

MID-CONTINENT ENERGY EXCHANGE

Oil & Gas Asset Auctions



Lot 7 Data Packet **Lippelmann** Overriding Royalty Interest in Thomas County, KS

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[Income and Expenses](#)
[Production](#)
[Maps](#)



Lot Summary

County/State: Thomas County, KS

Legal Description: Sec 14-10S-33W

Lease Name: Lippelmann

AssetType: Overriding Royalty Interest

Decimal Interest: 0.0002

Net Income(mo): \$239.83/month

API: 15-193-20998

Lease #: 146962

Purchaser: MV Purchasing

Operator: ELK Energy Holdings, LLC

Production Breakdown:

Year	Month	Production (bbl)
2018	10	4195.35
2018	11	4825.99
2018	12	5512.16 (27 days)
2019	01	4773.51 (25 days)
2019	02	4386.41 (21 days)
2019	03	4819.11 (27 days)
2019	04	10766.67 (28 days)
2019	05	8136.22 (19 days)
2019	06	10809.88 (30 days)
2019	07	11052.88 (31 days)
2019	08	10514.64 (29 days)
2019	09	9058.28 (28 days)
2019	10	12189.16 (28 days)
2019	11	19450.48 (28 days)
2019	12	26770.32 (31 days)

Disclaimer: Bidders must conduct their own due diligence prior to bidding at the auction. Bidders shall rely upon their own evaluations of the properties and not upon any representation either oral or written provided here. This is a summary of information provided by the seller to Mid-Continent Energy Exchange.



Income and Expenses

Summary

Net Income:	\$479.65
Production Months:	2
Net Income Per Month:	\$239.83

12/2019 Revenue - \$195.85
1/2020 Revenue - \$283.80

Net Income:			
Production	Gross	.0002	Trailing 3 Mo
<u>Month</u>	<u>Income</u>	<u>ORR</u>	<u>Average</u>
01 2019	\$441,090	<u>Income</u>	
02 2019	\$437,070	\$ 88	
03 2019	\$509,043	\$ 87	\$ 92
04 2019	\$1,260,603	\$102	\$147
05 2019	\$913,875	\$252	\$179
06 2019	\$1,078,653	\$183	\$217
07 2019	\$1,160,553	\$216	\$210
08 2019	\$1,048,245	\$232	\$219
09 2019	\$935,865	\$210	\$210
10 2019	\$1,198,266	\$187	\$212
11 2019	\$2,047,161	\$240	\$279
12 2019	\$2,966,415	\$409	\$414
		\$593	



Production





LIPPELMANN 146962

Lease #: 146962

Lease and Production Information

State	County	Operator			
KS	THOMAS	ELK ENERGY HOLDINGS LLC			
Location	Meridan	Quarter Call	Formation	Horizontal	Production Months
14-10S-33W	6th (west -96.28)		Oil	No	22
					Gas
First Prod Date			2017-11-01		
Last Sale			2019-08-01		
Daily Rate			339.18		
MoM Change			-550		
YoY Change			64775		
Cumulative			103416		

Production Snapshot

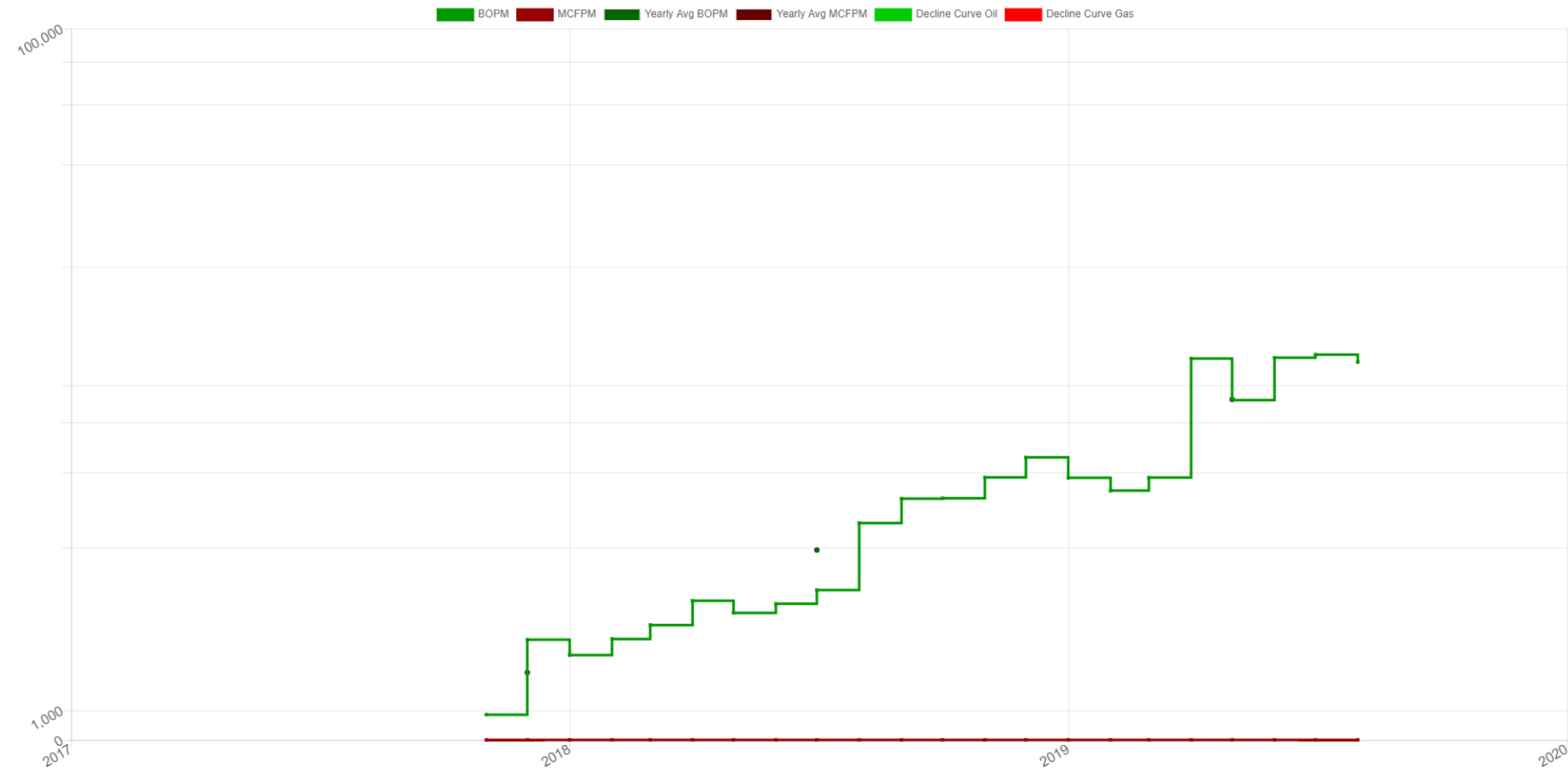
Month	BOPM	MCFPM
09-2018	4183	
10-2018	4195	
11-2018	4826	
12-2018	5523	
01-2019	4813	
02-2019	4412	
03-2019	4819	
04-2019	10767	
05-2019	8136	
06-2019	10841	
07-2019	11065	
08-2019	10515	
Average	7008	

Annual Averages

Year	Avg BOPM	Avg MCFPM
2017	1292	
2018	2955	
2019	8171	



LIPPELMANN 146962 - Production Plot





LIPPELMANN 146962

Associated Wells

Total Well Count: 1

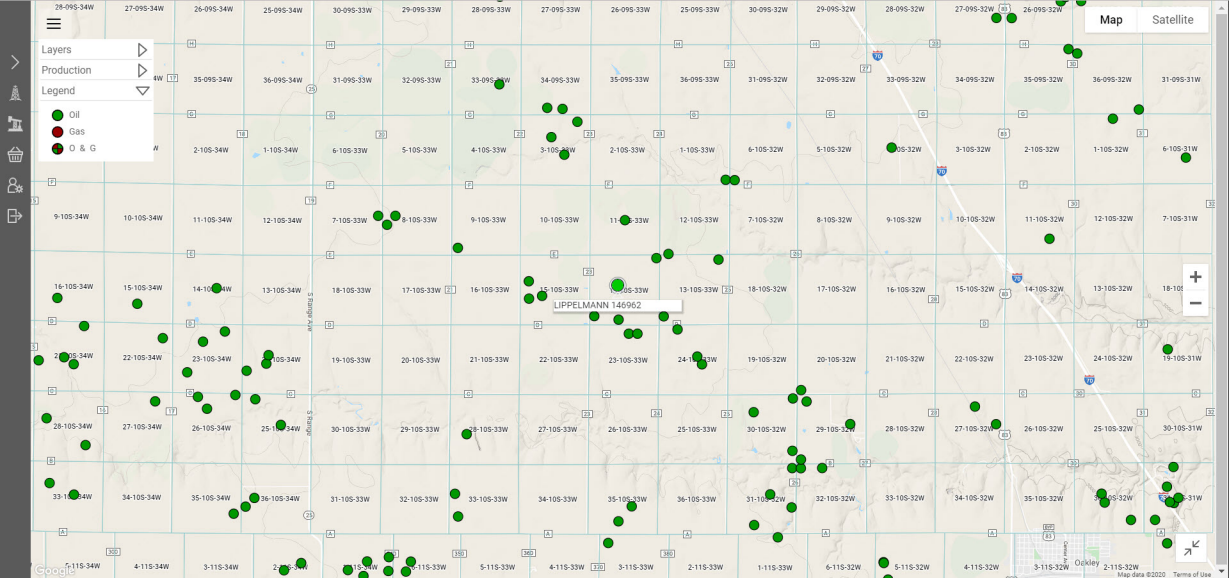
Well Name		API		Operator		Type	Status
LIPPELMANN 1-14		15193209980000		ELK ENERGY HOLDINGS LLC		Oil	Producing
Location		Spot		Foot-NS	Foot-EW	Foot-ref	Zone
14-10S-33W		NW SE SE NW		-2300	2130	NW	LANSING
Spud		Completion		First Production			
2017-09-01		2017-09-09					
Elevation	MD	TV-TD	Cmpl-Top	Cmpl-Btm	PBTD	Drill-Dir	Lateral
3144 KB		4718					

Prod Csg	Production: New 5.5", 15.5# @ 4714 w/ 425 sx QMDC & w/ 80/20. Approved: 1/16/2018 DST, LOGS, & SAMPLES: DSTs: (No) Electric Logs Ran: (Yes) Samples to KGS: (Yes) Cores Taken: (No) Logs: DIL CDN MIC
Surf Csg	Surface: New 8.575", 24# @ 344 w/ 250 sx Common & w/ 10% salt 5% gilsonite. Approved: 1/16/2018



Maps







Misc. Info



Form	ACO1 - Well Completion
Operator	ELK Energy Holdings LLC
Well Name	LIPPELMANN 1-14
Doc ID	1377596

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.575	24	344	Common	250	10% salt 5% gilsonite
Production	7.875	5.5	15.5	4714	QMDC	425	80/20

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 376

Date	9-8-17	Sec.	14	Twp.	10	Range	33	County	Thomas	State	KS	On Location		Finish	4:00pm
Location								Clark & I. 20 West Ex + 25 7w 1 1/2							
Lease	Lippelmann			Well No.			1-14			Owner					
Contractor	WW#2			Bottom Stage			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	DU Job						Charge To								
Hole Size	7 7/8			T.D.			4718			To					
Csg.	5 1/2 17#			Depth			4714			ELK Energy					
Tbg. Size				Depth						Street					
Tool	DU Tool #52			Depth			2635			City					
Cement Left in Csg.	39.20			Shoe Joint			39.20			State					
Meas Line				Displace			10842 BCL			The above was done to satisfaction and supervision of owner agent or contractor.					
EQUIPMENT								Cement Amount Ordered							
Pumptrk	20			No.			Cement			175 cum 10% Salt 5% G/sanite					
Bulktrk				No.			Helper			500 gal mud Clear 10 BCL KCL					
Bulktrk	9			No.			Driver			Common 175					
JOB SERVICES & REMARKS								Poz. Mix							
Remarks:								Gel.							
Rat Hole								Calcium							
Mouse Hole								Hulls							
Centralizers								Salt 15							
Baskets								Flowseal							
D/V or Port Collar								Kol-Seal 825							
5 1/2 gals @ 4714; Bal Ace @ 4675								Mud CLR 48 500 gal							
Est. Circulation - Pump 500 gal mud Clear								CFL-117 or CD110 CAF 38							
to 10 BCL KCL								Sand							
Cement 5 1/2 with 175 SR Clear								Handling 198							
Lines & Displace Plug								Mileage							
Plug landed @ 1600 ft.								FLOAT EQUIPMENT							
Drop dart & open DU Tool								Guide Shoe 40 Scratchers							
Circulate 3 HRS								Centralizer 10 Turbo's							
								Baskets 3 cage							
								AFU inserts 3 Limit Clamps							
								Float Shoe 1							
								Latch Down 1							
								DU Tool							
								Pumptrk Charge							
								Mileage 15 prod string							
								Bottom Stage							
								Tax							
								Discount							
								Total Charge							

X Signature *[Signature]*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 377

Date	9-8-17	Sec.	14	Twp.	10	Range	33	County	Thomas	State	KS	On Location		Finish	2:30 AM
Lease								Lippelmann							
Contractor								WOW*2							
Type Job								DU Job							
Hole Size								7 7/8							
Csg.								5 1/2							
Tbg. Size															
Tool								DU Tool							
Cement Left in Csg.															
Meas Line								Displace 61 BC							
Pumptrk								20							
Bulktrk															
Bulktrk								21							
Cement								5 1/2 with 3955K							
Displace								Phg.							
Cement								Do Not Circulate.							
Lost								Circulation while Displacing							
Remarks:															
Rat Hole								30SK							
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
Pump								500 gal mud clear +							
Plug								Rathole.							
Cement								5 1/2 with 3955K							
Displace								Phg.							
Cement								Do Not Circulate.							
Lost								Circulation while Displacing							
Hulls															
Salt															
Flowseal								10' 110 #							
Kol-Seal															
Mud CLR 48								500 gal							
CFL-117 or CD110 CAF 38															
Sand															
Handling								425							
Mileage															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge								prol 5000							
Mileage								15							
Tax															
Discount															
Total Charge															
Signature															



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company **ELK ENERGY HOLDINGS, LLC**
Well **LIPPELMANN NO 1-14**
Field **WILDCAT**
County **THOMAS** State **KANSAS**

Location: API #: 15-193-20998-00-00

Other Services

SEC 14 TWP 10S RGE 33W
2305' FNL & 2110' FWL

CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 3139'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3144'
D.F. N/A
G.L. 3139'

Date 9/7/2017

Run Number ONE

Depth Driller 4720'

Depth Logger 4718'

Bottom Logged Interval 4717'

Top Log Interval 3800'

Casing Driller 8.625" @ 347'

Casing Logger 344'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 3,500

Density / Viscosity 9.4 58

pH / Fluid Loss 9.0 9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .80 @ 65

Rmt @ Meas. Temp .60 @ 65

Rmc @ Meas. Temp 1.08 @ 65

Source of Rmt / Rmc CHARTS

Rm @ BHT .42 @ 123

Operating Rig Time 3 HOURS

Max Rec. Temp. F 123 DEGF

Equipment Number 108

Location HAYS

Recorded By J. HENRICKSON

Witnessed By SEAN DEENIHAN

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OAKLEY WEST EXIT

1 NORTH TO F RD, 6 WEST TO RD 23, 3/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerres.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: SEAN DEENIHAN
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\Warrior\Data\elk_energy_lippelmann_1_14.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	125	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-260	76	Off	4718

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
LSD DCAL SSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00
	28.42					
	27.93					
MCAL MI MN	19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
	19.83					
	19.83					
RLL3 RLL3F	15.80 15.79		DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00					

CILM

4.70

SP

0.20

Dataset: elk_energy_lippelmann_1_14.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

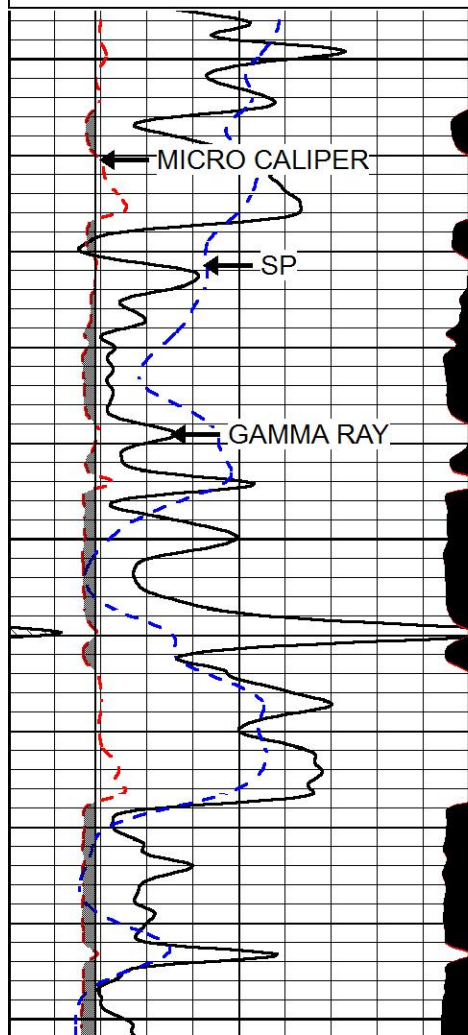


MAIN PASS

Database File elk_energy_lippelmann_1_14.db
Dataset Pathname stackml/pass3.1
Presentation Format micro
Dataset Creation Thu Sep 07 14:06:47 2017
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

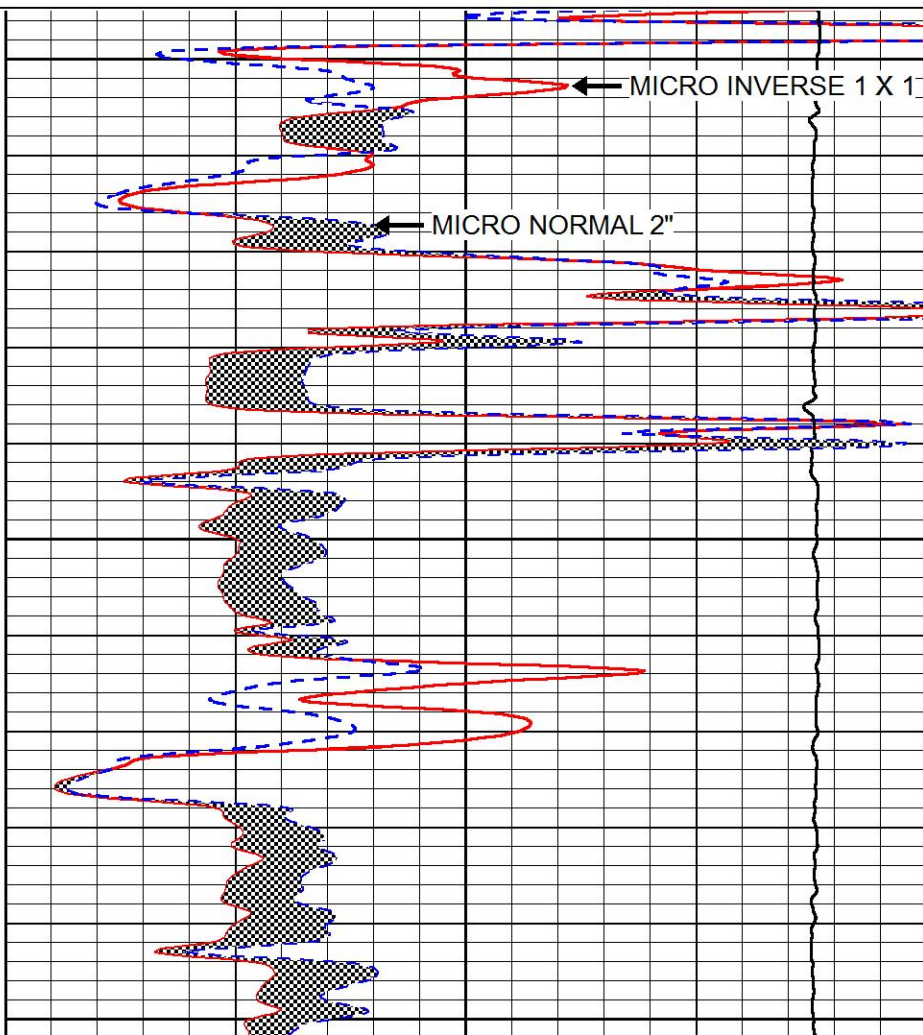
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

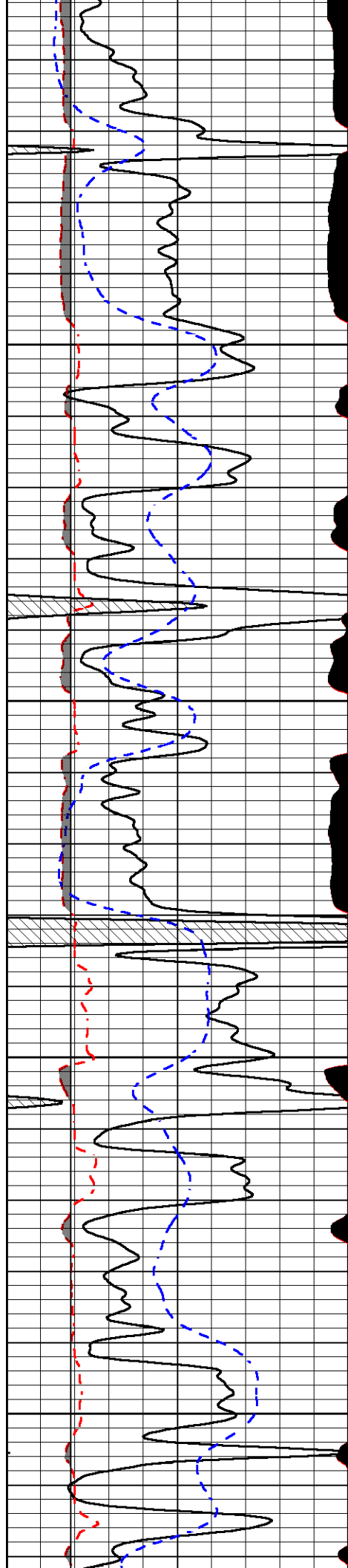


3800

3850

3900



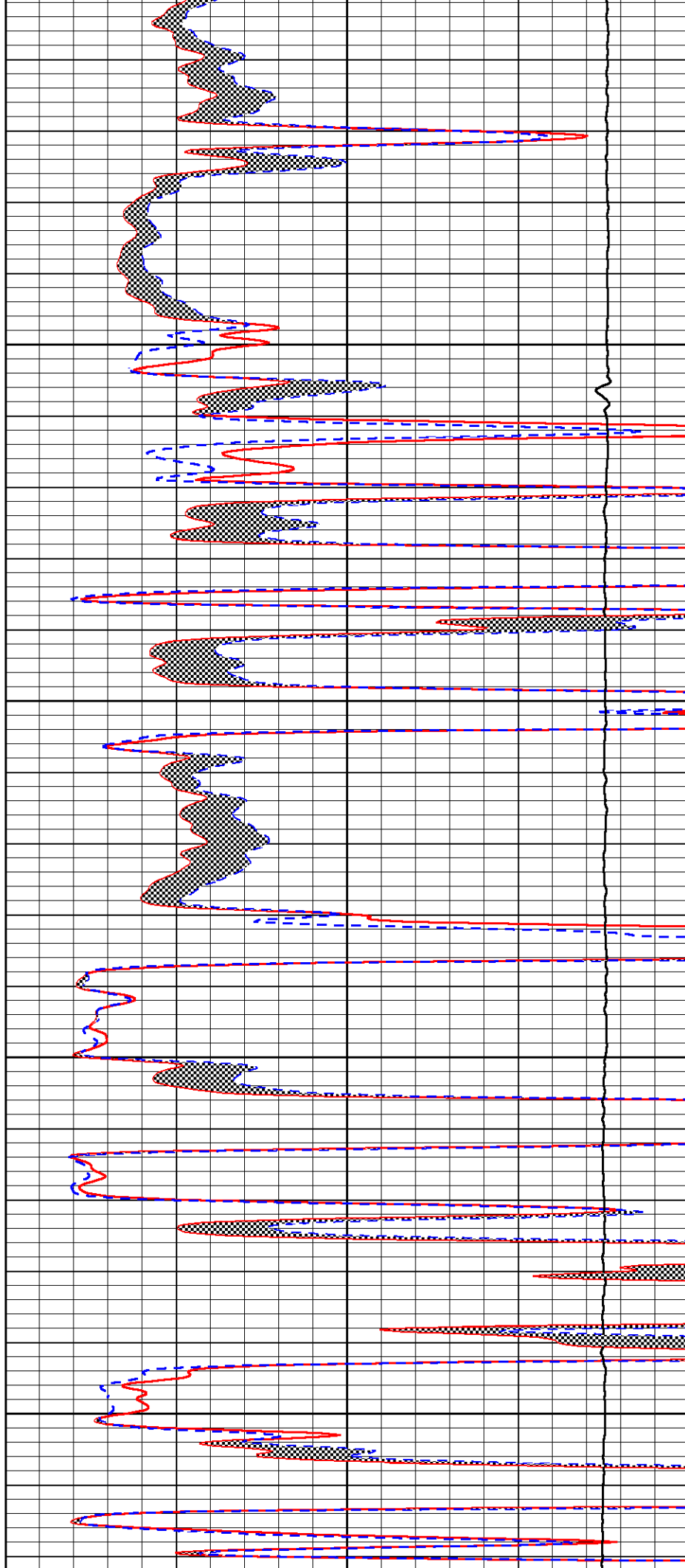


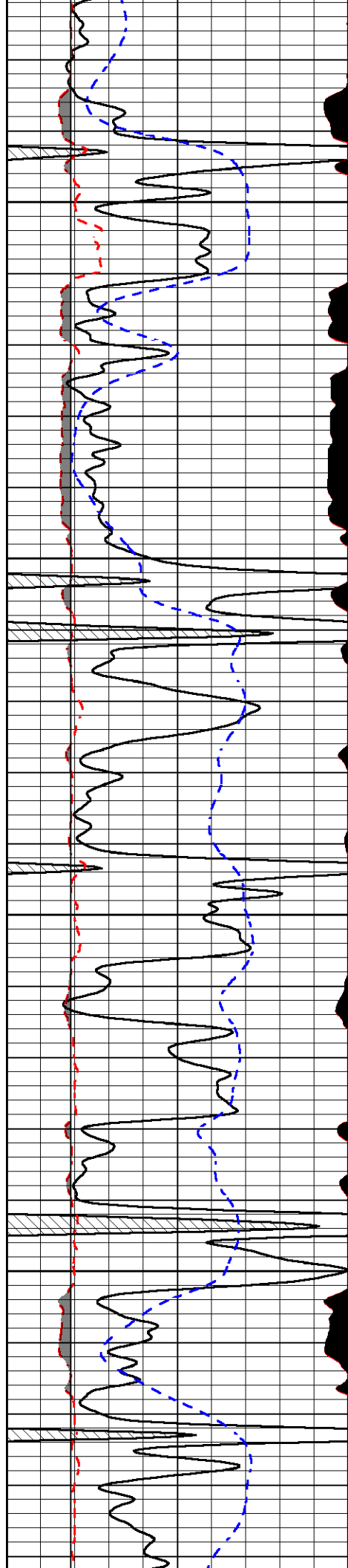
3950

4000

4050

4100



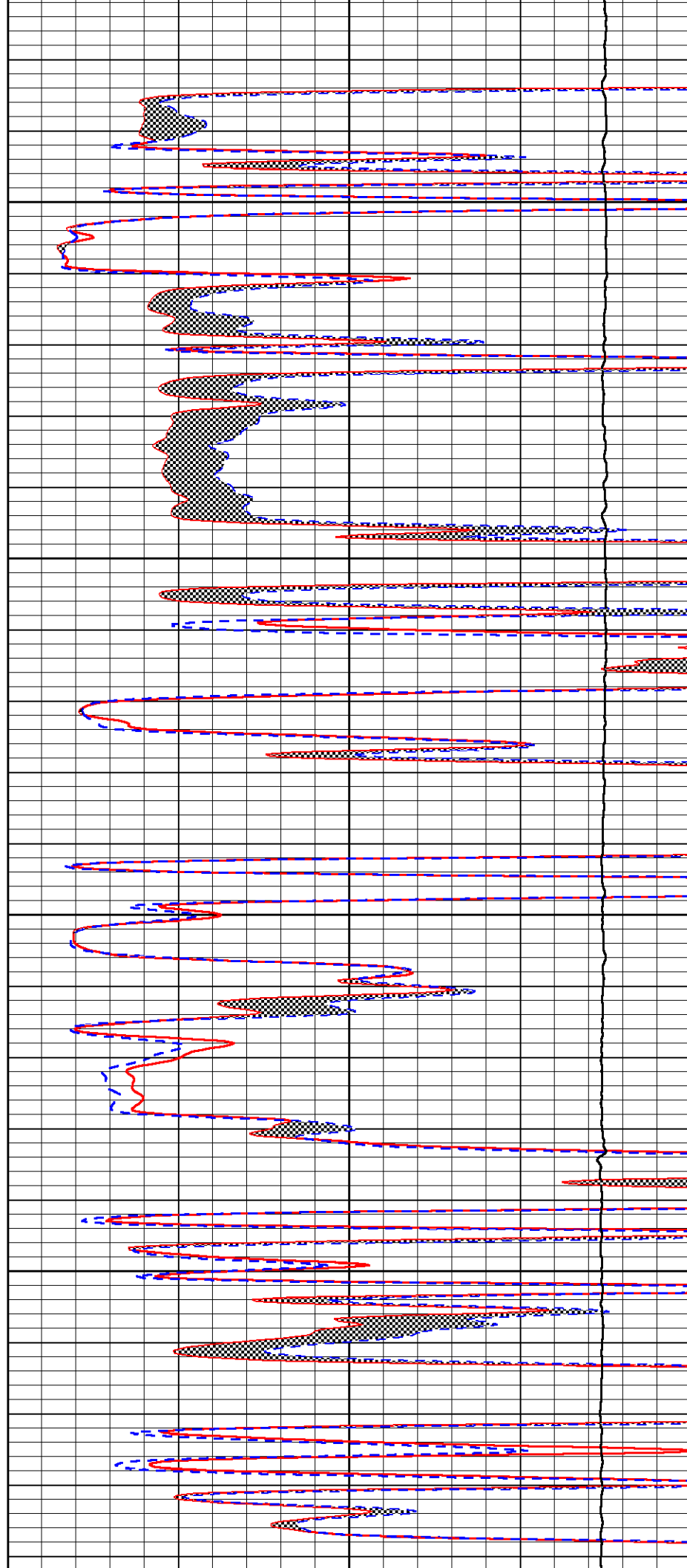


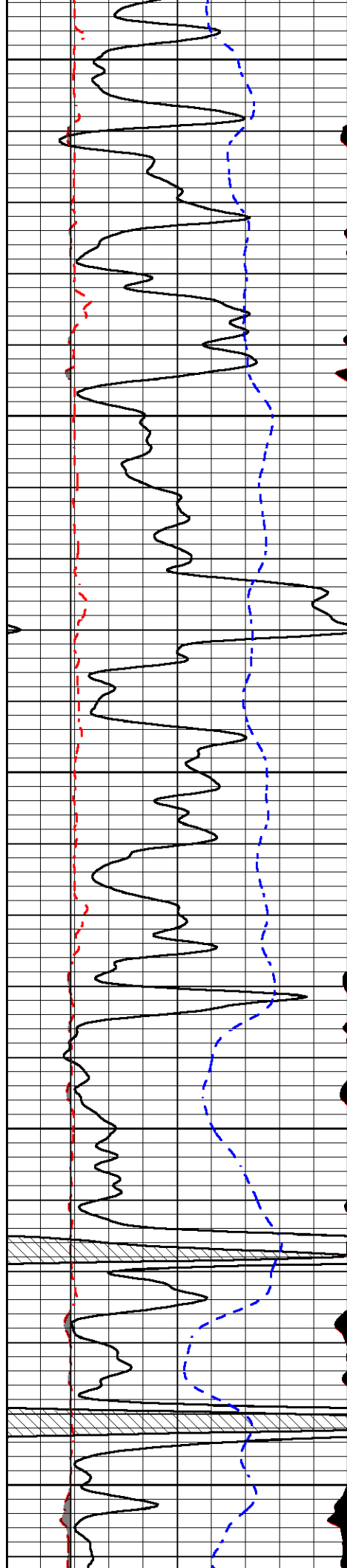
4150

4200

4250

4300





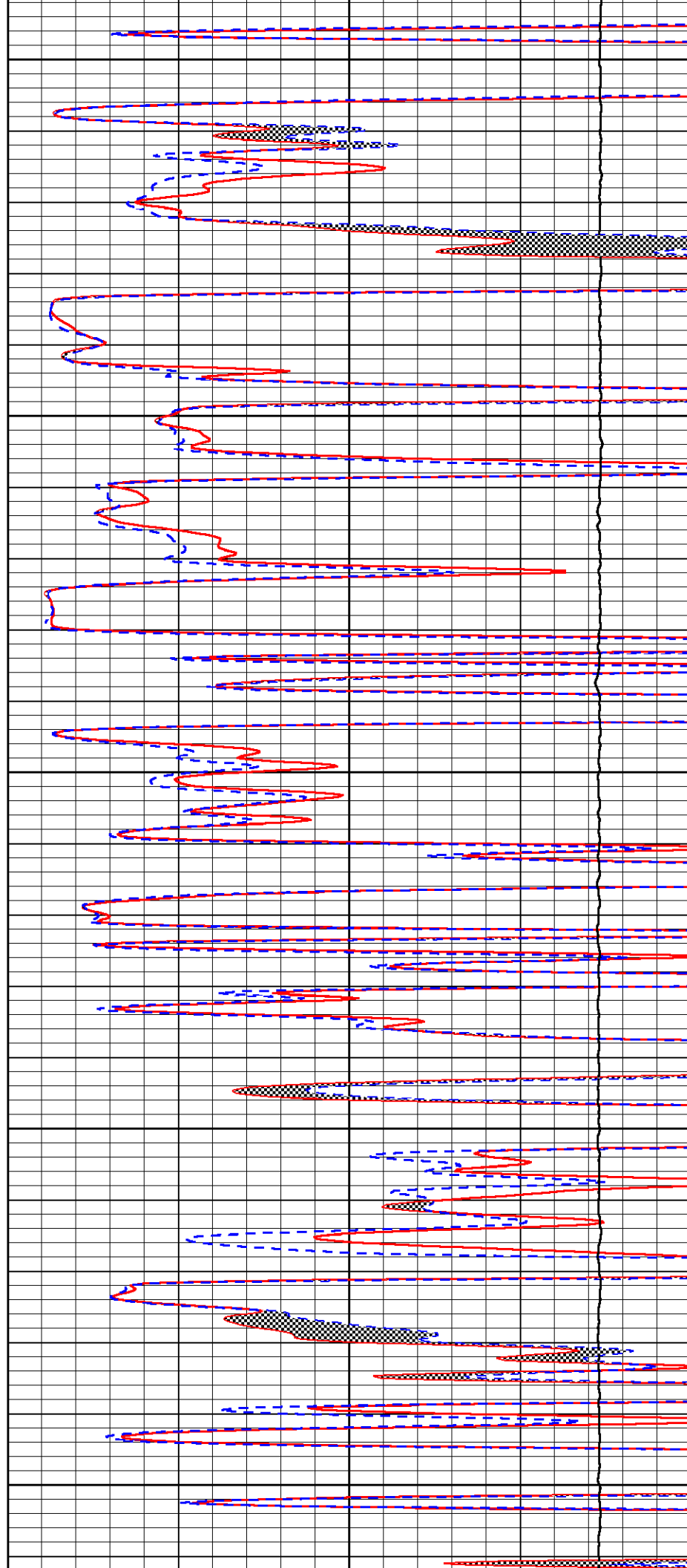
4350

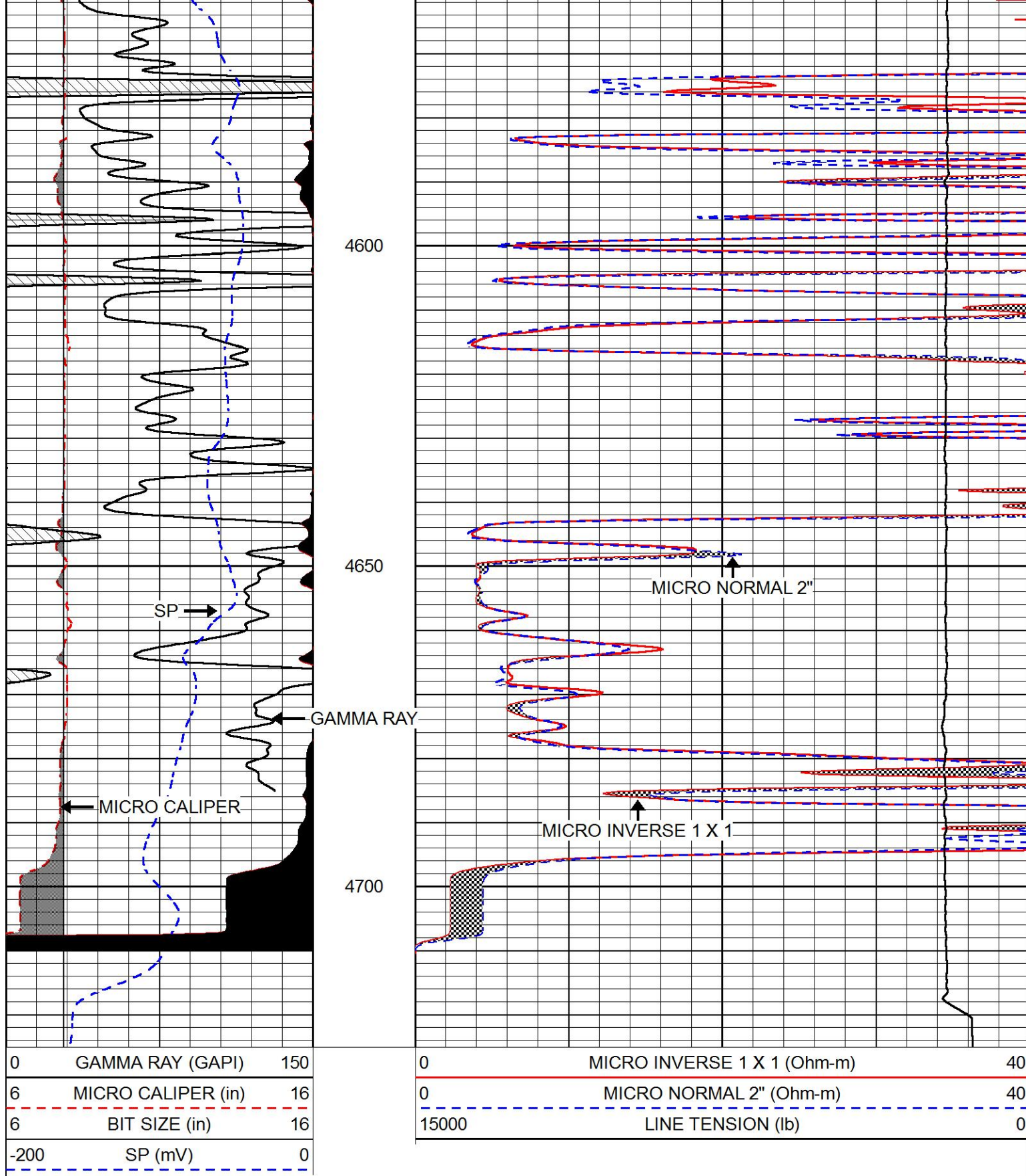
4400

4450

4500

4550



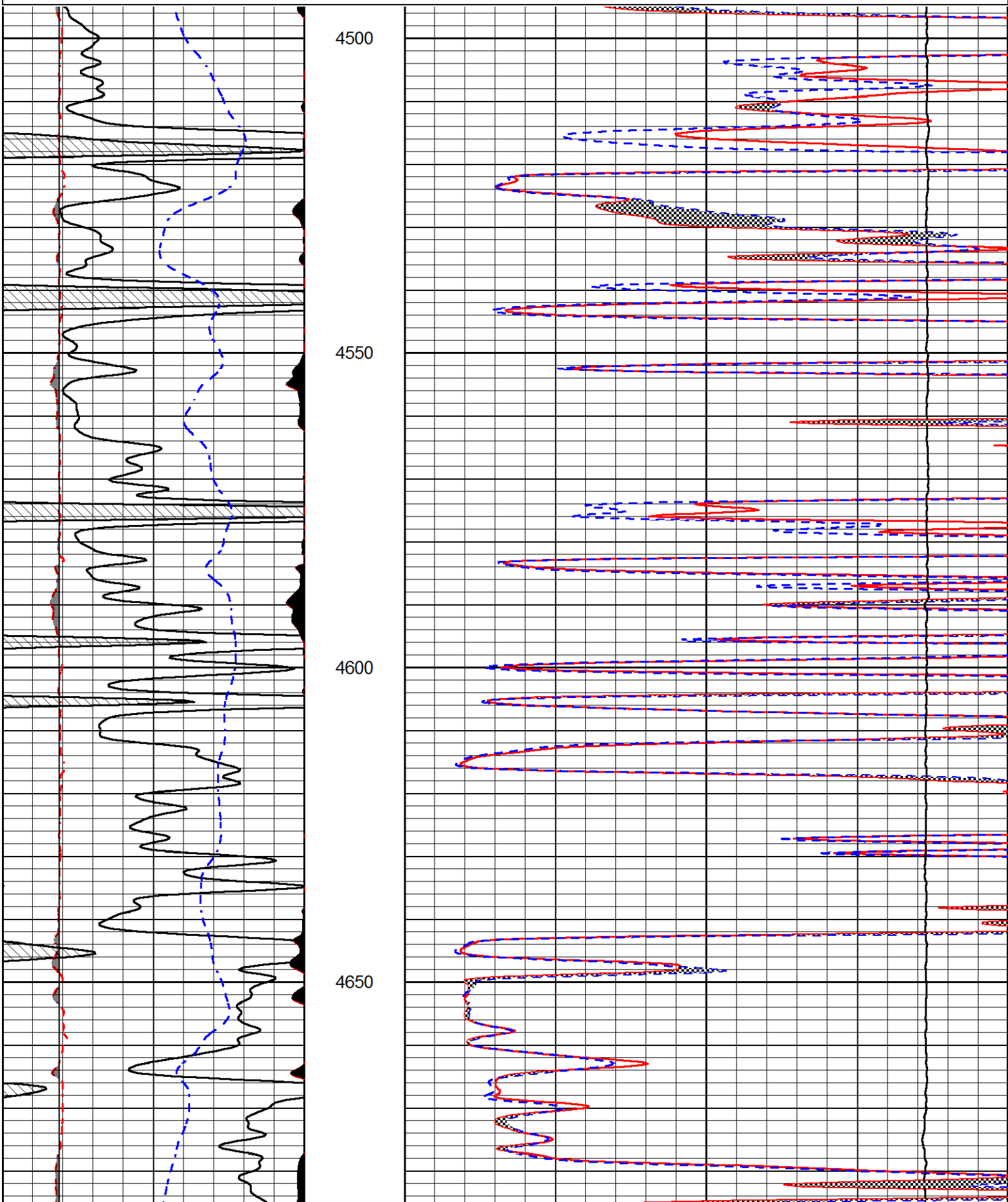


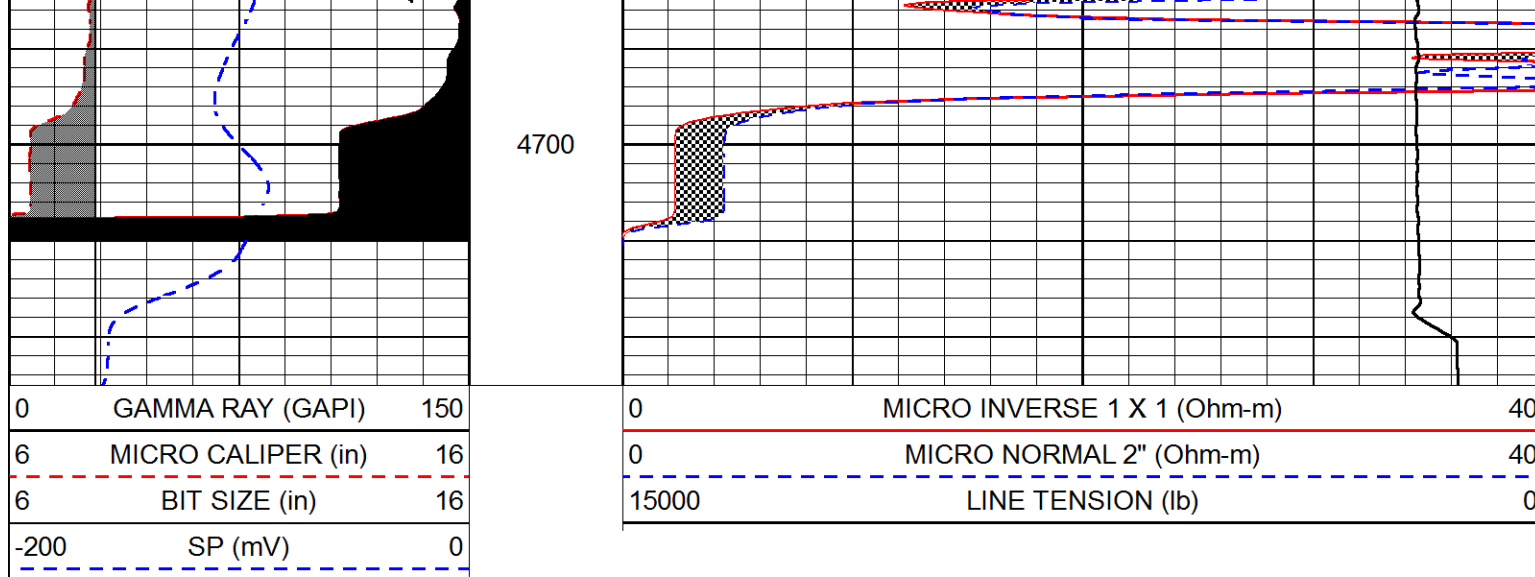
REPEAT SECTION

Database File elk_energy_lippelmann_1_14.db
 Dataset Pathname stackml/pass2.1
 Presentation Format micro

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0





Calibration Report

Database File elk_energy_lippelmann_1_14.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Thu Sep 07 14:06:47 2017

Dual Induction Calibration Report

Serial-Model: 1987-M&W
 Calibration Performed: Tue Apr 11 16:07:38 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML
 Performed: Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	16000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	18000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.4000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps

Spine Angle = 74.61

Density/Spine Ratio = 0.523

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.23

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings		Target	Normalization
Short Space	6240.00	cps	1000.00 cps	1.6025
Long Space	460.00	cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value: 1000.0 GAPI
Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps
Sensitivity: 0.5200 GAPI/cps



Company ELK ENERGY HOLDINGS, LLC
Well LIPPELMANN NO 1-14
Field WILDCAT
County THOMAS
State KANSAS



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company **ELK ENERGY HOLDINGS, LLC**
Well **LIPPELMANN NO 1-14**
Field **WILDCAT**
County **THOMAS** State **KANSAS**

Location: API #: 15-193-20998-00-00

Other Services

SEC 14 TWP 10S RGE 33W
2305' FNL & 2110' FWL

CNL/CDL
MEL

Permanent Datum GROUND LEVEL Elevation 3139'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3144'
D.F. N/A
G.L. 3139'

Date 9/7/2017

Run Number ONE

Depth Driller 4720'

Depth Logger 4718'

Bottom Logged Interval 4717'

Top Log Interval 300'

Casing Driller 8.625" @ 347'

Casing Logger 344'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 3,500

Density / Viscosity 9.4 58

pH / Fluid Loss 9.0 9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .80 @ 65

Rmt @ Meas. Temp .60 @ 65

Rmc @ Meas. Temp 1.08 @ 65

Source of Rmt / Rmc CHARTS

Rm @ BHT .42 @ 123

Operating Rig Time 3 HOURS

Max Rec. Temp. F 123 DEGF

Equipment Number 108

Location HAYS

Recorded By J. HENRICKSON

Witnessed By SEAN DEENIHAN

<<< Fold Here >>>

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OAKLEY WEST EXIT

1 NORTH TO F RD, 6 WEST TO RD 23, 3/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: SEAN DEENIHAN
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\Warrior\Data\elk_energy_lippelmann_1_14.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	125	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-260	76	Off	4718

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00	
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00	
CNSSC	36.73							
					CDL-M&W (168-986)	8.50	4.00	250.00
LSD	28.43							
DCAL	28.42							
SSD	27.93				ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83							
MI	19.83							
MN	19.83							
RLL3	15.80			DIL-M&W (1987)	18.50	3.50	220.00	
RLL3F	15.79							
CILD	8.00							

CILM

4.70

SP

0.20

Dataset: elk_energy_lippelmann_1_14.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MAIN PASS

Database File elk_energy_lippelmann_1_14.db
Dataset Pathname stackml/pass3.1
Presentation Format dil2in
Dataset Creation Thu Sep 07 14:06:47 2017
Charted by Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 150

2000 CONDUCTIVITY (mmho/m) 0

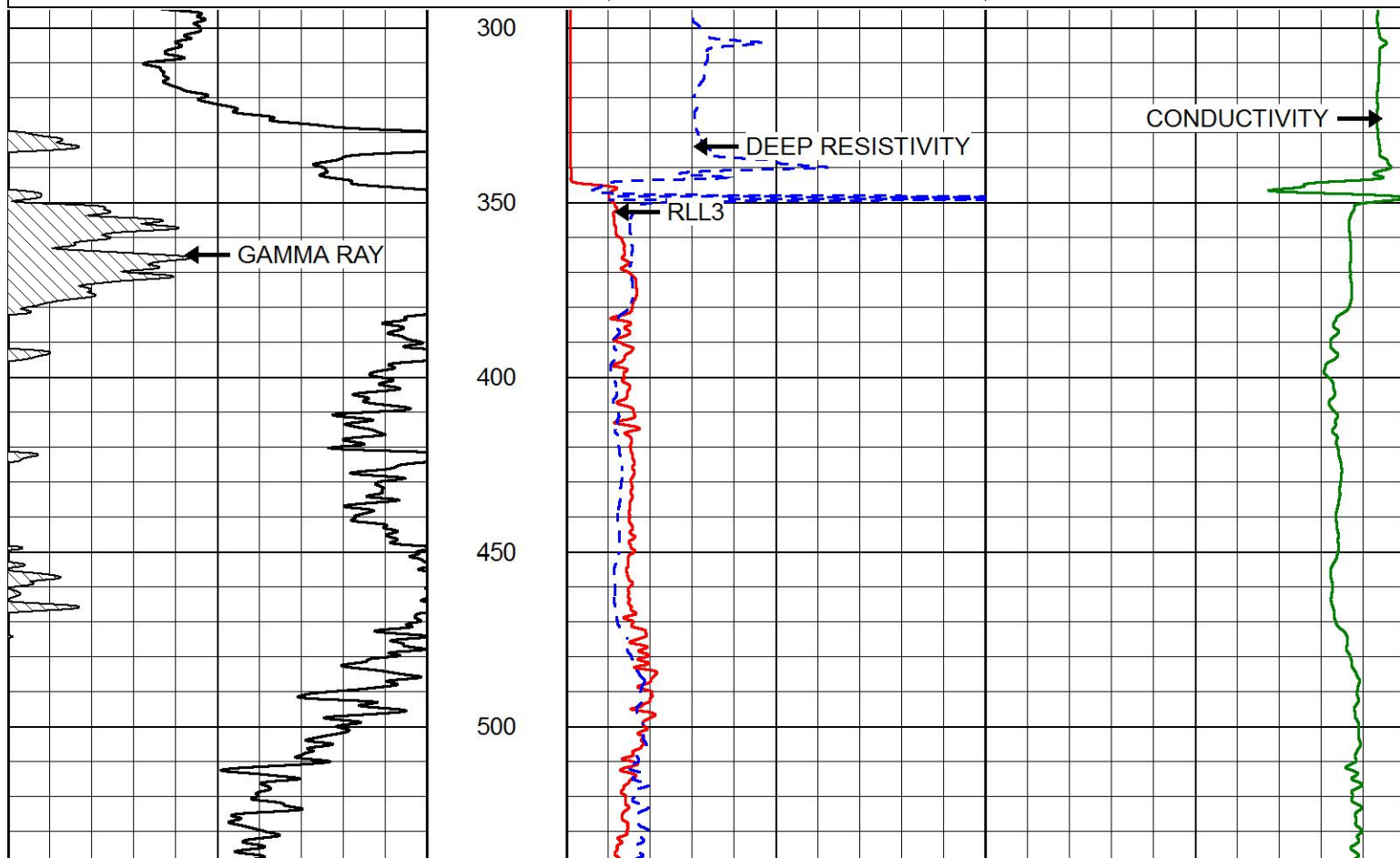
0 RLL3 (Ohm-m) 50

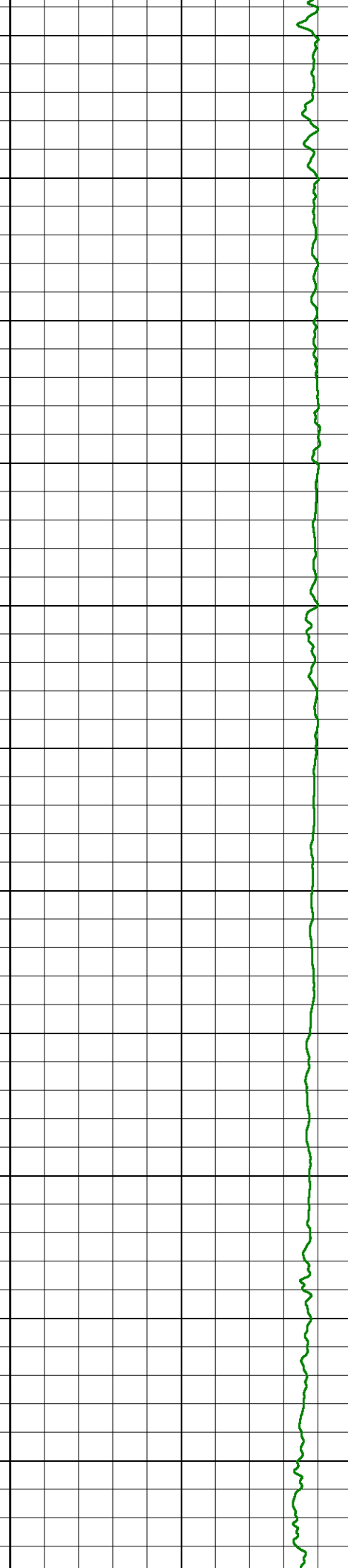
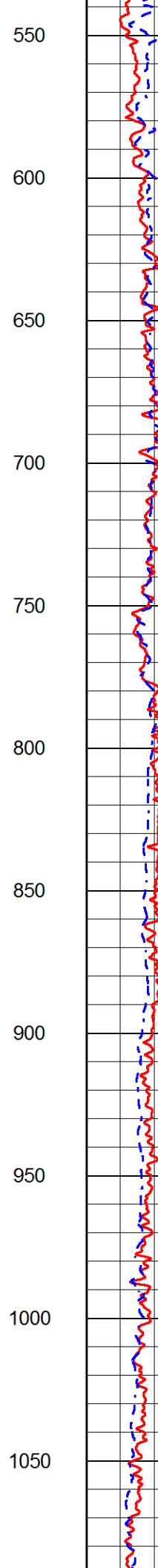
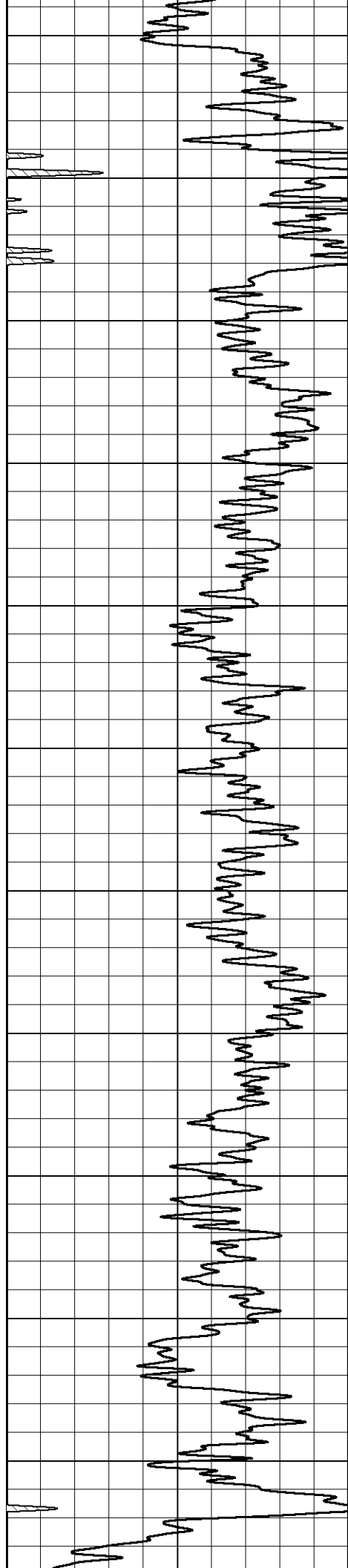
0 DEEP RESISTIVITY (Ohm-m) 50

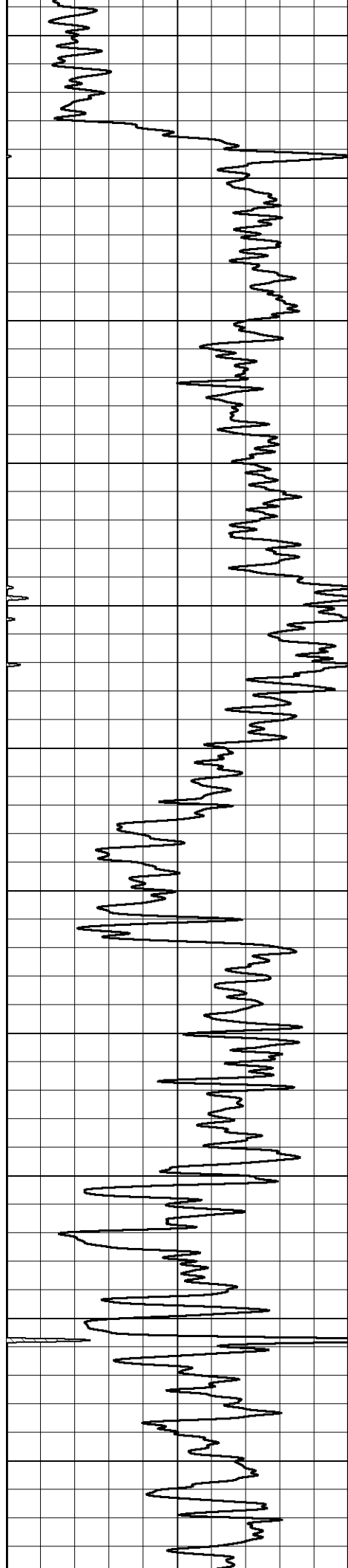
50 RLL3 (Ohm-m) 500

DEEP RESISTIVITY

50 (Ohm-m) 500







1100

1150

1200

1250

1300

1350

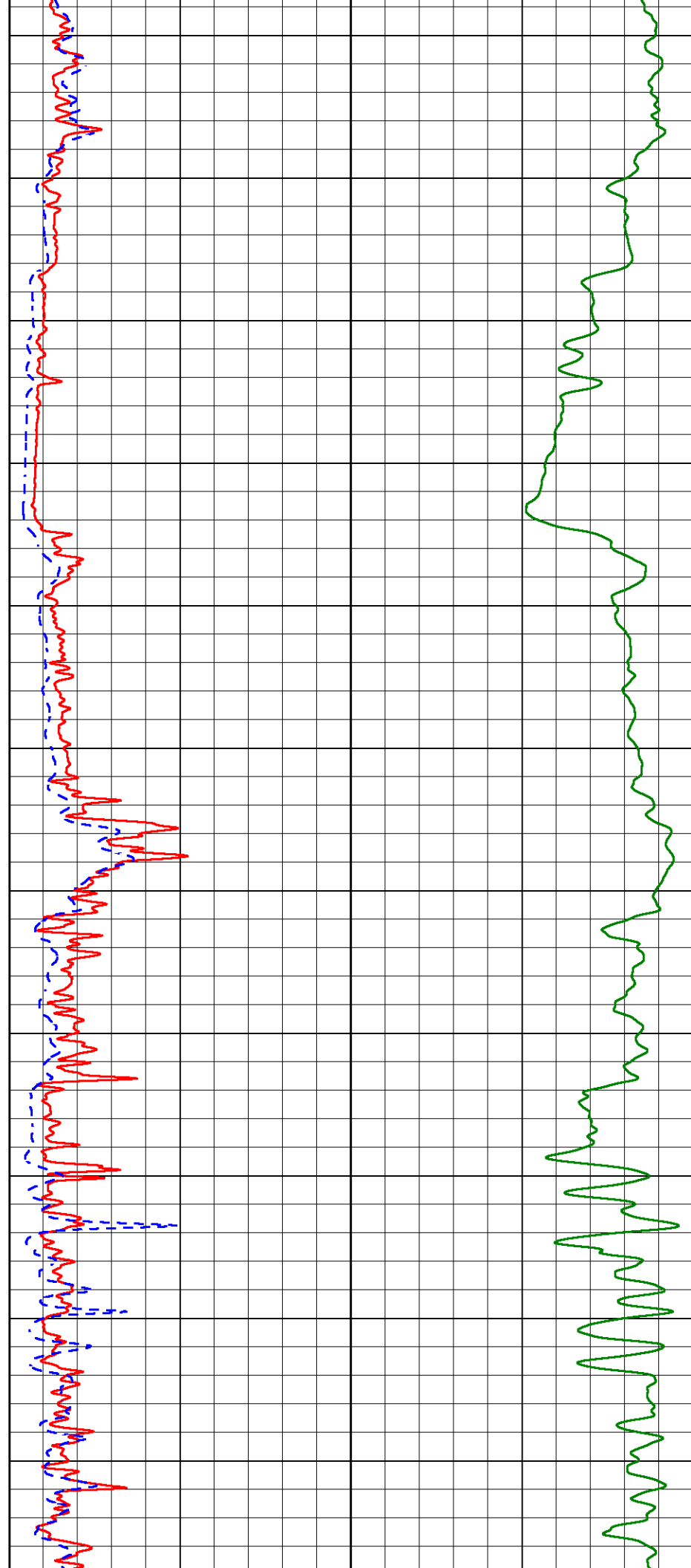
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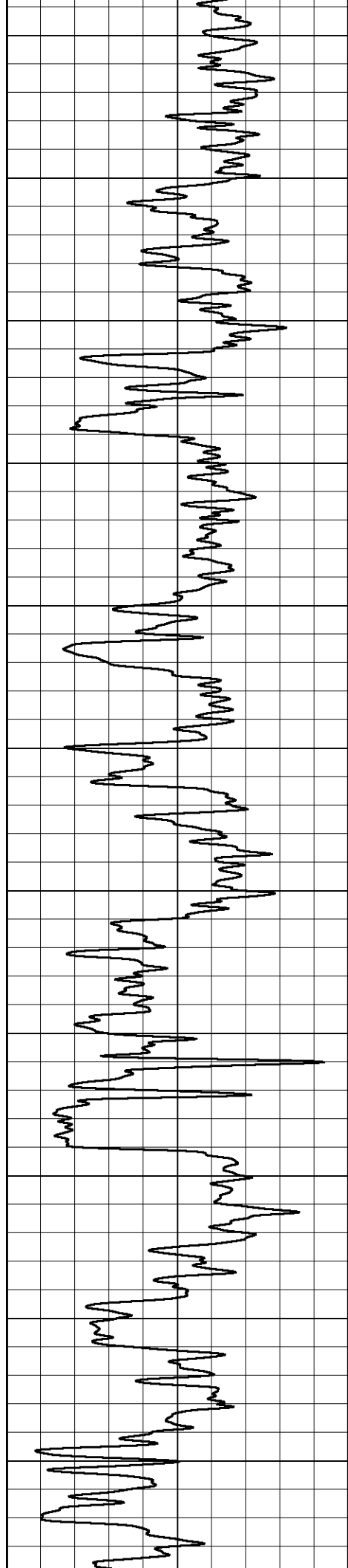
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1500

1550

1600





1650

1700

1750

1800

1850

1900

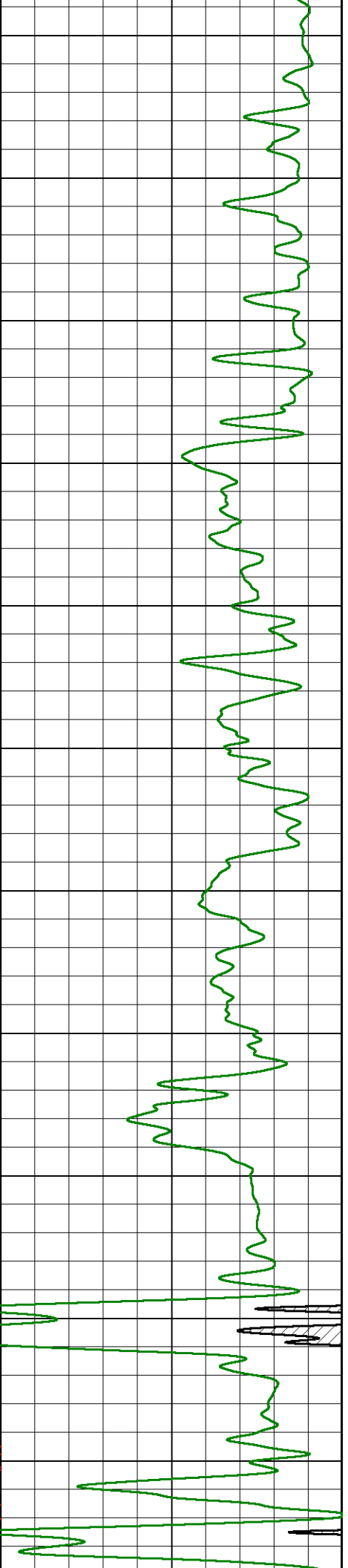
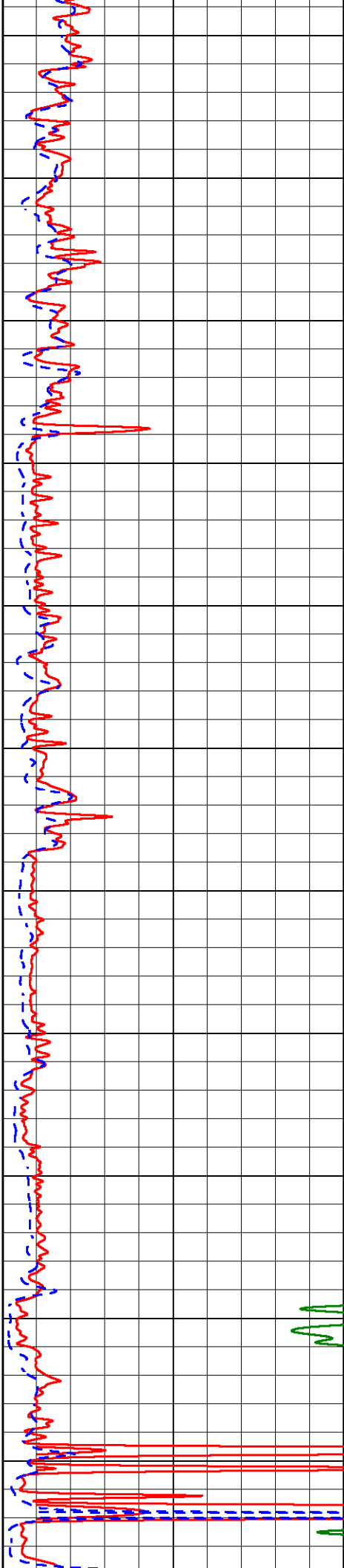
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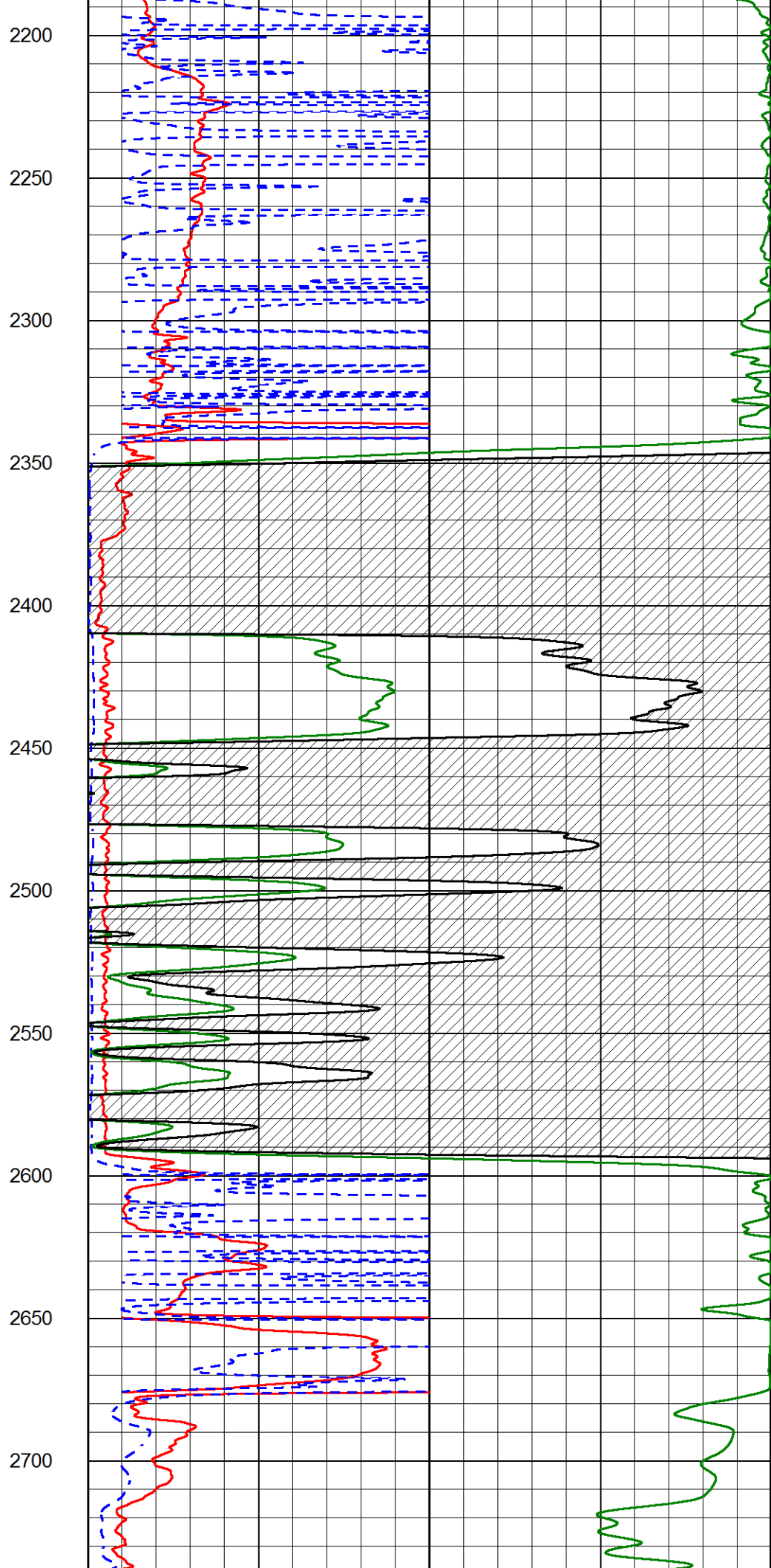
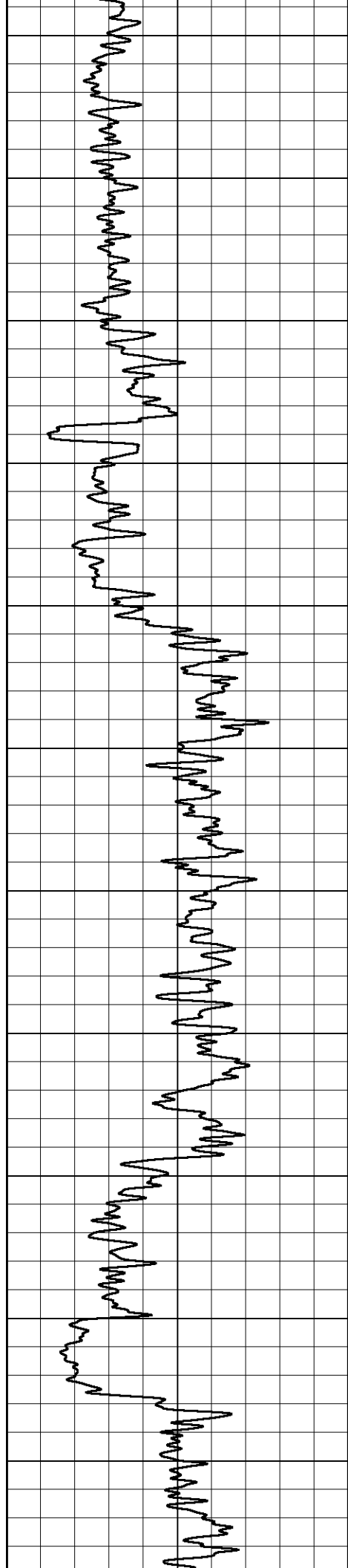
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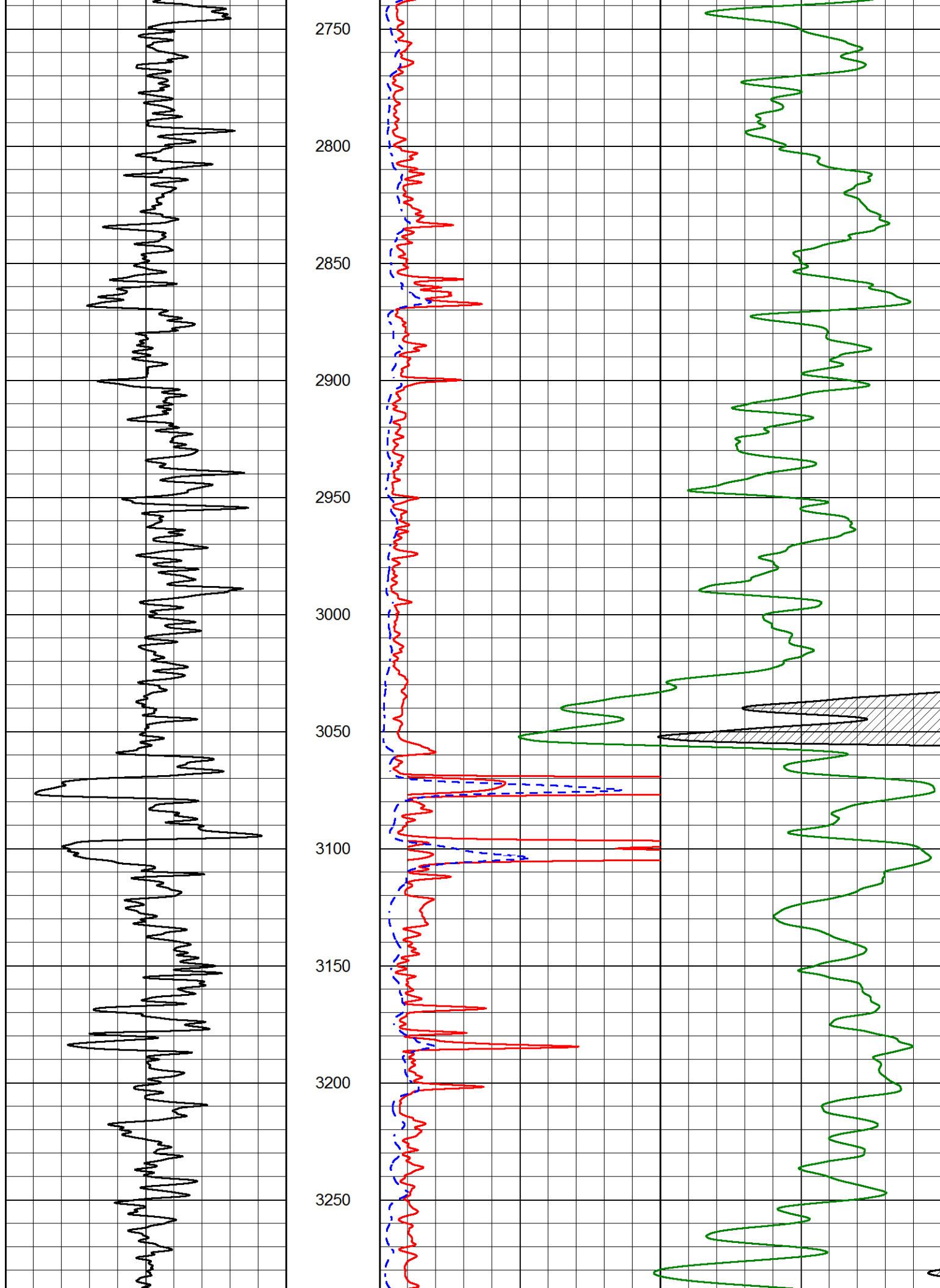
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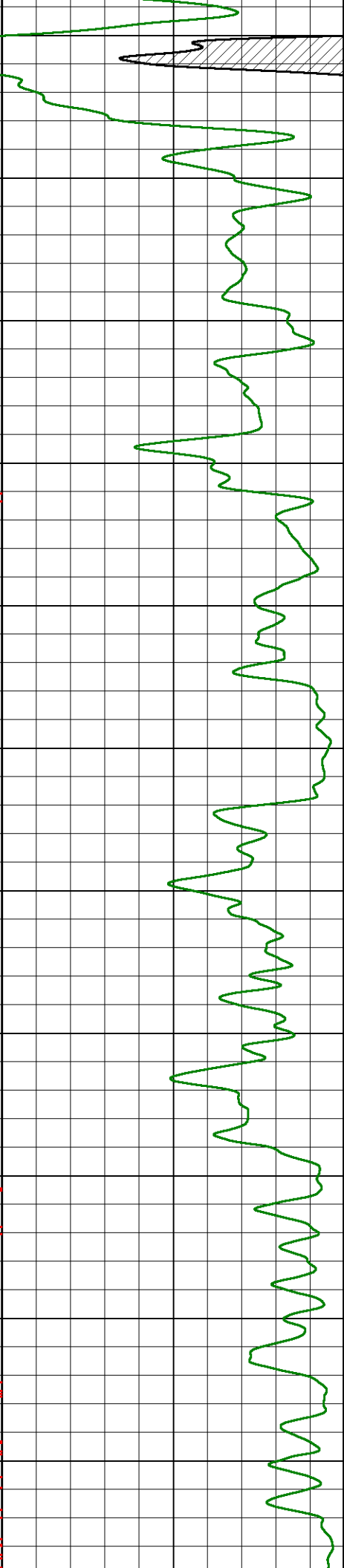
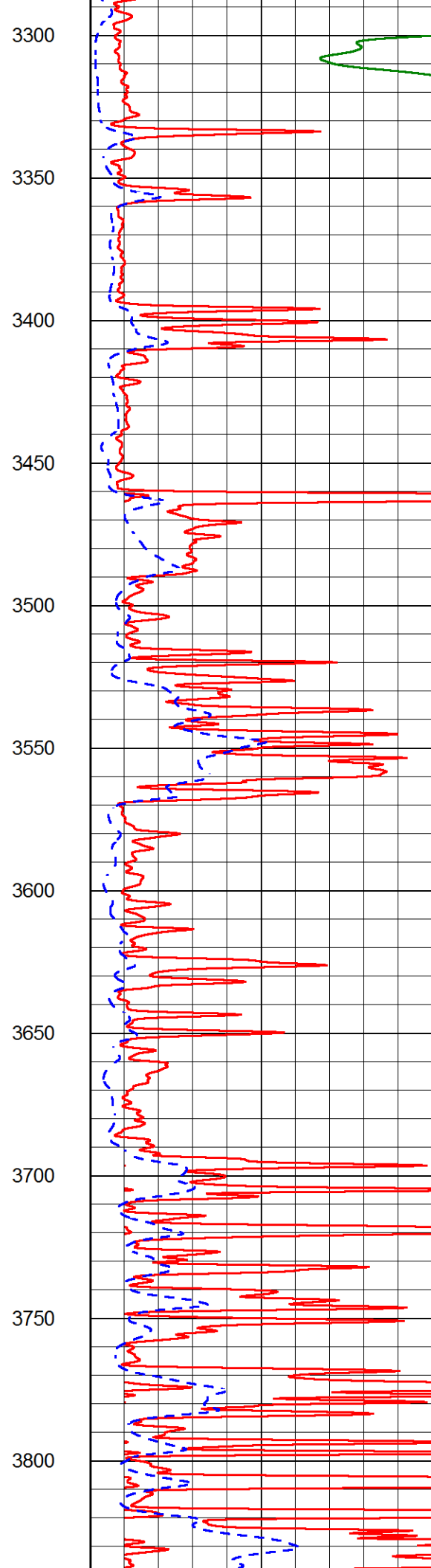
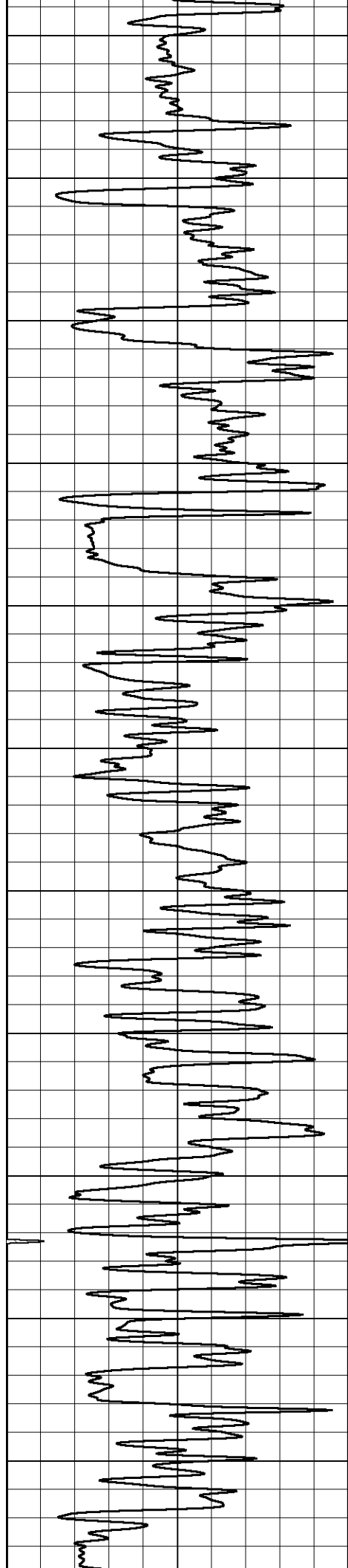
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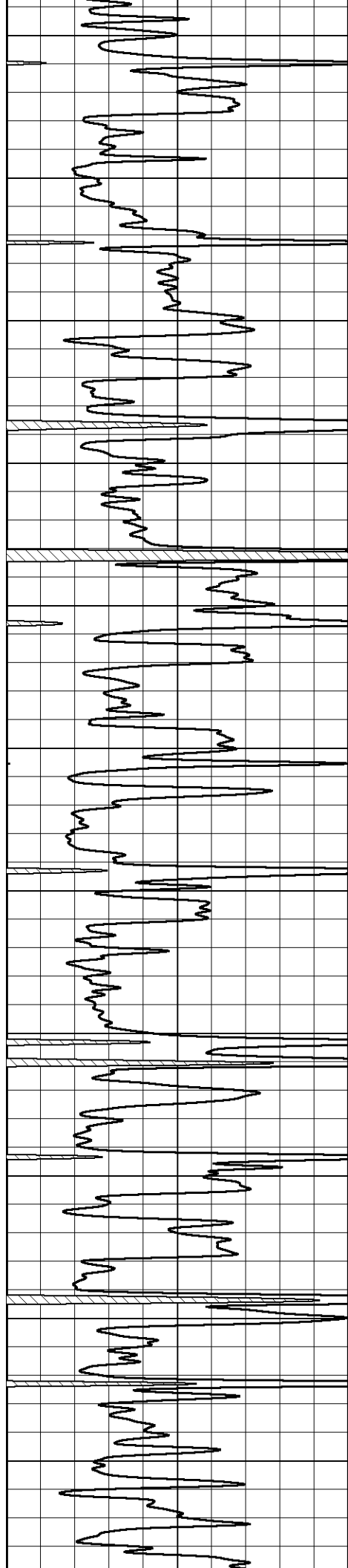
2150











3850

3900

3950

4000

4050

4100

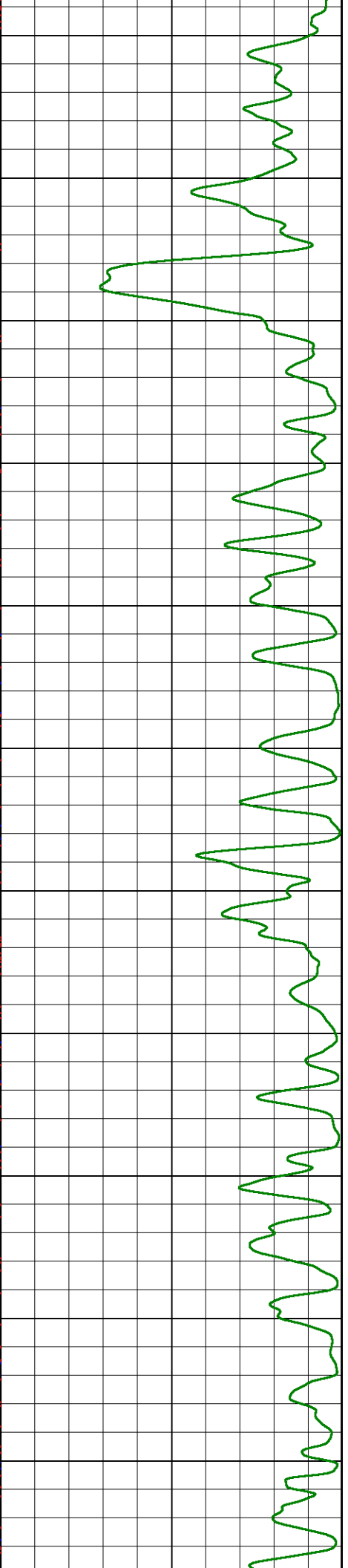
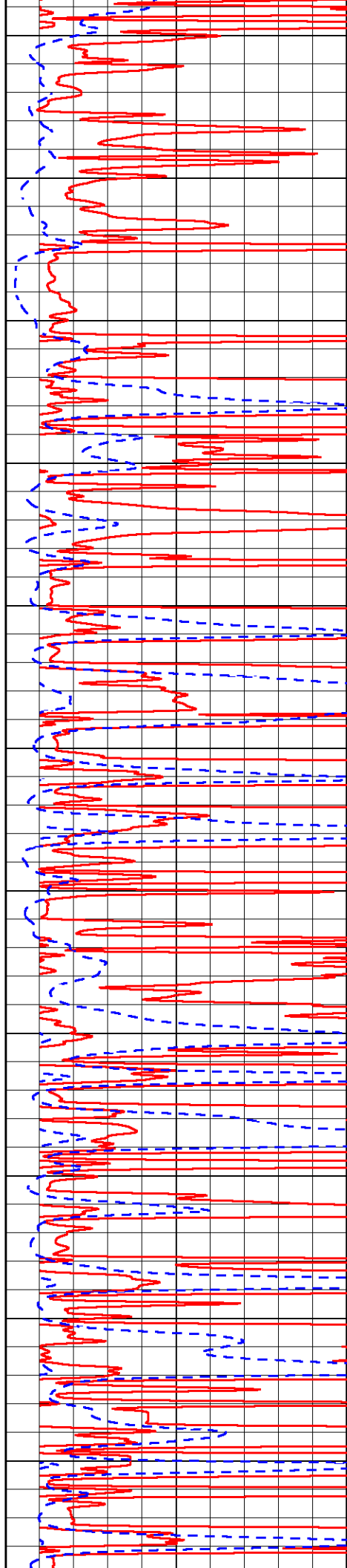
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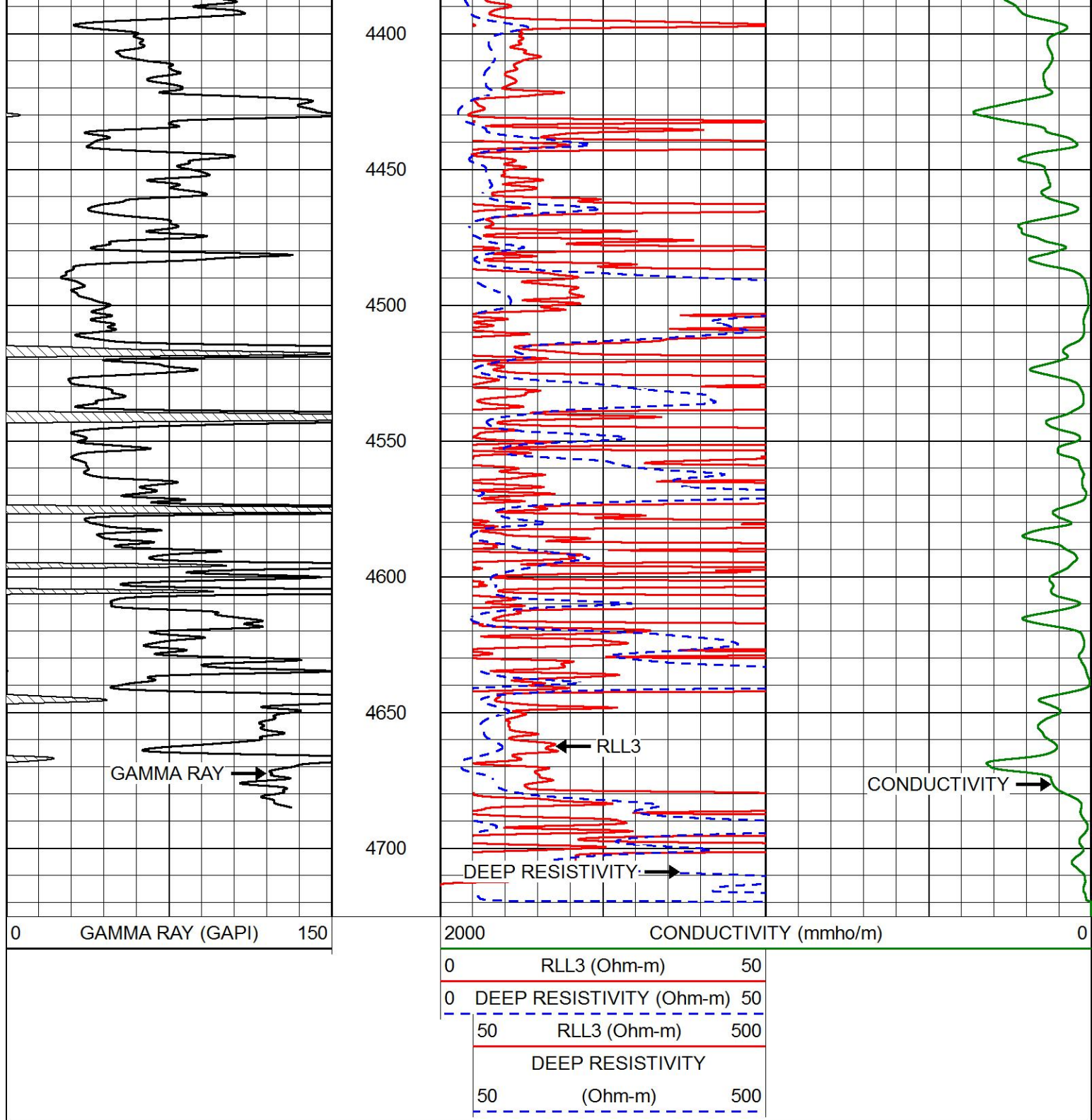
4200

4250

4300

4350





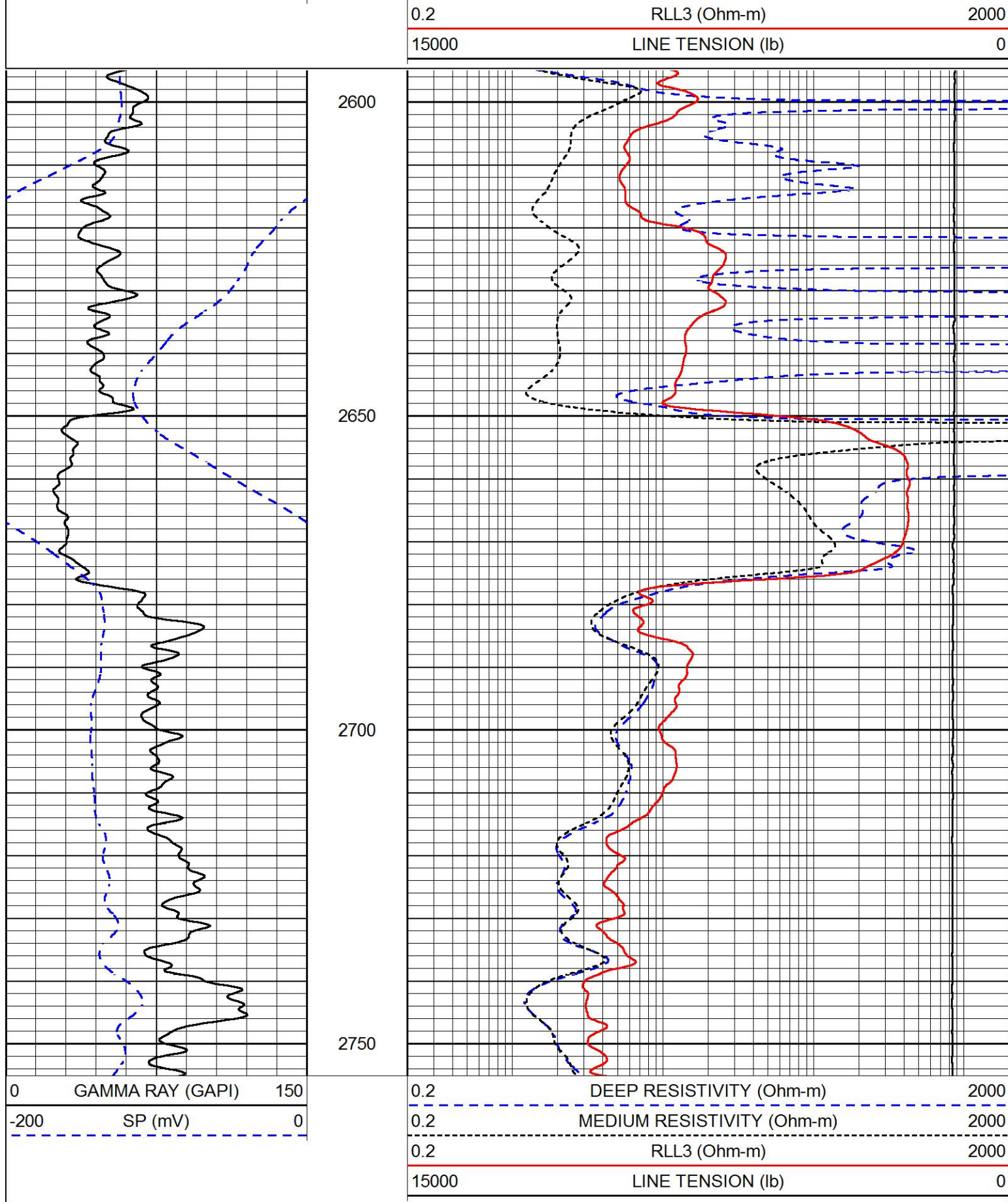


PIONEER
Pioneer Energy Services

MAIN PASS

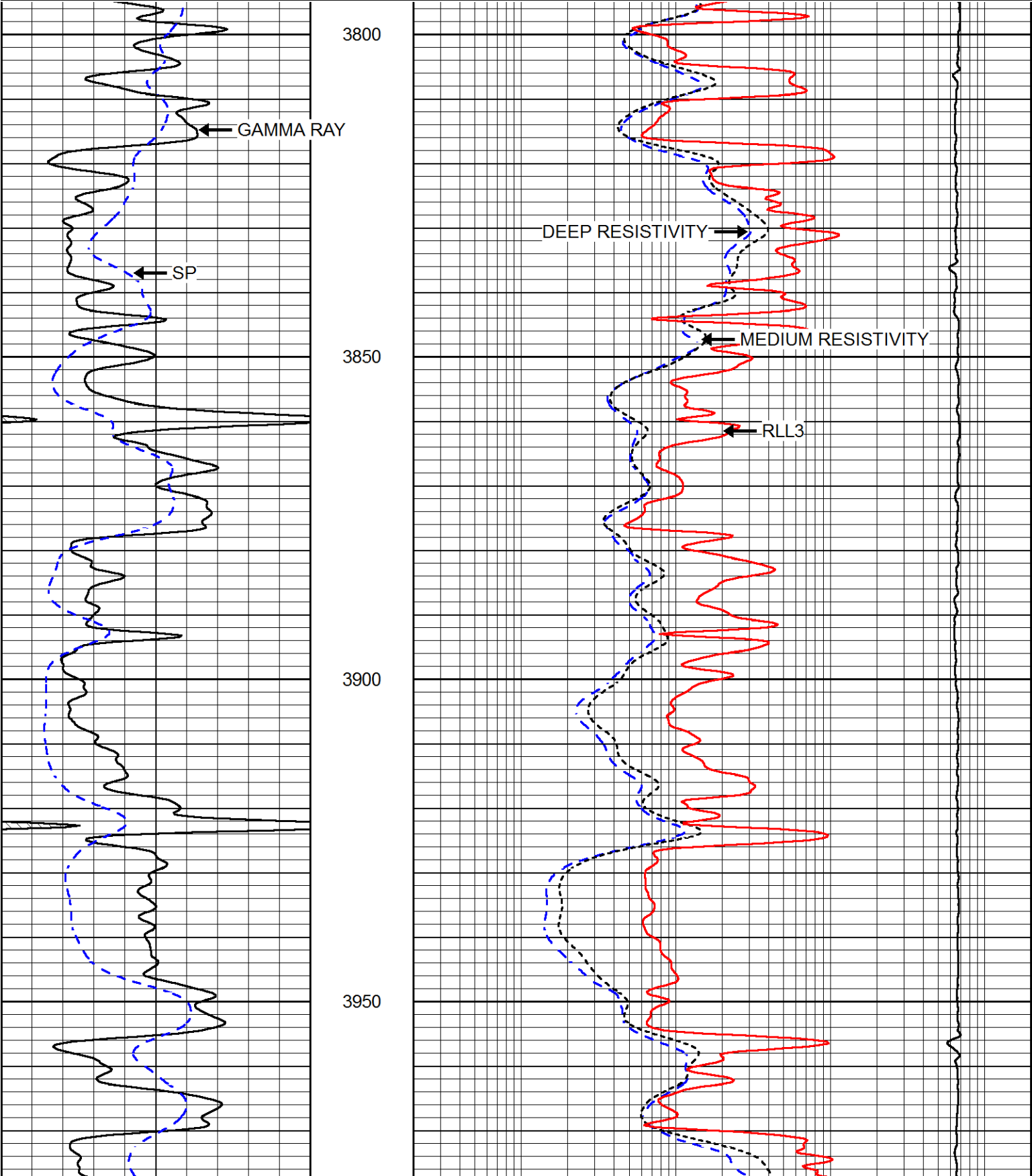
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Dataset Pathname	stackml/pass3.1		
Presentation Format	dil		
Dataset Creation	Thu Sep 07 14:06:47 2017		
Charted by	Depth in Feet scaled 1:240		

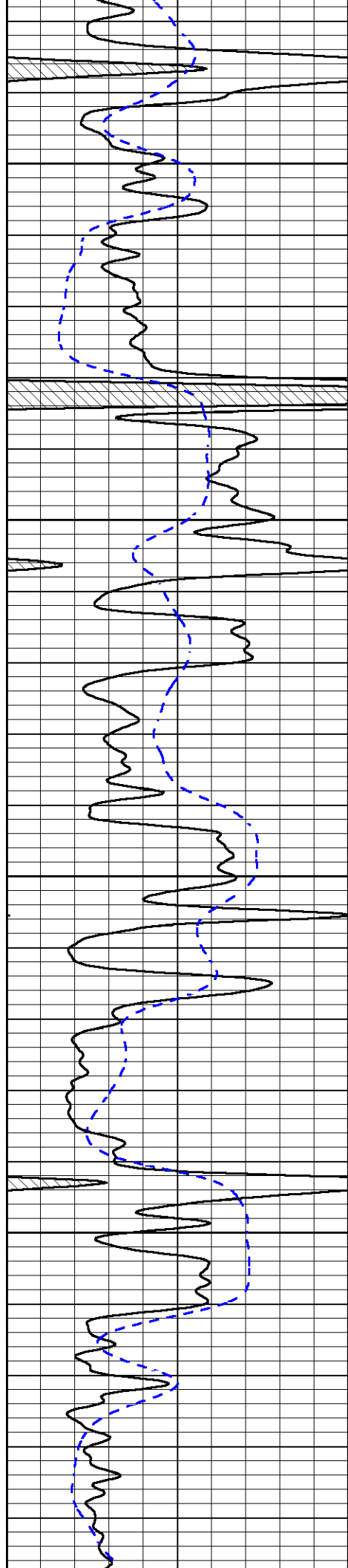
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-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000



Database File	elk_energy_hippelmann_1_14.db
Dataset Pathname	stackml/pass3.1
Presentation Format	dil
Dataset Creation	Thu Sep 07 14:06:47 2017
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	DEEP RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			15000	LINE TENSION (lb)	0



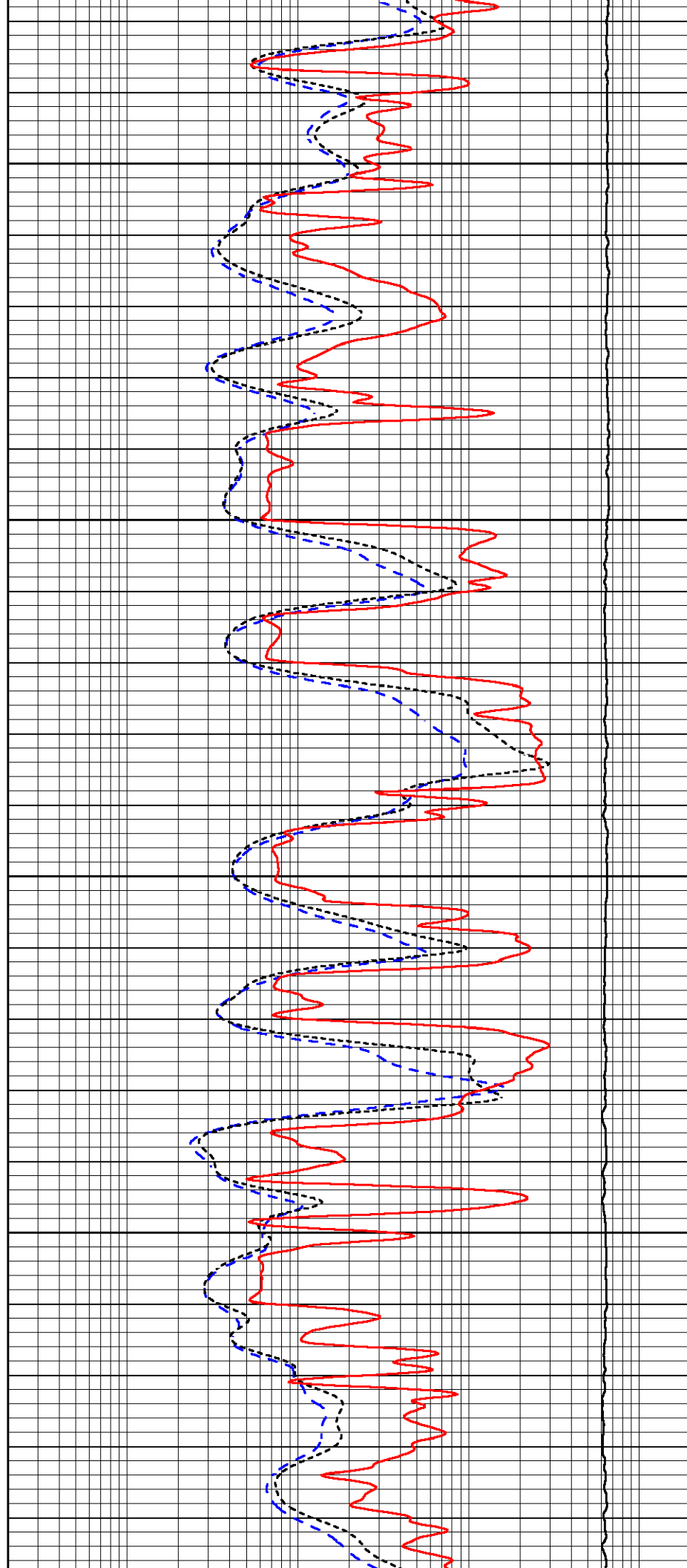


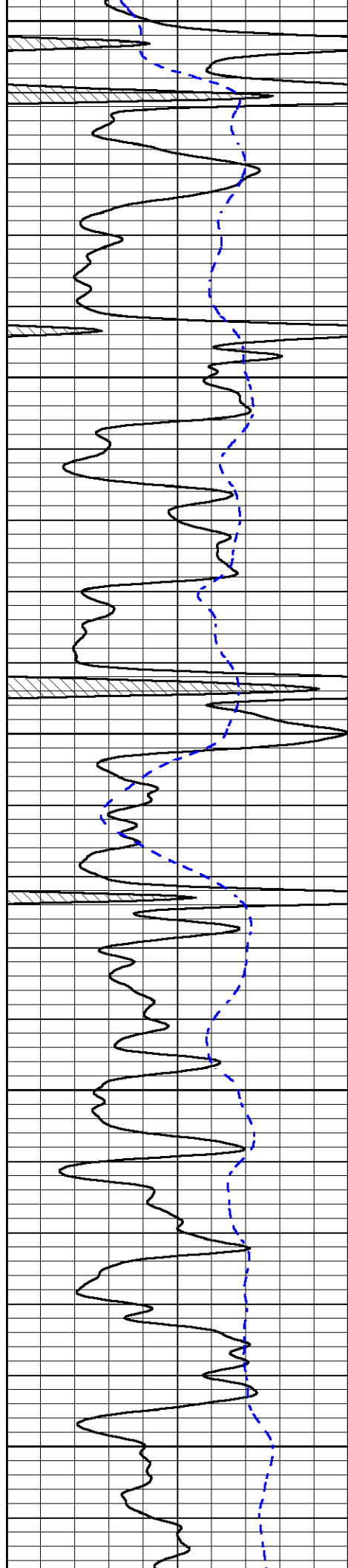
4000

4050

4100

4150





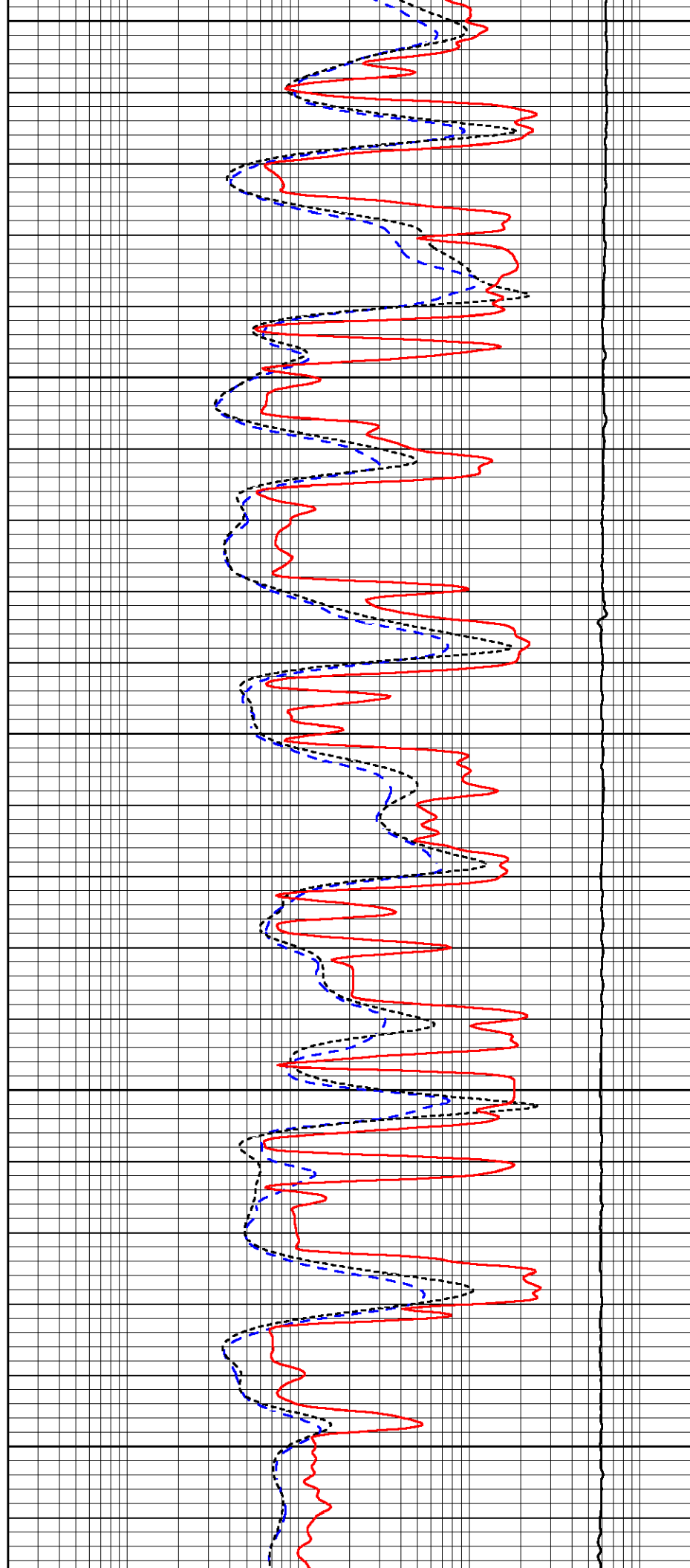
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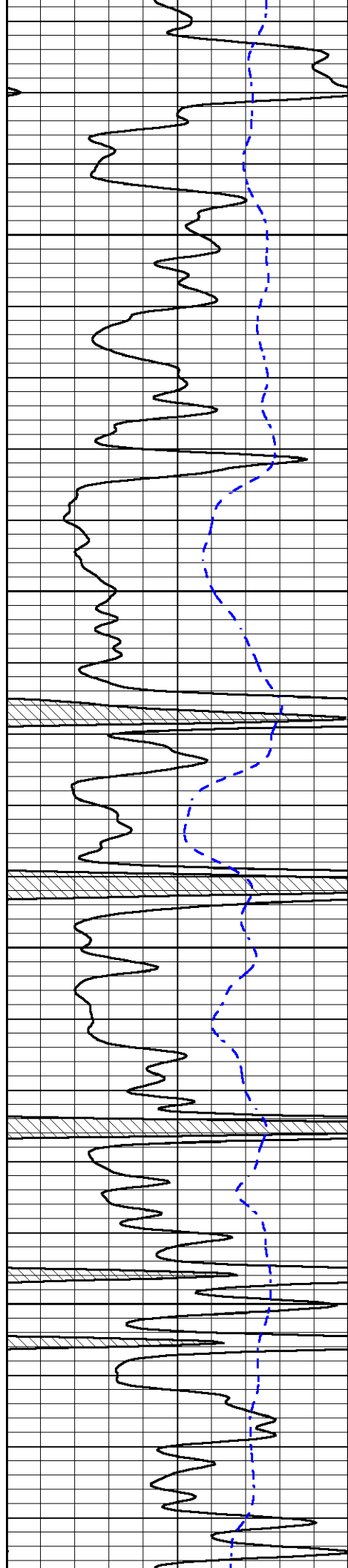
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4300

4350

4400



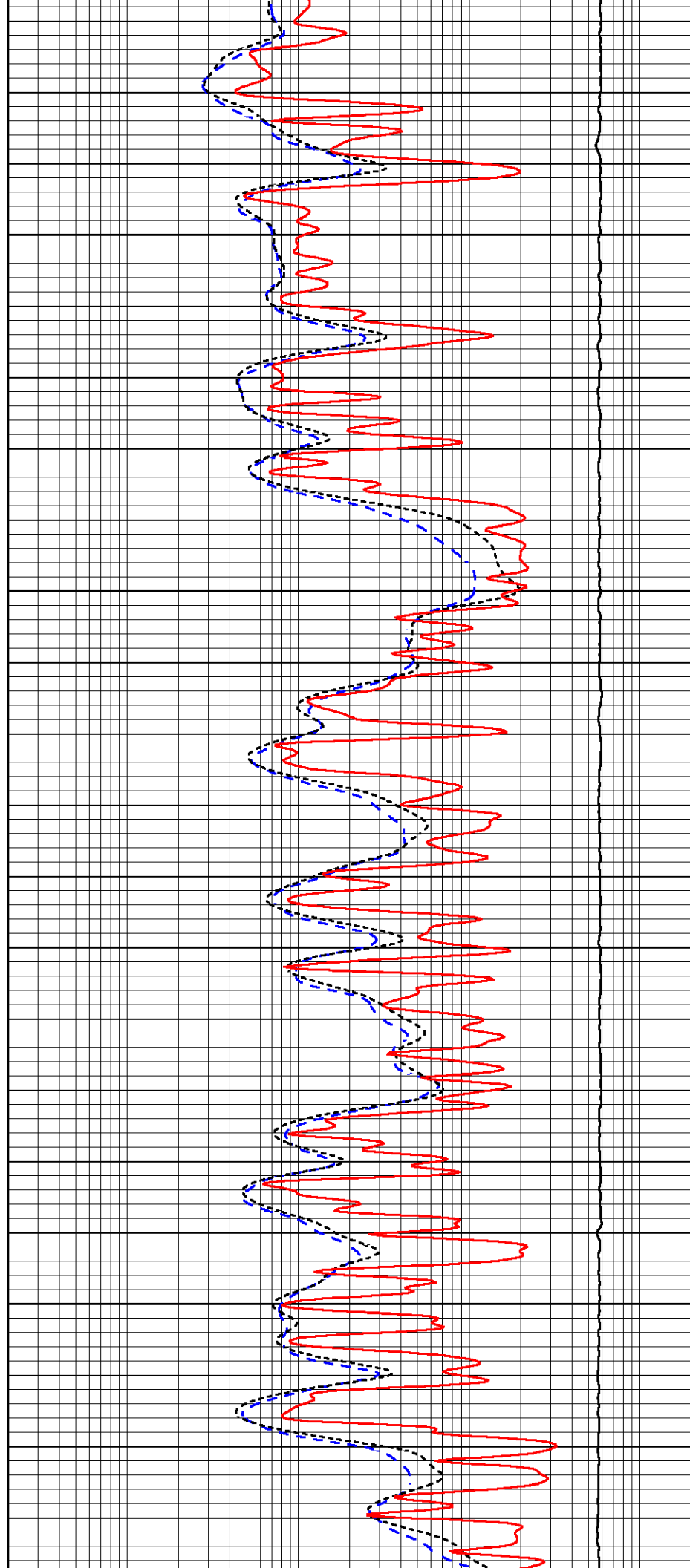


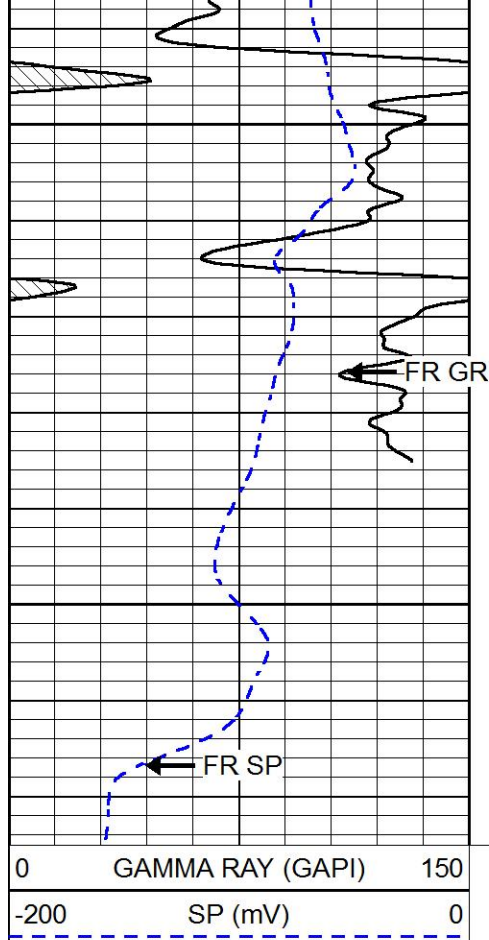
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4500

4550

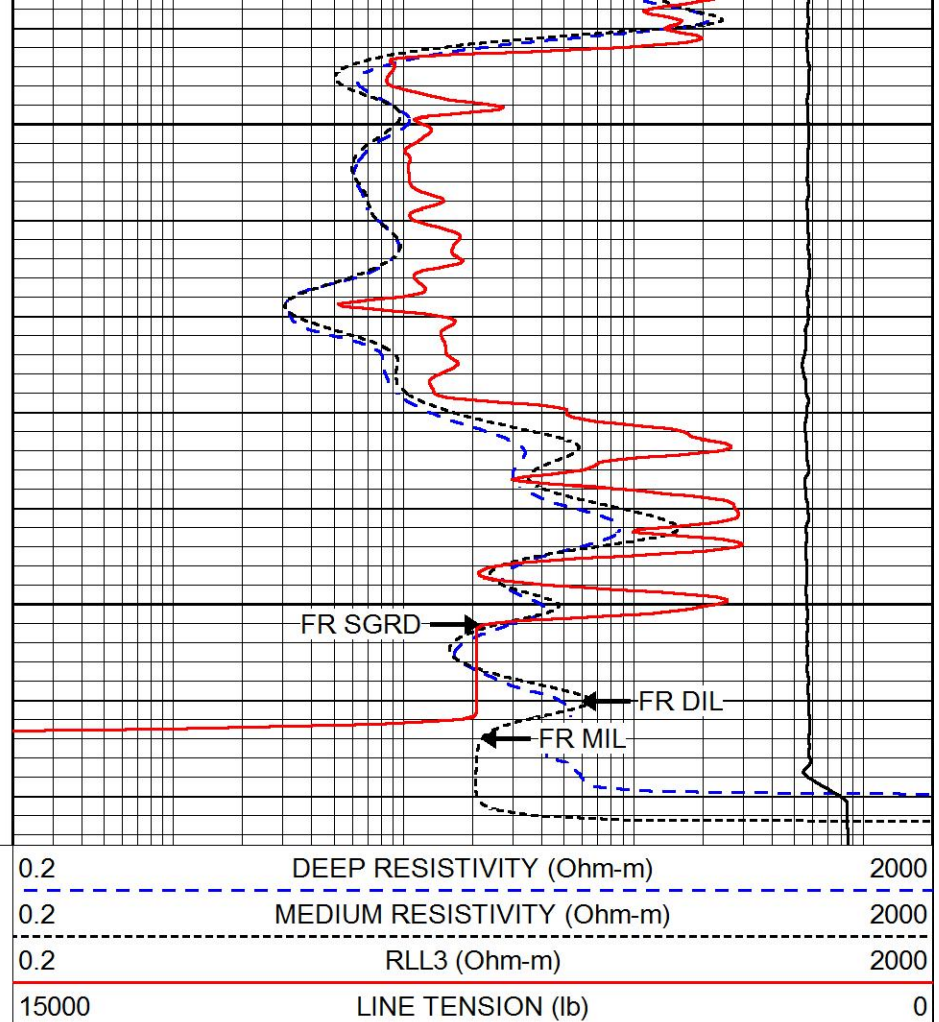
4600





4650

4700

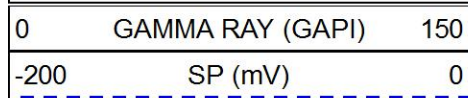


PIONEER

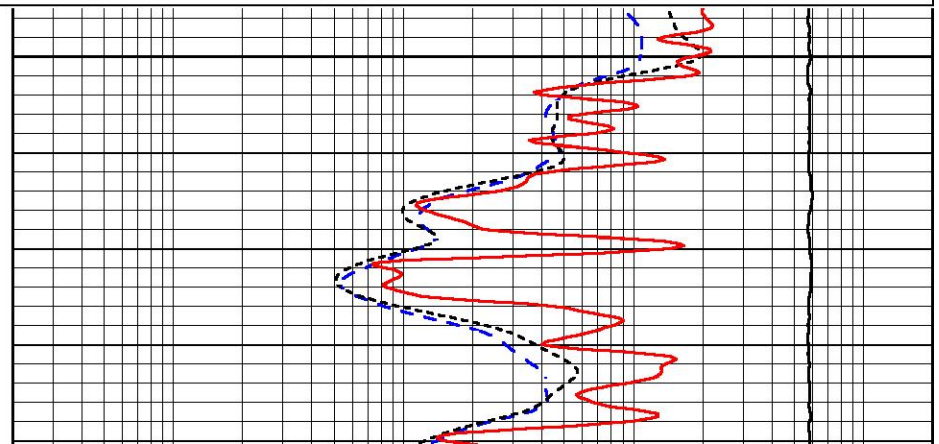
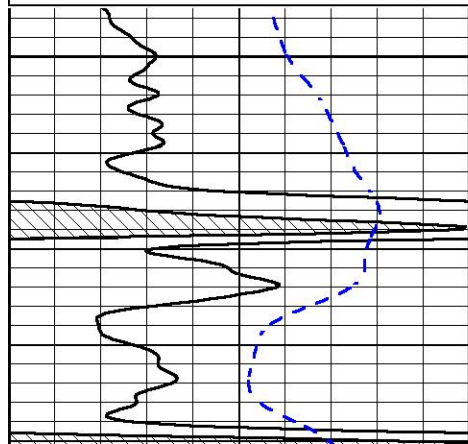
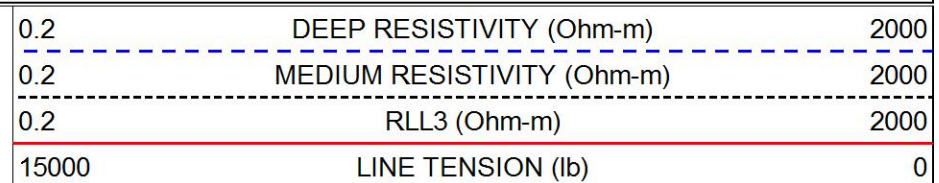
Pioneer Energy Services

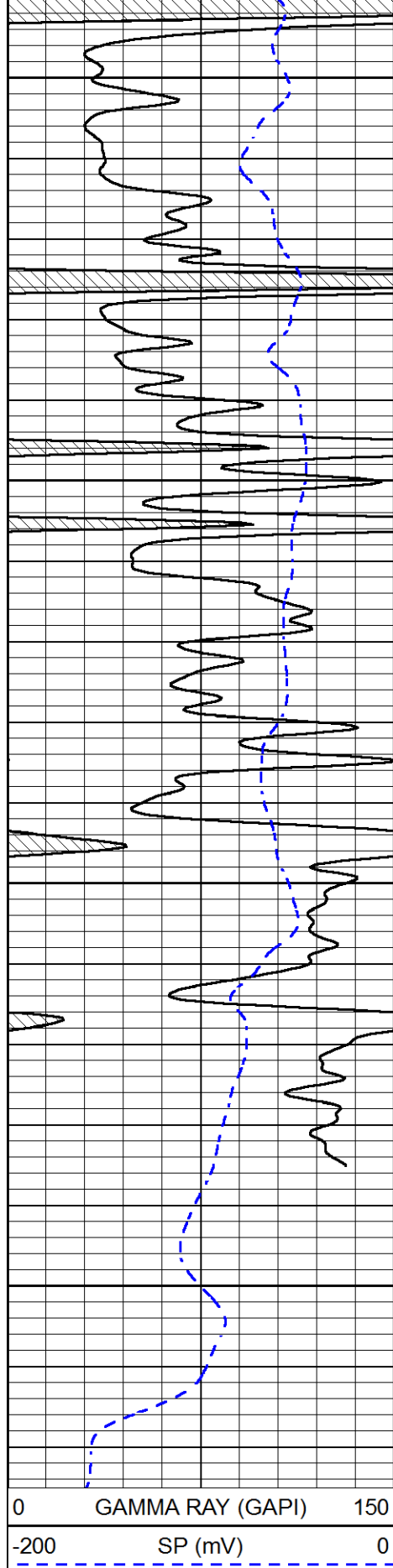
REPEAT SECTION

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 Dataset Creation Thu Sep 07 13:12:05 2017
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4500



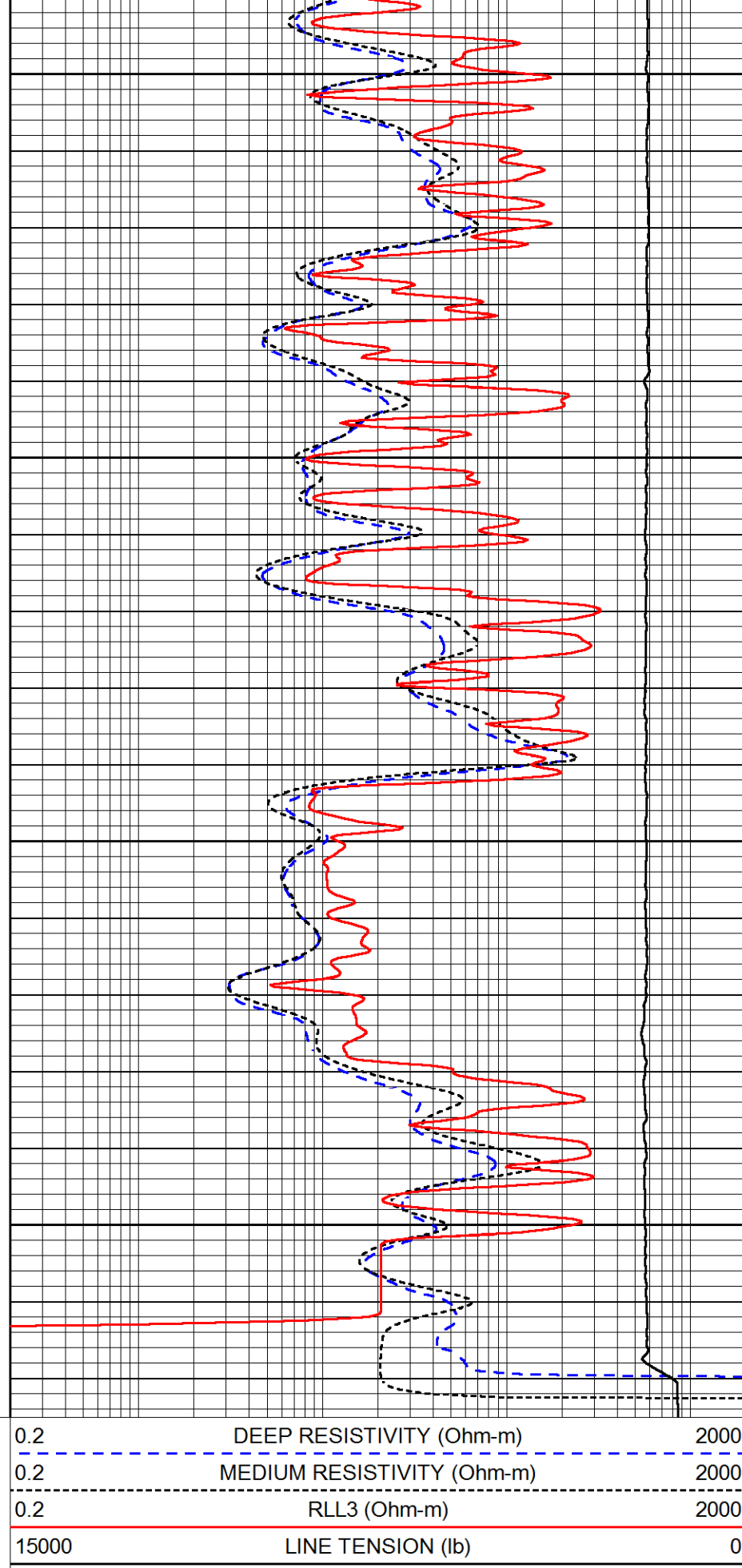


4550

4600

4650

4700



Calibration Report

Database File elk_energy_lippelmann_1_14.db

Dual Induction Calibration Report

Serial-Model:
Calibration Performed:

1987-M&W
Tue Apr 11 16:07:38 2017

		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		Gain	Offset
Deep	178.615	710.235		0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110		0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model:
Performed:

PSI-02-PSI STKBL ML
Fri Jun 23 00:25:19 2017

		Readings		References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0031	0.0043		0.0000	10.0000	Ohm-m	16000.0000	0.0000
Inverse	0.0000	0.0013		0.0000	10.0000	Ohm-m	18000.0000	0.0000
Caliper	1.0020	1.0834		5.5000	16.5000	in	135.1560	-131.4000

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:

168-986-M&W
/
Tue Apr 11 16:07:47 2017

Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.755	g/cc	4691.86		4818.19	cps
Aluminum		2.675	g/cc	859.57		3020.22	cps
Spine Angle = 74.61				Density/Spine Ratio = 0.523			
		Size		Reading			
Small Ring		4.00	in	1.03			
Large Ring		14.00	in	1.23			

Compensated Neutron Calibration Report

Serial Number:
Tool Model:
Calibration Performed:

tk10-MW
M&W
Wed Nov 16 11:21:36 2016

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:

89-M&W

Serial Number:	00 M&W
Tool Model:	M&W
Calibration Performed:	Tue Apr 11 16:08:01 2017

Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



Company	ELK ENERGY HOLDINGS, LLC
Well	LIPPELMANN NO 1-14
Field	WILDCAT
County	THOMAS
State	KANSAS

Sean Deenihan
Petroleum Geologist

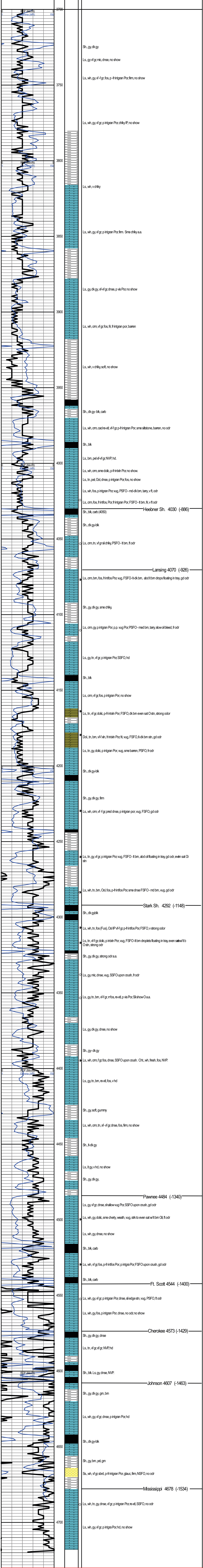
GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY	Elk Energy Holdings, LLC	ELEVATIONS
LEASE	Lippelmann #1-14	KB 3144'
FIELD	Wildcat	DF
LOCATION	2300' FNL & 2130' FWL	GL 3139'
SEC	14 TWP 10 S RGE 33 W	Measurements Are All From Kelly Bushing
COUNTY	Thomas STATE Kansas	
CONTRACTOR	WW Drilling Rig #2	
SPUD	COMP	
RTD	4720' LTD 4718'	CASING
MUD UP	TYPE MUD Chemical	CONDUCTOR
		SURFACE 8'-5'8" at 347'
SAMPLES SAVED FROM	3700' TO RTD	PRODUCTION 5.5" @ TD
DRILLING TIME KEPT FROM	3700' TO RTD	
SAMPLES EXAMINED FROM	3700' TO RTD	ELECTRICAL SURVEYS
GEOLOGICAL SUPERVISION FROM	3550'	Pioneer
REFERENCE WELL		CND/DIL, MIC
Formation	Sample Tops	E-log Tops
B./Anhydrite	2678 (-466)	Struct Pos.
Heebner Sh.	4030 (-886)	
Lansing	4070 (-926)	
Stark Sh.	4292 (-1148)	
Cherokee Sh.	4544 (-1400)	
Mississippi	4573 (-1429)	
	4678 (-1534)	

REMARKS Based on sample analysis, log evaluation, and relative structural position, the Lippelmann #1-14 will be further evaluated through production casing.

Respectfully Submitted,

Sean P. Deenihan



API # 15-193-20998-00-00											
Operator: ELK Energy Holdings LLC		Well Name & No: Lippelmann #1-14									
Location: 2300 FNL & 2130 FWL Section 14-10s-33w		County: Thomas		State: Kansas							
Rig No.: 2		Contractor: WW Drilling, LLC		Tool Pusher: Johnny Nicodemus							
Drill Collars: 14		Size: 6.26 x 2.25		Rig Phone:							
Take Pump: N K-380		Liner & Stroke:		6x14		Spud		9/1/2017 @ 2:00 PM			
Approx. TD: 4700'		Elevation: 3,139 G.L.		3144		Hole Complete:		9/7/2017 @ 8:30 AM			
Mud Co.: Andys Mud		Mud Engineer:				Water		WW Haul			
Date	09/01/17	09/02/17	09/03/17	09/04/17	09/05/17	09/06/17	09/07/17	09/08/17	09/09/17	09/10/17	
Days	1-spud	2-Drlg	3-Drlg	4-Drlg	5-Drlg	6-Drlg	7-Drlg	8-Cement	9-Done		
Depth		380	2040	3300'	3985'	4450'	4700'	4720'	4720'		
Ft. Cut		380	1660	1260'	685'	465'	250'	20			
Drill Time		0.5		20.75	20	22		1.5			
Down Time				90		1.5 LG	7 Bit trip				
Co. Time		WOC-10		1000	1.5			22.5	4.5		
Bit Wt.	all	10,000	20,000	30,000	38,000	38,000	38,000	38,000			
RPM	100	85	90	90	85	85	85	85			
Pressure	450	450	650	1000	700	750	750	800			
SPM	60	60	60	60	60	60	60	60			
Mud Cost			1650	5345	8593	8593	8,659	8,659	8,659		
Mud Wt.		8.5	8.8	9.4	8.8	9.2	9.3	9.3			
Viscosity		27	28	29	60	58	51	57			
Water Loss					7.6	8	9.6	9.6			
Chlorides					3000	3500	3500	3500			
L.C.M.				1#	1.5#	1#	1#	2#			
Dev. Sur		.75-344'									
Dev. Sur											
Fuel		3164	2882	2543	2204	1808	1413	1243	1243		
Water-Pit		1/4	1/2	1/4	1/4	Full	1/2	1/4			
ACC Bit Hrs.		0.5	23	43.75	63.75	85.75	6.75	8.25			
Formation	sd-sh	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm			
Weather		Clear	Clear	Cloudy	Clear	P/Cloudy	P/Cloudy	Clear			
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops		
1	12 1/4	Sm-tooth	344	344	3.5	3.5	RR	RD6072			
2	7 7/8	Sm-F24	4607'	4263'	94.25	97.75		RJ3654			
3	7 7/8"	Sm-F27		113	8.25	106		RJ2988			
4									ROP 44.52		
DEPTH	SIZE	SACKS	CEMENT MATERIAL		PLUG DOWN	DRILLED OUT	REMARKS				
344'	8 5/8	250	Common, 3% cc & 2% gel		8:30 PM		Global Did Circulate				
113 jts		175	Bottom + 30 Rathole								
4715'	5 1/2"	395	n The Top and DV tool @ 264		7:30 AM		Quality Did Circulate				
NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY					
1											
2											
3											
4											
5											
6											
7											
8											
9											
surface Casing Furnished by: Jayhawk. Ran 8 joints of 8 5/8" tally 336.91 set @ 344'											
Remarks: Strap & weld surface by WW Rusty. Anhydrite @ 2655'-2700' Displaced @ 3491' (750 bbls). Short trip @ 3752' (20 stands) 1.5 hrs. Logged by Pioneer (LTD 4718') 2.5 hrs. Ran 113 joints of 5 1/2" casing, set @ 4715' DV Tool @ 2640', Cemented w/600 total sx cement by Quality cementing. Plug down @ 7:30 am, 9/8/2017. Released rig @ 11:30 am, 9/8/2017.											

API #												
Operator:				Well Name & No:								
Location:							County:			State:	Kansas	
Rig No.:			Contractor:	WW Drilling, LLC			Tool Pusher:					
Drill Collars:			Size:				Rig Phone:					
Take Pump:				Liner & Stroke:						Spud		
Approx. TD:				Elevation:			G.L.:			KB Hole Complete:		
Mud Co.:				Mud Engineer:						Water		
Date												
Days												
Depth												
Ft. Cut												
D.T.												
D.T.												
C.T.												
Bit Wt.												
RPM												
Pressure												
SPM												
Mud Cost												
Mud Wt.												
Viscosity												
Water Loss												
Chlorides												
L.C.M.												
Dev. Sur												
Dev. Sur												
Fuel												
Water-Pit												
ACC Bit Hrs.												
Formation												
Weather												
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops			
1	12 1/4	Smith					RR					
2	7 7/8	Sm - F-27					New					
3												
4												
DEPTH	SIZE	SACKS	CEMENT MATERIAL		PLUG DOWN	DRILLED OUT	REMARKS					
	8 5/8		Common, 3% cc, 2% gel									
NO	INTERVAL		OPEN	SHUT	OPEN	SHUT	RECOVERY					
1												
2												
3												
4												
5												
6												
7												
8												
9												
Surface Casing Furnished by:												
Remarks: Spud @												

3127

SERVICE POINT

Russell

TOTAL _____

REMARKS:

Ran 8 lbs of 8# cement C313
Cement w/ 250 lbs cement.
pump plug w/ 205 bbl of water
Cement did cure
Thank,

CHARGE TO: EIK Energy Holding
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____
PUMP TRUCK CHARGE _____
EXTRA FOOTAGE _____ @ _____
MILEAGE _____ @ _____
MANIFOLD _____ @ _____
_____ @ _____
_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
SIGNATURE *[Signature]*

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL		

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

January 16, 2018

Rebecca Hayes
ELK Energy Holdings, LLC #35420
2250 N. Rock Road, STE 118-107
Wichita, KS 67226

Re: Lippelmann 1-14
NW Sec. 14-T10s-R33w
Thomas County, Kansas
API# 15-193-20998-00-00

Dear Ms. Hayes,

The Kansas Corporation Commission has received your request for an exception to the Alternate II cementing requirements for the Lippelmann 1-14. From the request, staff acknowledges the well was not cemented to surface pursuant to K.A.R. 82-3-106.

According to the request, the well has 344 feet of 8 5/8" surface casing set with 250 sacks of cement circulated to surface and 4,714 feet of 5 1/2" production casing set with 175 sacks of cement. The bond log indicates cement was circulated from a depth of 2,635 feet to 430 feet with 425 sacks of cement. The base of fresh water is reported at 250 feet and the base of usable water is reported at 1,850 feet. The top of the Dakota Formation is at 1,550'.

After review of this matter by technical staff it was determined that the current construction of the well demonstrates that all fresh and usable water is protected. In accordance with K.A.R. 82-3-106(f) an exception is granted for the Alternate II cementing requirement for the Lippelmann 1-14 well.

Sincerely,

Ryan A. Hoffman
Director

Cc: Case Morris, District 4 Supervisor
Rene Stucky, Production Supervisor