ 44.09 ft SDL @ 44.08 ft	10.81 ft	
						41.28 ft
IQ Flex-BLACK 140.00 lbs		Ø 3.625 in			5.67 ft	
						35.61 ft
BSAT-10939050 300.00 lbs		Ø 3.625 in		Sonic Receivers @ 27.09 ft	15.77 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	590_RED	37.50	3.03		71.25	300.00
XOHD	Hostile to Dits Cross Over	01	20.00	0.95		70.30	300.00
GTET	Gamma Telemetry Tool	11013113	165.00	8.52		61.78	60.00
DSNT	Dual Spaced Neutron	10993115	174.00	9.69		52.09	60.00
DCNT	DSN Decentralizer	10993115	6.60	5.13	*	55.42	300.00
SDLT	Spectral Density Tool	10960494	360.00	10.81		41.28	60.00
MICP	Microlog Pad	I15M94P73	8.00	1.00	*	43.78	60.00
SDLP	Density Insite Pad	10865873	65.00	2.55	*	43.49	60.00
IQF	IQ Flex tool	BLACK	140.00	5.67		35.61	300.00
BSAT	Borehole Sonic Array Tool	10939050	300.00	15.77		19.83	60.00
ACRt	Array Compensated True Resistivity Instrument Section	989	50.00	5.03		14.80	300.00
SAK	Short Axis Kit for logging short axis of a borehole.	910	60.00	1.02	*	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	90144321-e989-s	200.00	14.22		0.58	300.00
SP	SP Ring	1	0.00	0.25	*	1.86	300.00
CBHD	Cabbage Head	01	10.00	0.58		0.00	300.00
Total			**1,596.10**	**74.27**			

* Not included in Total Length and Length Accumulation.

Data: EDWARDS_B_1\0001 BLACK_TRIPLE\IDLE **Date: 13-Apr-13 18:28:57**

COMPANY	**OXY USA INC**		
WELL	**EDWARDS B-1**		
FIELD	**BIG BOW WEST**		
COUNTY	**STANTON**	STATE	**KANSAS**