

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	HARRINGTON 1
Doc ID	1321731

Tops

Name	Top	Datum
Stone Corral	1047	+1026
Heebner Shale	4264	-2191
Lansing Group	4403	-2330
Iola	4706	-2633
Swope	4882	-2809
Hertha	4933	-2860
Marmaton Group	5000	-2927
Pawnee	5090	-3017
Ft. Scott	5130	-3057
Cherokee Shale	5150	-3077
Morrow	5272	-3199
Miss Chester	5300	-3227
St. Genevieve	5338	-3265
TD	5385	-3312

Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	HARRINGTON 1
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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	5092-5098	acidize w/ 600 gals. 15% MCA	5092-5098



DUAL INDUCTION LOG

Company: BECKER OIL CORPORATION
 Well: HARRINGTON #1
 Field: ASHLAND NORTHEAST
 County: CLARK
 State: KANSAS

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 Well: HARRINGTON #1
 Field: ASHLAND NORTHEAST
 County: CLARK
 State: KANSAS

Location: API #: 15-025-21590-00-00
 1550' FSL & 330' FEL
 SEC 25 TWP 32S RGE 23W
 Permanent Datum: GROUND LEVEL Elevation 2062'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: CNL/CDL
 Elevation: K.B. 2073', D.F. N/A, G.L. 2062'

Date	8/6/2016
Run Number	ONE
Depth Driller	5385'
Depth Logger	5388'
Bottom Logged Interval	5387'
Top Log Interval	750'
Casing Driller	8.625" @ 758'
Casing Logger	758'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	11800
Density / Viscosity	9.0 56
pH / Fluid Loss	8.5 12.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.24 @ 82
Rmt @ Meas. Temp	0.18 @ 82
Rmc @ Meas. Temp	0.32 @ 82
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.15 @ 130
Operating Rig Time	3 HOURS
Max Rec. Temp. F	130
Equipment Number	91
Location	COLBY
Recorded By	D. SCHMIDT
Witnessed By	CLYDE BECKER

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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.

ASHLAND,
 2 1/2 NORTH ON DODGE RD,
 WEST AND SOUTH TO LOCATION

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: CLYDE BECKER Secondary Witness: Secondary Witness: Secondary Witness:
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Database File becker_harrington_1hd.db
 Dataset Pathname DIL/bestack
 Presentation Format dil2in
 Dataset Creation Sat Aug 06 18:57:16 2016
 Charted by Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150

1000 Conductivity 0

15000 Line Tension (lb) 0

0 Shallow Resistivity (Ohm-m) 50

LSPD

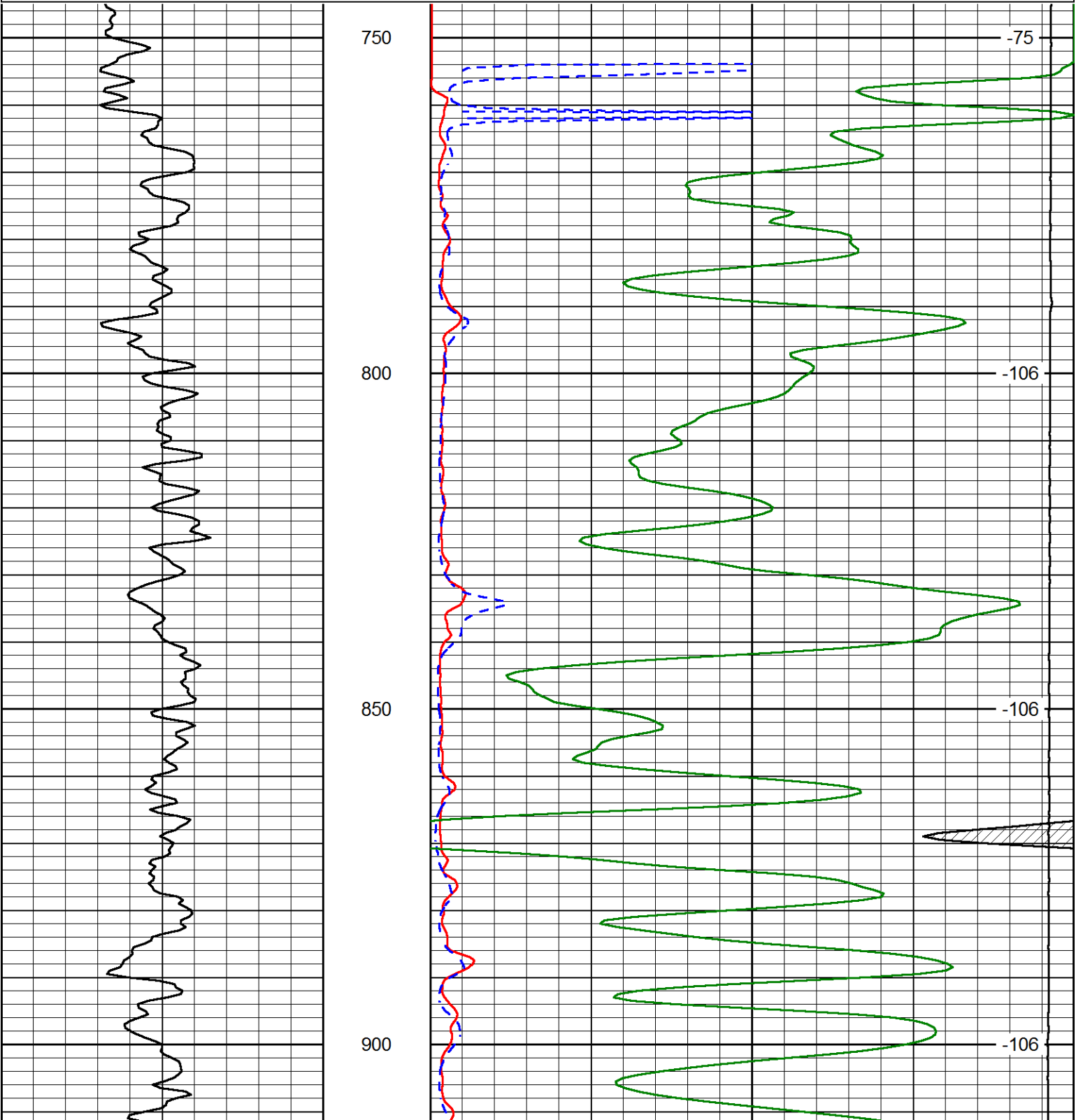
0 Deep Resistivity (Ohm-m) 50

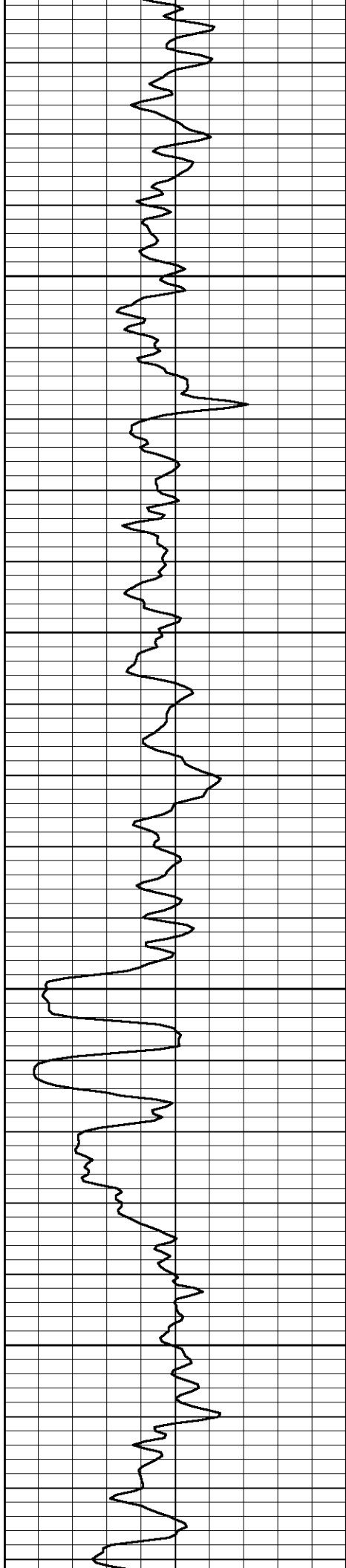
(ft/min)

Shallow Resistivity

50 (Ohm-m) 500

50 Deep Resistivity (Ohm-m) 500



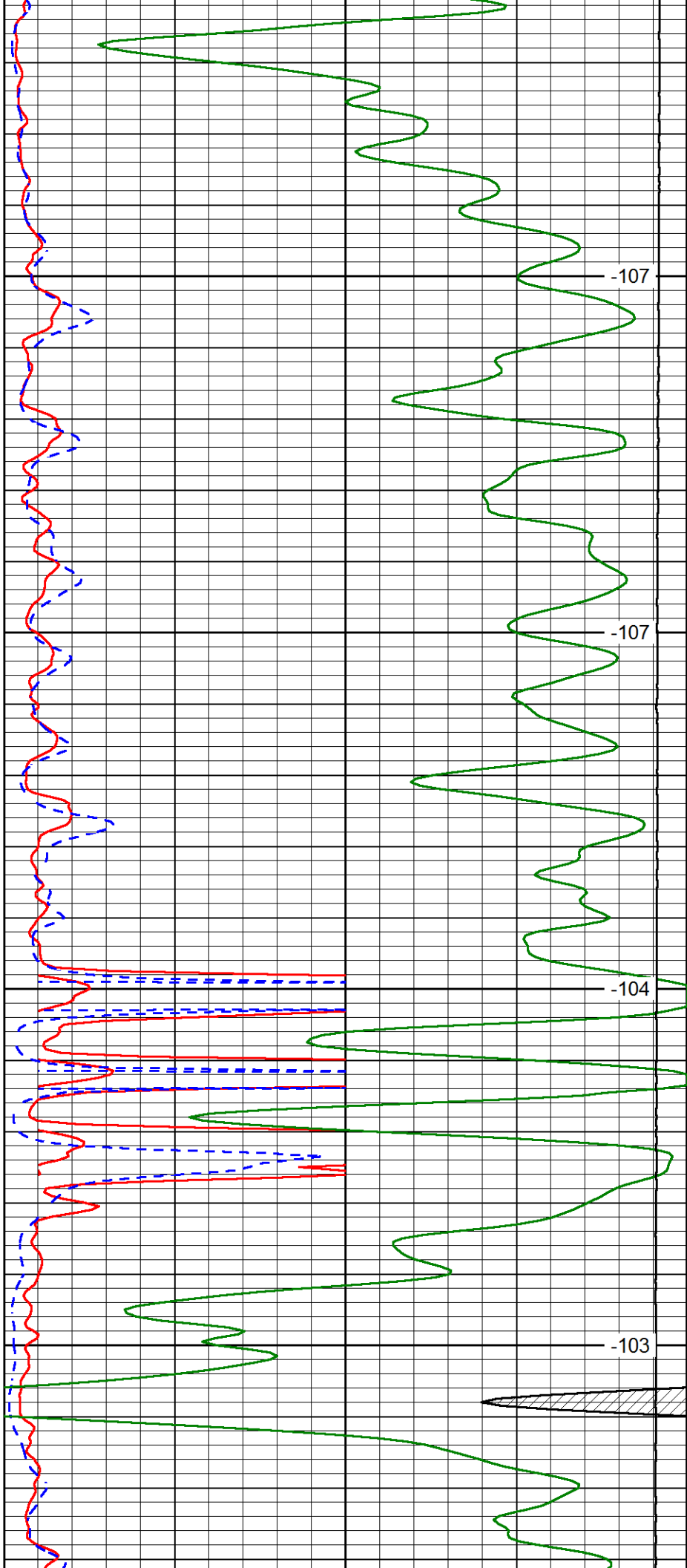


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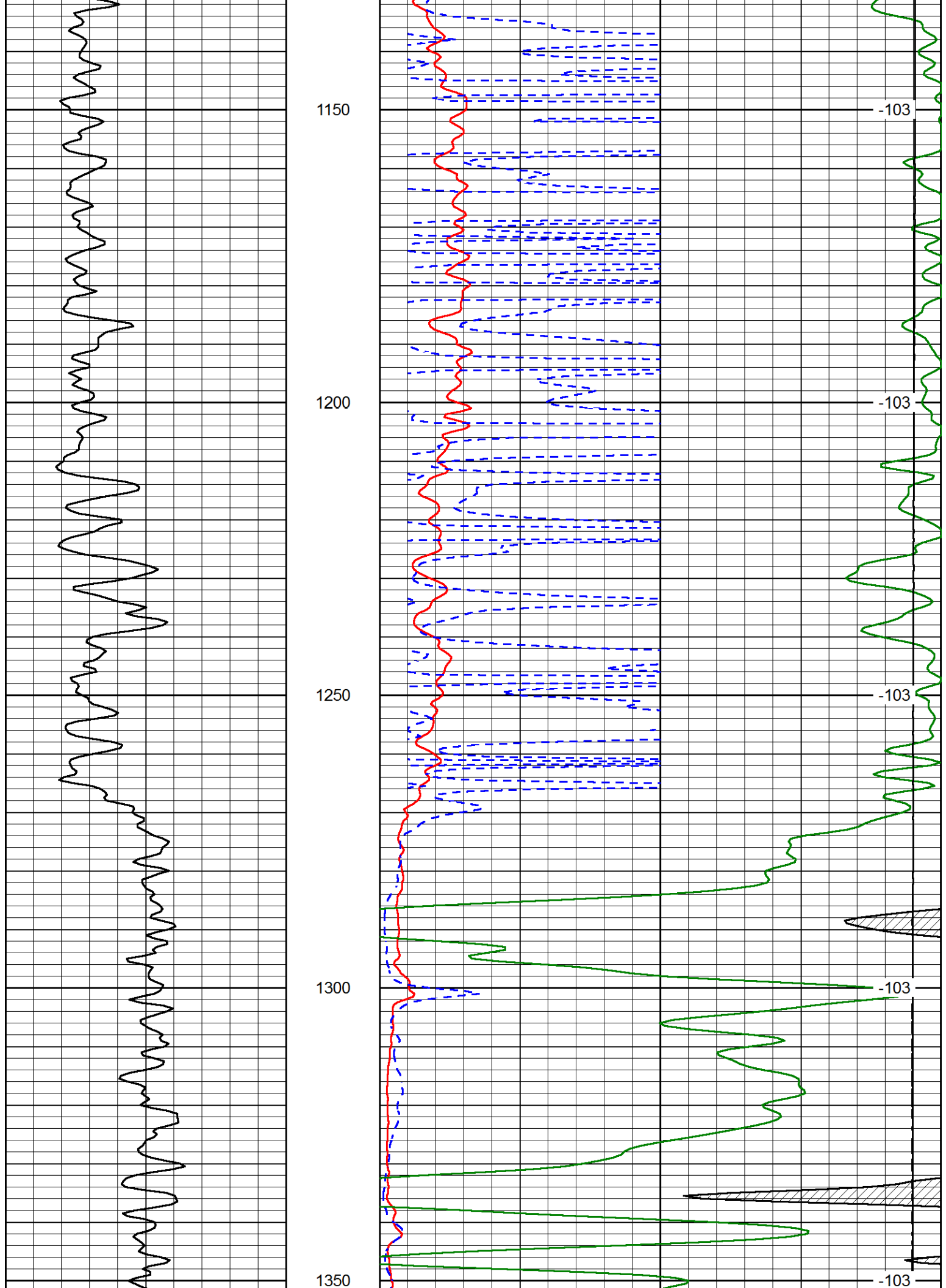


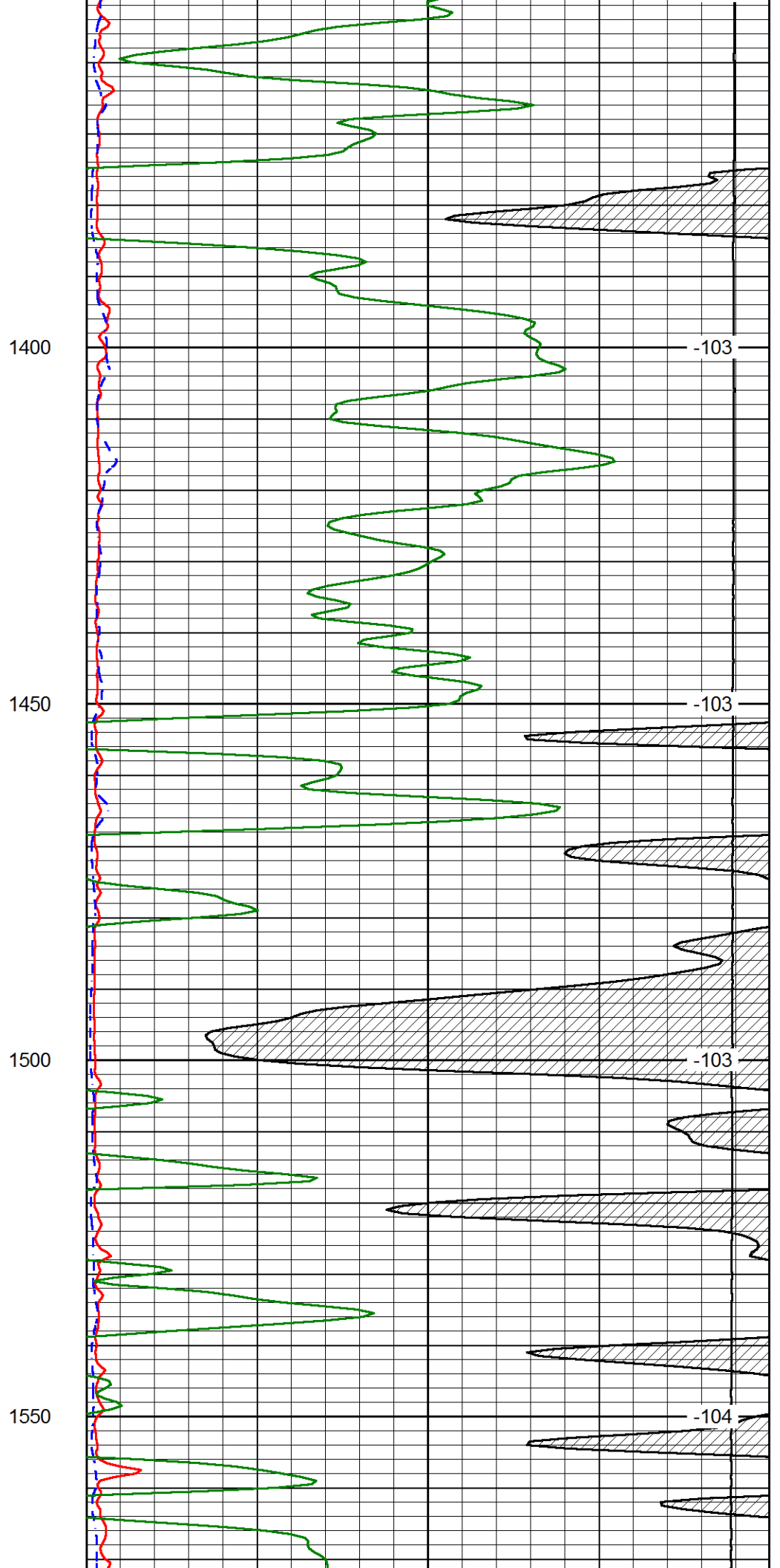
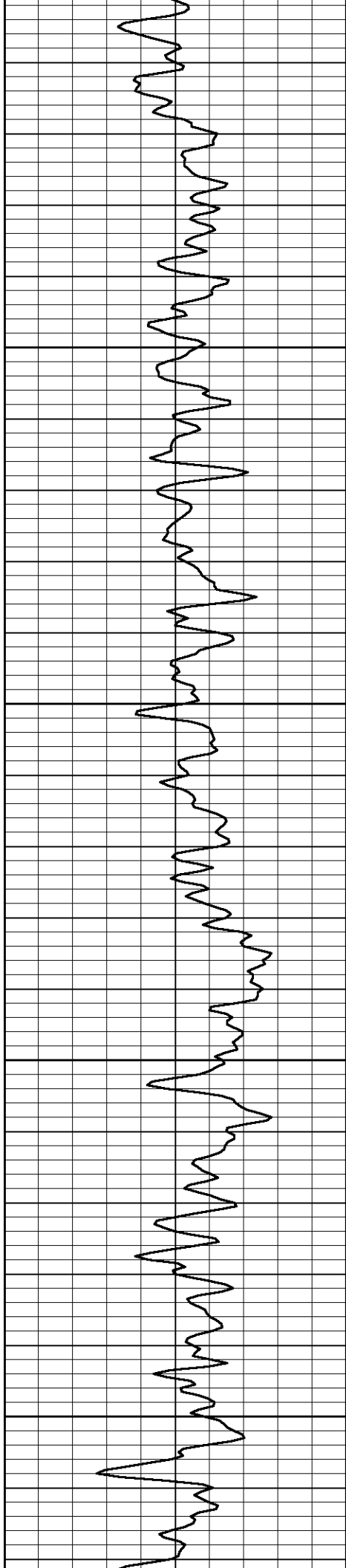
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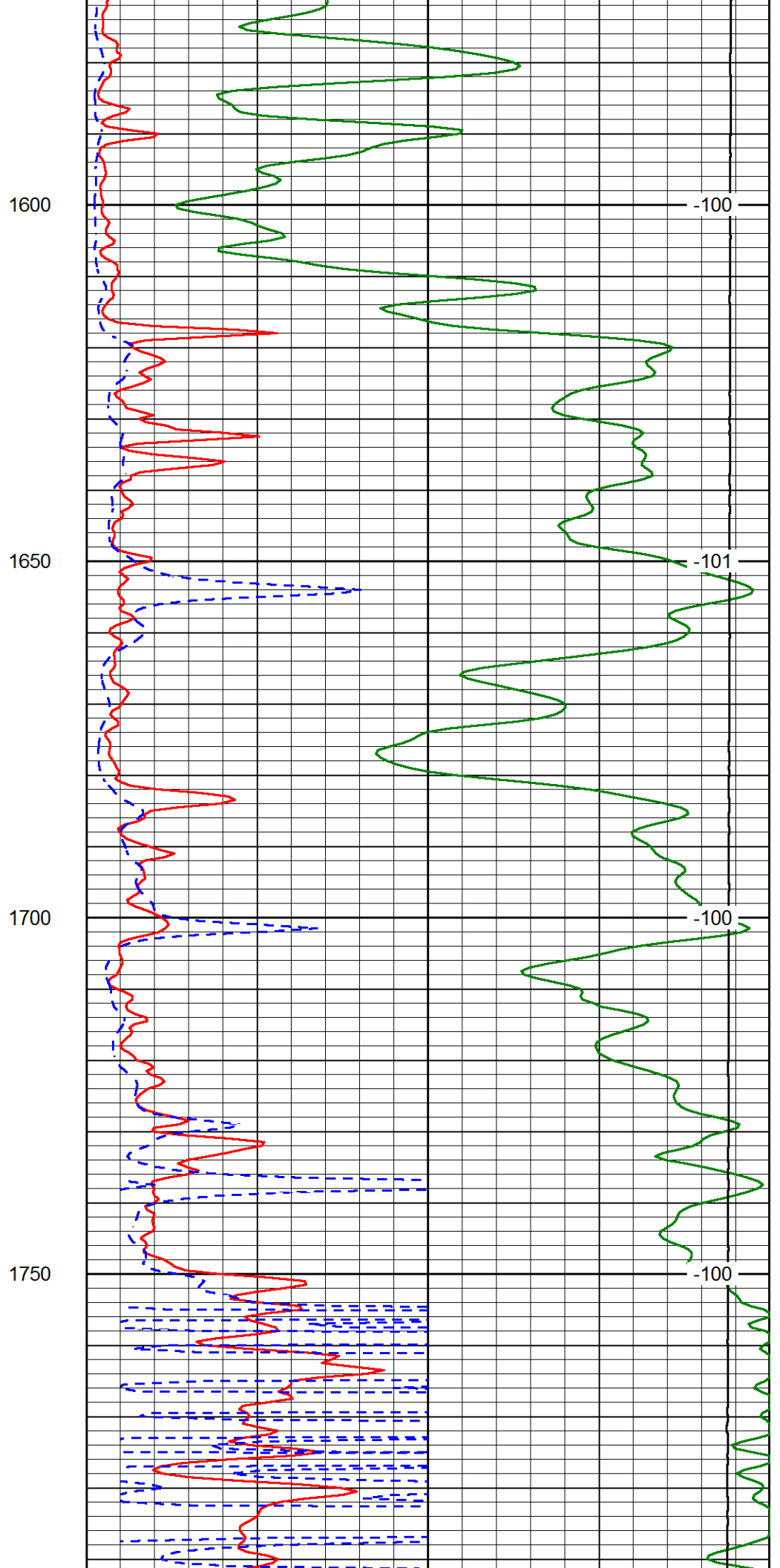
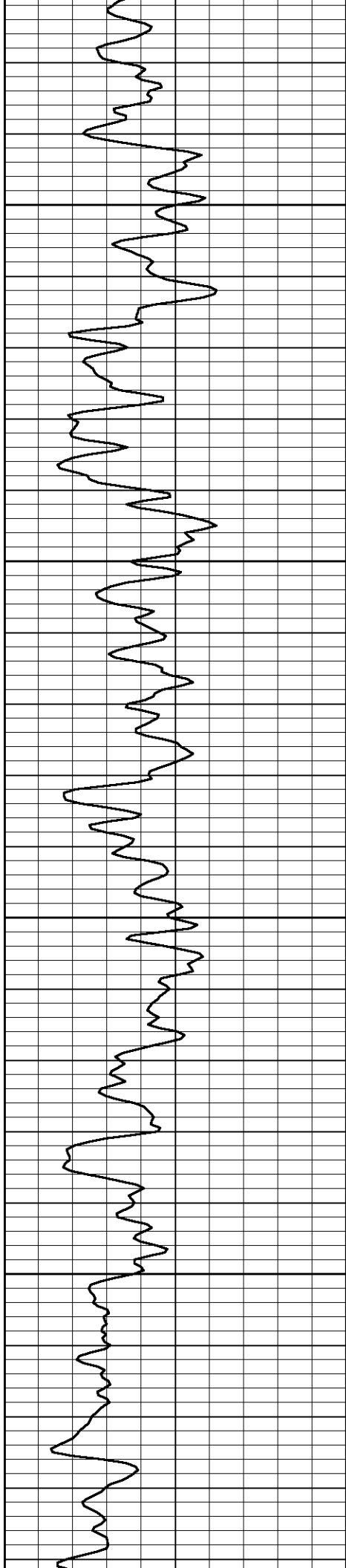
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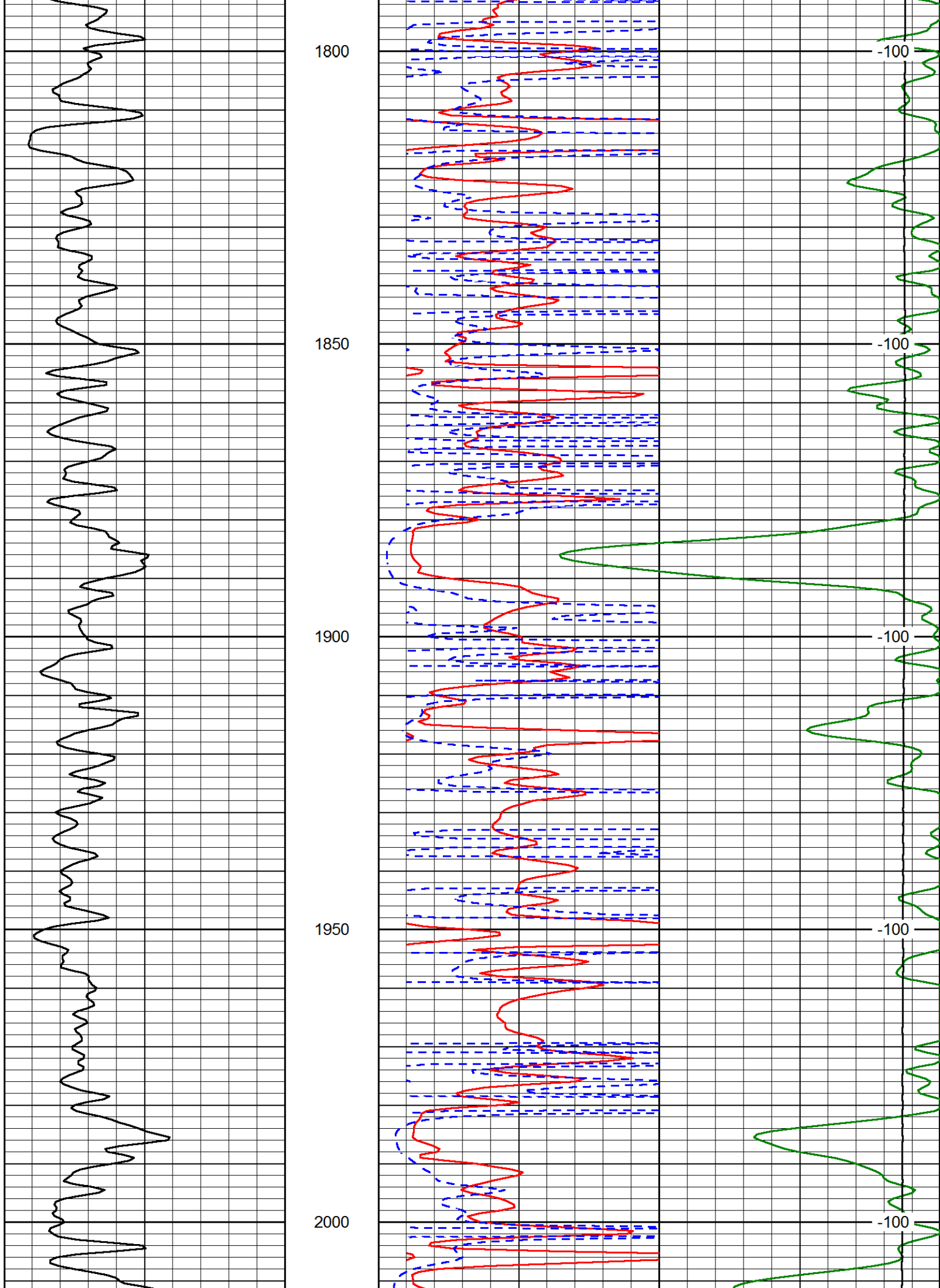
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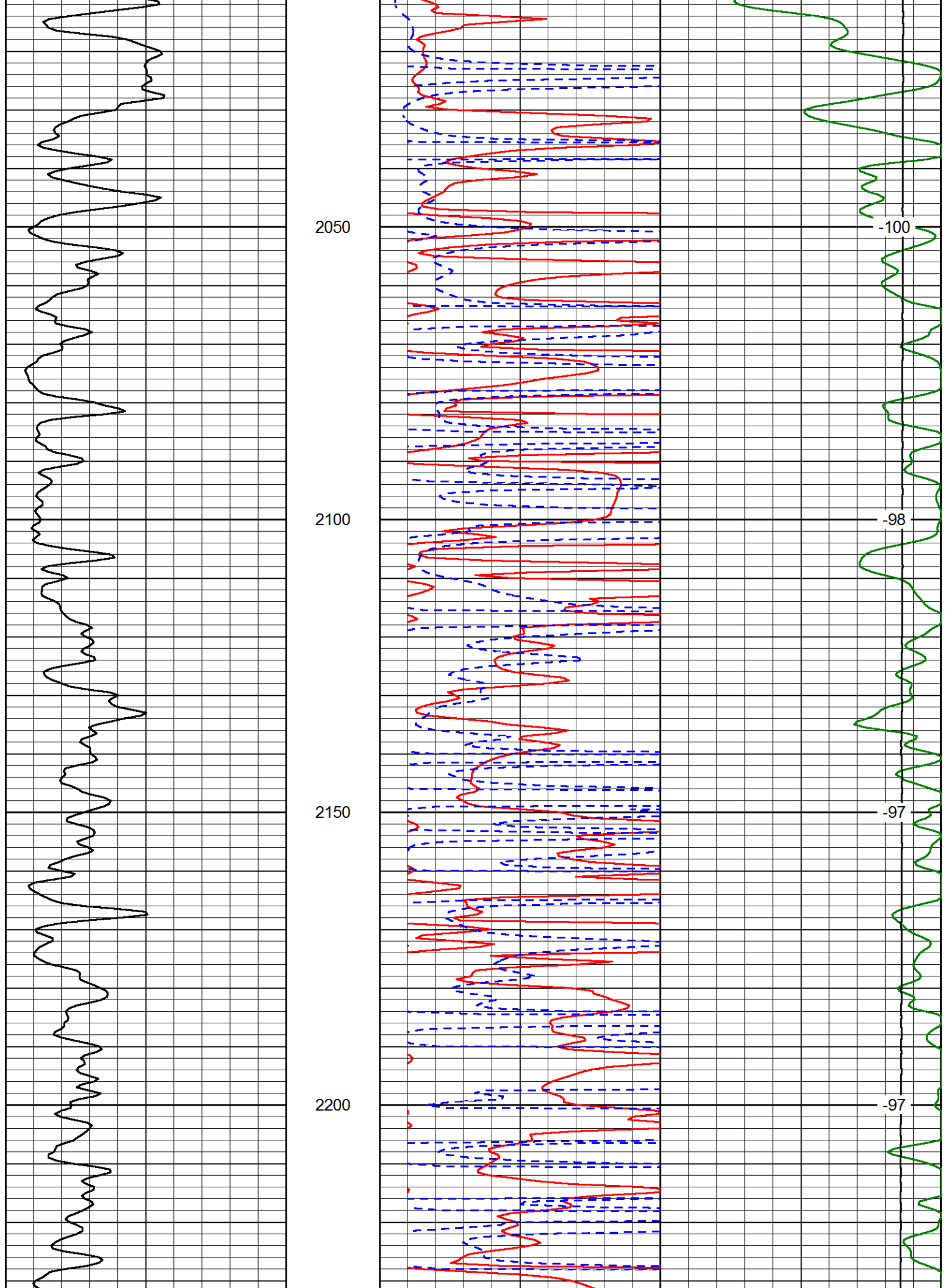
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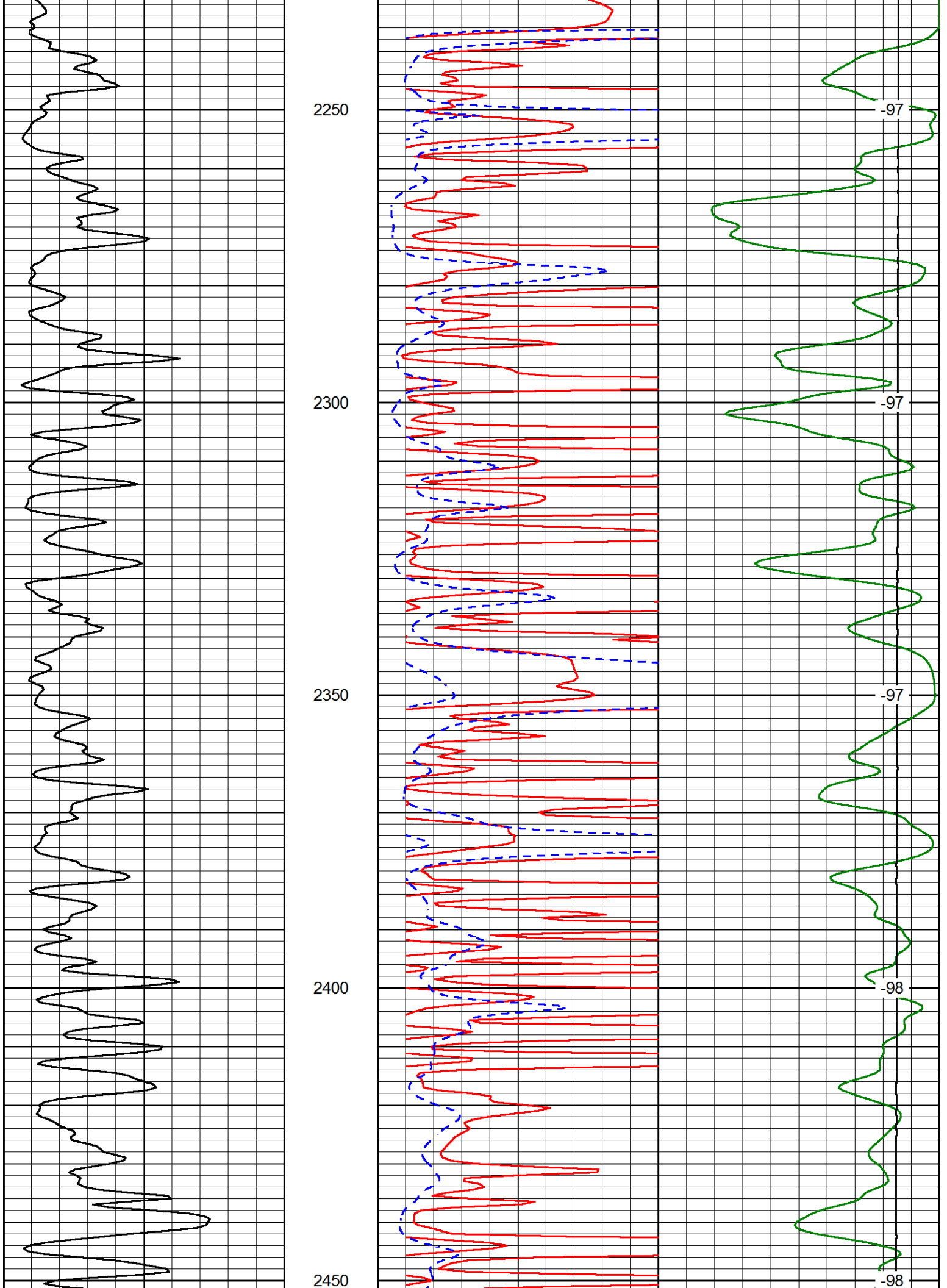


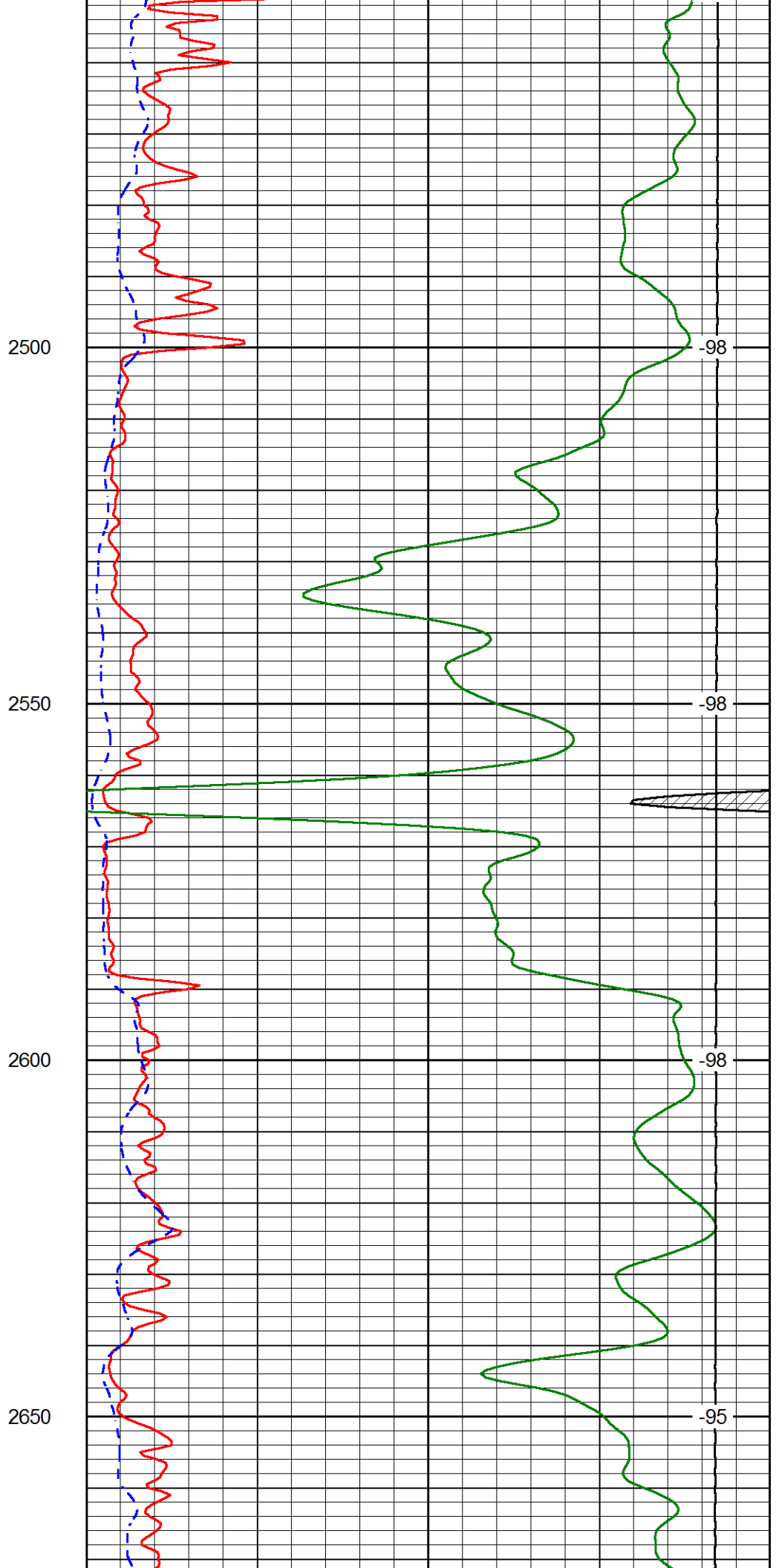
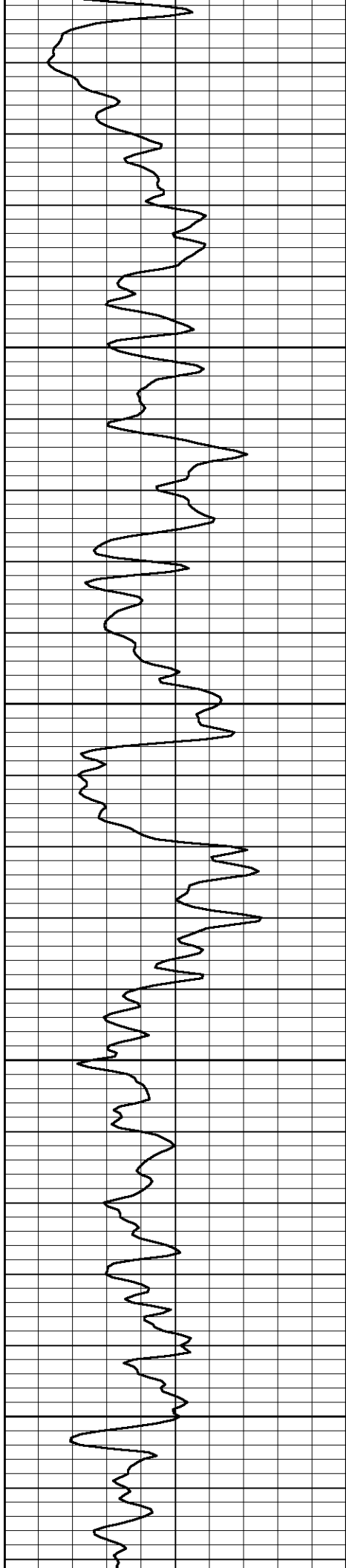


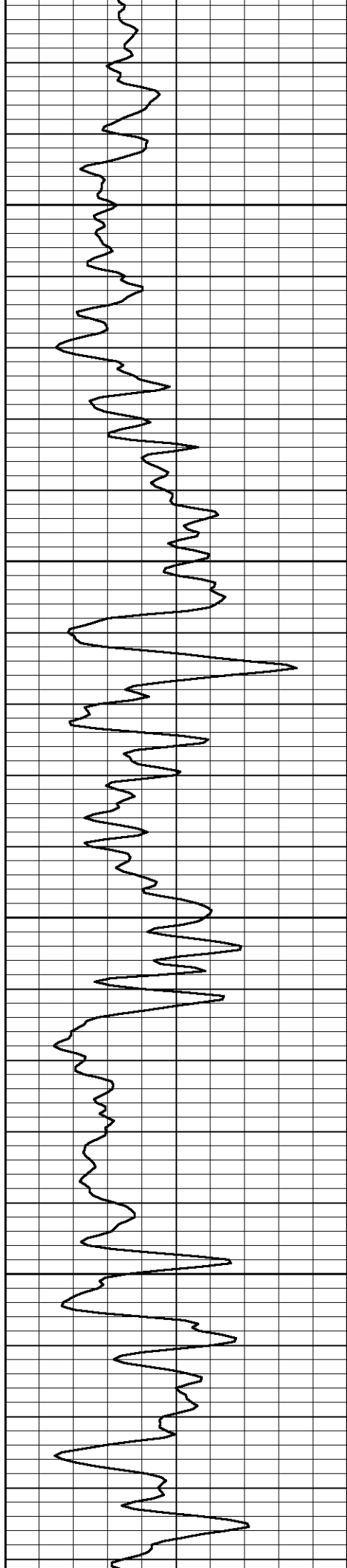










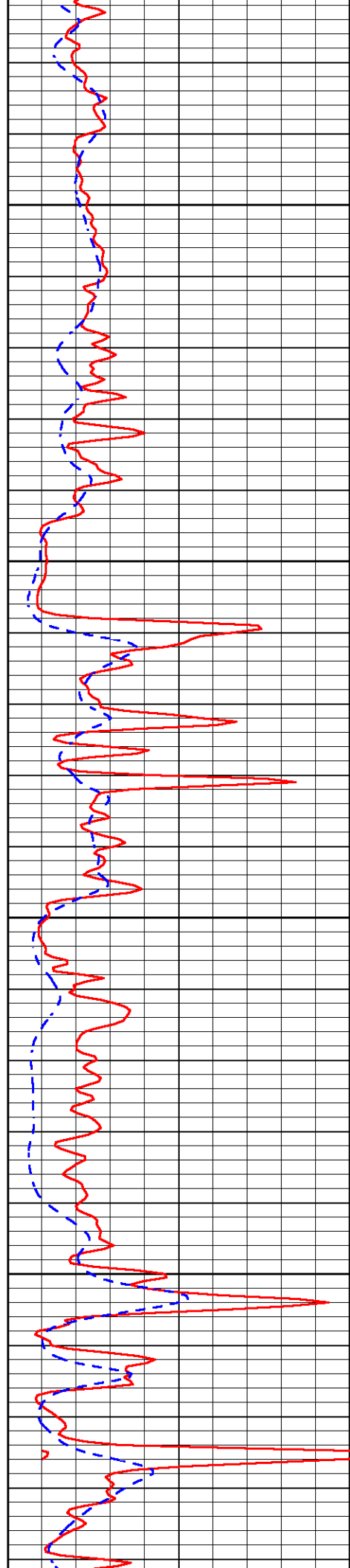


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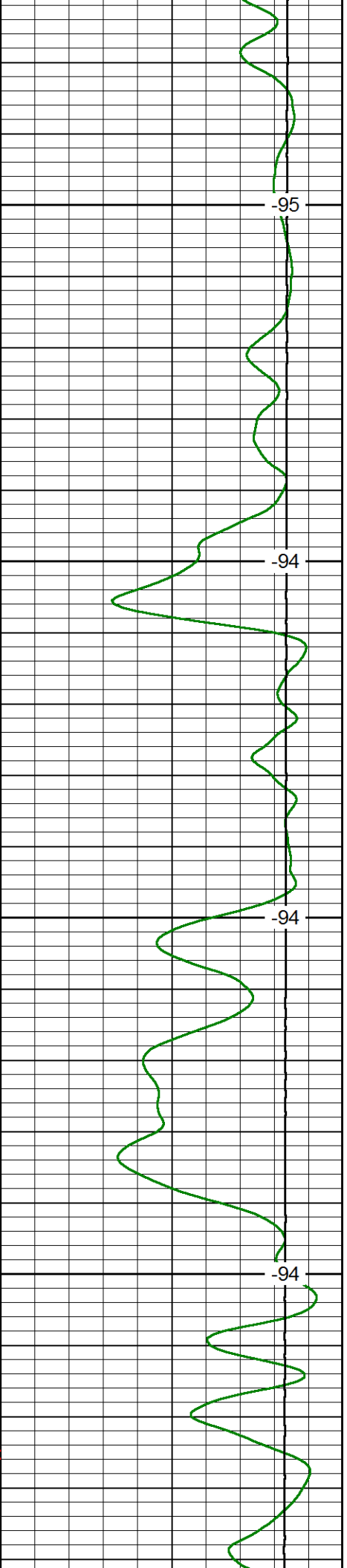


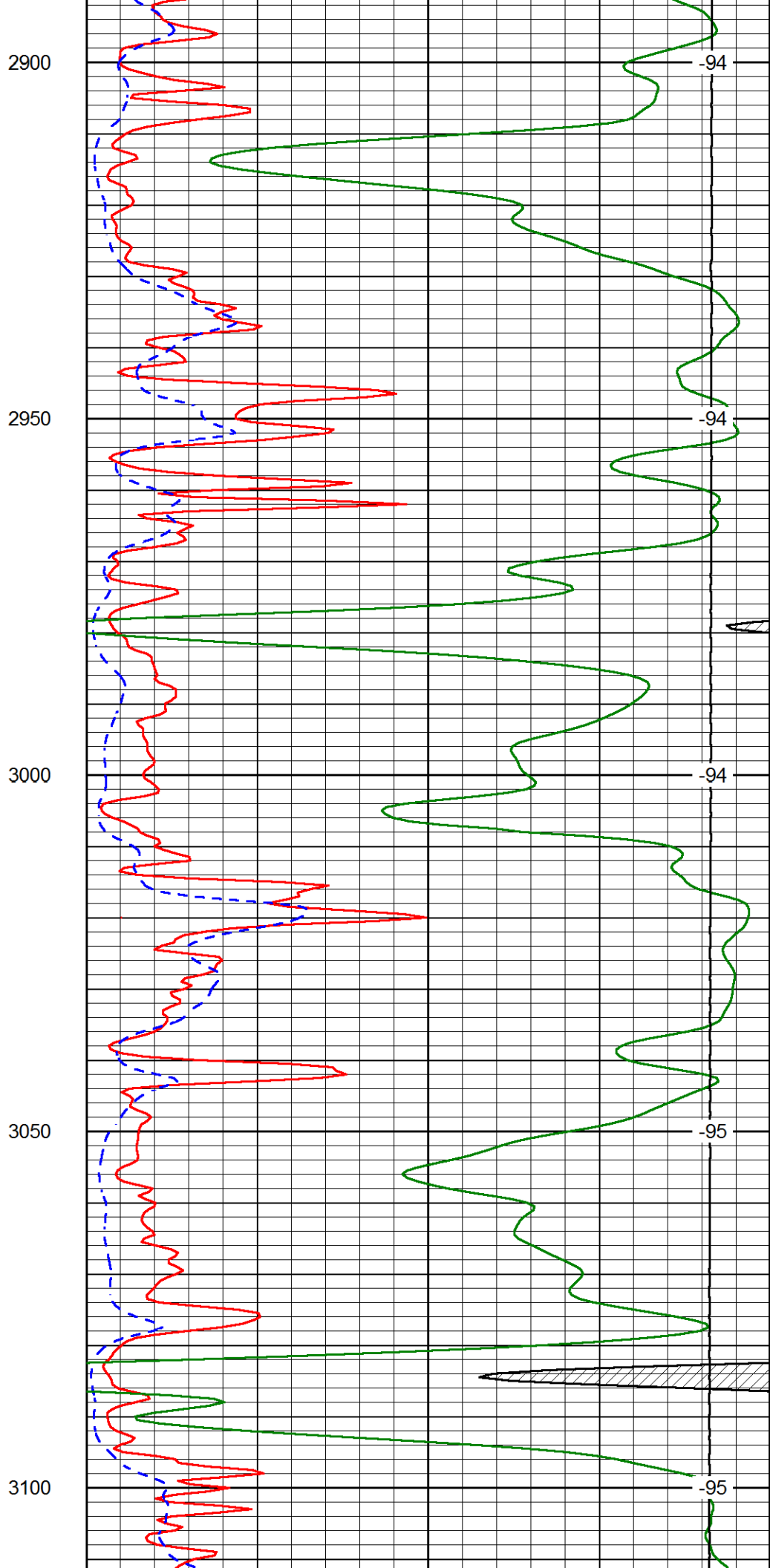
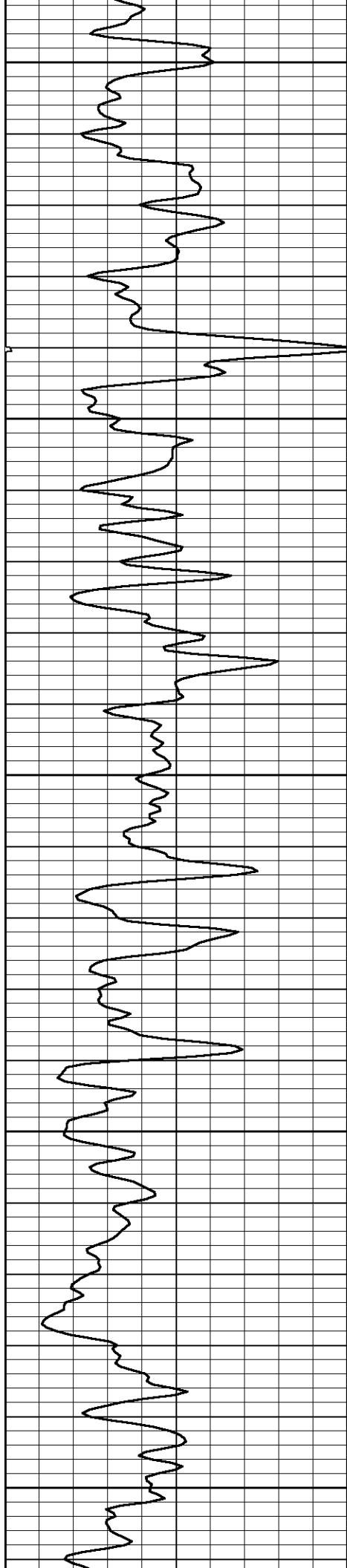
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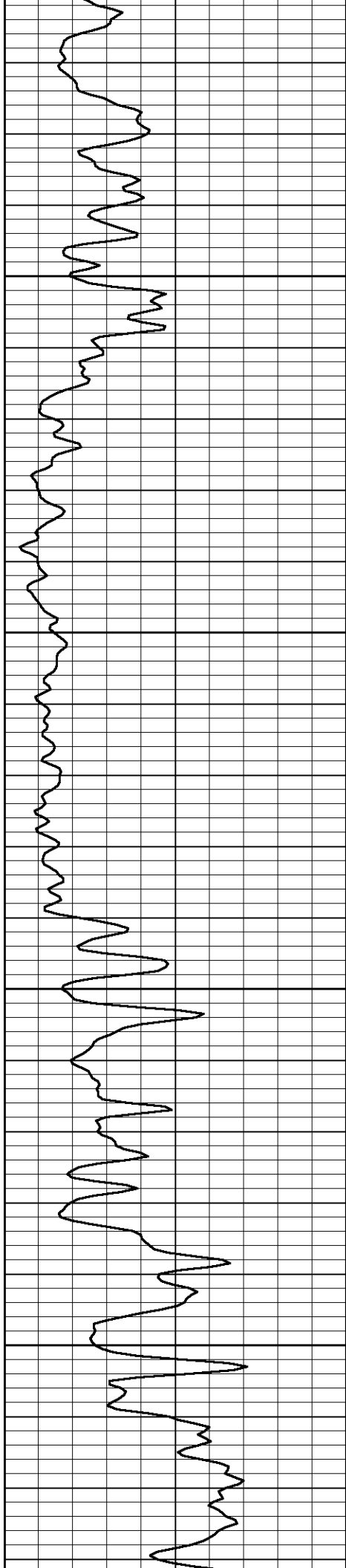
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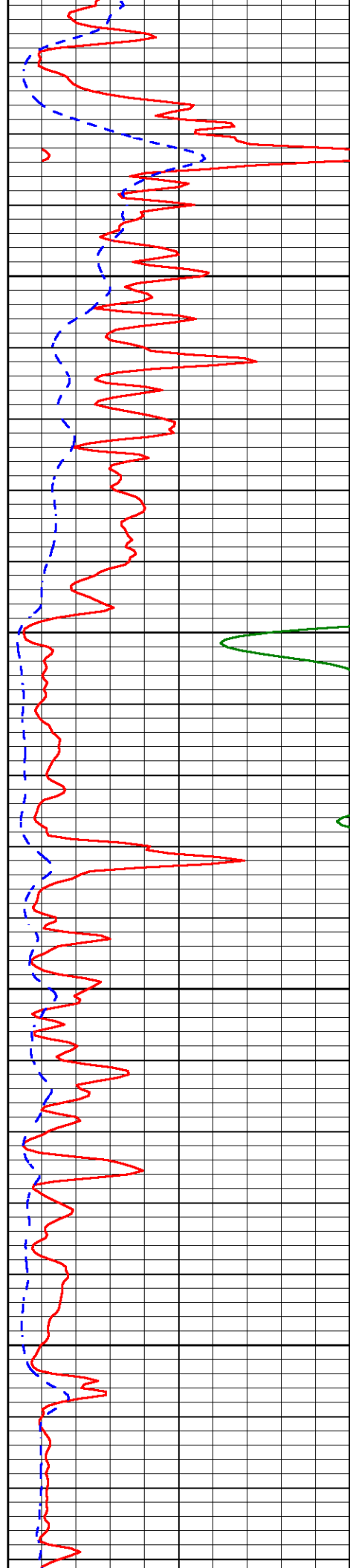


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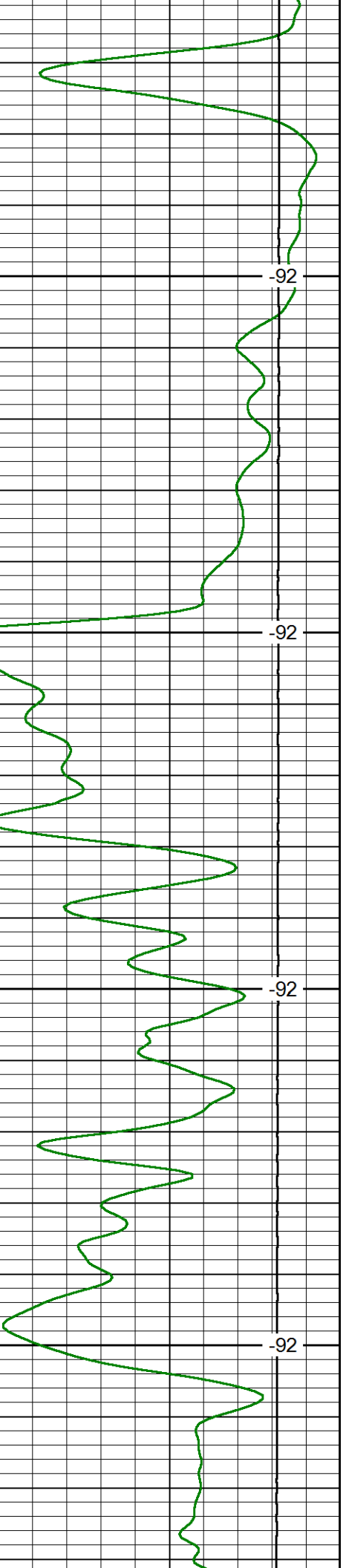


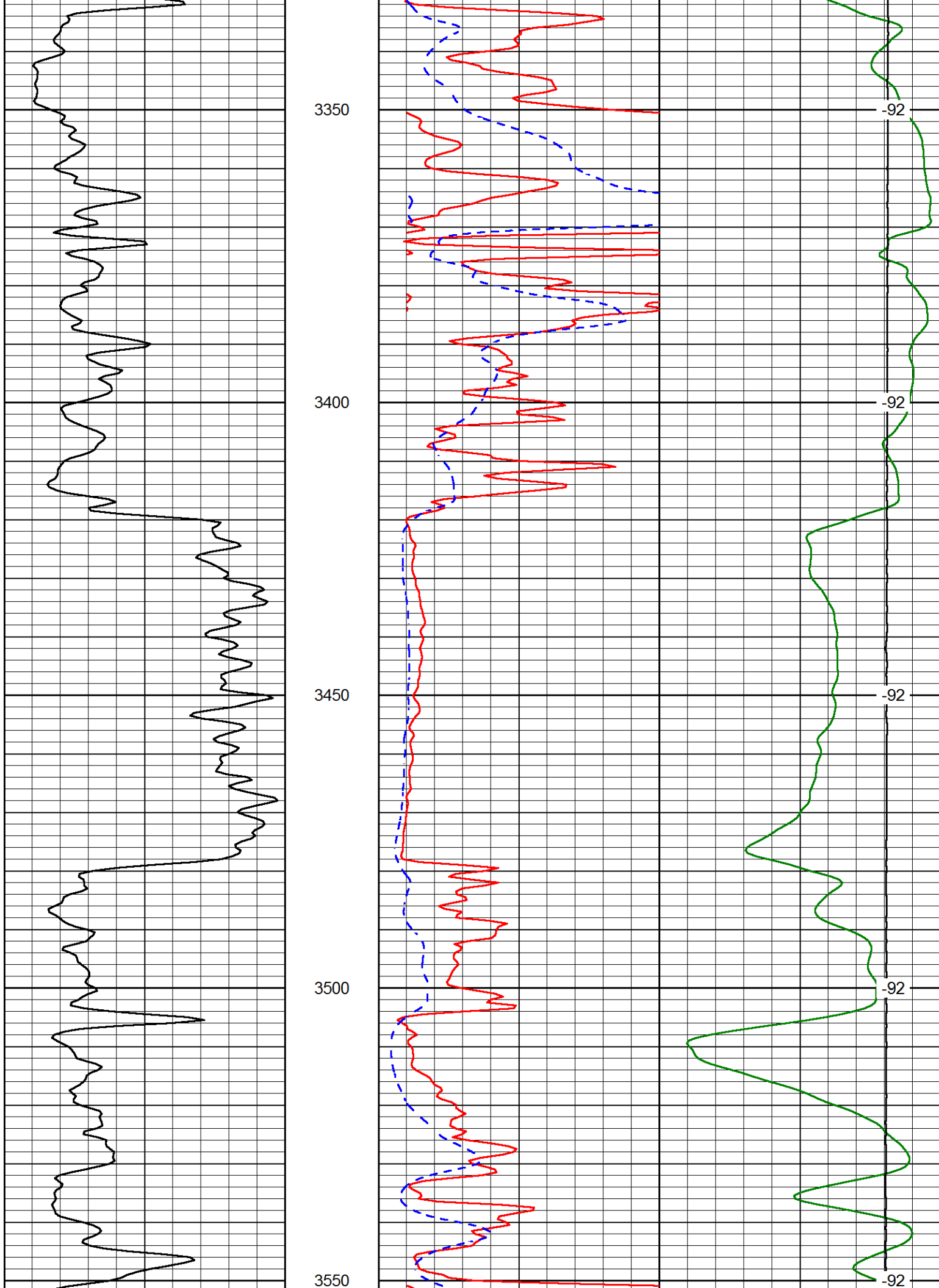
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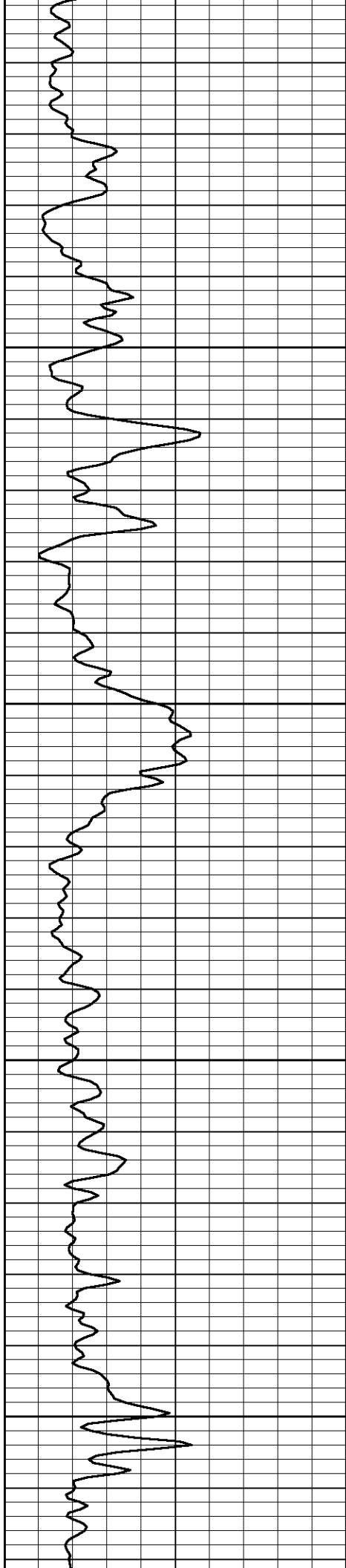
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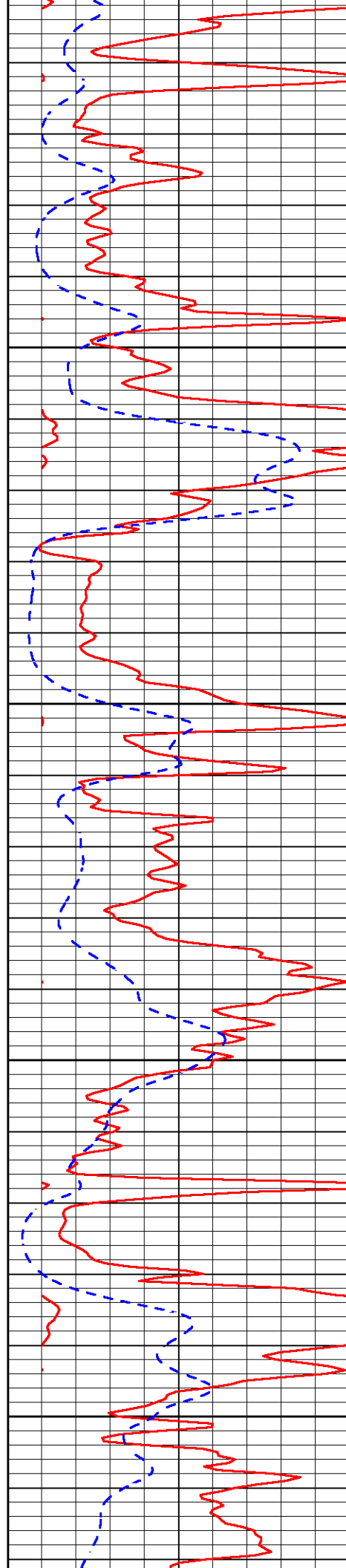


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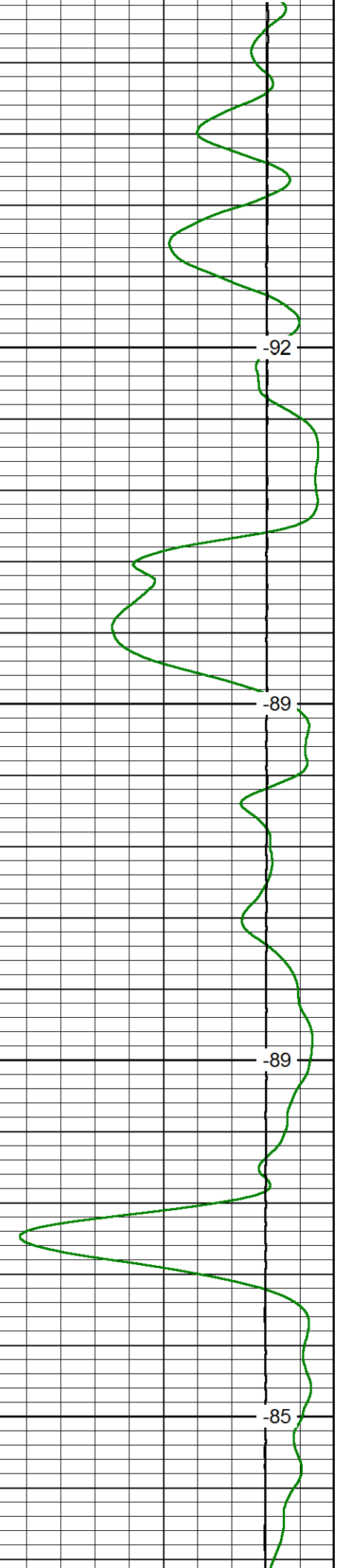


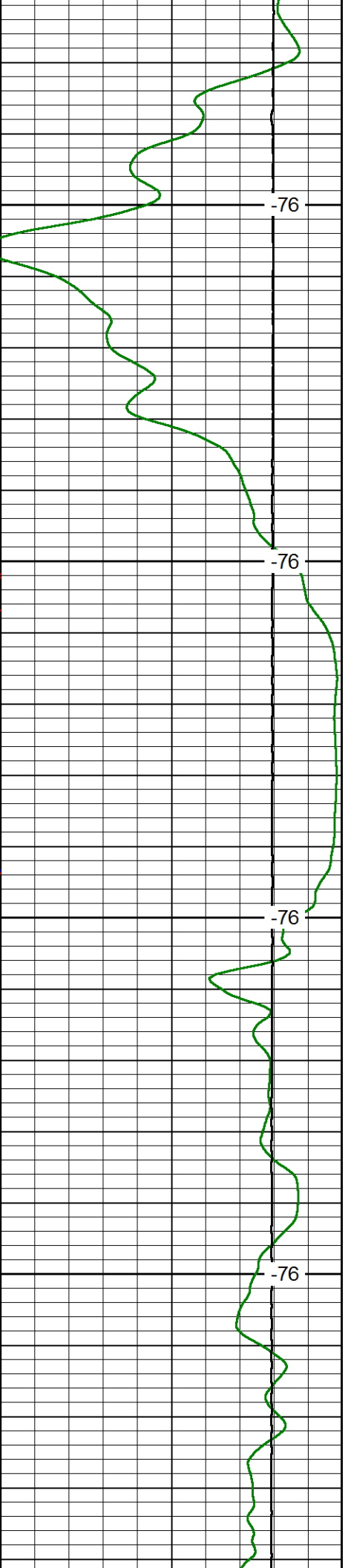
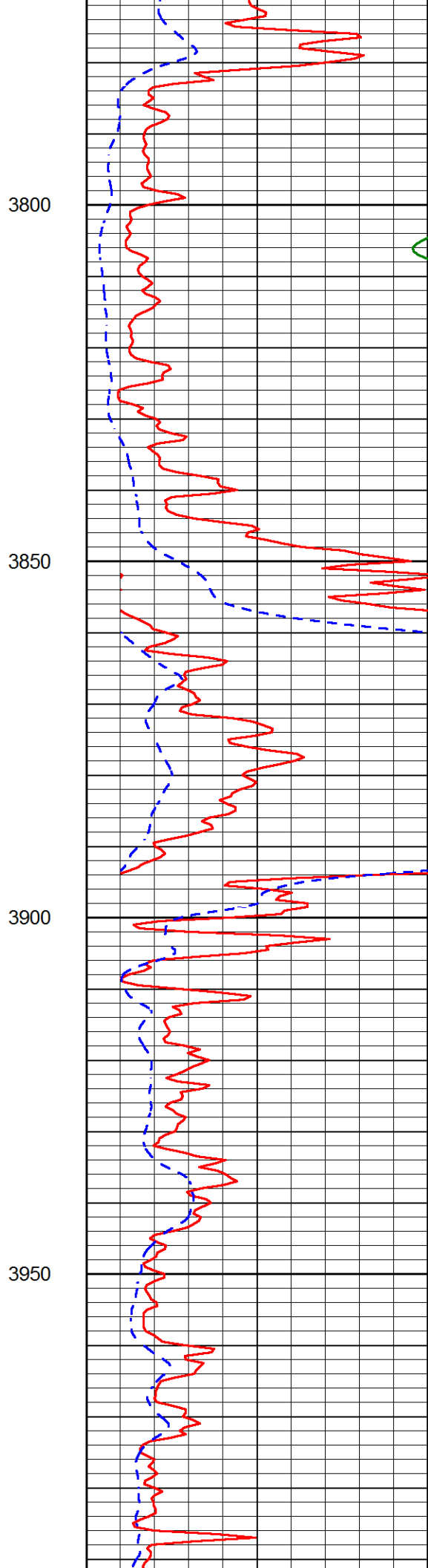
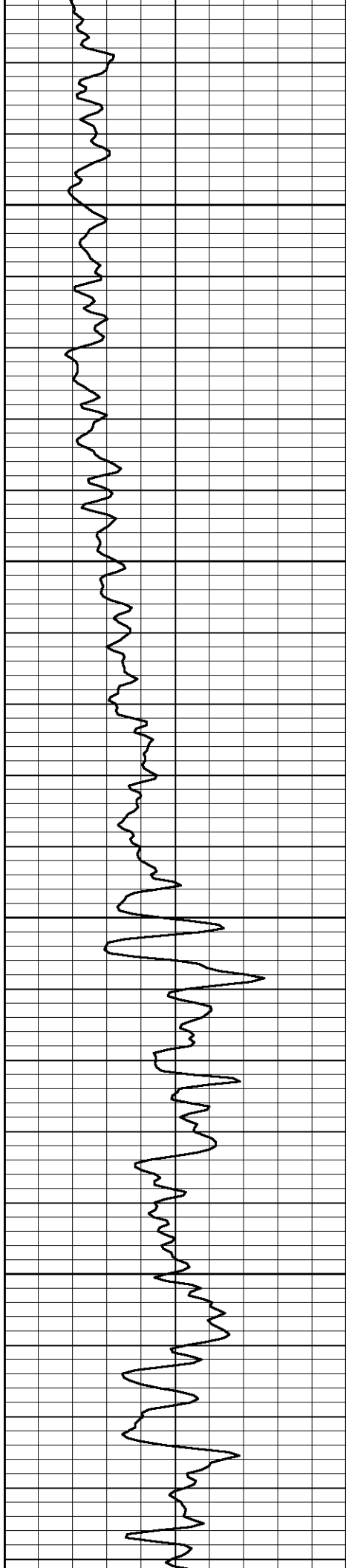
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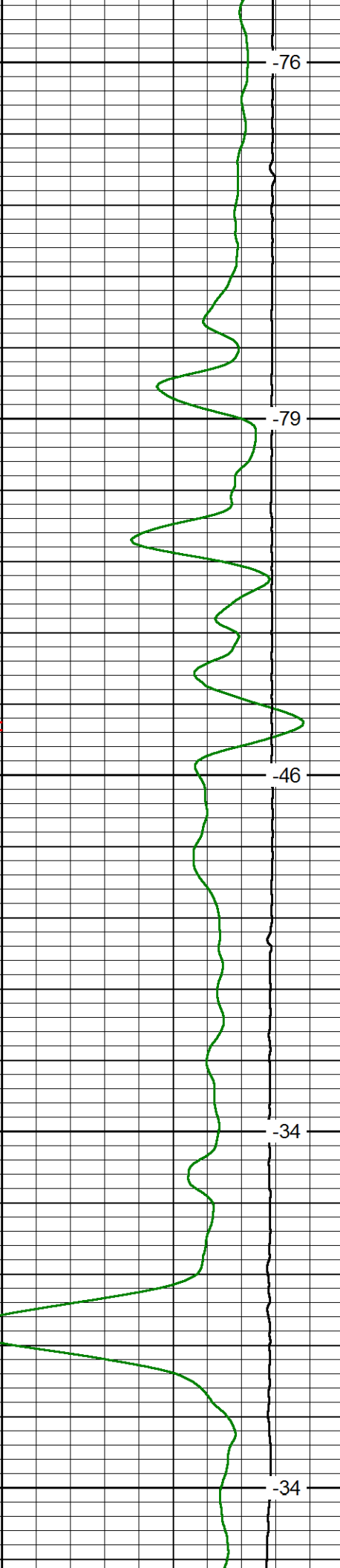
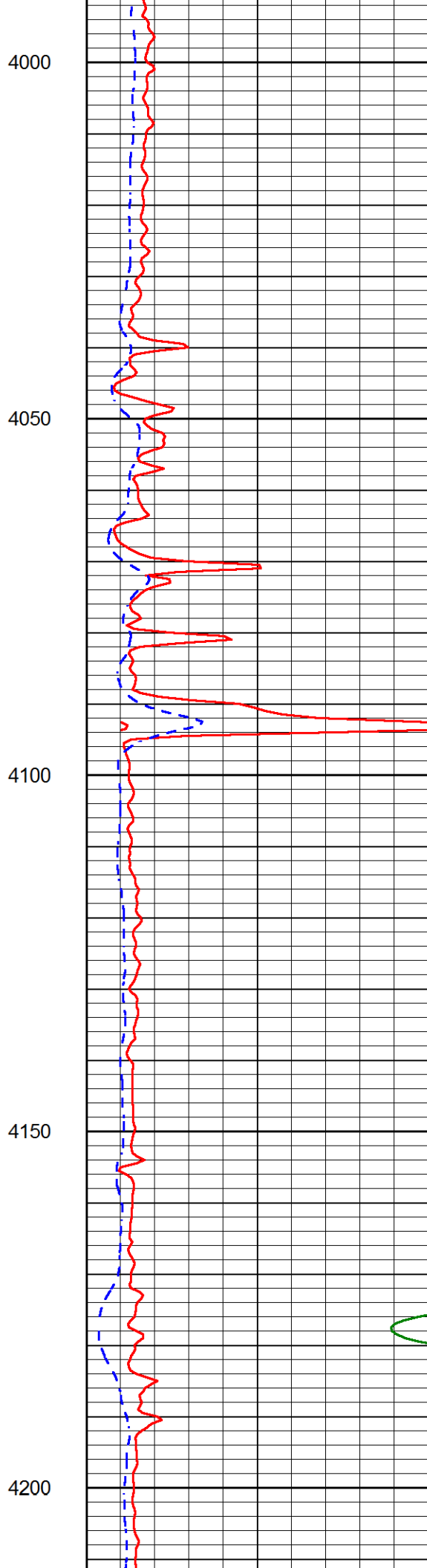
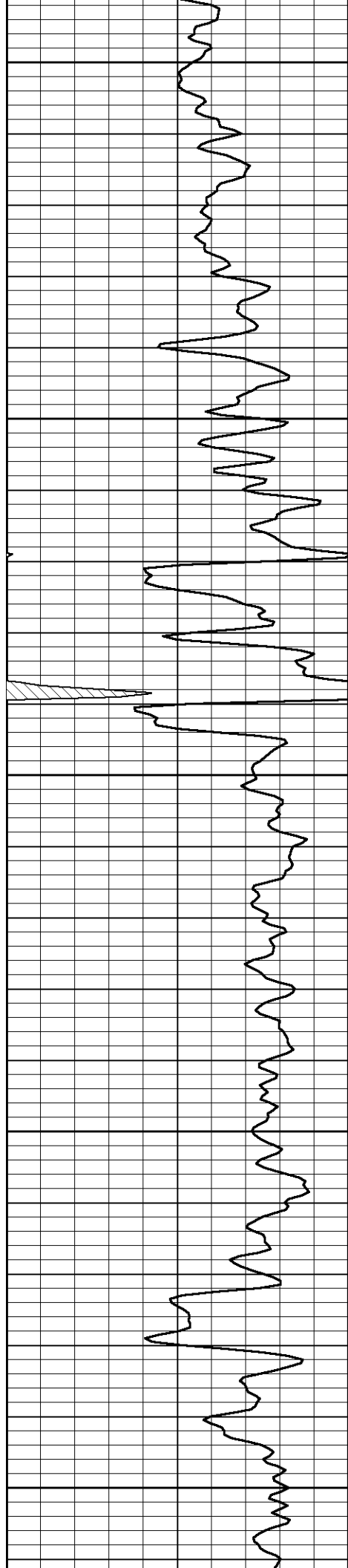
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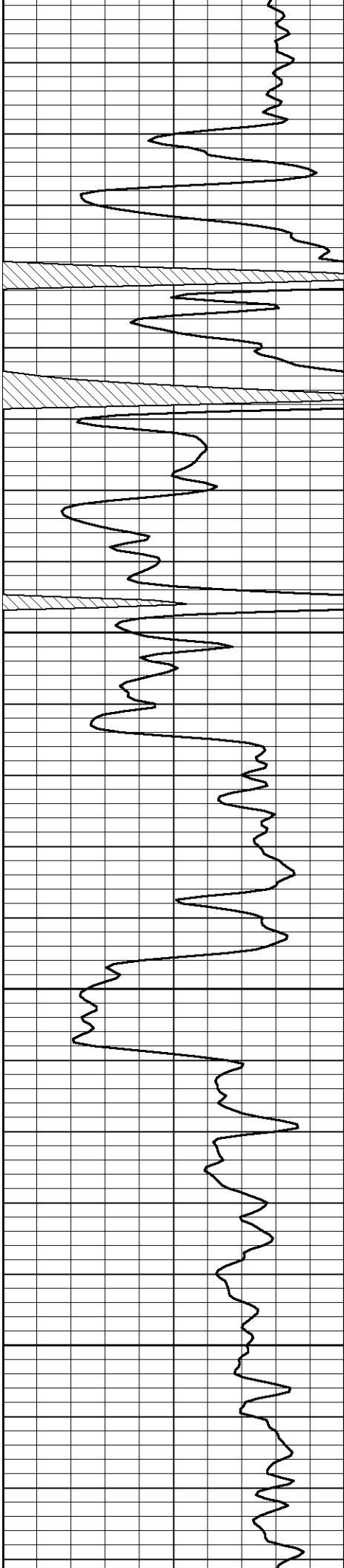
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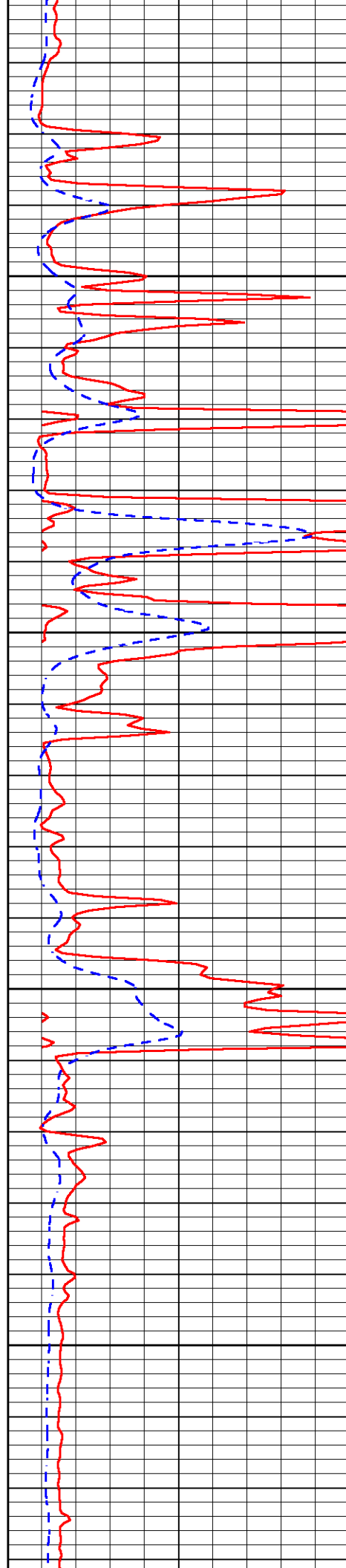


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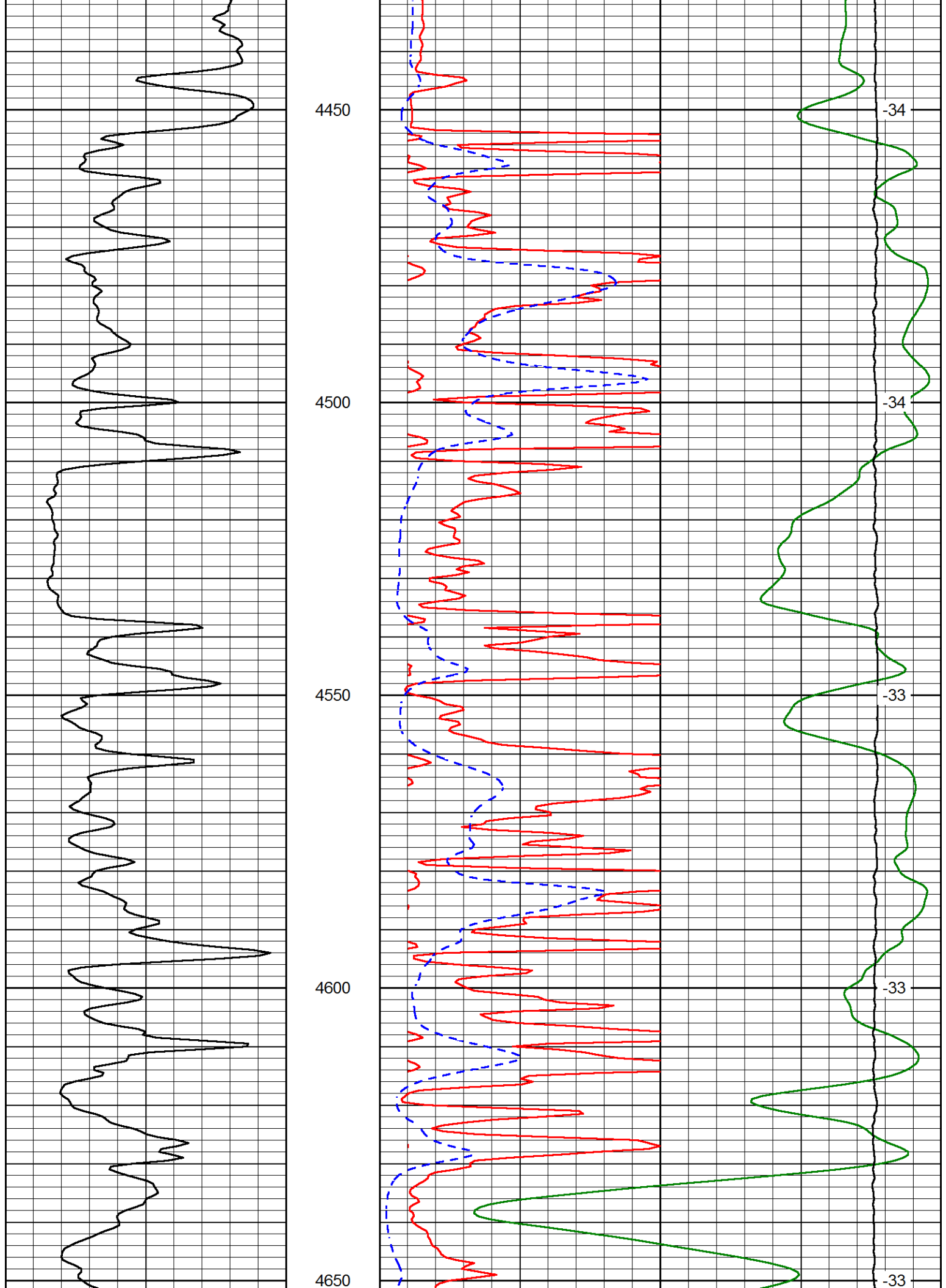
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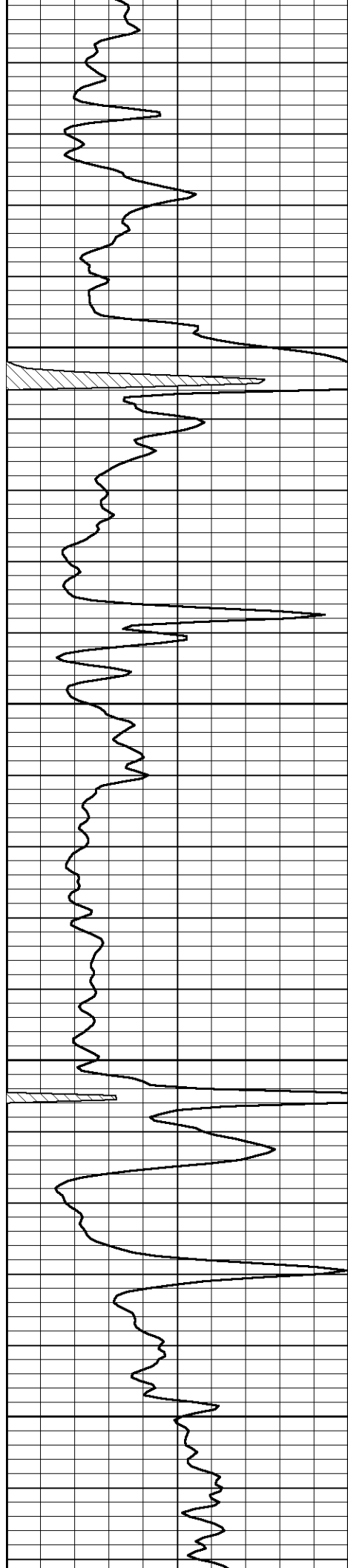
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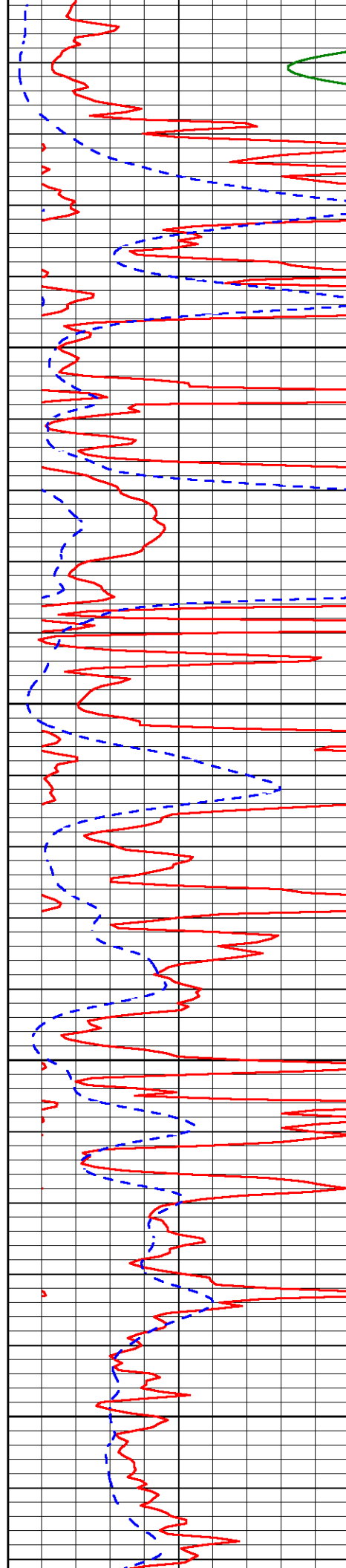


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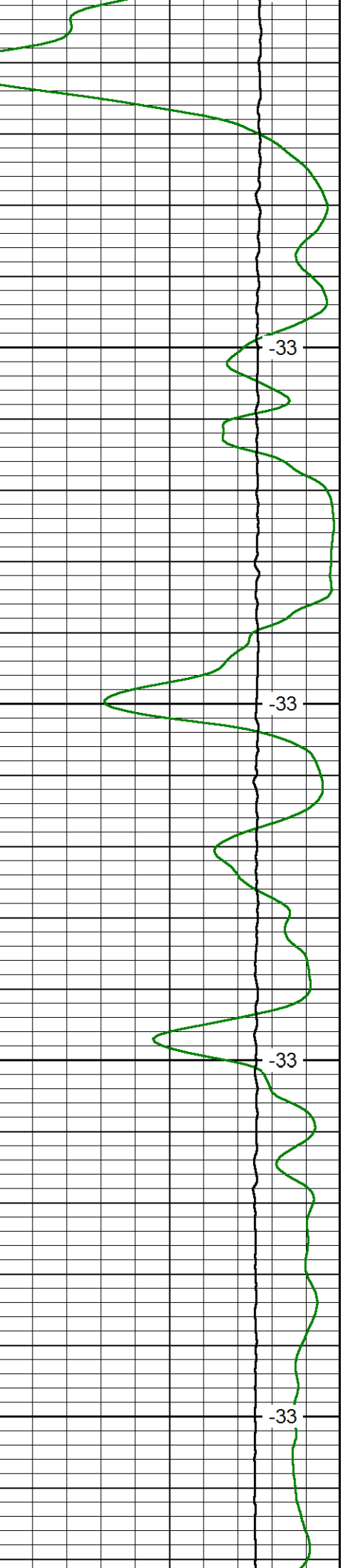


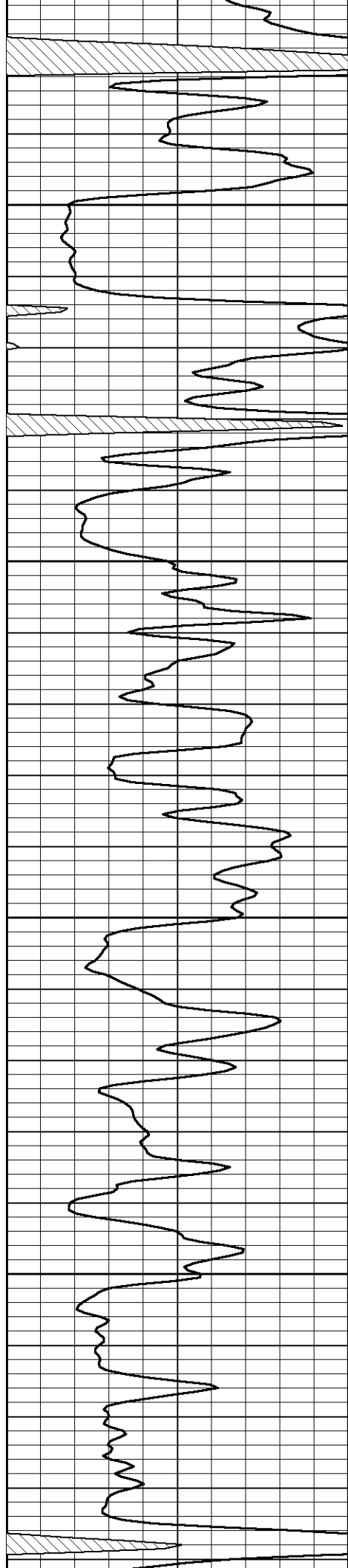
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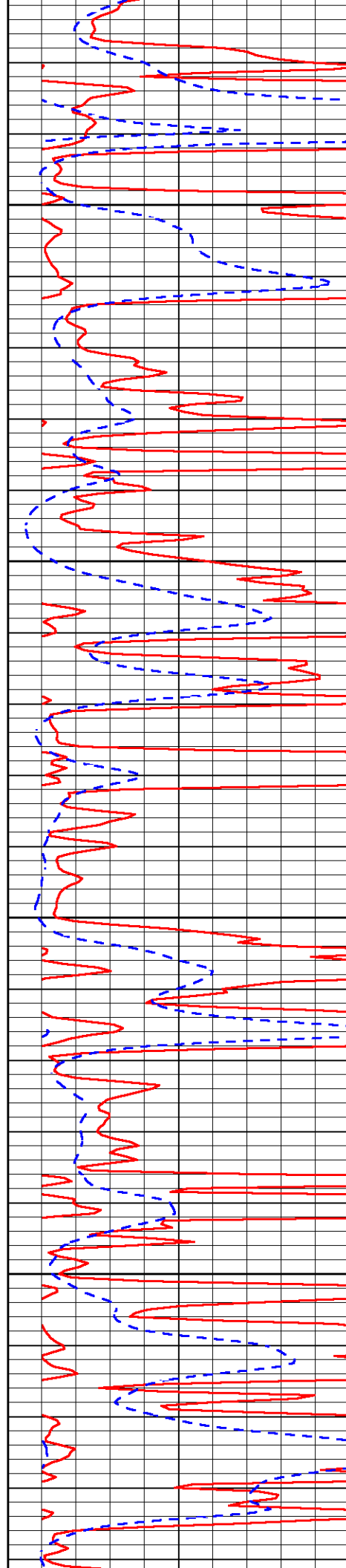


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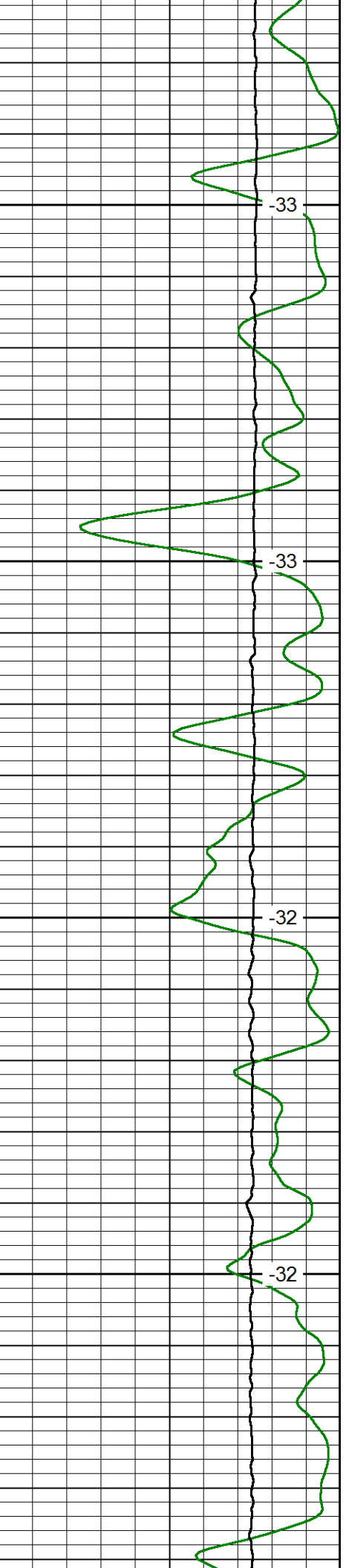


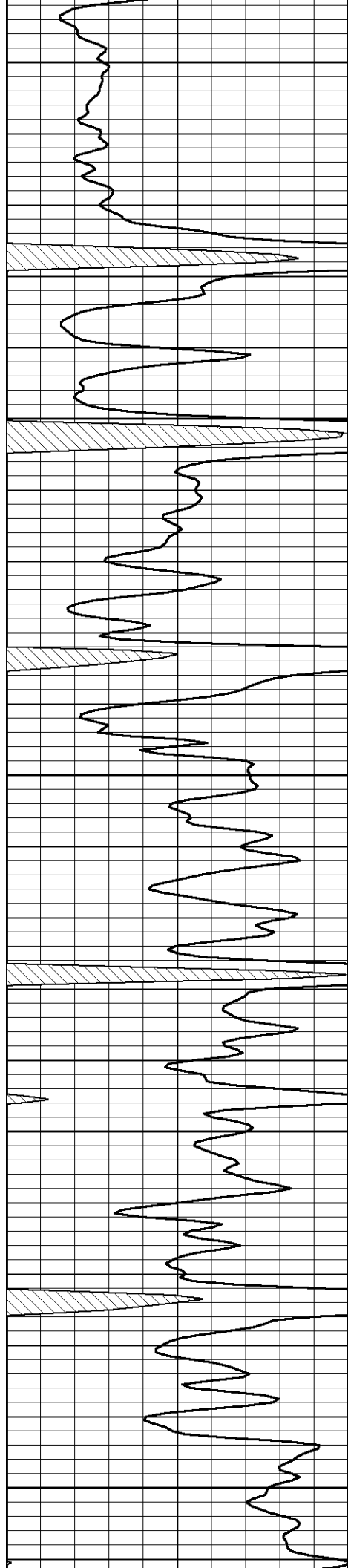
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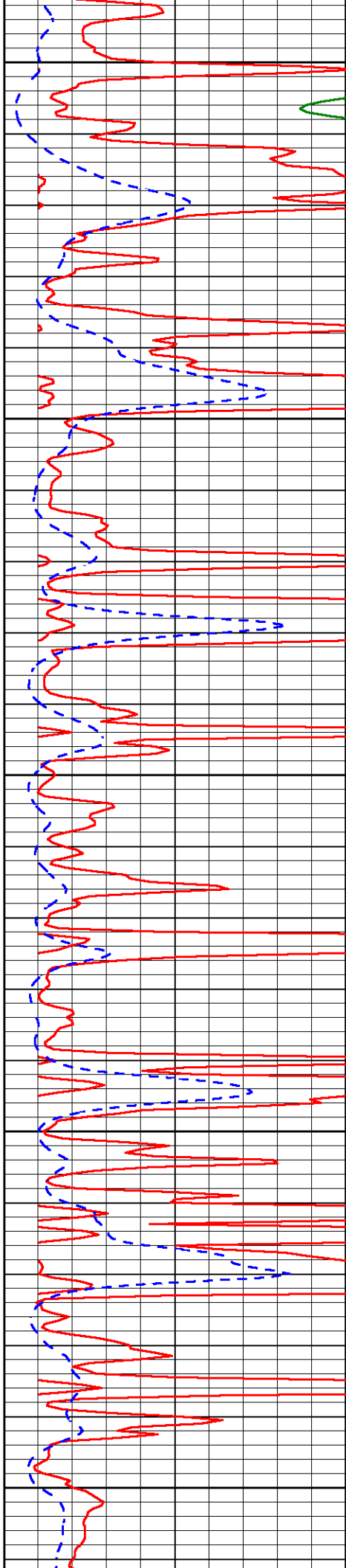
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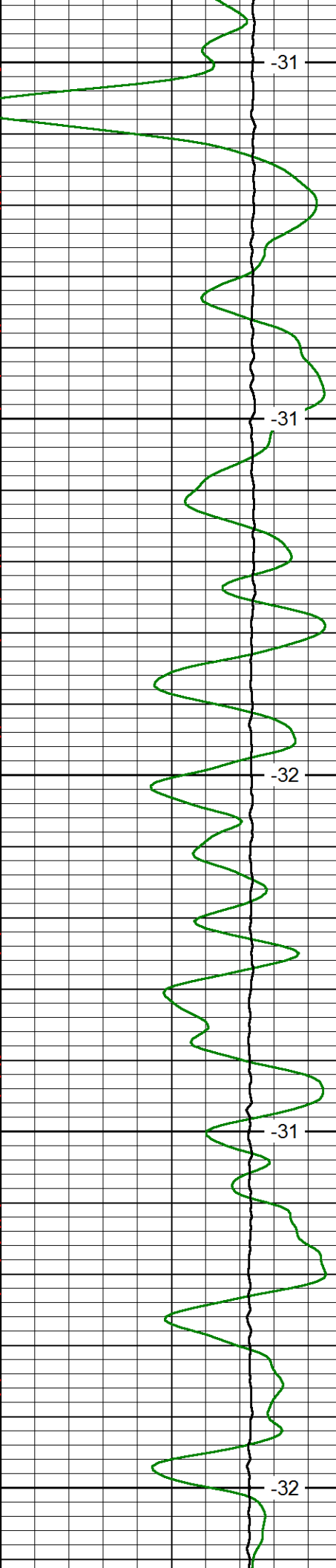
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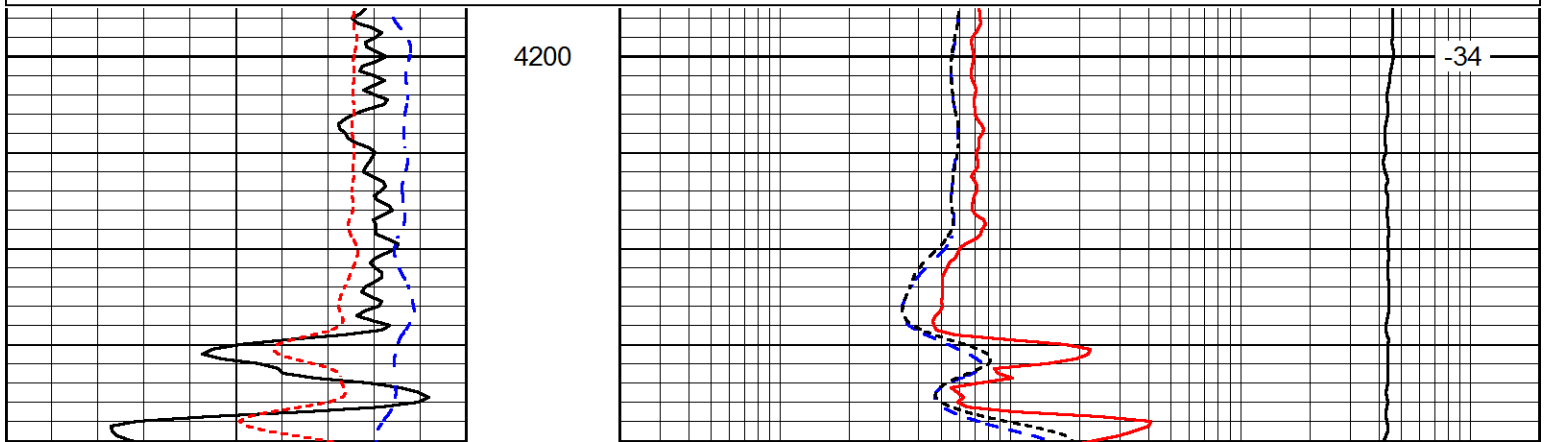
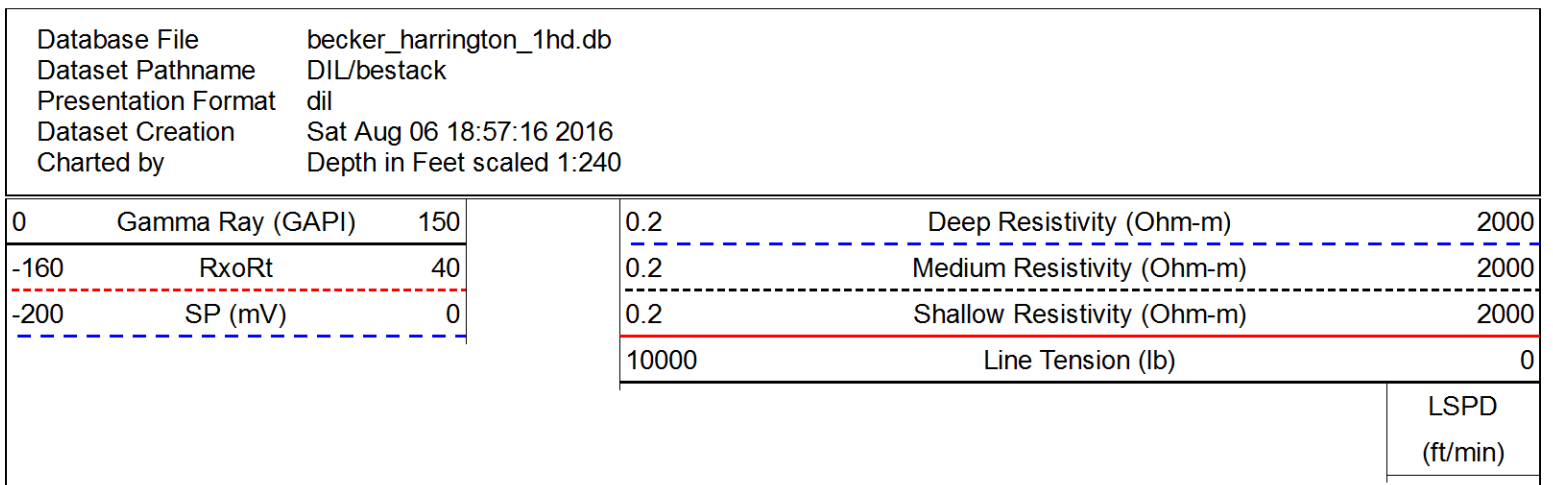
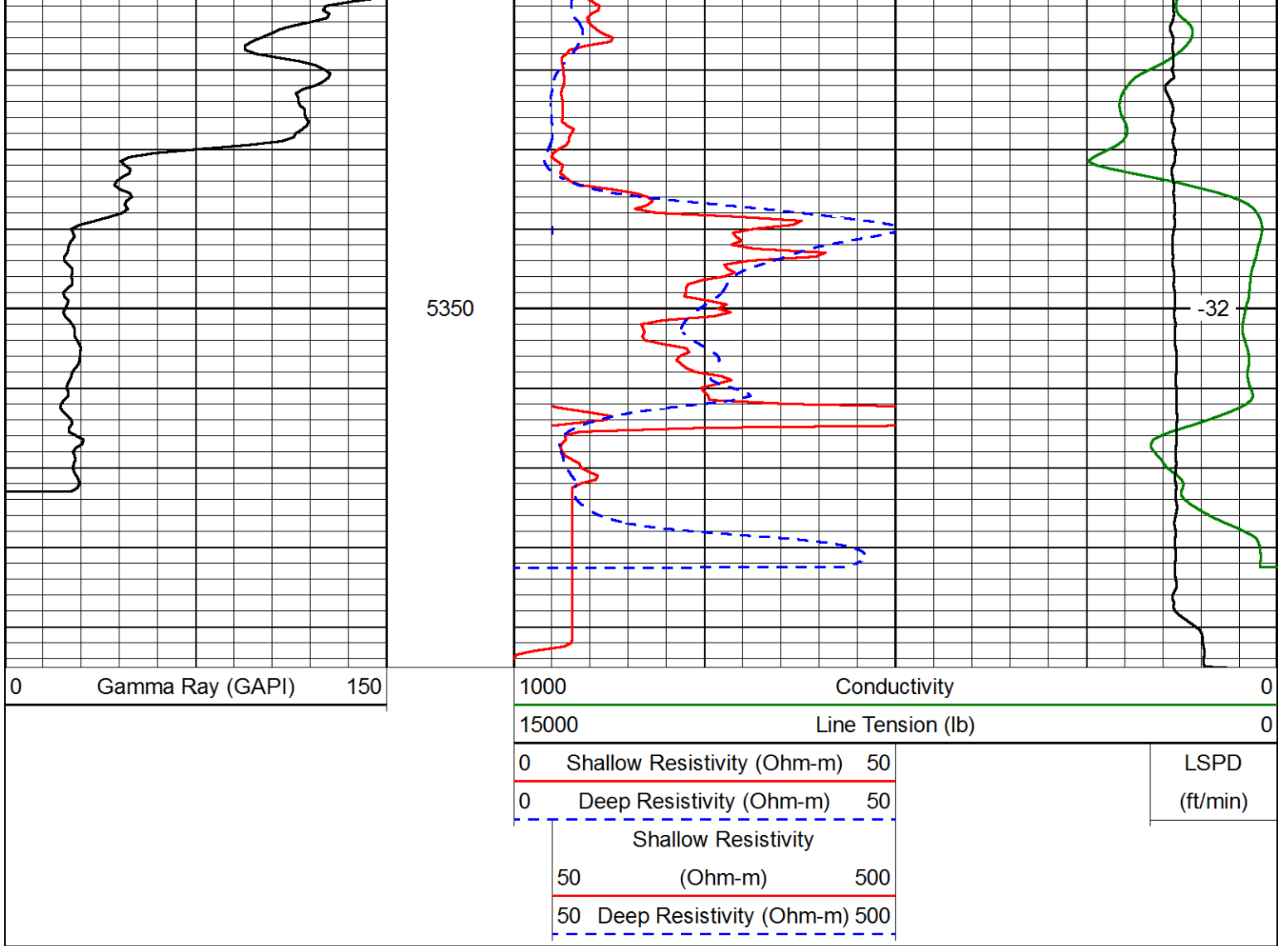
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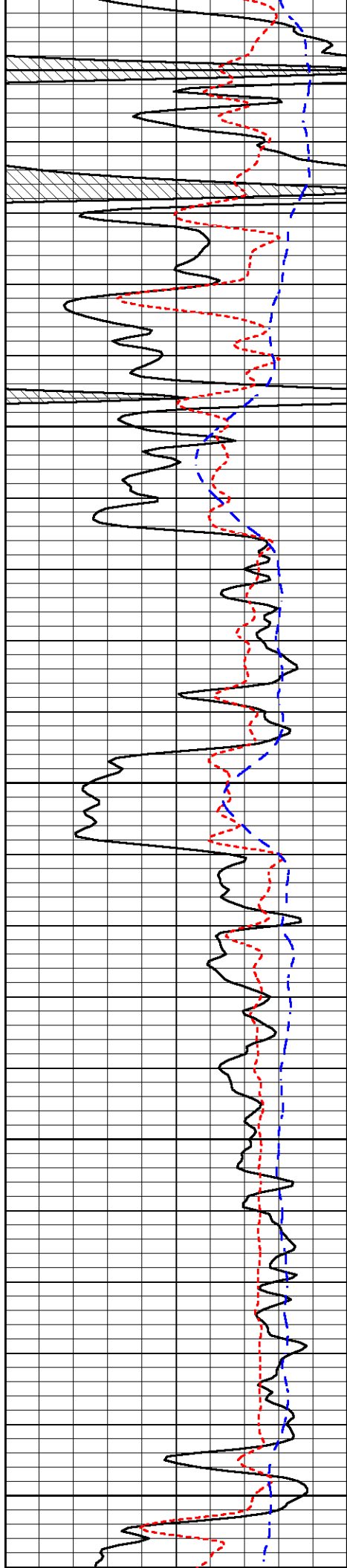
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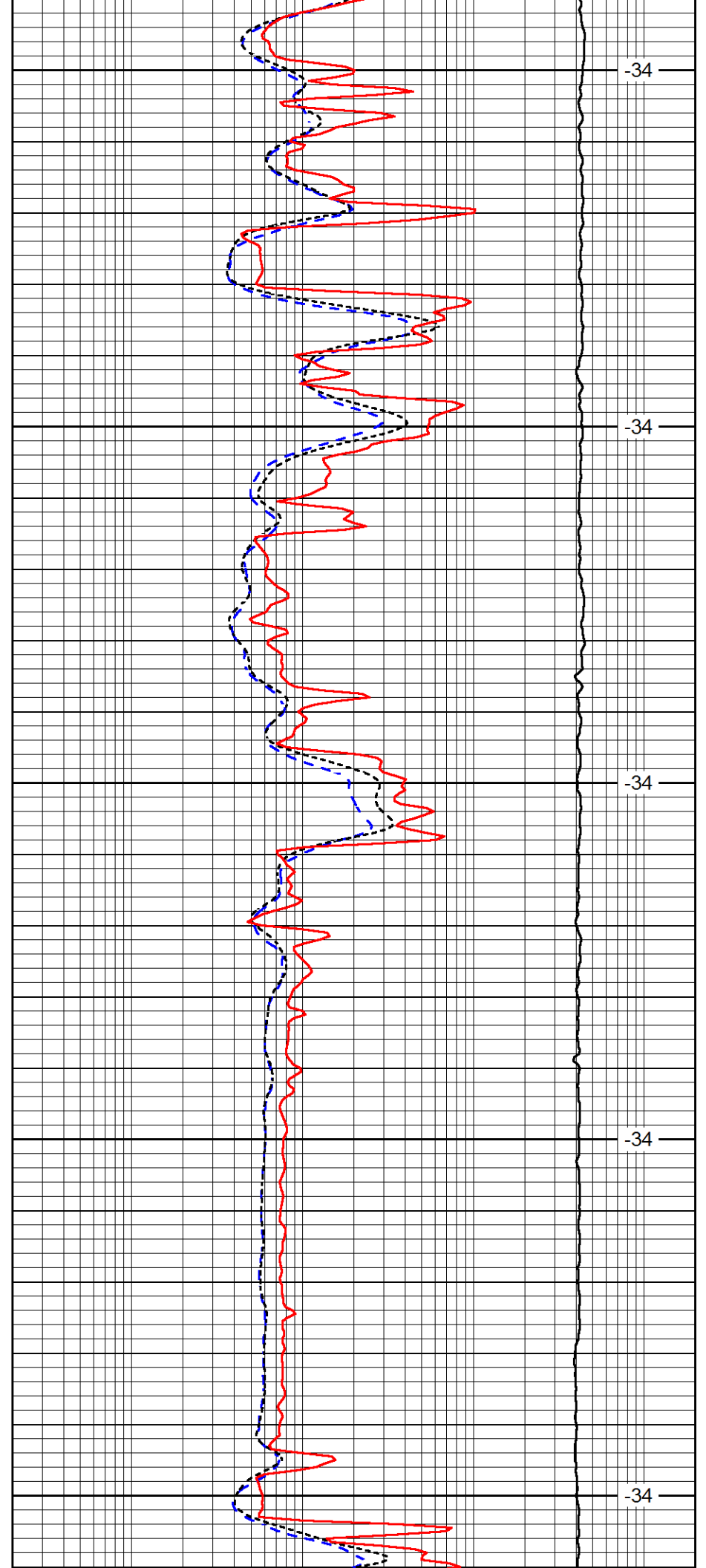
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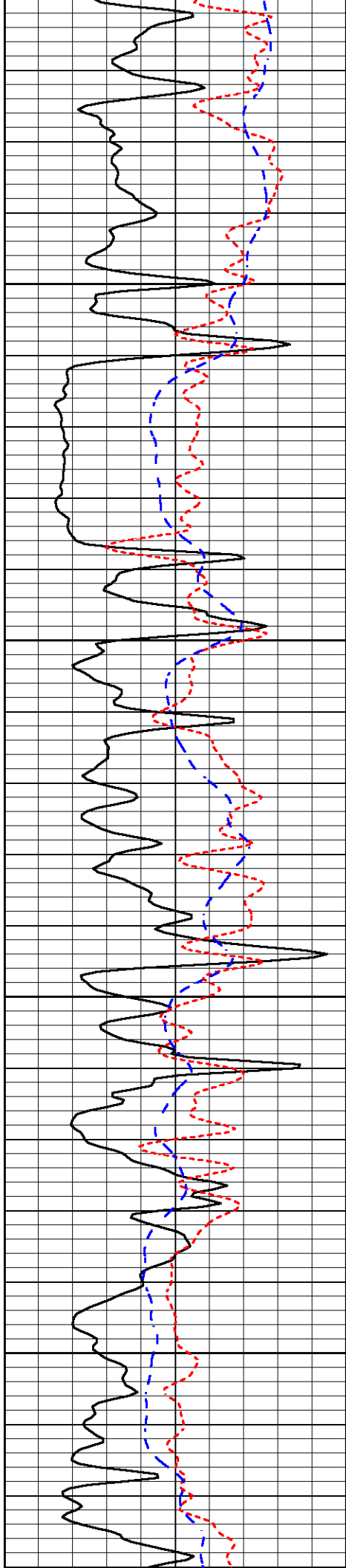
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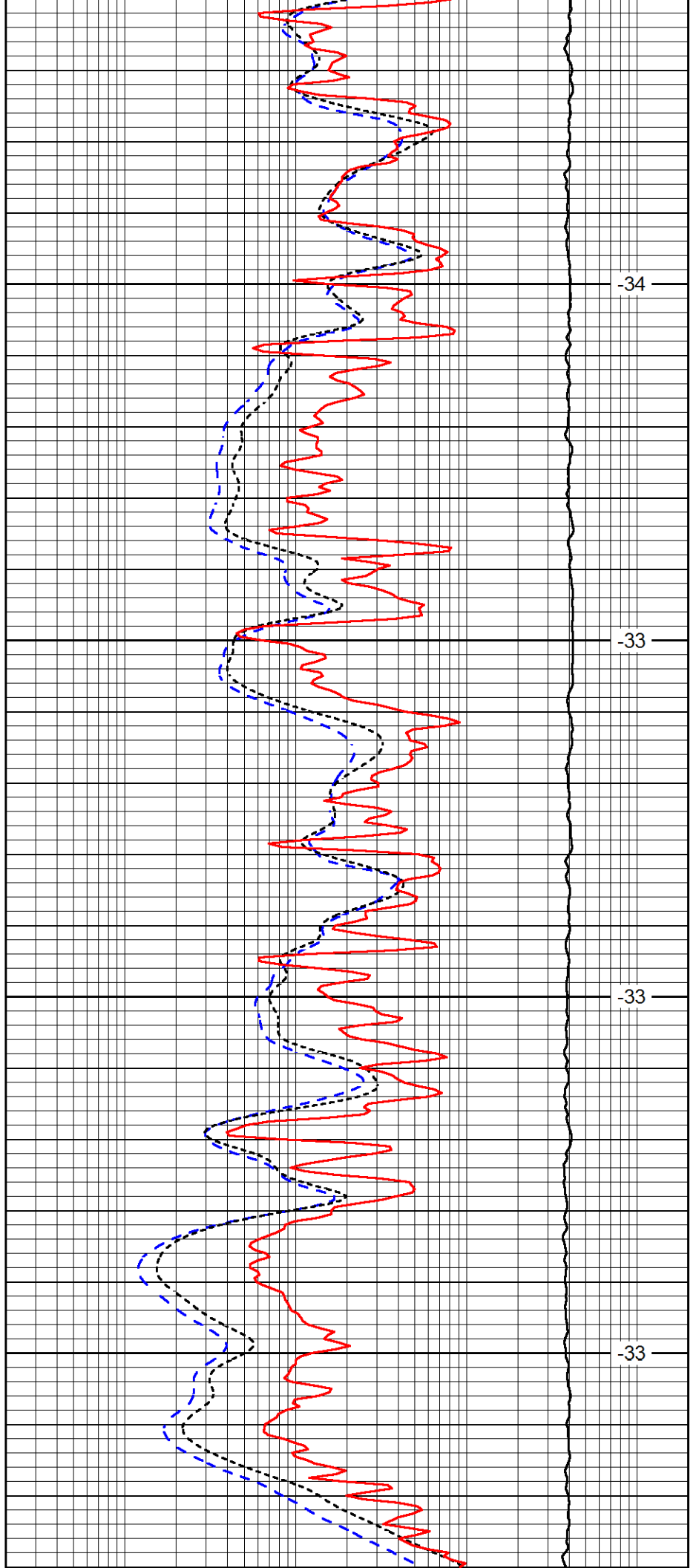


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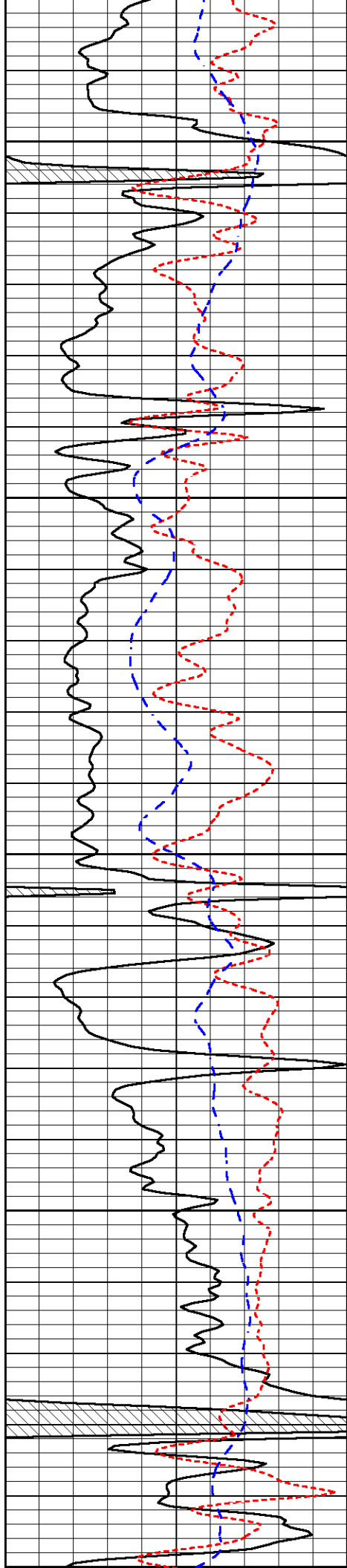


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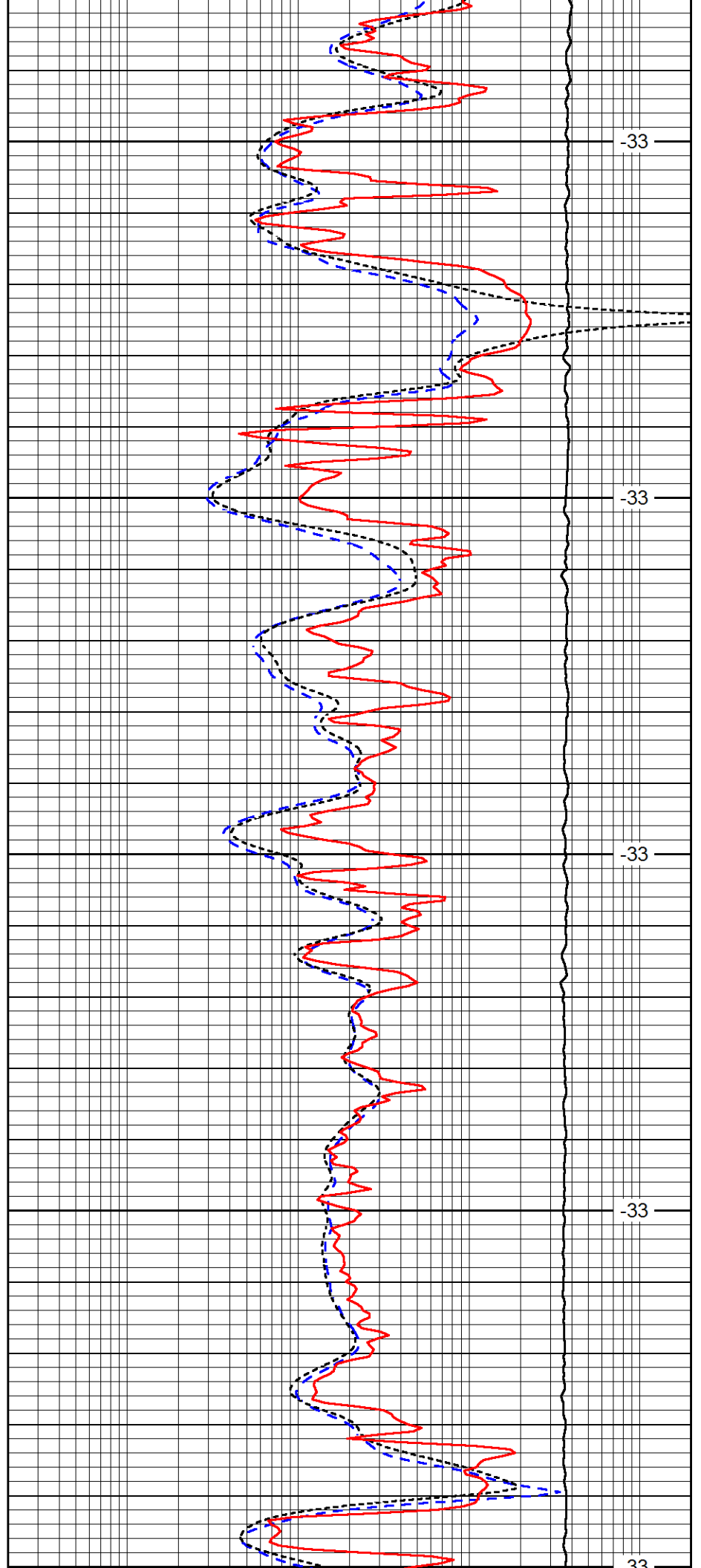
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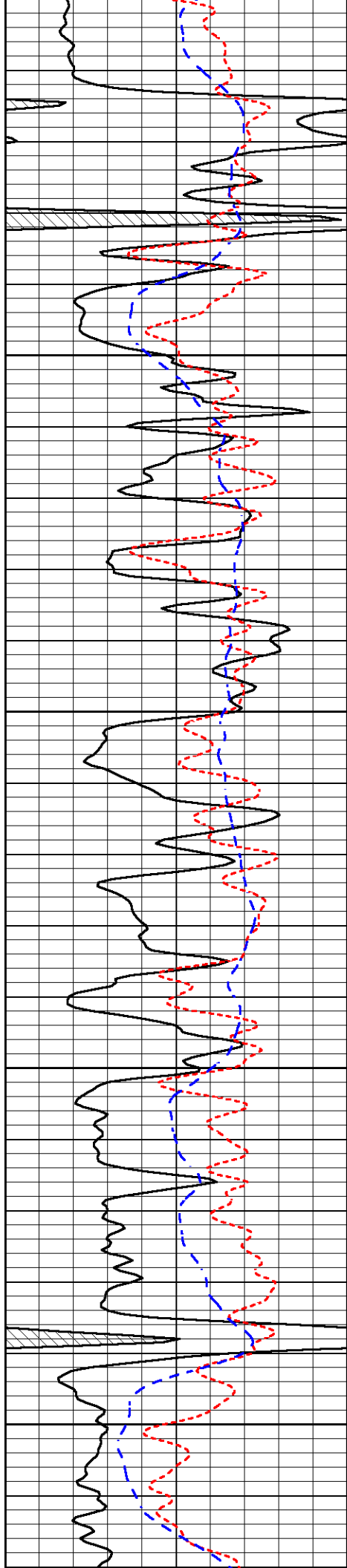
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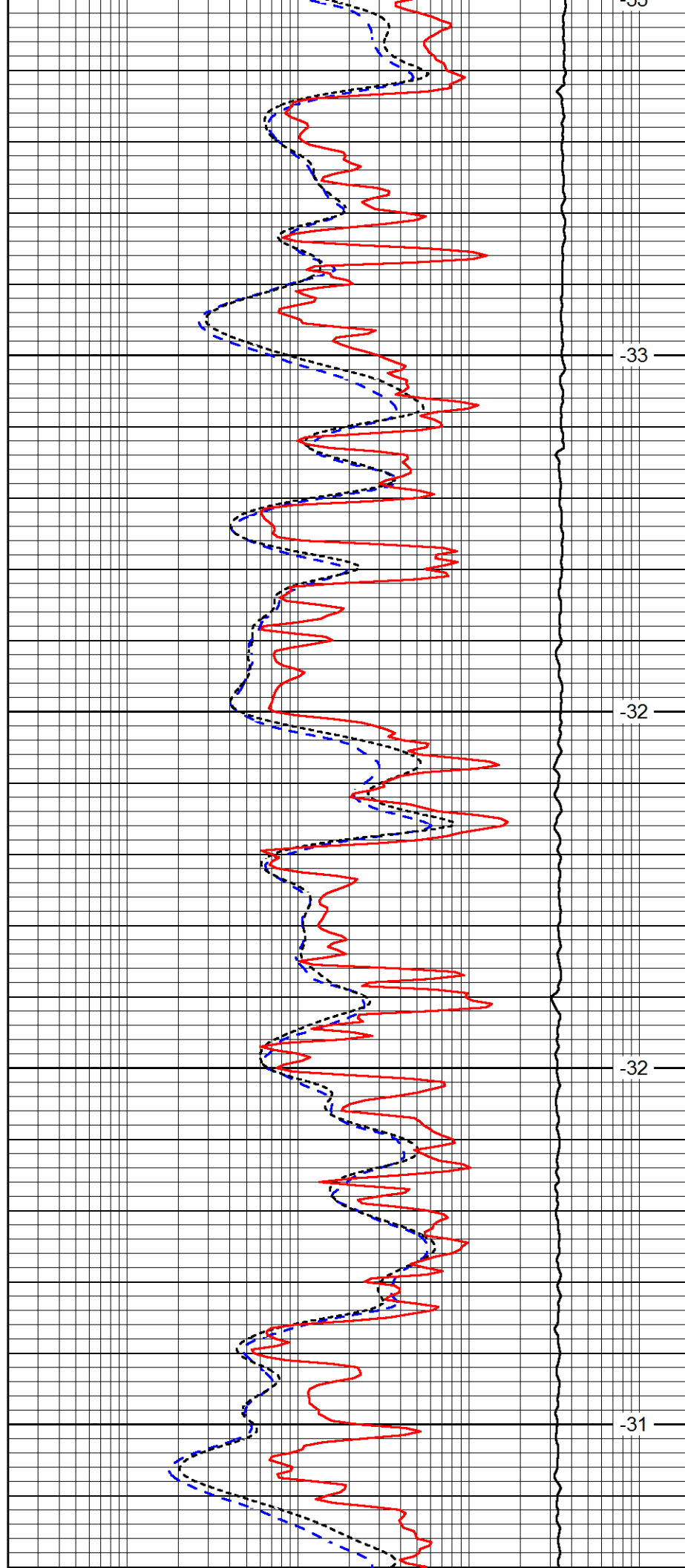
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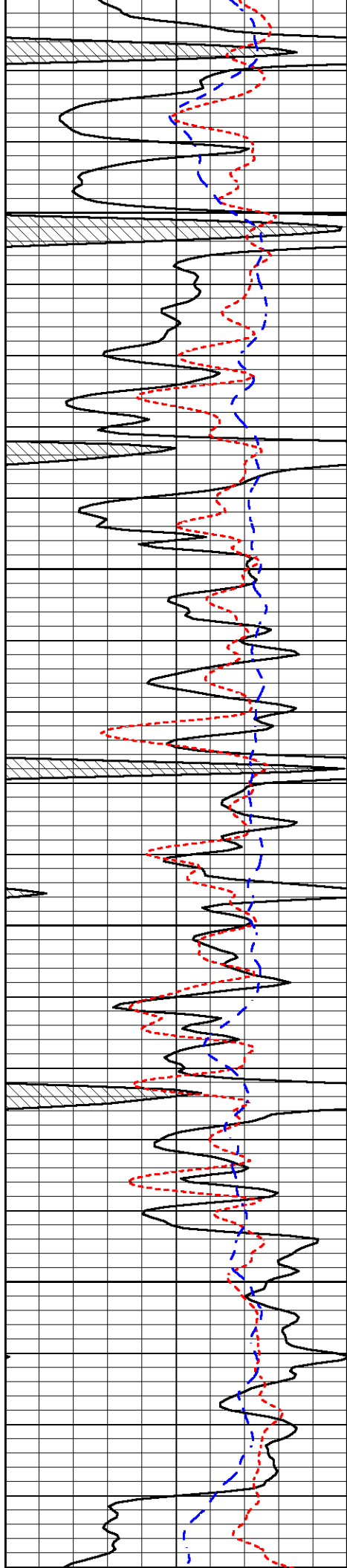
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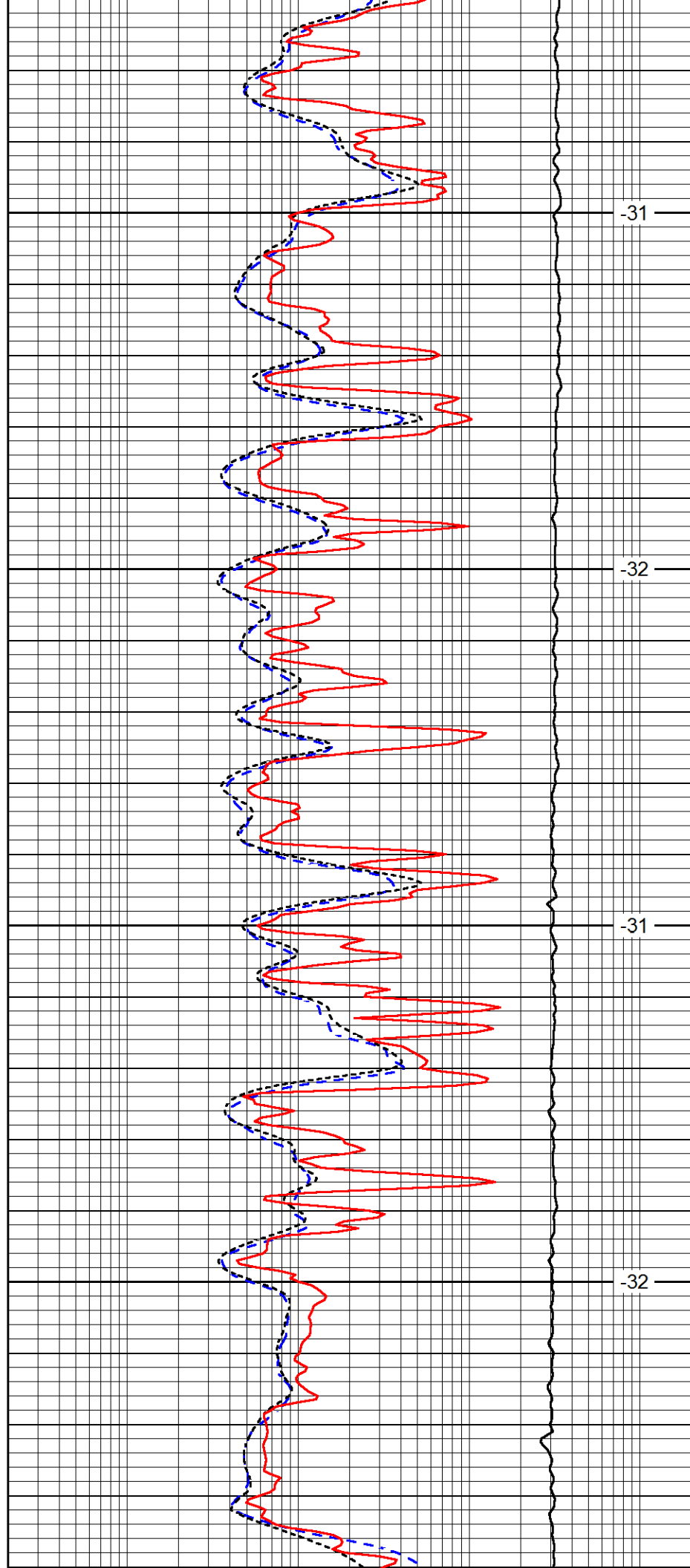


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5250

5300

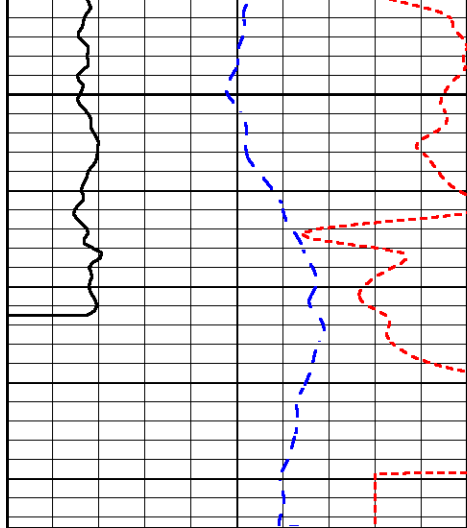


-31

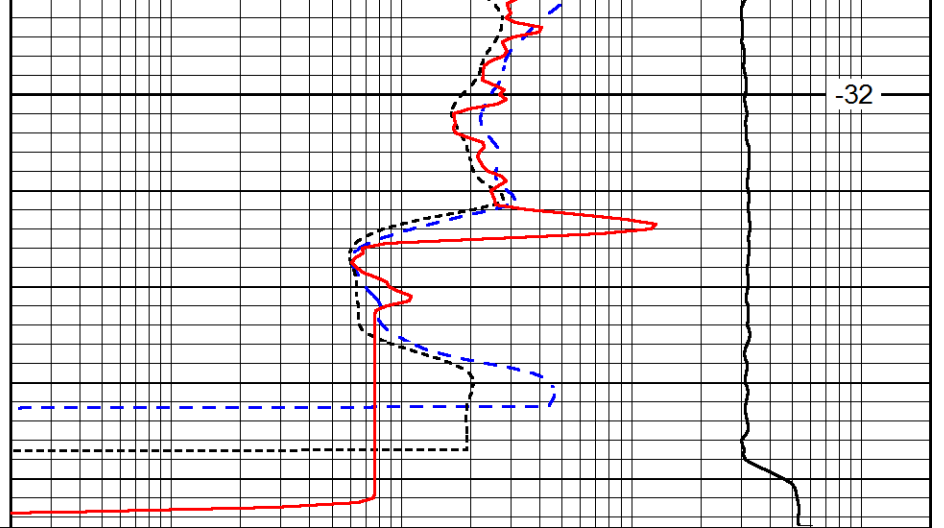
-32

-31

-32



5350



-32

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company: BECKER OIL CORPORATION
 Well: HARRINGTON #1
 Field: ASHLAND NORTHEAST
 County: CLARK
 State: KANSAS

Company: BECKER OIL CORPORATION
 Well: HARRINGTON #1
 Field: ASHLAND NORTHEAST
 County: CLARK
 State: KANSAS

Location: API #: 15-025-21590-00-00
 1550' FSL & 330' FEL
 SEC 25 TWP 32S RGE 23W
 Permanent Datum: GROUND LEVEL Elevation 2062'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: DIL
 Elevation: K.B. 2073', D.F. N/A, G.L. 2062'

Date	8/6/2016						
Run Number	ONE						
Type Log	CNL/CDL						
Depth Driller	5385'						
Depth Logger	5388'						
Bottom Logged Interval	5367'						
Top Logged Interval	4200'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	11800						
Density	9.0						
Level	FULL						
Max. Rec. Temp. F	130						
Operating Rig Time	3 HOURS						
Equipment -- Location	91 COLBY						
Recorded By	D. SCHMIDT						
Witnessed By	CLYDE BECKER						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	758'	8.625"	23#	00'	758'
TWO	7.875"	758'	TD				
Casing Record							

<<< Fold Here >>>

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.

ASHLAND,
 2 1/2 NORTH ON DODGE RD,
 WEST AND SOUTH TO LOCATION

Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

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

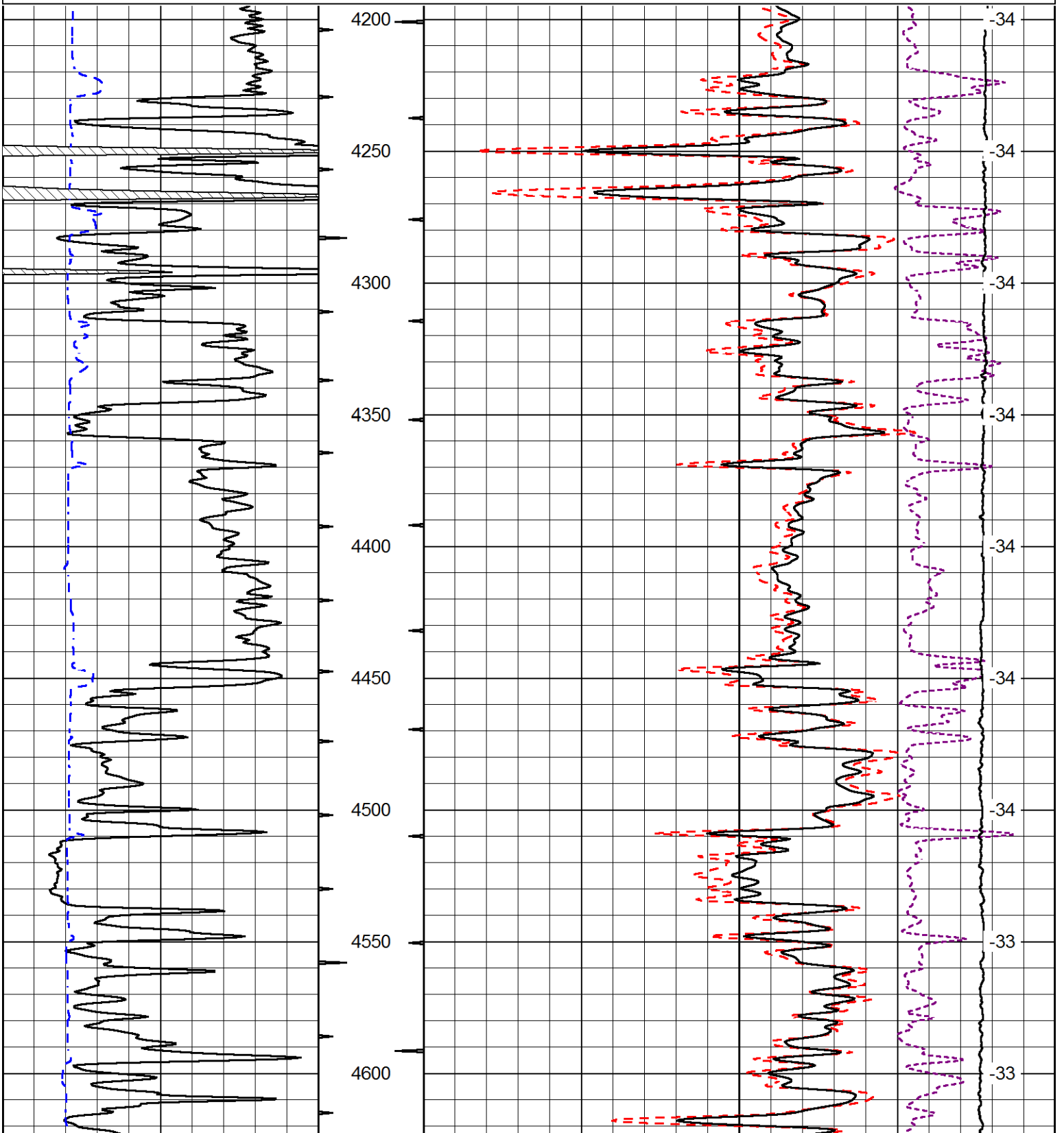
Your Pioneer Energy Services Crew		This Log Record Was Witnessed By	
Engineer: D. SCHMIDT	Operator:	Primary Witness: CLYDE BECKER	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

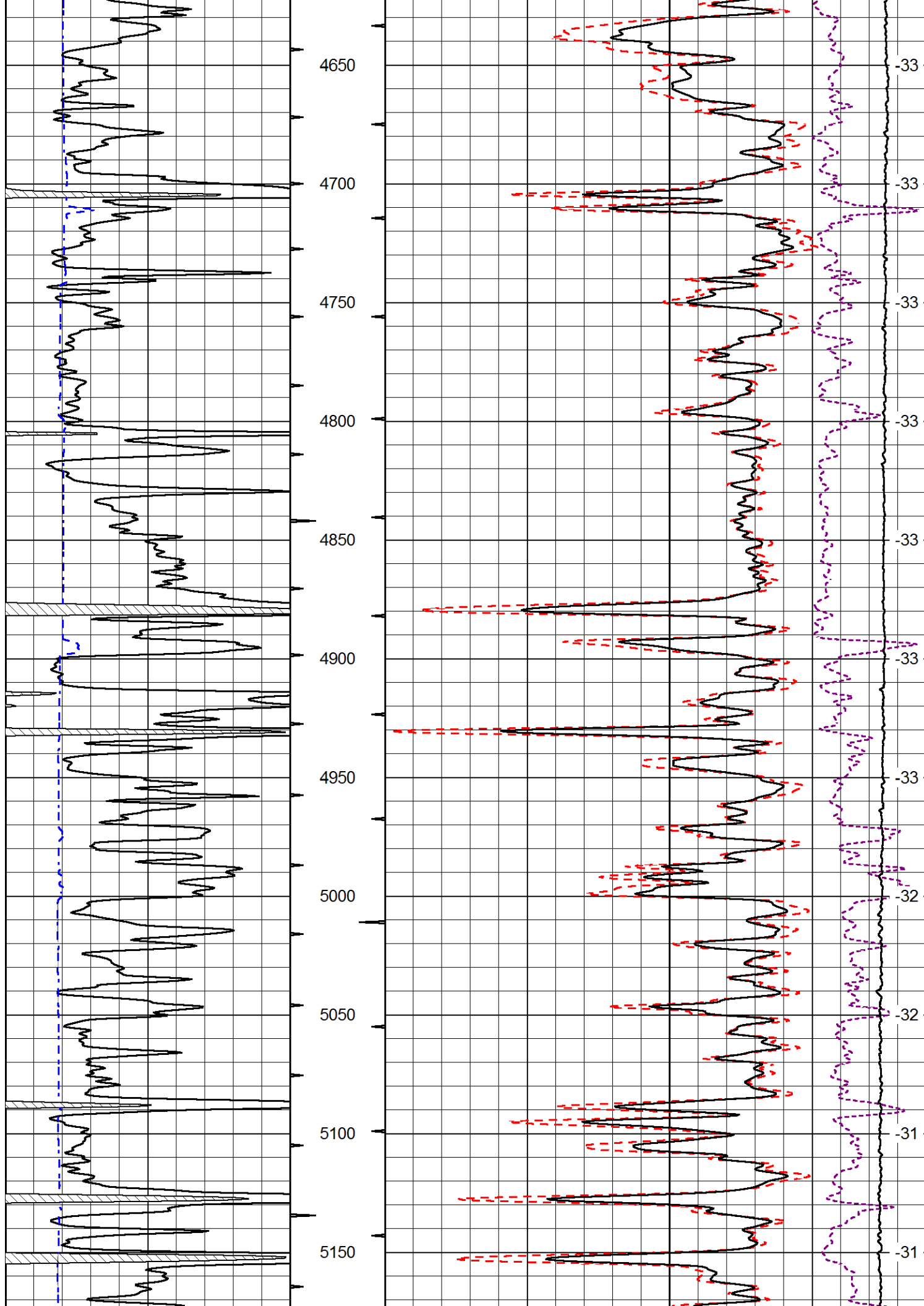
Database File becker_harrington_1hd.db
 Dataset Pathname DIL/bestack
 Presentation Format cdl
 Dataset Creation Sat Aug 06 18:57:16 2016
 Charted by Depth in Feet scaled 1:600

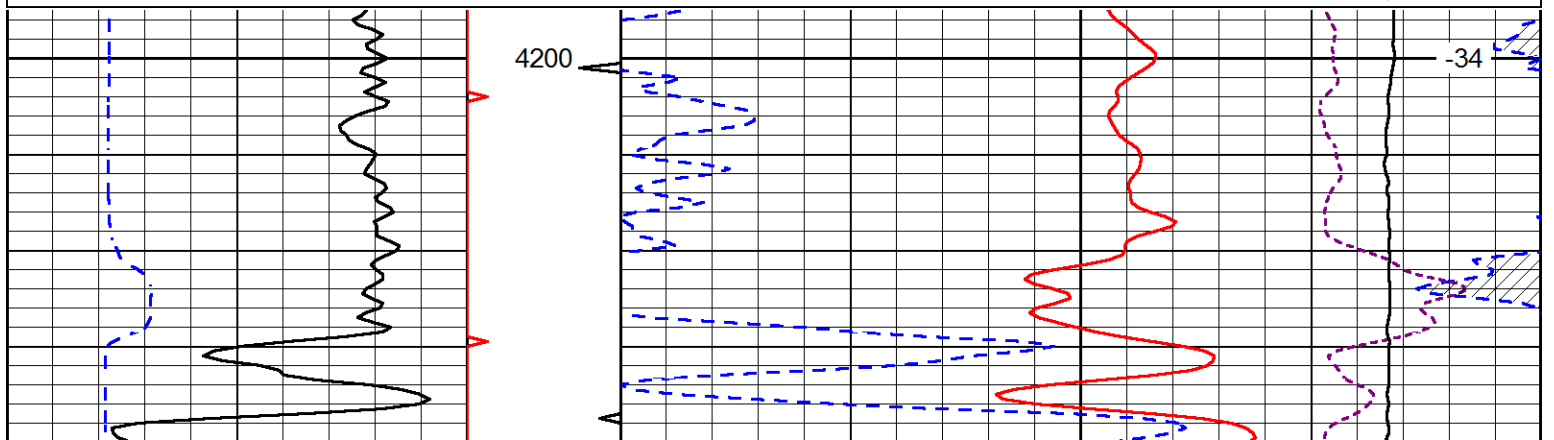
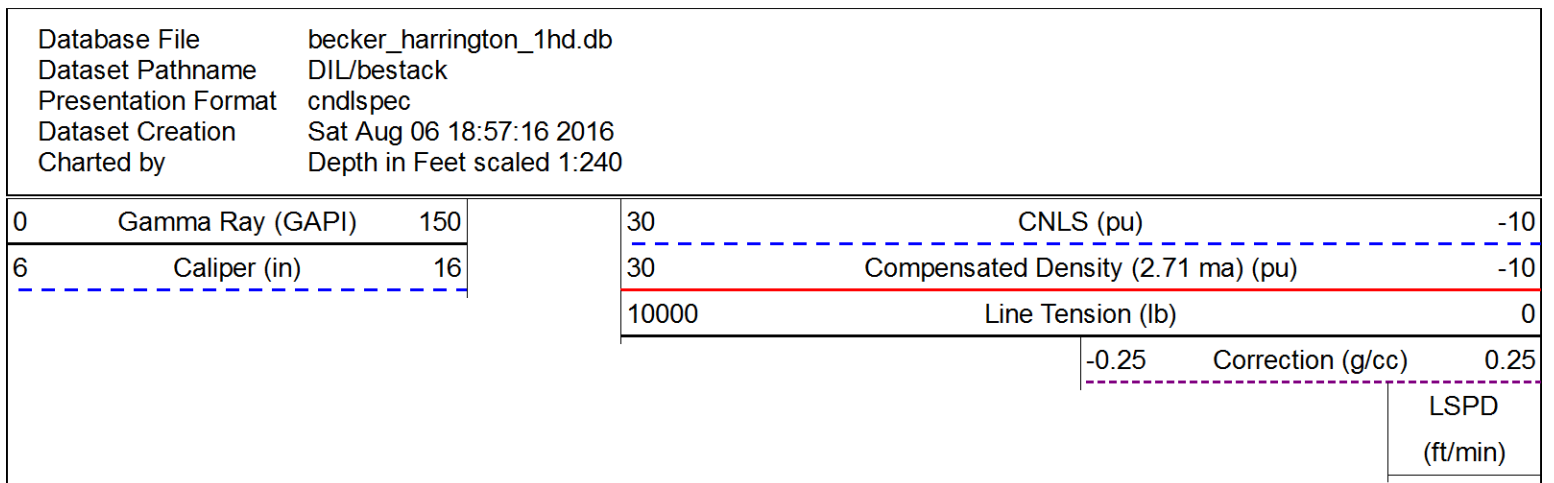
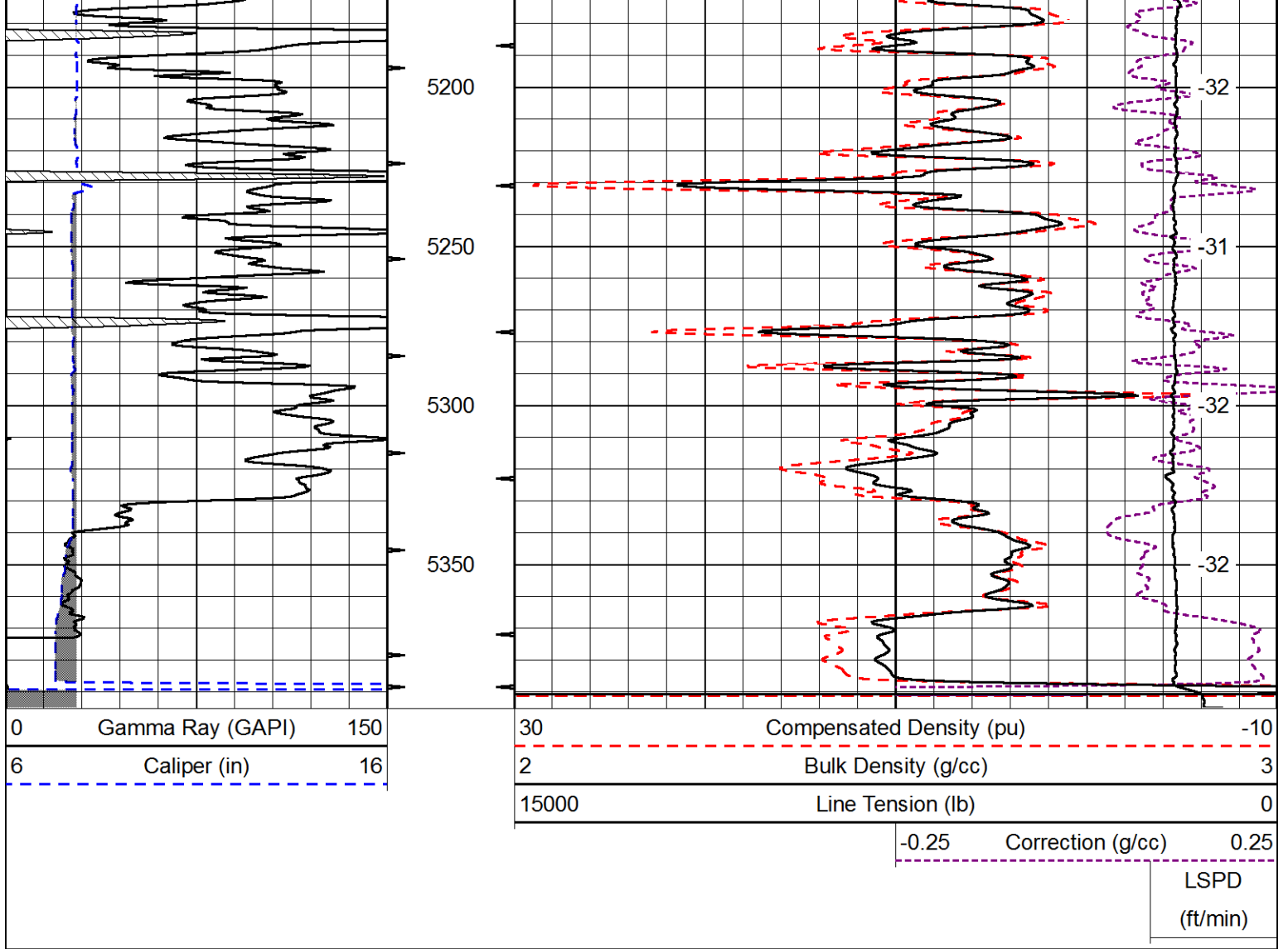
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

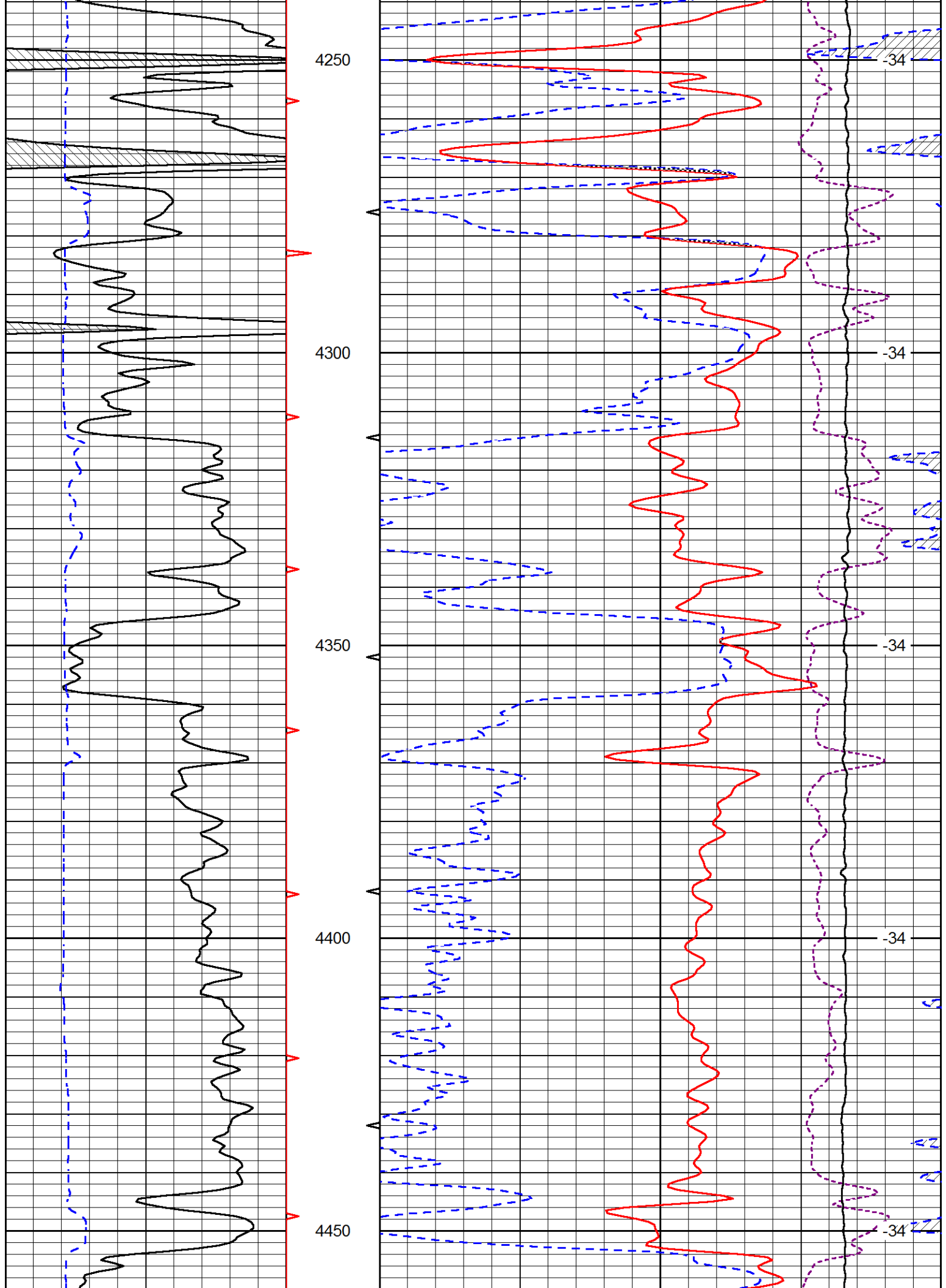
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

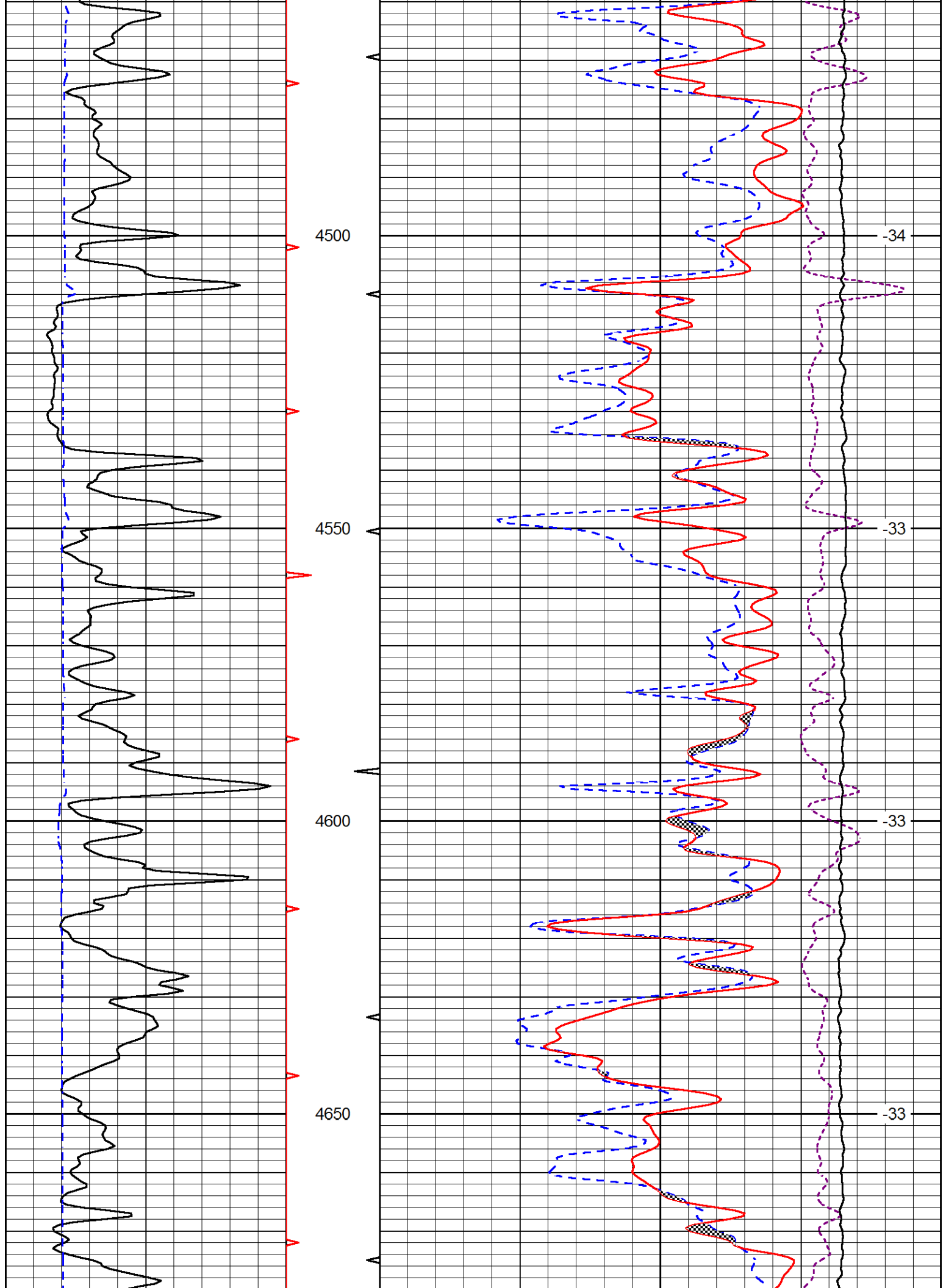
LSPD
(ft/min)

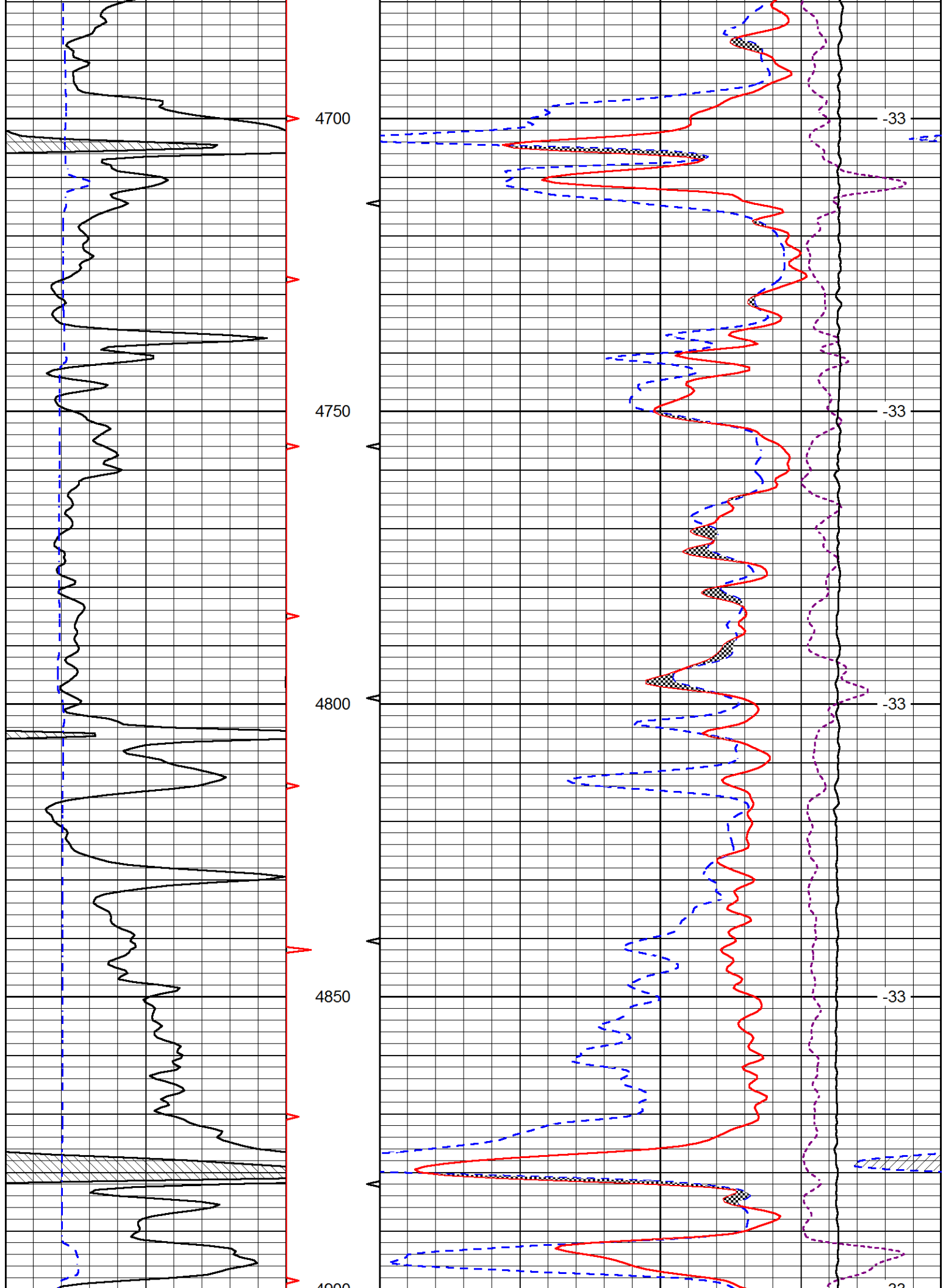


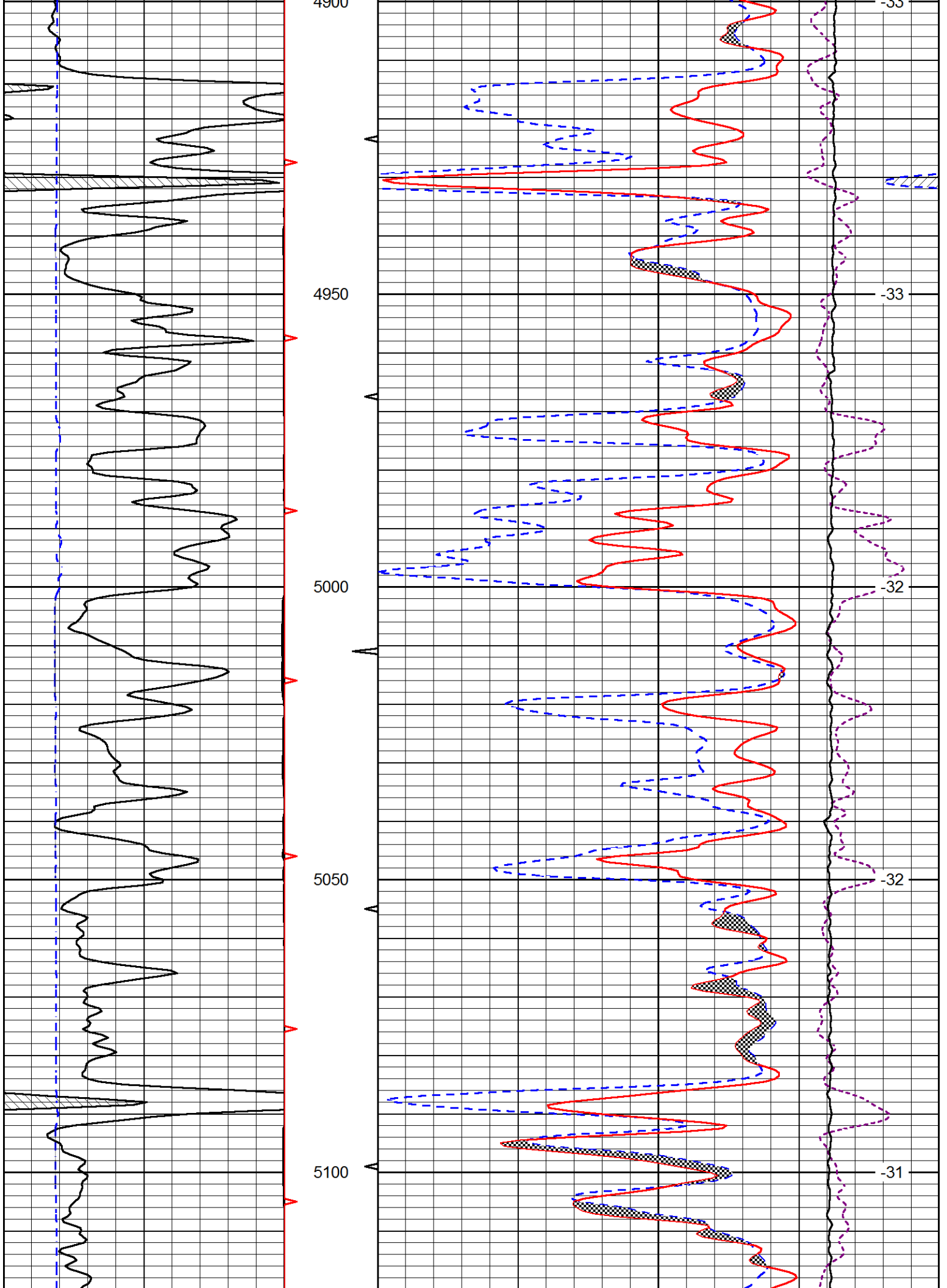


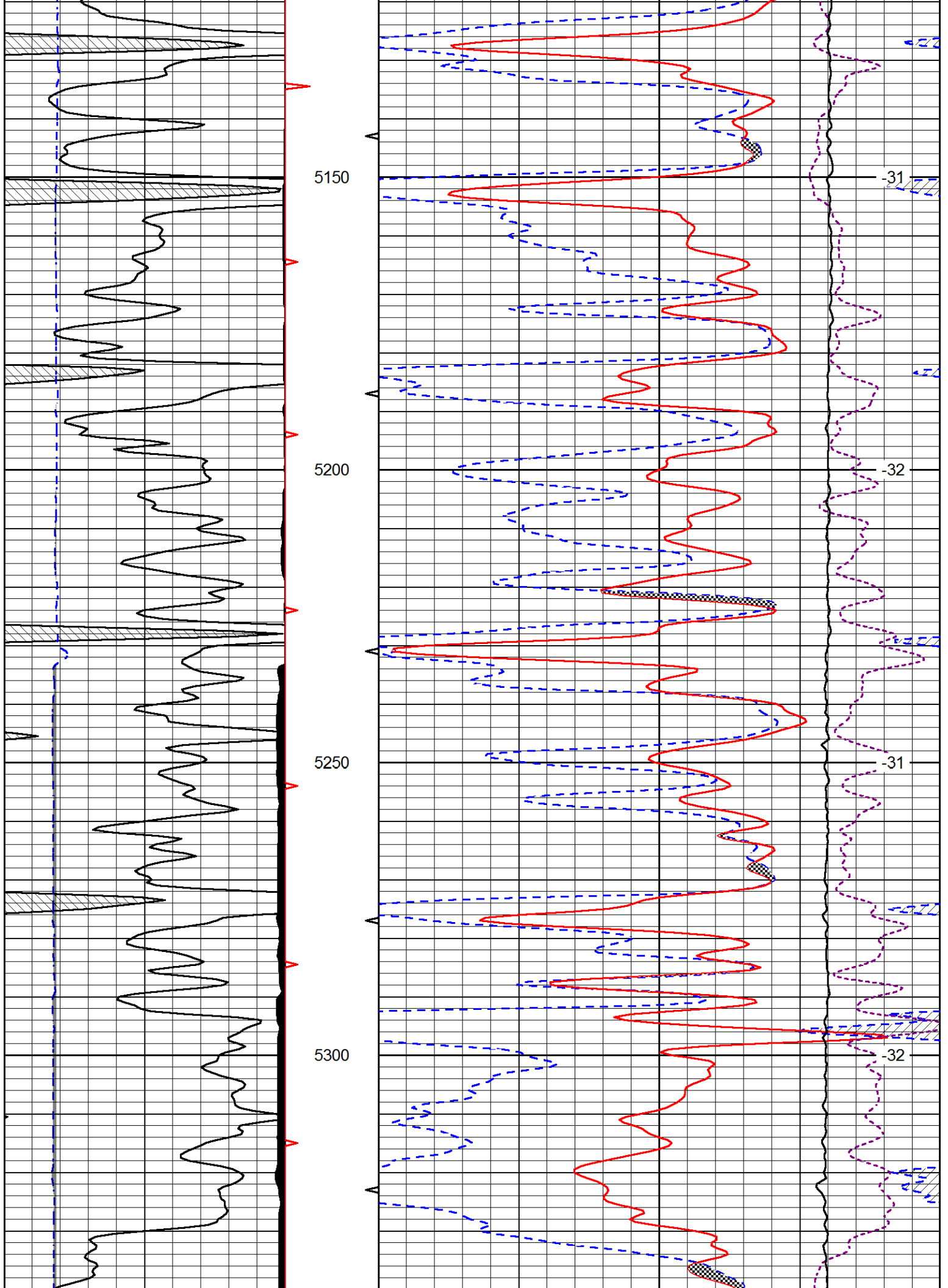


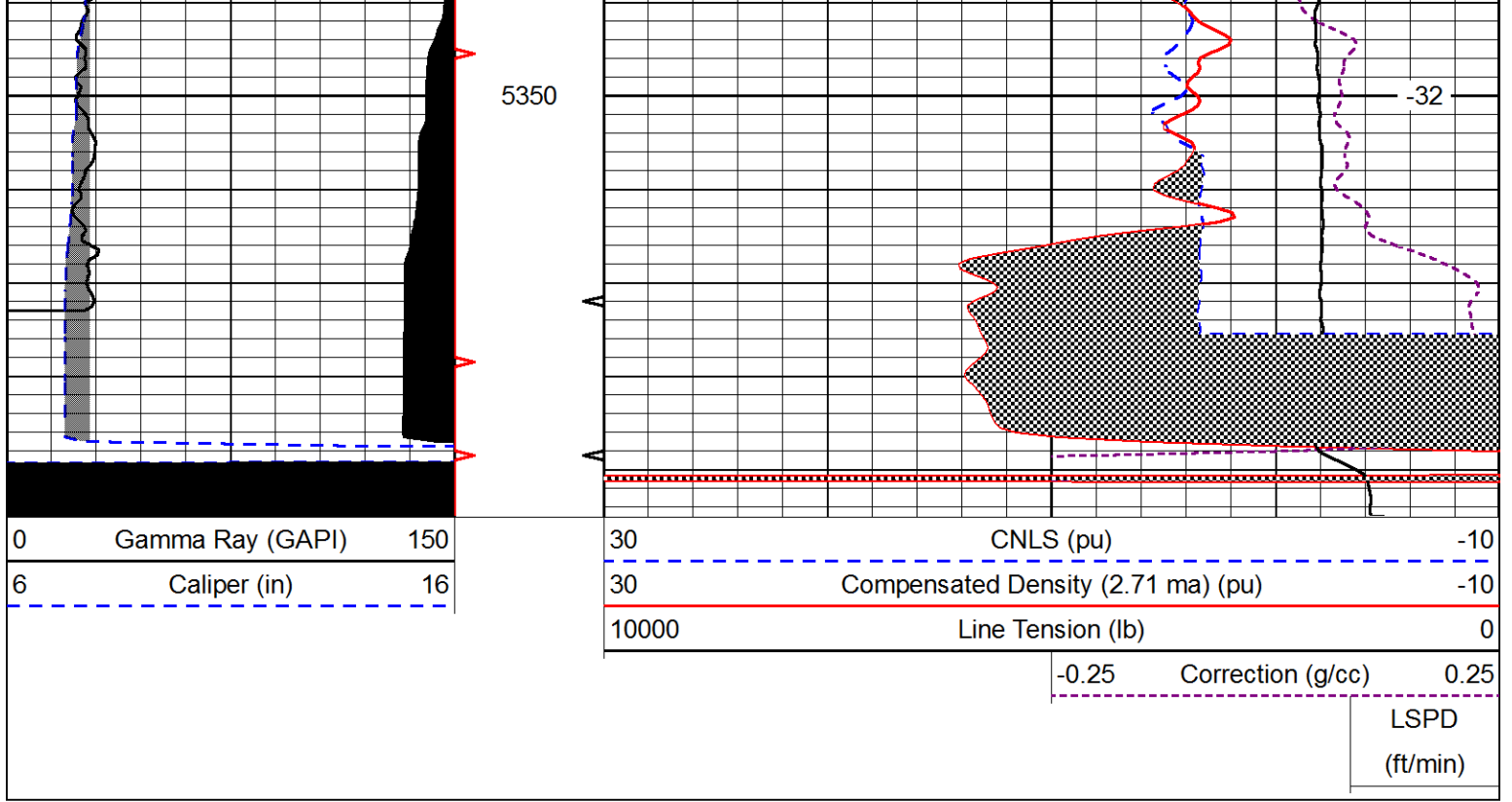














**CEMENT
BOND LOG**

Company	BECKER OIL CORPORATION	Company	BECKER OIL CORPORATION
Well	HARRINGTON NO. 1	Well	HARRINGTON NO. 1
Field	ASHLAND NORTHEAST	Field	ASHLAND NORTHEAST
County	CLARK	County	CLARK
State	KANSAS	State	KANSAS
Location:		API # : 15-025-21590-00-00	Other Services
SEC 25 TWP 32 S RGE 23 W		1550' FSL & 330' FEL	
Permanent Datum	GROUND LEVEL	Elevation	2062'
Log Measured From	K.B. 11' AGL		
Drilling Measured From	KELLY BUSHING		

Date	8/18 2016
Run Number	ONE
Depth Driller	5385'
Depth Logger	5176'
Bottom Logged Interval	5175'
Top Log Interval	3400'
Open Hole Size	7 7/8"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	130
Estimated Cement Top	3604'
Time Well Ready	9:30 AM
Time Logger on Bottom	9:45 AM
Equipment Number	T-173
Location	ASHLAND KS.
Recorded By	A DREILING
Witnessed By	MR JERRY ALEY

Run Number	Borehole Record		Tubing Record	
	Bit	From	To	Size
ONE	12.25"	0'	758'	
TWO	7 5/8"	758'	T.D.	

Casing Record	Surface String	Size	Wgt/Ft	Top		Bottom	
				0'	0'	758'	T.D.
Prot. String	4.5"	23 #LS	11.5 #	0'	0'	758'	T.D.
Production String							
Liner							

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

LOG CORRELATED TO PIONEER WIRELINE DUAL INDUCTION

ASHLAND KS.
2 1/4 N ON 20 RD,
W INTO

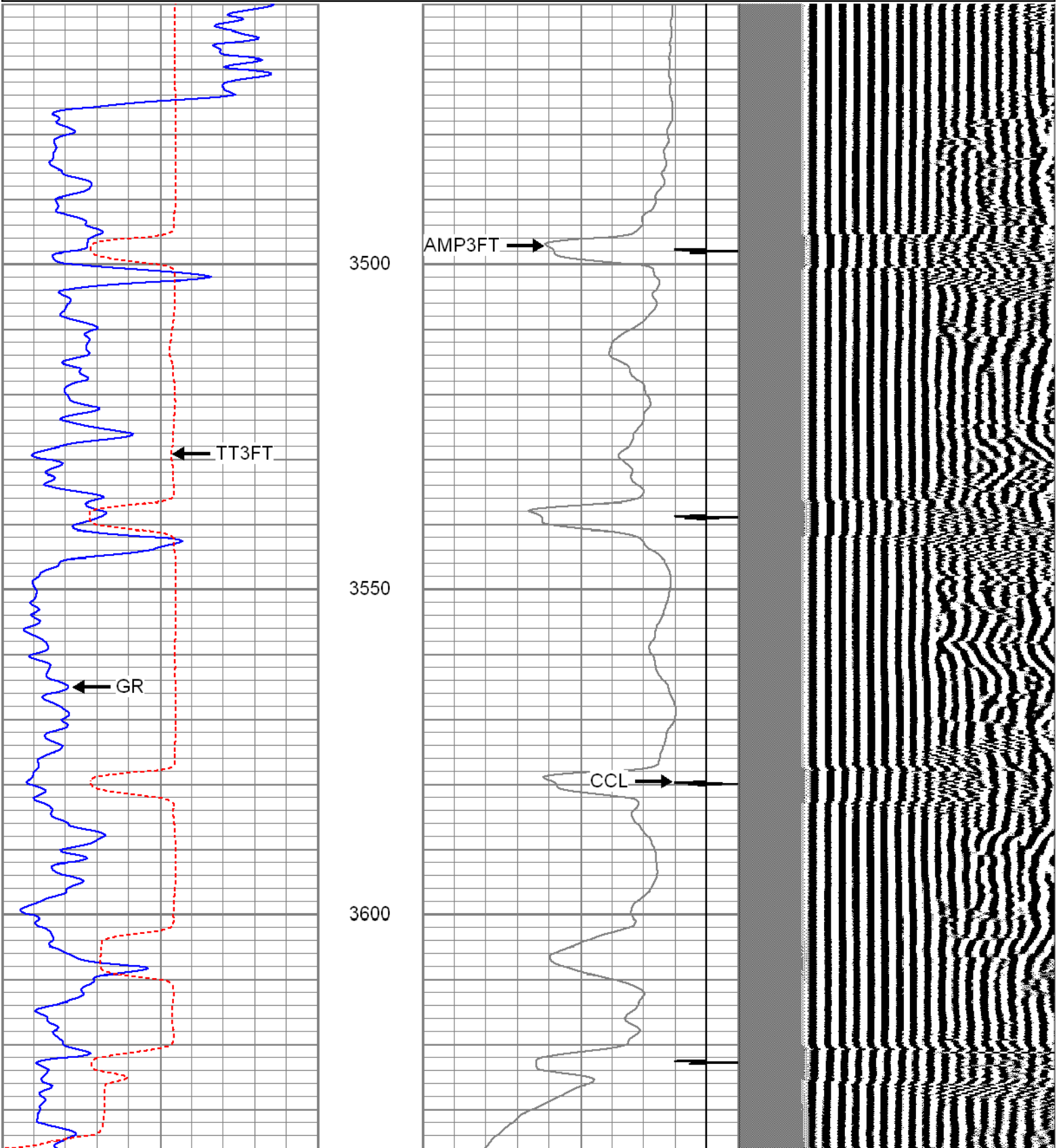


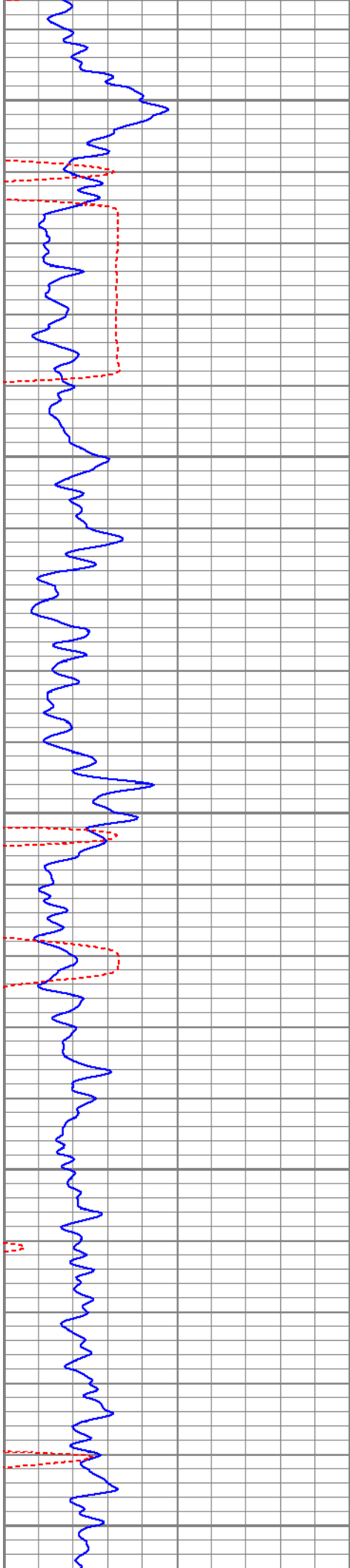
MAIN PASS

Database File boc-harrington-1.db
 Dataset Pathname grcbl/pass3.1
 Presentation Format cbl
 Dataset Creation Thu Aug 18 11:05:27 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
150	GR (GAPI)	300
420	TT3FT (usec)	220

18	CCL	-2	200	VDL	1200
0	AMP3 (mV)	100			





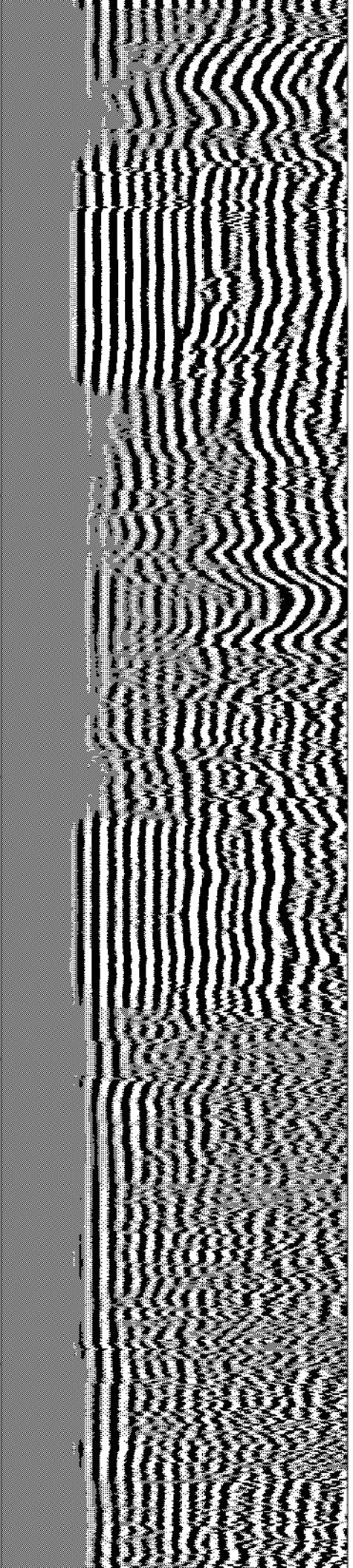
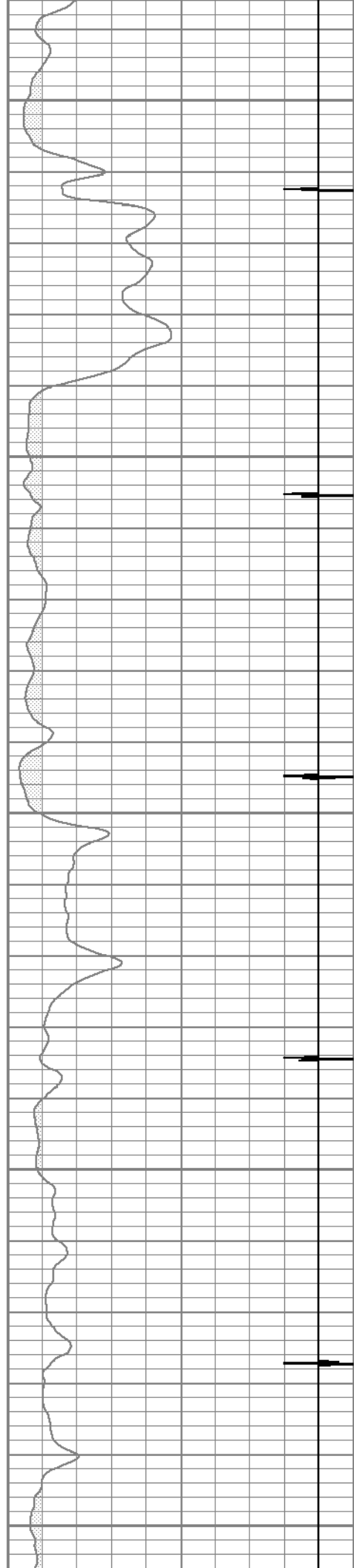
3650

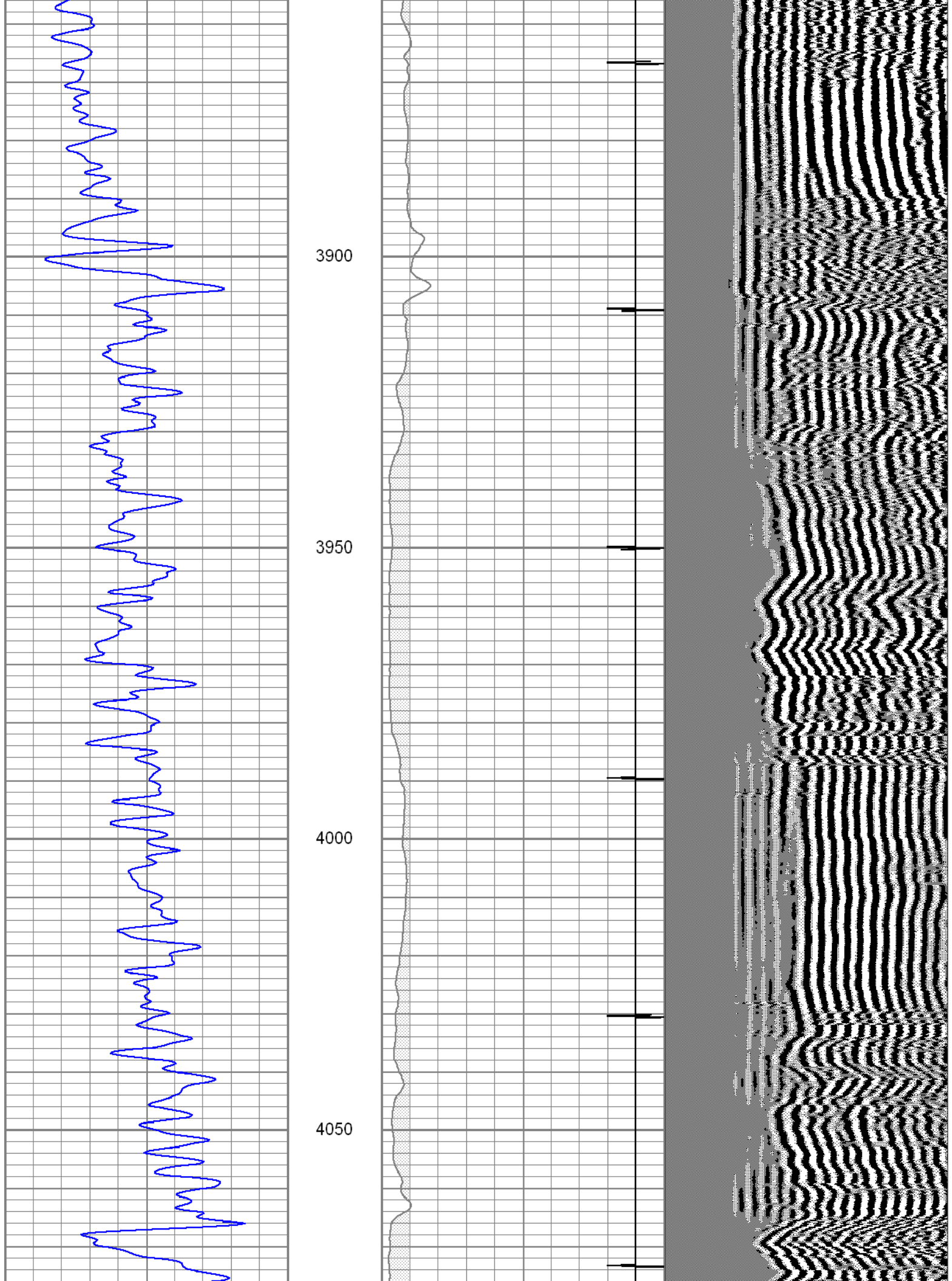
3700

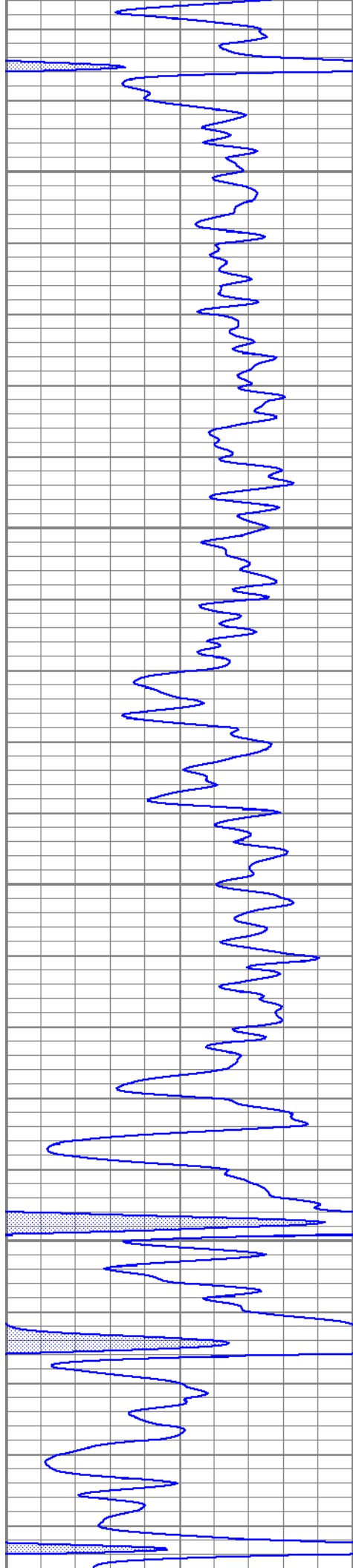
3750

3800

3850





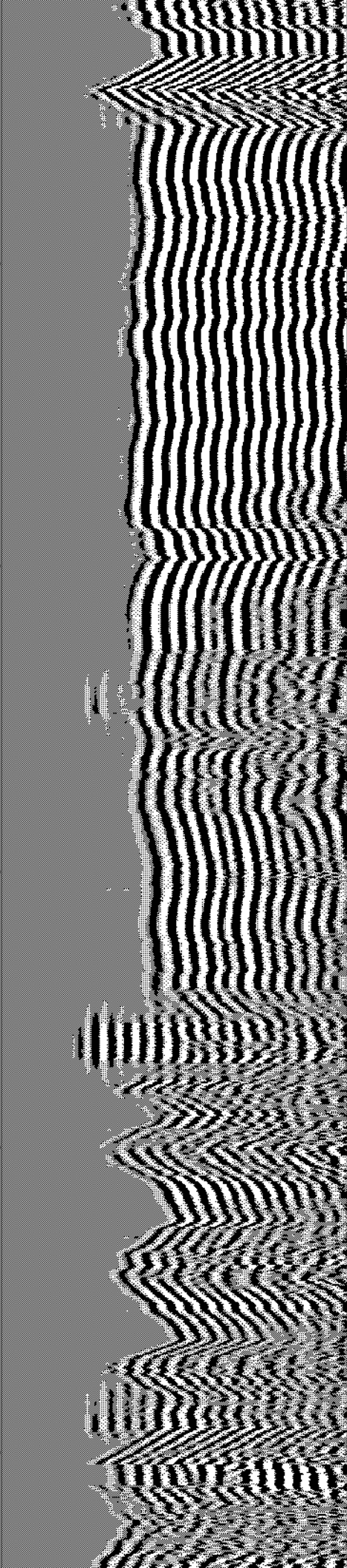
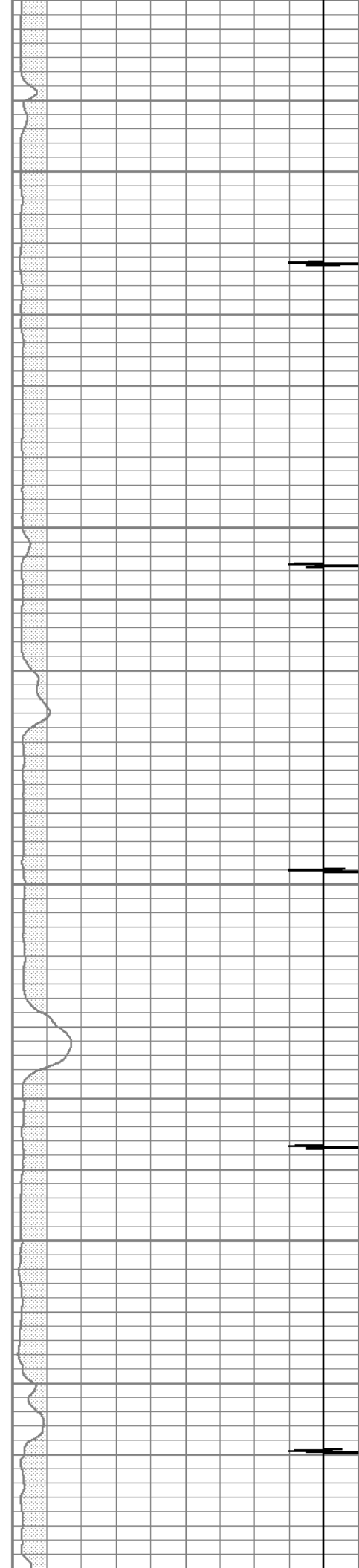


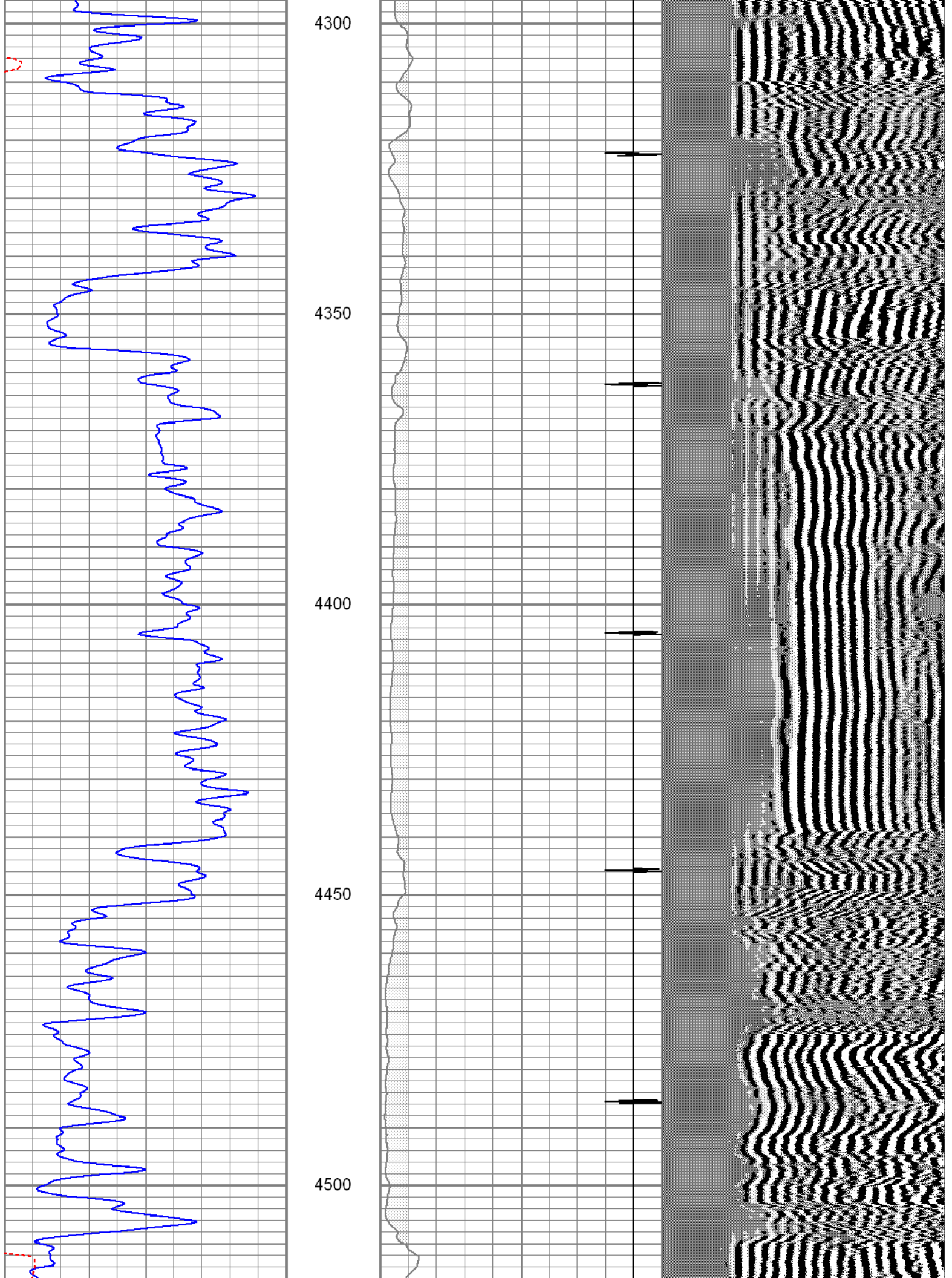
4100

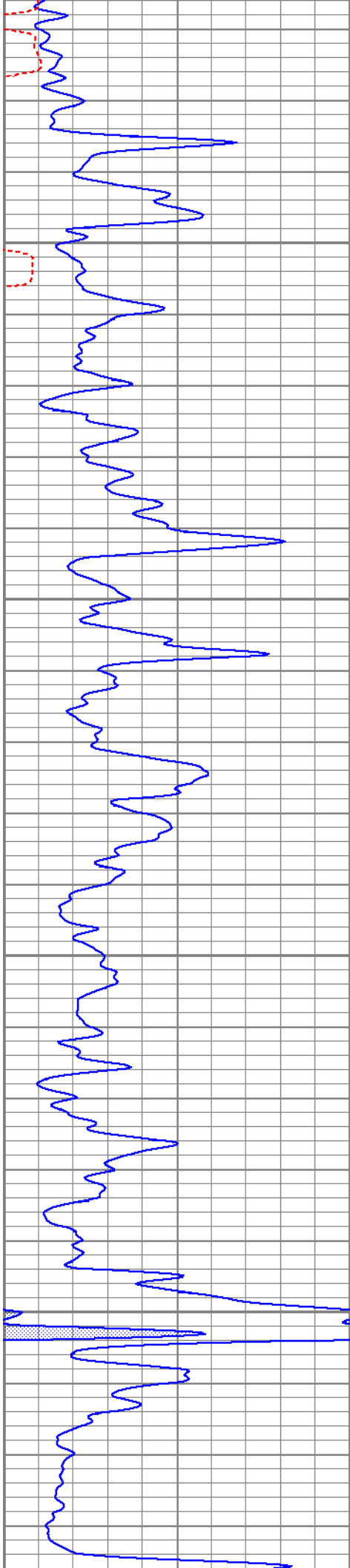
4150

4200

4250





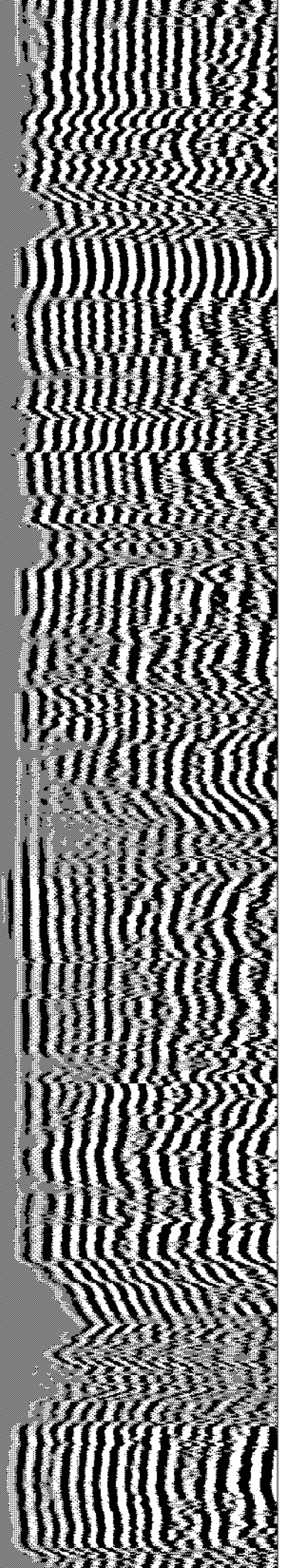
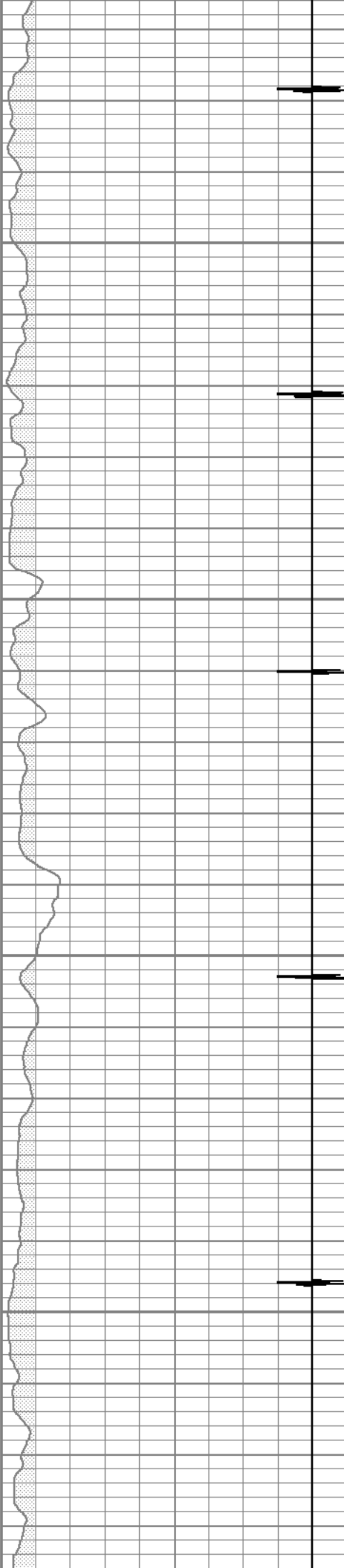


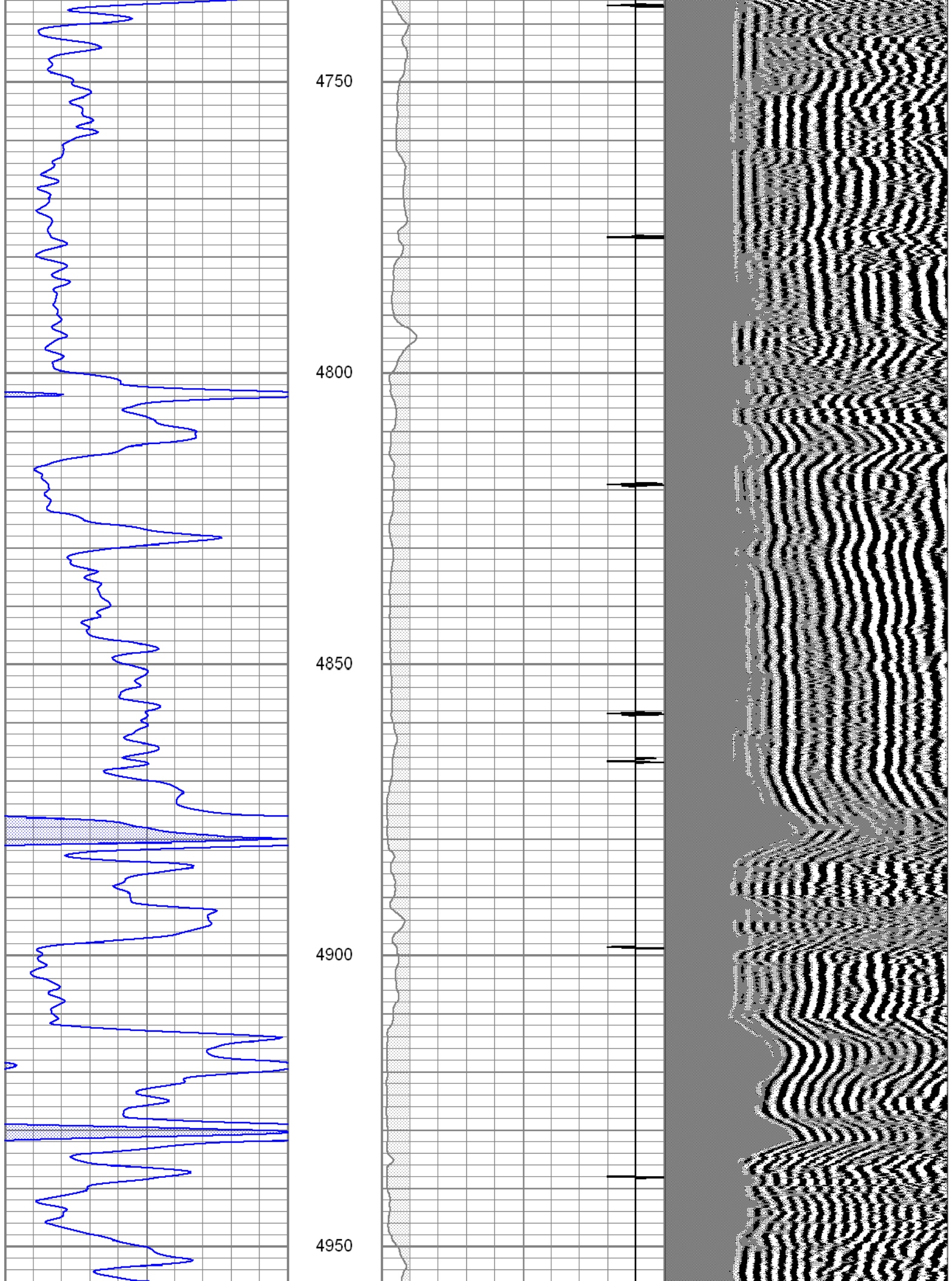
4550

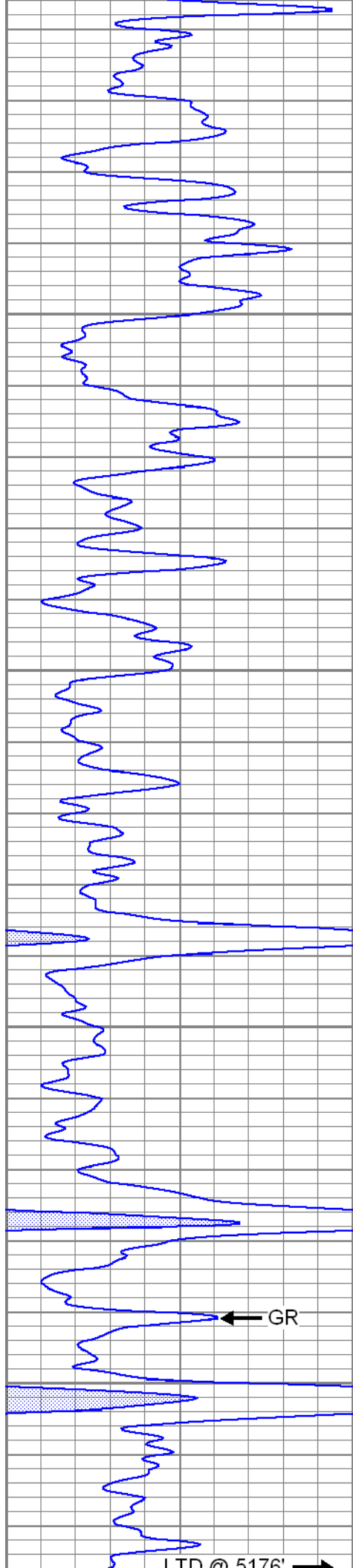
4600

4650

4700







5000

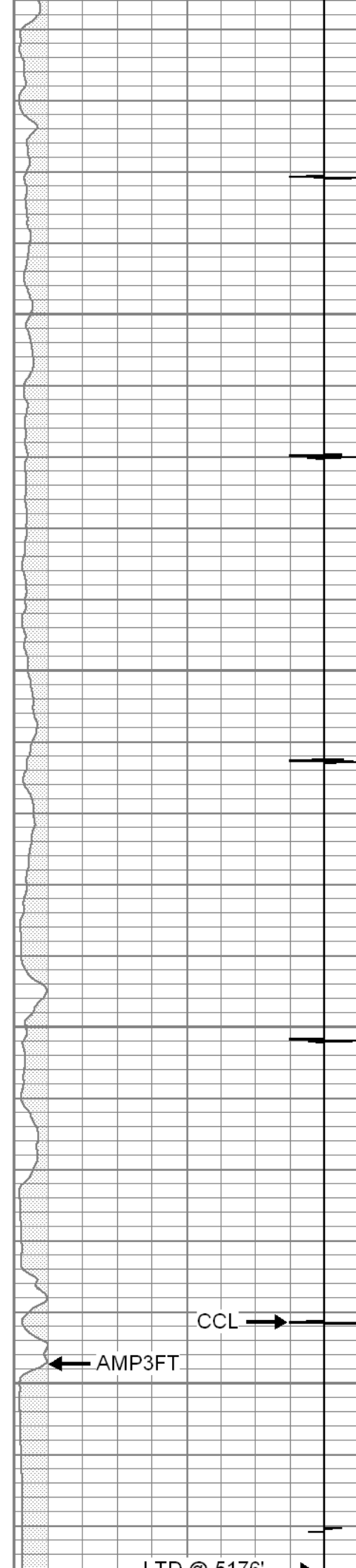
5050

5100

← GR

5150

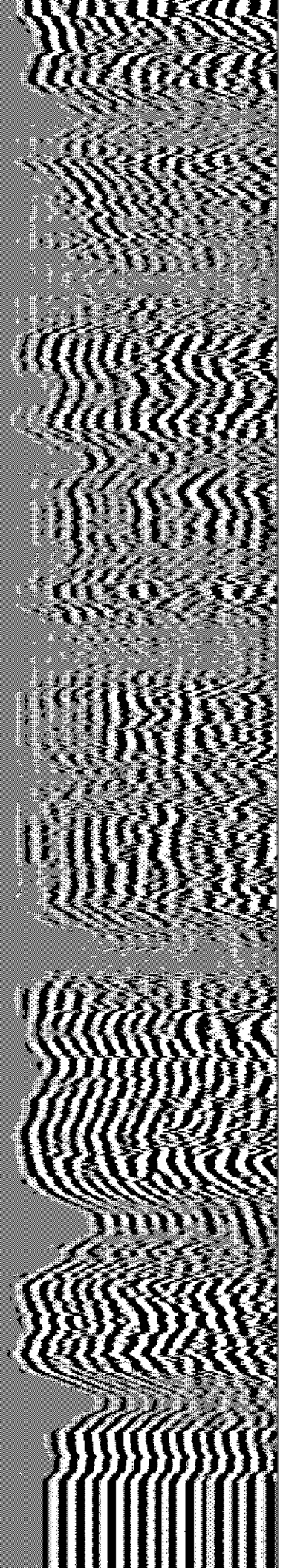
LTD @ 5176' →

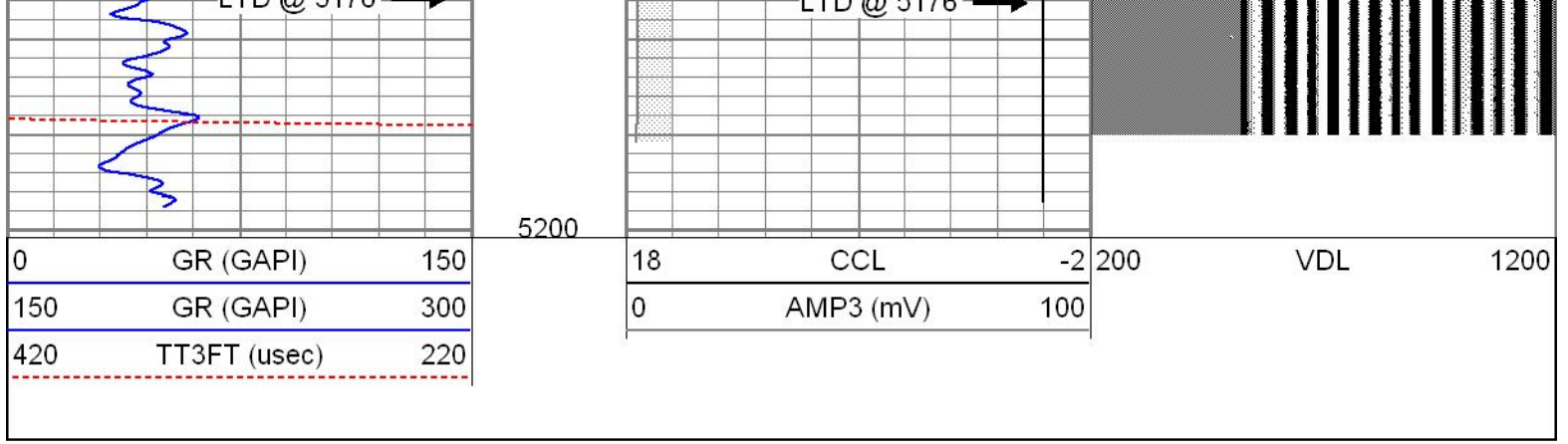


CCL →

← AMP3FT

LTD @ 5176' →

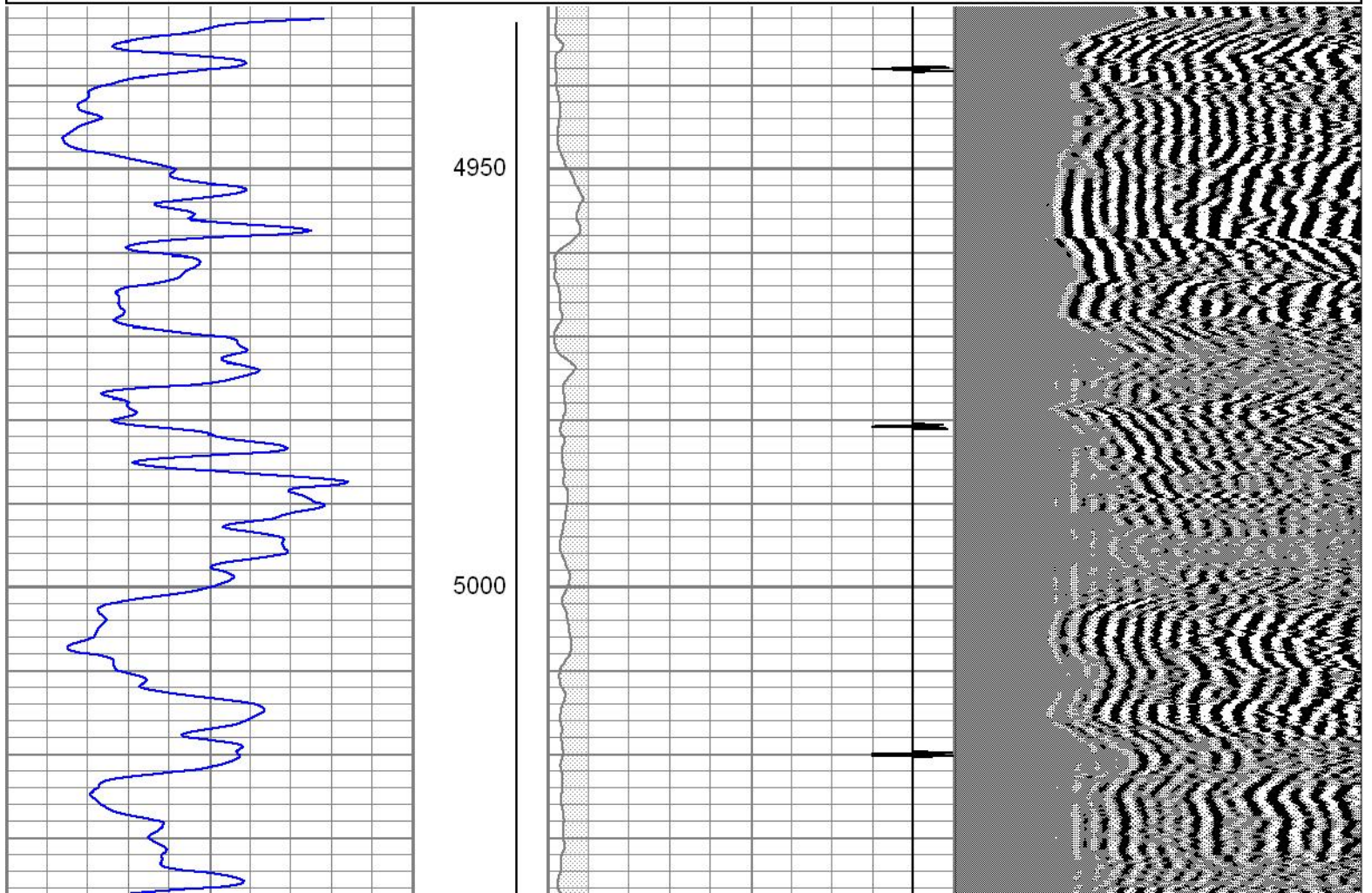


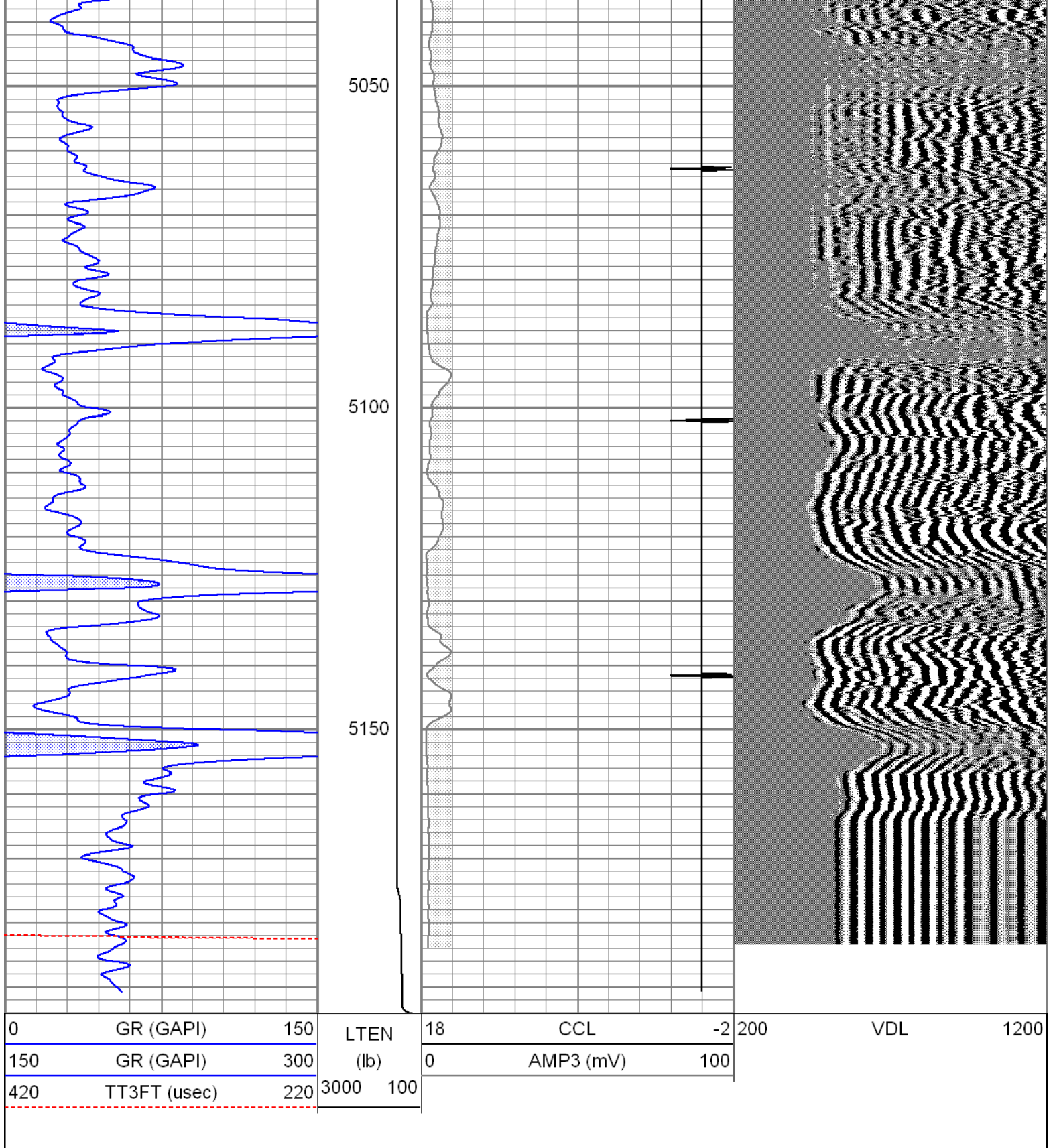


REPEAT SECTION

Database File boc-harrington-1.db
 Dataset Pathname grcbl/pass2
 Presentation Format cbl
 Dataset Creation Thu Aug 18 09:22:32 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	LTEN	18	CCL	-2	200	VDL	1200
150	GR (GAPI)	300	(lb)	0	AMP3 (mV)	100			
420	TT3FT (usec)	220	3000 100						





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
WVFS8	11.75		X	3.00	1.69	25.00
WVFS7	11.75					
WVFS6	11.75					
WVFS5	11.75					
WVFS4	11.75					
WVFS3	11.75					
WVFS2	11.75					
WVFS1	11.75					
			SCBL-ProbeRadial (080321) Probe 2 3/4 RadII	8.75	2.75	106.50

WVF3FT	11.75			3.00	1.69	25.00
WVF5FT	10.75					
WVFCAL	7.50					
CCL	3.50					
ACCZ	1.83					
ACCY	1.83					
ACCX	1.83					
GR	0.83	275D_INC (080616) 2-3/4" GR-CCL with Inclination	4.50	2.75	50.00	

Dataset: boc-harrington-1.db: field/well/grcbl/pass2.1
 Total length: 19.25 ft
 Total weight: 206.50 lb
 O.D.: 2.75 in

Calibration Report

Database File **boc-harrington-1.db**
 Dataset Pathname **grcbl/pass2.1**
 Dataset Creation **Thu Aug 18 10:58:25 2016**

Gamma Ray Calibration Report

Serial Number: **080616**
 Tool Model: **275D_INC**
 Performed: **Mon Jun 27 18:03:14 2016**

Calibrator Value: **200.0** **GAPI**

Background Reading: **50.0** **cps**
 Calibrator Reading: **250.0** **cps**

Sensitivity: **1.1000** **GAPI/cps**

Inclinometer Calibration Report

Performed: **Mon Feb 22 10:29:34 2016**

	Low Read.	High Read.	Low Ref.	High Ref.		Gain	Offset
X Accelerometer	-3560.40	3602.00	-1.00	1.00	gee	0.00	-0.01
Y Accelerometer	-3645.40	3546.20	-1.00	1.00	gee	0.00	0.01
Z Accelerometer	6.60	3581.20	0.00	1.00	gee	0.00	-0.00
RB						1.00	0.00

Segmented Cement Bond Log Calibration Report

Serial Number: **080321**
 Tool Model: **ProbeRadial**

Calibration Casing Diameter: **5.500** **in**
 Calibration Depth: **1110.652** **ft**

Master Calibration, performed Mon Jul 18 10:18:05 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.011	1.056	1.700	71.921	65.854	2.394
CAL	-0.010	1.287				
5'	-0.011	1.119	1.700	71.921	62.162	2.357
SUM						
S1	-0.010	1.065	0.000	72.000	66.984	0.676
S2	-0.010	1.115	0.000	72.000	63.961	0.664
S3	-0.010	1.097	0.000	72.000	65.010	0.677
S4	-0.010	1.065	0.000	72.000	66.956	0.682
S5	-0.010	1.036	0.000	72.000	68.796	0.720
S6	-0.010	1.022	0.000	72.000	69.723	0.729
S7	-0.010	1.012	0.000	72.000	70.437	0.717
S8	-0.010	1.018	0.000	72.000	70.010	0.727

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.010	1.287	1.000	0.000

Air Zero Calibration, performed Wed Aug 17 08:23:17 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	Offset
3'	-0.010		0.000			-0.001
5'	-0.010		0.000			-0.001
SUM						
S1	-0.010		0.000			-0.000
S2	-0.010		0.000			-0.000
S3	-0.010		0.000			-0.000
S4	-0.011		0.000			0.001
S5	-0.011		0.000			0.000
S6	-0.011		0.000			0.000
S7	-0.010		0.000			-0.000
S8	-0.010		0.000			-0.000



Company	BECKER OIL CORPORATION	
Well	HARRINGTON NO. 1	
Field	ASHLAND NORTHEAST	
County	CLARK	
State	KANSAS	Country



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Becker Oil Corporation
PO Box 1150
Ponca City OK 74601
ATTN: Clyde Becker

25-32S-23W Clark

Harrington 1

Job Ticket: 55402

DST#: 1

Test Start: 2016.08.02 @ 11:59:24

GENERAL INFORMATION:

Formation: **lola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:27:39
Time Test Ended: 21:19:09
Interval: **4695.00 ft (KB) To 4727.00 ft (KB) (TVD)**
Total Depth: 4727.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2073.00 ft (KB)
2062.00 ft (CF)
KB to GR/CF: 11.00 ft

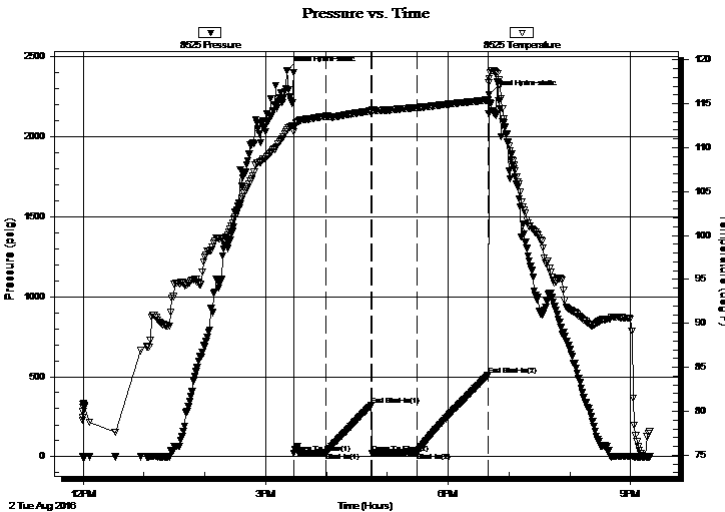
Serial #: 8525

Inside

Press@RunDepth: 26.60 psig @ 4696.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.02 End Date: 2016.08.02 Last Calib.: 2016.08.02
Start Time: 11:59:25 End Time: 21:19:09 Time On Btm: 2016.08.02 @ 15:21:09
Time Off Btm: 2016.08.02 @ 18:40:09

TEST COMMENT: IF: Fair Blow , Built to 7 1/2 inches
IS: No Blow Back
FF: Strong Blow , BOB in 45 seconds
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.85	111.97	Initial Hydro-static
7	22.48	111.80	Open To Flow (1)
39	24.77	113.58	Shut-In(1)
83	320.08	114.16	End Shut-In(1)
84	22.07	114.29	Open To Flow (2)
128	26.60	114.57	Shut-In(2)
198	510.14	115.42	End Shut-In(2)
199	2263.37	117.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	768 GIP	0.00
20.00	SGCM 2%G 98%M	0.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

Job Ticket: 55402

DST#: 1

ATTN: Clyde Becker

Test Start: 2016.08.02 @ 11:59:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	768 GIP	0.000
20.00	SGCM 2%G 98%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

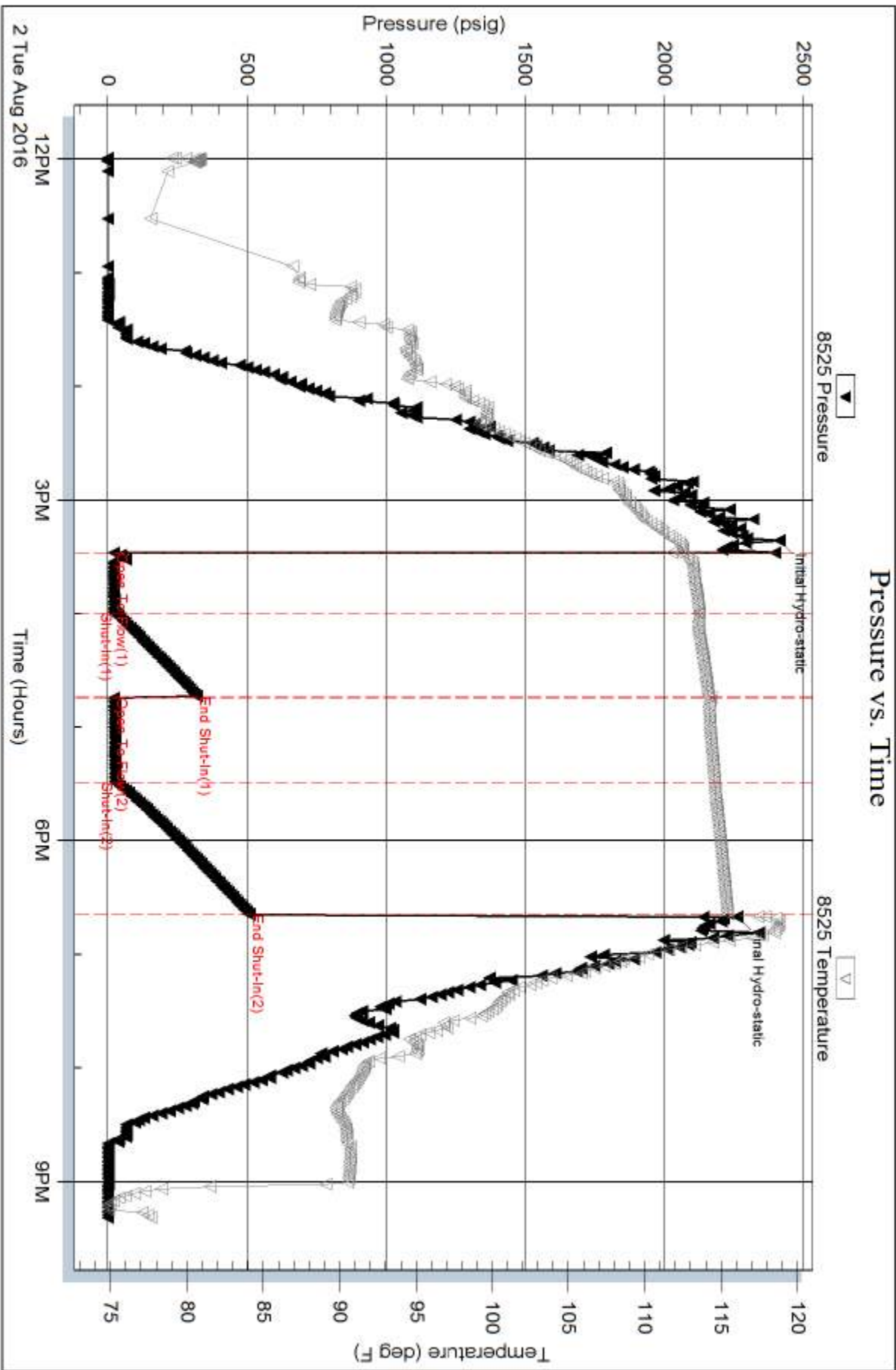
Serial #: 8525

Inside

Becker Oil Corporation

Harrington 1

DST Test Number: 1

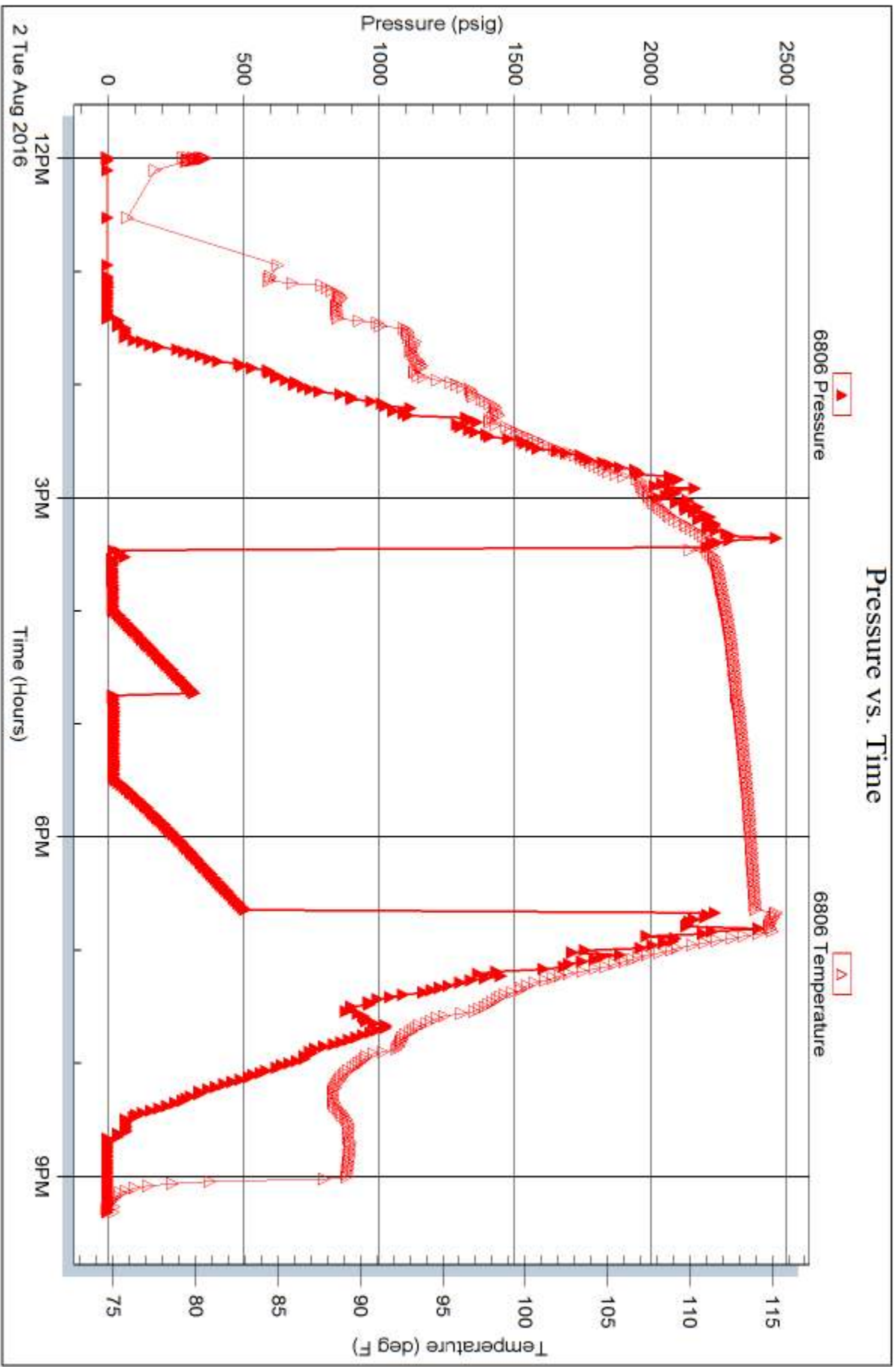


Serial #: 6806

Outside Becker Oil Corporation

Harrington 1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55402

Printed: 2016.08.02 @ 23:29:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

Job Ticket: 55403

DST#: 2

ATTN: Clyde Becker

Test Start: 2016.08.03 @ 14:18:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4869 GIP	0.000
10.00	GCM 5%G 95%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

Job Ticket: 55403

DST#: 2

ATTN: Clyde Becker

Test Start: 2016.08.03 @ 14:18:19

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.38	20.00	126.02
1	30	0.38	24.00	140.67
2	10	0.25	30.00	70.44
2	20	0.25	46.00	95.82
2	30	0.25	60.00	118.03
2	40	0.25	70.00	133.89
2	45	0.25	75.00	141.82

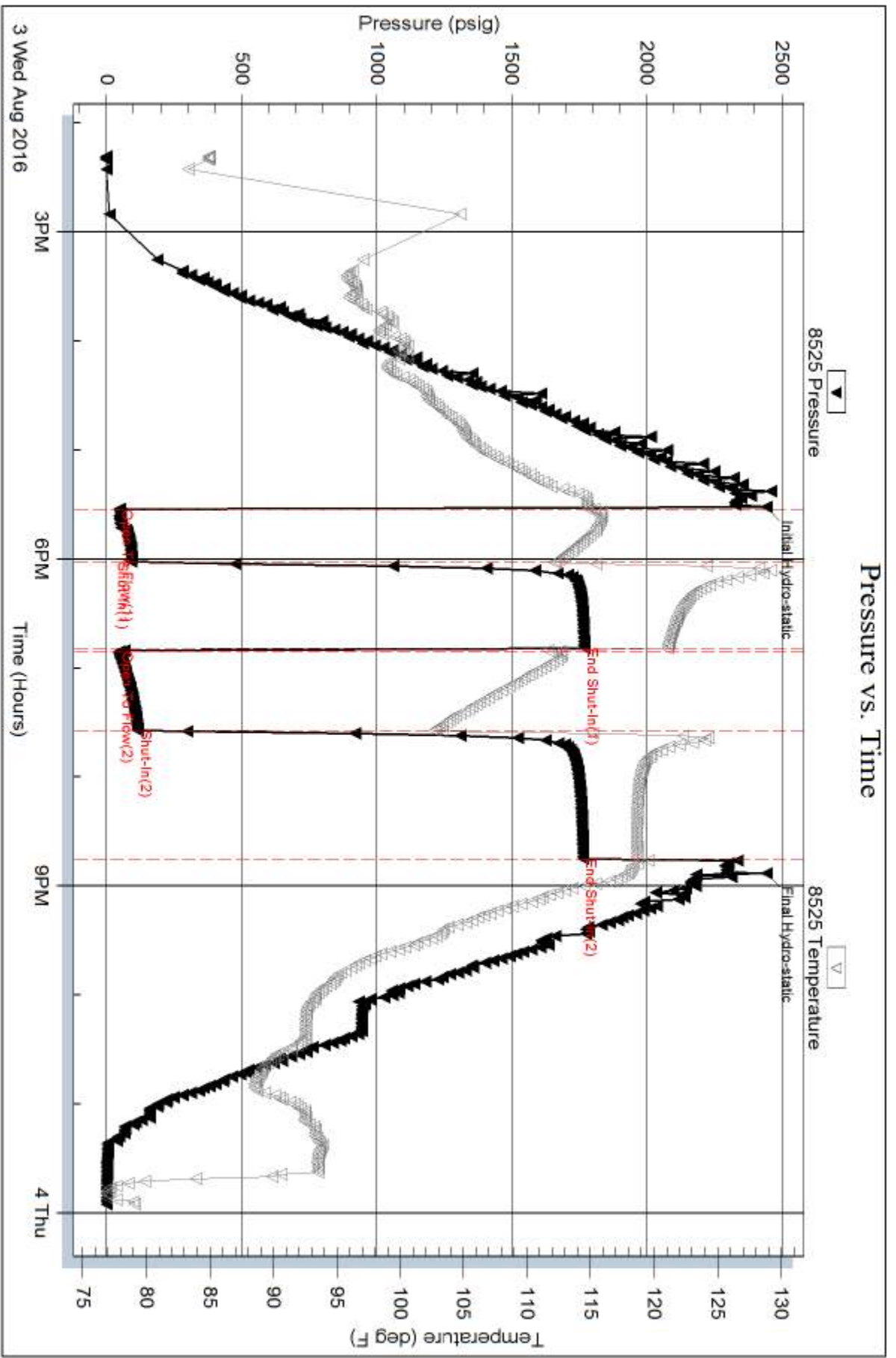
Serial #: 8525

Inside

Becker Oil Corporation

Harrington 1

DST Test Number: 2

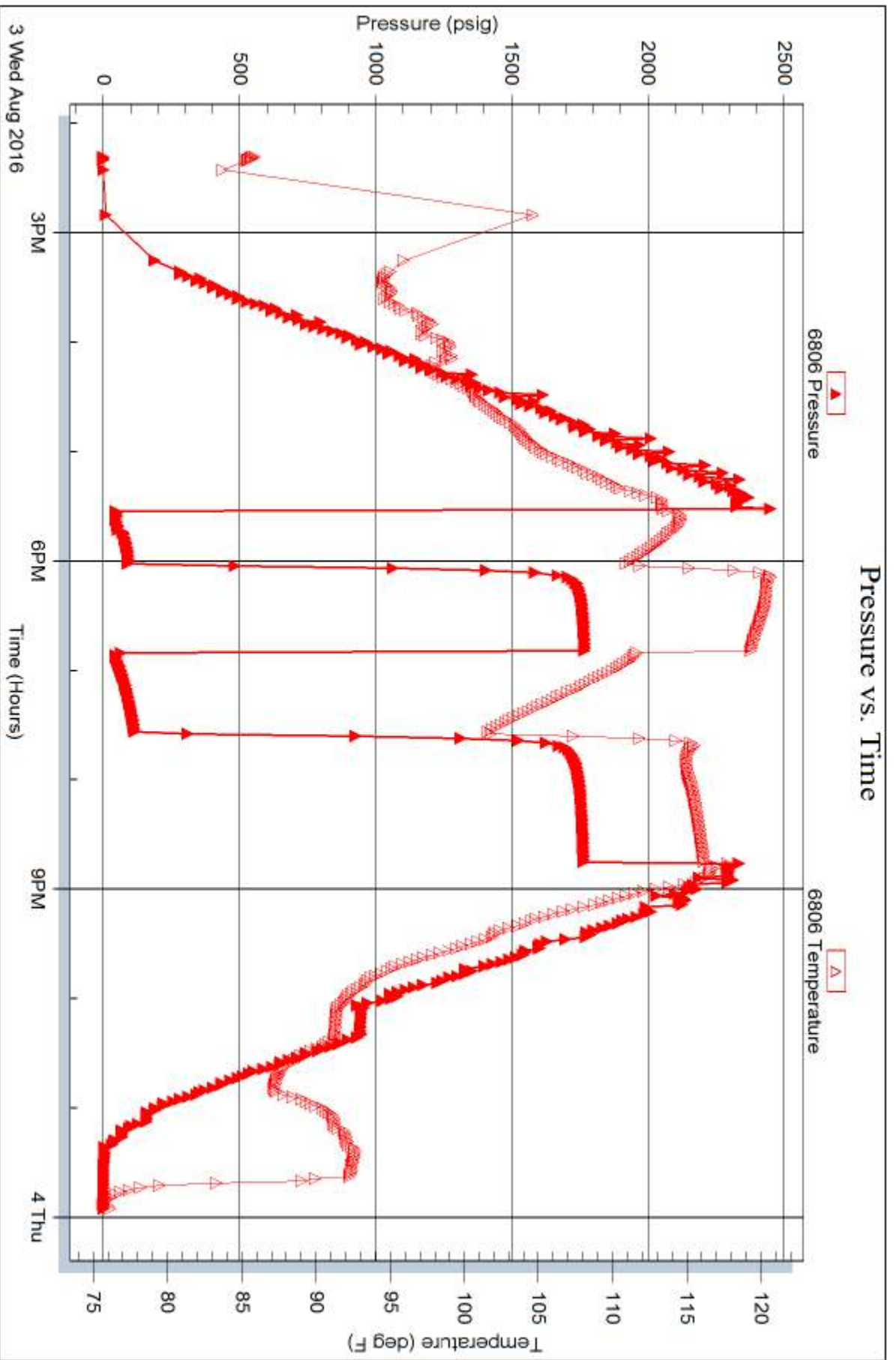


Serial #: 6806

Outside Becker Oil Corporation

Harrington 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55403

Printed: 2016.08.04 @ 08:27:31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponca City OK 74601
 ATTN: Clyde Becker

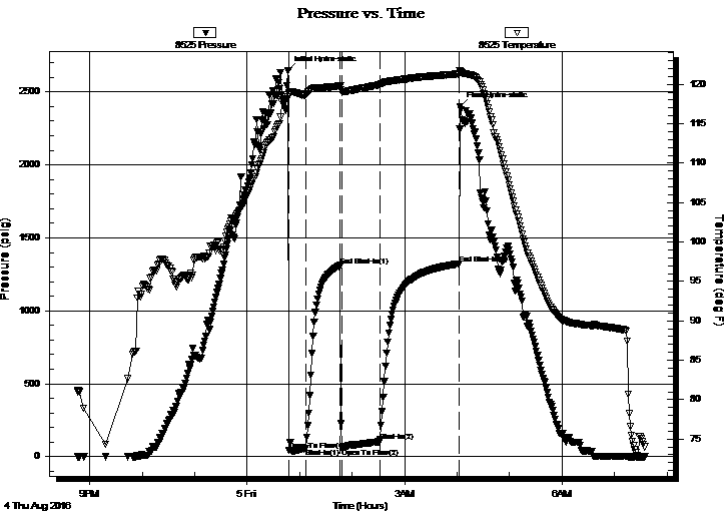
25-32S-23W Clark
Harrington 1
 Job Ticket: 55404 **DST#: 3**
 Test Start: 2016.08.04 @ 20:46:21

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:48:06
 Time Test Ended: 07:35:06
 Interval: **5085.00 ft (KB) To 5120.00 ft (KB) (TVD)**
 Total Depth: 5120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2073.00 ft (KB)
 2062.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 104.26 psig @ 5086.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.04 End Date: 2016.08.05 Last Calib.: 2016.08.05
 Start Time: 20:46:22 End Time: 07:35:06 Time On Btm: 2016.08.05 @ 00:46:51
 Time Off Btm: 2016.08.05 @ 04:03:36

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 20 seconds, GTS in 38 minutes, TSTM
 FS: 1 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2647.60	118.37	Initial Hydro-static
2	45.31	118.97	Open To Flow (1)
20	58.11	118.67	Shut-In(1)
60	1310.00	119.79	End Shut-In(1)
62	59.56	119.00	Open To Flow (2)
105	104.26	119.95	Shut-In(2)
196	1322.13	121.31	End Shut-In(2)
197	2398.60	121.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4829 GIP	0.00
117.00	GOMCW 10%G 10%O 12%M 68%W	0.58
123.00	GWMCO 10%G 10%W 40%M 40%O	1.73

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

Job Ticket: 55404

DST#: 3

ATTN: Clyde Becker

Test Start: 2016.08.04 @ 20:46:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

82000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	4829 GIP	0.000
117.00	GOMCW 10%G 10%O 12%M 68%W	0.575
123.00	GWMCO 10%G 10%W 40%M 40%O	1.725

Total Length: 240.00 ft Total Volume: 2.300 bbl

Num Fluid Samples: 0

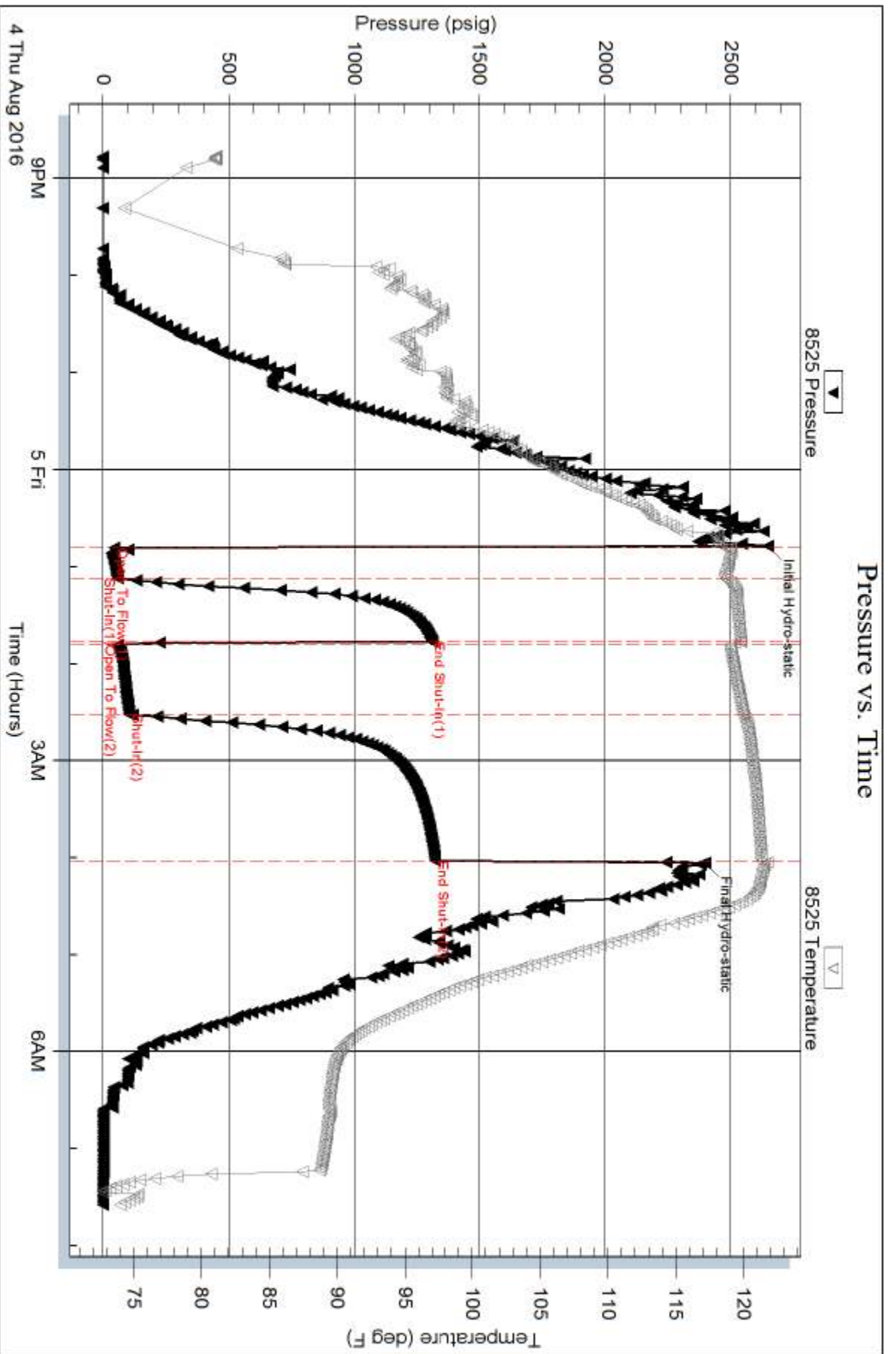
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .095 @ 70 degrees

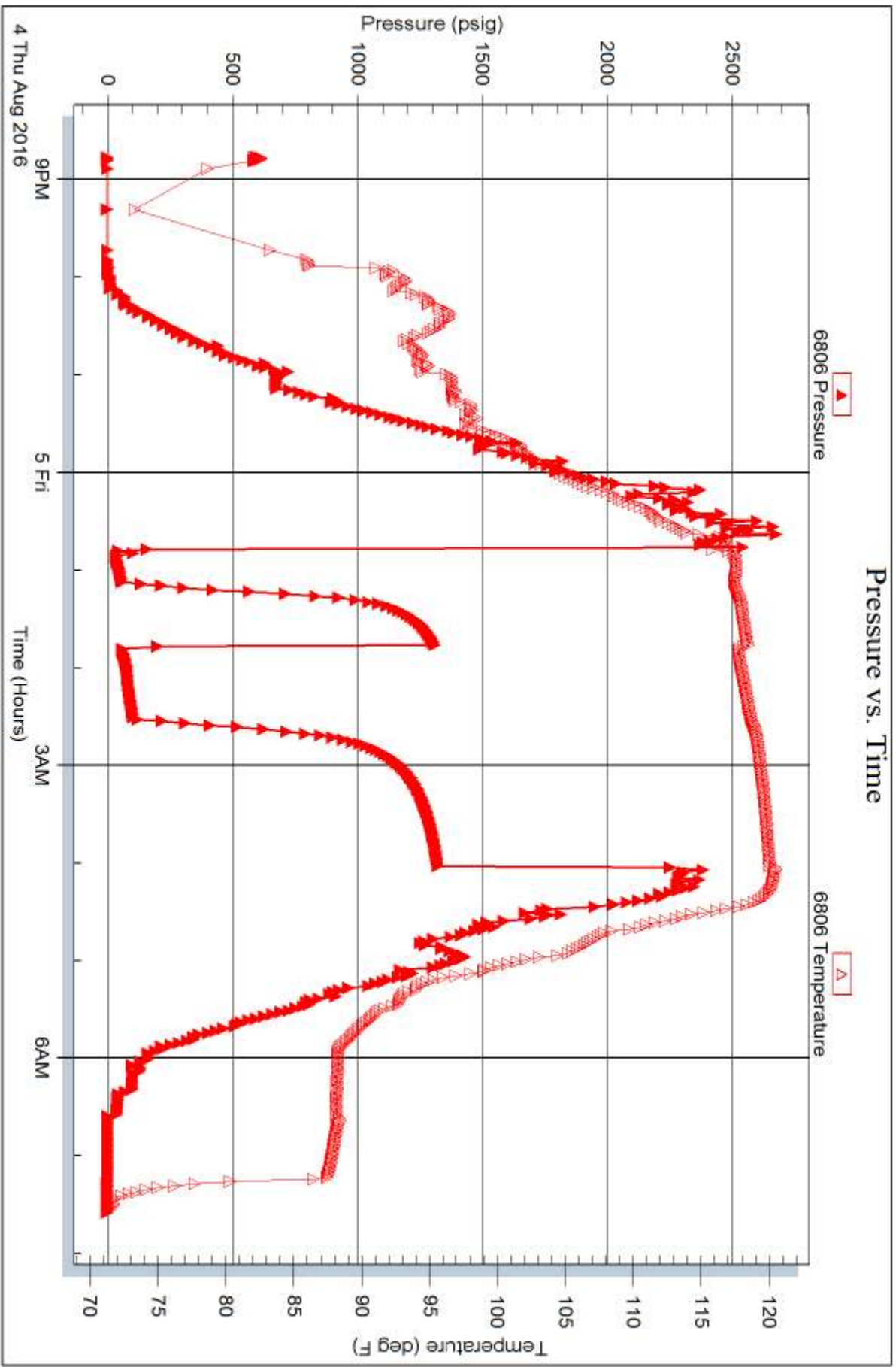


Serial #: 6806

Outside Becker Oil Corporation

Harrington 1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55404

Printed: 2016.08.05 @ 08:13:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponca City OK 74601
 ATTN: Clyde Becker

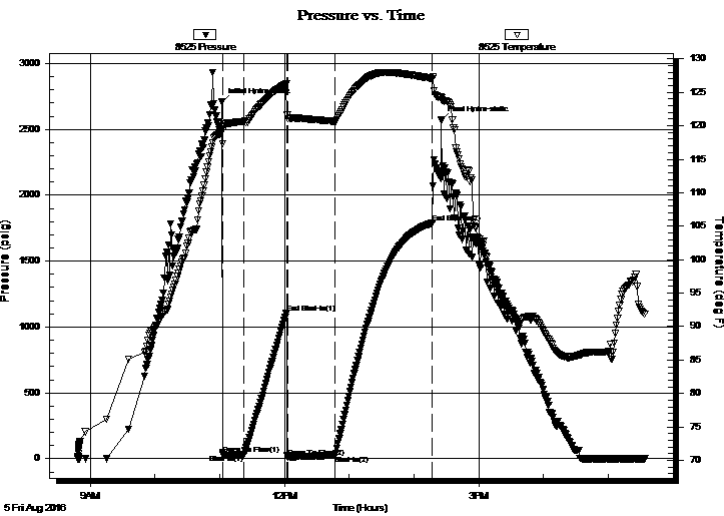
25-32S-23W Clark
Harrington 1
 Job Ticket: 55405 **DST#: 4**
 Test Start: 2016.08.05 @ 08:48:21

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:03:06
 Time Test Ended: 17:34:21
 Interval: **5042.00 ft (KB) To 5075.00 ft (KB) (TVD)**
 Total Depth: 5120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2073.00 ft (KB)
 2062.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 27.40 psig @ 5043.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.05 End Date: 2016.08.05 Last Calib.: 2016.08.05
 Start Time: 08:48:22 End Time: 17:34:21 Time On Btm: 2016.08.05 @ 11:01:36
 Time Off Btm: 2016.08.05 @ 14:25:21

TEST COMMENT: IF: Strong Blow , BOBin 5 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB immediate, GTS in 5 minutes, TSTM
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2706.20	118.96	Initial Hydro-static
2	32.26	119.40	Open To Flow (1)
21	31.98	120.66	Shut-In(1)
61	1108.60	126.26	End Shut-In(1)
62	14.09	121.06	Open To Flow (2)
106	27.40	120.66	Shut-In(2)
196	1789.16	127.06	End Shut-In(2)
204	2568.90	124.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5018 GIP	0.00
20.00	GSY VSOSM 2%G -1&O +97%M	0.10

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

ATTN: Clyde Becker

Job Ticket: 55405

DST#: 4

Test Start: 2016.08.05 @ 08:48:21

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:03:06

Time Test Ended: 17:34:21

Interval: **5042.00 ft (KB) To 5075.00 ft (KB) (TVD)**

Total Depth: 5120.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)

Tester: Leal Cason

Unit No: 74

Reference Elevations: 2073.00 ft (KB)

2062.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6806** Outside

Press@RunDepth: psig @ 5043.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.05 End Date: 2016.08.05

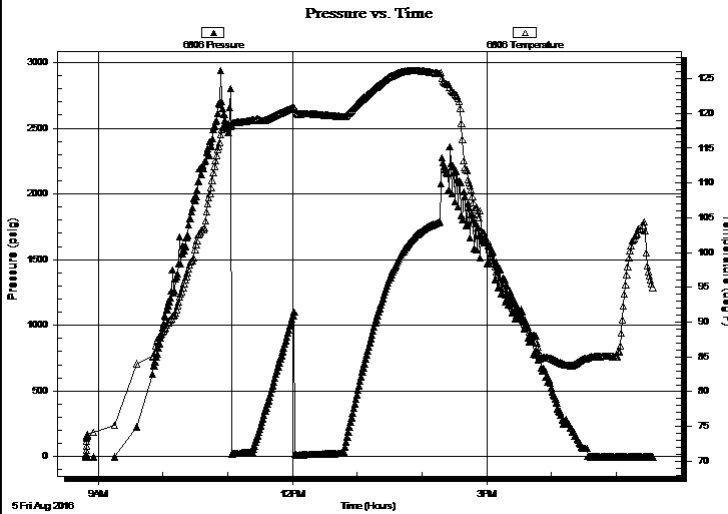
Last Calib.: 2016.08.05

Start Time: 08:48:22 End Time: 17:34:21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOBin 5 minutes
IS: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 5 minutes, TSTM
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5018 GIP	0.00
20.00	GSY VSOSM 2%G -1&O +97%M	0.10

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponca City OK 74601
 ATTN: Clyde Becker

25-32S-23W Clark

Harrington 1

Job Ticket: 55405

DST#: 4

Test Start: 2016.08.05 @ 08:48:21

GENERAL INFORMATION:

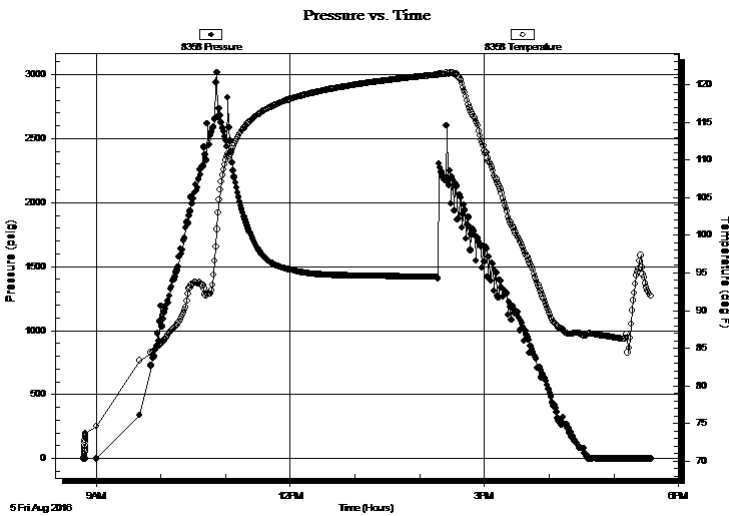
Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:03:06
 Time Test Ended: 17:34:21
 Interval: **5042.00 ft (KB) To 5075.00 ft (KB) (TVD)**
 Total Depth: 5120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2073.00 ft (KB)
 2062.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8358

Below (Straddle)

Press@RunDepth: psig @ 5080.00 ft (KB)
 Start Date: 2016.08.05 End Date: 2016.08.05
 Start Time: 08:48:22 End Time: 17:34:06
 Capacity: 8000.00 psig
 Last Calib.: 2016.08.05
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOBin 5 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB immediate, GTS in 5 minutes, TSTM
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5018 GIP	0.00
20.00	GSY VSOSM 2%G -1&O +97%M	0.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

25-32S-23W Clark

PO Box 1150
Ponca City OK 74601

Harrington 1

Job Ticket: 55405

DST#: 4

ATTN: Clyde Becker

Test Start: 2016.08.05 @ 08:48:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	5018 GIP	0.000
20.00	GSY VSOSM 2%G - 1&O +97%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

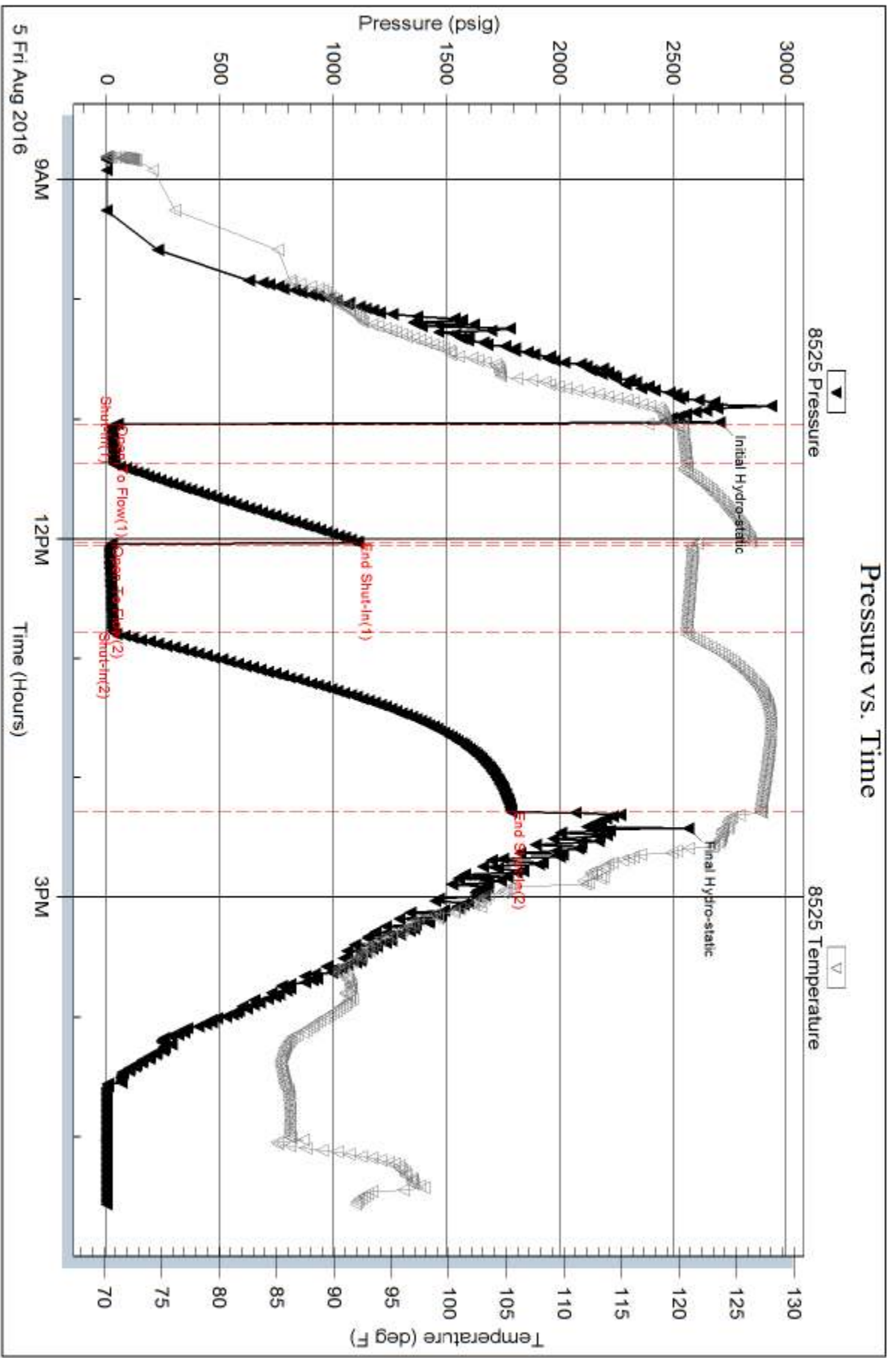
Serial #: 8525

Inside

Becker Oil Corporation

Harrington 1

DST Test Number: 4

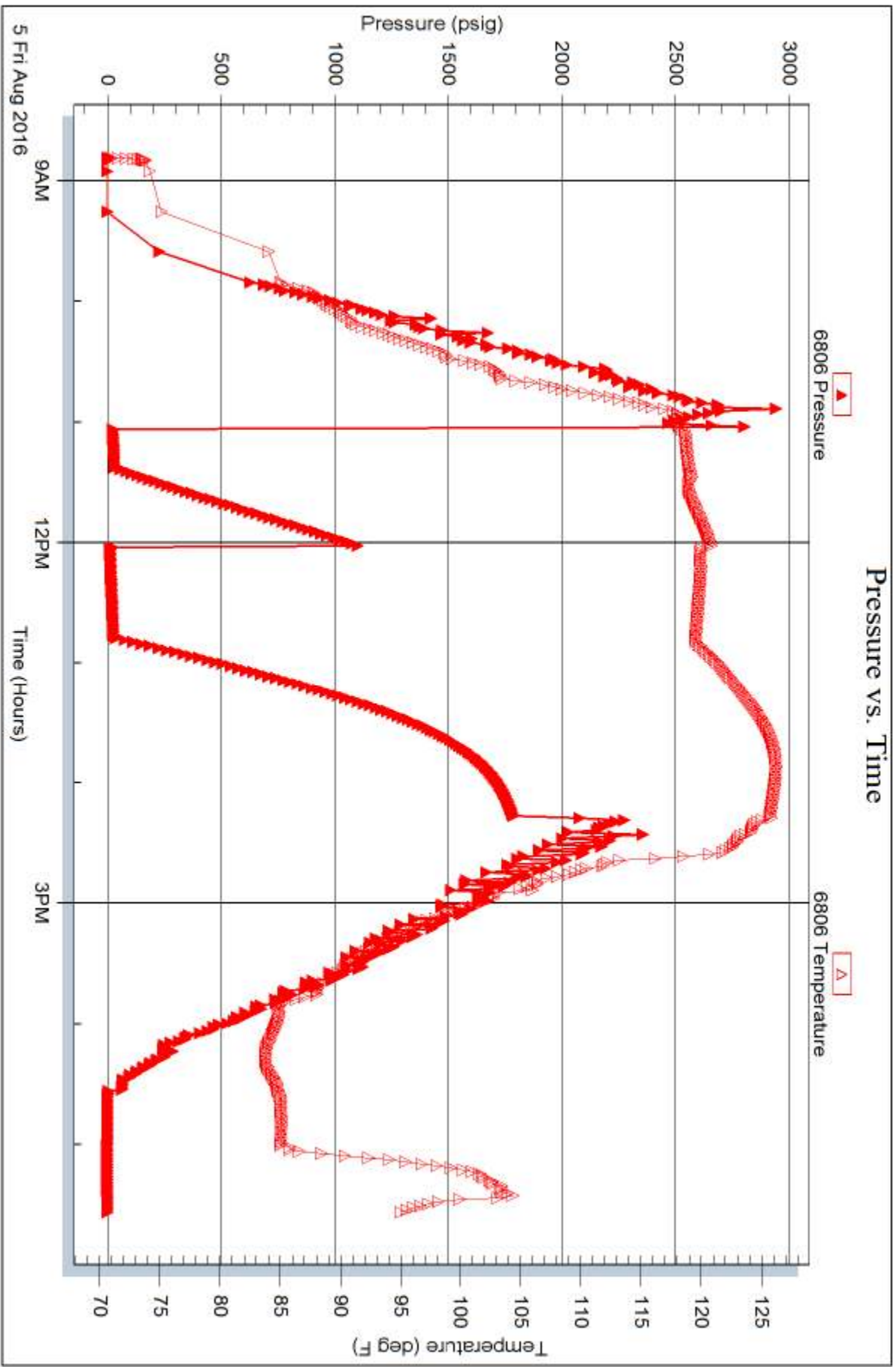


Serial #: 6806

Outside Becker Oil Corporation

Harrington 1

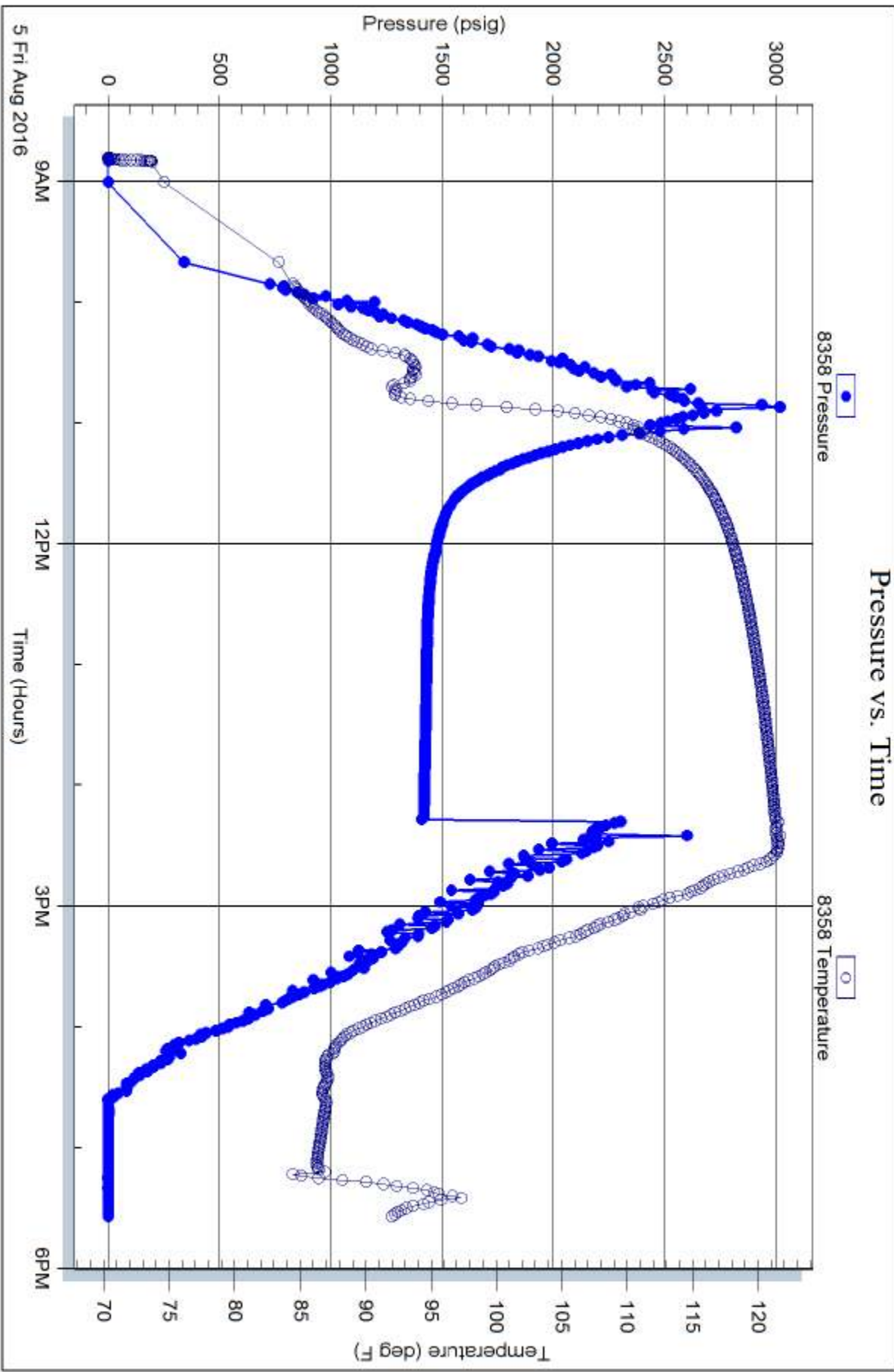
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55405

Printed: 2016.08.05 @ 21:16:40





REMIT TO PO: Box 205803
Dallas, Texas 75320-5803

Field Ticket Number: LIB1607290112 Field Ticket Date: Friday, July 29, 2016

Bill To:
Becker Oil Corporation
P. O. Box 1150
Ponca City Oklahoma 74602

Job Name: 01 Surface
Well Location: Clark, Kansas
Well Name: Harrington
Well Number: 1
Well Type: New Well
Rig Number:
Shipping Point: Liberal, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
ALDO ESPINOZA		984-	
ALEX AYALA		903-541	
JOSE CALDERON		955-554	

SERVICES - SERVICES - SERVICES

Description	Qty	Unit	Rate	Subtotal	Discount	Net	Tax	Total
PUMP, CASING CEMENT 501-1000 FT	1.00	min. 4 hr	2,058.50	2,058.50	926.33	55.0%		926.33
CMLP	1.00	per day	275.00	275.00	123.75	55.0%		123.75
PHDL	410.00	per cu. FL	2.48	1,016.80	1.12	55.0%		457.56
DRYG	868.00	ton-mile	2.75	2,387.00	1.24	55.0%		1,074.15
MILV	50.00	per mile	4.40	220.00	1.98	55.0%		99.00
MILV	50.00	per mile	7.70	385.00	3.47	55.0%		173.25

FLOAT EQUIPMENT - FLOAT EQUIPMENT - FLOAT EQUIPMENT

AFV-8.625	1.00	each	447.00	447.00	268.20	40.0%		268.20
CEN-8.625	3.00	each	75.00	225.00	45.00	40.0%		135.00
TRP - 8.625	1.00	each	131.00	131.00	78.60	40.0%		78.60

MATERIALS - MATERIALS - MATERIALS

CB-ALWA	235.00	sack	19.88	4,671.80	8.95	55.0%		2,102.31
CA-100	614.00	pound	1.10	675.40	0.50	55.0%		303.93
CLC-CPF	58.00	pound	2.97	175.23	1.34	55.0%		78.85
CCAC	125.00	sack	17.90	2,237.50	8.06	55.0%		1,006.88
CA-100	353.00	pound	1.10	388.30	0.50	55.0%		174.74
CLC-CPF	32.00	pound	2.97	95.04	1.34	55.0%		42.77
CGEL	235.00	pound	1.05	246.75	0.47	55.0%		111.04

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours		per hour	440.00	0.00	198.00	55.0%		0.00
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	Gross	Discount	Final
Services Total	6,342.30	3,488.27	2,854.04
Equipment Total	4,263.00	505.20	757.80
Materials Total	8,490.02	4,669.51	3,820.51
Additional Items	0.00	0.00	0.00
Final Total	18,095.32	8,662.98	7,432.34

Allied Rep: ALDO ESPINOZA
Customer Agent:

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

Customer Signature

Field Ticket Total (USD):

7156.35
\$7,432.34



REMIT TO: P.O. Box 205803
Dallas, Texas 75320-5803

Cementing Services
Field Ticket

Printed on 8/7/2016 at 3:55 PM

Field Ticket Number: LIB1608071440

Field Ticket Date:

Sunday, August 07, 2016

Bill To:
Becker Oil Corporation
P O Box 1150
Ponca City Oklahoma 74602

Job Name: 02 Production/Long String
Well Location: Clark, Kansas
Well Name: Harrington
Well Number: 1
Well Type: New Well
Rlg Number:
Shipping Point: Liberal, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
ALDO ESPINOZA		984-	
GERARDO BURCIAGA		903-541	
RAMON ESCARCEGA		870-744	

SERVICES - SERVICES - SERVICES								
Description	QTY	UCR	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount	
PUMP, CASING CEMENT 5001-6000 FT	1.00	min. 4 hr	3,099.25	3099.25	1,301.69	58.0%	1,301.69	
CMLP	1.00	per day	275.00	275.00	115.50	58.0%	115.50	
PHDL	316.00	per cu. Ft.	2.48	783.68	1.04	58.0%	329.15	
DRYG	674.00	ton-mile	2.75	1853.50	1.16	58.0%	778.47	
MILV	50.00	per mile	4.40	220.00	1.85	58.0%	92.40	
MIHV	50.00	per mile	7.70	385.00	3.23	58.0%	161.70	

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT								
AFFS-4.5	1.00	each	425.00	425.00	255.00	40.0%	255.00	
LBP-4.5	1.00	each	655.00	655.00	393.00	40.0%	393.00	
CEN-4.5	6.00	each	57.00	342.00	34.20	40.0%	205.20	
TUB - 4.5	6.00	each	90.00	540.00	54.00	40.0%	324.00	
CSC - 4.5	2.00	each	49.00	98.00	29.40	40.0%	58.80	

MATERIALS - MATERIALS - MATERIALS								
CW-HVS	12.00	bbf	58.70	704.40	24.65	58.0%	295.85	
CB-APA-40604	50.00	sack	18.92	946.00	7.95	58.0%	397.32	
CB-ASA	200.00	sack	23.50	4,700.00	9.87	58.0%	1,974.00	
CLC-KOL	1000.00	pound	0.98	980.00	0.41	58.0%	411.60	
GFL-210	57.00	pound	18.90	1,077.30	7.94	58.0%	452.47	

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS								
Additional hours, in excess of set hours	8.00	per hour	440.00	3,520.00	184.80	58.0%	1,478.40	

	Gross	Discount	Final
Services Total	6,616.43	3,837.53	2,778.90
Equipment Total	2,060.00	824.00	1,236.00
Materials Total	8,407.70	4,876.47	3,531.23
Additional Items	3,520.00	2,041.60	1,478.40
Final Total	20,604.13	11,579.60	9,024.53

Allied Rep: ALDO ESPINOZA
Customer Agent: _____

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X _____
Customer Signature

Field Ticket Total (USD):

\$9,024.53



Cement Job Summary

Job Number: LIB1608071440		Job Purpose: 02 Production/Long String	
Customer: Becker Oil Corporation	Date: 8/7/2016		
Well Name: Harrington	Number: 1	API/UWI:	
County: Clark	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone:	
Legal Desc:		Rig Name:	
Distance: 50 miles (one way)	Supervisor: Aldo Espinosa		

Employees:	Employees:
ALDO ESPINOZA	
GERARDO BURCIAGA	
RAMON ESCARCEGA	
Equipment:	
984-	
903-541	
870-744	

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	15%	4000	5,191	TAIL CEMENT	
OPEN HOLE	7 7/8			4,000	LEAD CEMENT	
OPEN HOLE	7 7/8					
OPEN HOLE	7 7/8					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING	8 5/8	24	8.097	J-55	0	725
TOTAL CASING	4 1/2	10.5	4.052	J-55	0	5,191
SHOE	4 1/2	10.5	4.052	J-55	5,171	5,191

Materials - Pumping Schedule					
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	HIVIS SWEEP	12	8.40	n/a	n/a
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 1	ALLIED 40/60/4 POZ BLEND - CLASS A	50	13.84	1.41	6.80
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	200	14.50	1.58	7.10
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CLC-KOL	KOL-SEAL	5	lb/sk	1000.0	lbm
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.282	% BWOC	56.4	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Disp. 1	Displacement	82.2	8.33	n/a	n/a

Job Number: LIB1608071440		Job Purpose: 02 Production/Long String	
Customer: Becker Oil Corporation	Date: 8/7/2016		
Well Name: Harrington	Number: 1	API/UWI:	
County: Clark	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone: 0	
Distance: 50 miles (one way)	Supervisor: Aldo Espinosa		
TIME	PRESSURE - (PSI)	FLUID PUMPED DATA	COMMENTS

Cement Job Summary

AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)	COMMENTS
8/7/2016					DATE
400am					arrive to location
430am					rig up
730am					get drill pipe out of hole
900am					start settin casing, and F.E.
1210pm					casing on bottom
1220pm					rig up head, brake circulation
130pm	3500			1	pressure test
132pm	300		12	4	12 bbl havis sweep
140pm	200-40		56.3	4	56.3 bbl slurry
210pm				3	wash pumping lines, drop plug
215pm	30			3	start displacement
223pm	40		20	5	20 bbl gone
227pm	40		20	5	40 bbl gone
230pm	200		8	5	48 bbl catch cement
232pm	400		20	5	60 bbl gone
235pm	530		10	2.5	70 bbl gone, slow down to 2.5 bpm
240pm	750-1350		12	2.5	82 bbl, bump plug
245pm	1350				check floats
250pm					rig crew rig down mouse hole
330pm	40		12.6	3	cement rat n mouse holes
350pm					rig down
430pm					leave location
					good circulation during entire job