

1081431

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	Grace 1-15
Doc ID	1081431

All Electric Logs Run

Sonic Cement Bond Log
Microresistivity Log
Dual Compensated Porosity Log
Borehole Compensated Sonic Log
Dual Induction Log

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 30, 2012

Jack Renfro
Credo Petroleum Corporation
1801 BROADWAY # 900
DENVER, CO 80202-3858

Re: ACO1
API 15-101-22361-00-00
Grace 1-15
NW/4 Sec.15-17S-29W
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jack Renfro

ALLIED CEMENTING CO., LLC.

042456

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

MAY - 3 2012

Great Bend, KS

DATE <i>3-27-12</i>	SEC. <i>15</i>	TWP. <i>17S</i>	RANGE <i>22W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Grace</i>	WELL # <i>1-15</i>	LOCATION <i>Dybbert's on 23N. sec. 14, Twp. 17S, R. 22W</i>		COUNTY <i>Lane</i>	STATE <i>Kansas</i>		
OLD OR NEW (Circle one)							

CONTRACTOR *W.W. Dyer* OWNER _____

TYPE OF JOB *Surface* CEMENT

HOLE SIZE *12 1/4* T.D. _____

CASING SIZE *6 5/8* DEPTH *244* AMOUNT ORDERED *250 lbs Class A 32.4*

TUBING SIZE _____ DEPTH _____

DRILL PIPE *4 1/2* DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. *15 lb*

PERFS. _____

DISPLACEMENT *14.5 bbls cement*

EQUIPMENT

PUMP TRUCK CEMENTER *Dustin K*

394 HELPER *Tyler / Karl F*

BULK TRUCK DRIVER *Kevin W / 1000*

_____ DRIVER _____

REMARKS:

*Pipe in bottom broke, water on in 4 1/2 hrs. Had
mix 250 lbs class A 32.4 cement
Dybbert's with 14.5 bbls cement and
4 bbls water
Cement did not cure*

CHARGE TO: *Credo Petroleum Corp.*

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., 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 *Kevin W*

SIGNATURE *Kevin W*

Thank You!

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ @ _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 034616

Federal Tax I.D.# 20-5975804

EMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT

4-612 Oakley Rd
1.000am 2011am

DATE 4-5-12	SEC. 15	TWP. 17	RANGE 29	CALLED OUT	ON LOCATION 7:00pm	JOB START 1:00am	JOB FINISH 5:00am
WELL# Grace	1-15	LOCATION Healy SE, 2 1/2 S, E 1/4	LANE Lane	COUNTY Lane	STATE KS		

CONTRACTOR WJW #10
 TYPE OF JOB Production 2 stage
 HOLE SIZE 7 7/8 T.D. 4660
 CASING SIZE 5.72 DEPTH 4662.88
 TUBING SIZE DEPTH
 RILL PIPE DEPTH
 TOOL JOINT DJ DEPTH 2366.71
 RES. MAX MINIMUM
 LEAS. LINE SHOE JOINT 20.48
 CEMENT LEFT IN CSG. 20.48
 PERFS.
 DISPLACEMENT 119.27661
 EQUIPMENT
 PUMP TRUCK CEMENTER Lakene/Dustin
431 HELPER Dane (CB)
 ULK TRUCK DRIVER Ethan
379/308
 ULK TRUCK DRIVER Chris
374/287

OWNER same
 CEMENT
 AMOUNT ORDERED 1857 kg ASC 10% salt 729
3# gilsonite / 500 gal water 2 / 1857 kg
like 5# gilsonite 1/4 # floater
 COMMON @
 POZMIX @
 GEL 3.5kg @ 26.85 63.23
 CHLORIDE @
 ASC 1857kg @ 27.00 50150.00
like type # 4853kg @ 14.80 70825.60
WFR-2 - 500gal @ 1.27 635.00
salt 175kg @ 23.95 4021.5
gilsonite 181# @ 2.70 488.70
gilsonite 26.00# @ .89 2304.00
 HANDLING 866.5kg @ 2.25 1949.50
 MILEAGE 1180kg mile @ 7.70 9186.00
 TOTAL 25846.96

REMARKS:

MIN WFR-2 MIN 50% like MIN 185% like
ASC, Displace with water 1 maid
open hand plug 2000# float hold,
open DJ Tool Circulate, mix 15% in
mousehole min 305# refly, mix
440 gfs cement, Displace with water
hand plug at 1700# float hold,
cement 2nd circulate
 Thank you

SERVICE

DEPTH OF JOB 4662.88
 PUMP TRUCK CHARGE 2403.00
 EXTRA FOOTAGE @
 MILEAGE 86 @ 7.00 602.00
 MANIFOLD head @ 200.00
6.0 floater 86 @ 4.00 344.00

CHARGE TO: Credo Petroleum
 FREET
 CITY STATE ZIP

TOTAL 3531.00

PLUG & FLOAT EQUIPMENT

(2) 1-DJ Tool 3200.00
 (2) 1-B Flt float shoe @ 342.00
 1-Latch down plug @ 272.00
 3-Baskets @ 332.00 1011.00
 7-Centralizers @ 42.00 294.00

TOTAL 5241.00

Allied Cementing Co., 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.

34,738.96
 SALES TAX (if Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Don Guy
 SIGNATURE Don Guy



DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.03.31 @ 11:15:18

End Date: 2012.03.31 @ 18:45:48

Job Ticket #: 44973 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:57:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp
 1801 Broadway
 Denver, CO 80202
 ATTN: Don Guy / Bruce Ard

15-17s-29w Lane, KS
Grace #1-15
 Job Ticket: 44973 **DST#: 1**
 Test Start: 2012.03.31 @ 11:15:18

GENERAL INFORMATION:

Formation: **C-F**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 13:10:33
 Time Test Ended: 18:45:48
 Interval: **3980.00 ft (KB) To 4066.00 ft (KB) (TVD)**
 Total Depth: 4066.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

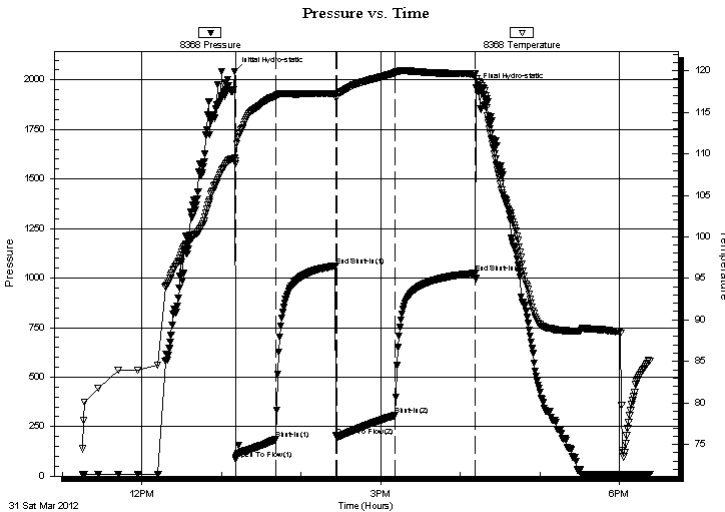
Serial #: 8368

Inside

Press @ Run Depth: 307.96 psig @ 3981.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.31 End Date: 2012.03.31 Last Calib.: 2012.03.31
 Start Time: 11:15:18 End Time: 18:22:48 Time On Btm: 2012.03.31 @ 13:10:03
 Time Off Btm: 2012.03.31 @ 16:12:18

TEST COMMENT: B.O.B. in 14 min.
 No return
 B.O.B. in 22 min.
 Return in 40 min. (surface blow)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.74	109.47	Initial Hydro-static
1	83.08	108.79	Open To Flow (1)
31	186.22	116.96	Shut-In(1)
76	1061.51	117.22	End Shut-In(1)
77	200.17	116.75	Open To Flow (2)
121	307.96	119.77	Shut-In(2)
182	1024.03	119.61	End Shut-In(2)
183	1961.84	119.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	s g o & m c w 5g 5o 15m 75w	3.10
180.00	g o & w c m 15g 25w 30o 30m	2.52
135.00	g o & w c m 15g 15w 30o 40m	1.89
0.00	60' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44973

DST#: 1

ATTN: Don Guy / Bruce Ard

Test Start: 2012.03.31 @ 11:15:18

Tool Information

Drill Pipe:	Length: 3856.00 ft	Diameter: 3.80 inches	Volume: 54.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3980.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Jars	5.00			3969.00	
Safety Joint	2.00			3971.00	
Packer	5.00			3976.00	27.00 Bottom Of Top Packer
Packer	4.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	6771	Outside	3981.00	
Recorder	0.00	8368	Inside	3981.00	
Perforations	14.00			3995.00	
Change Over Sub	1.00			3996.00	
Drill Pipe	64.00			4060.00	
Change Over Sub	1.00			4061.00	
Bullnose	5.00			4066.00	86.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44973

DST#: 1

ATTN: Don Guy / Bruce Ard

Test Start: 2012.03.31 @ 11:15:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

56000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.90 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
300.00	s g o & m c w 5g 5o 15m 75w	3.097
180.00	g o & w c m 15g 25w 30o 30m	2.525
135.00	g o & w c m 15g 15w 30o 40m	1.894
0.00	60' gas in pipe	0.000

Total Length: 615.00 ft

Total Volume: 7.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .115 @ 83*f =56,000 chlor

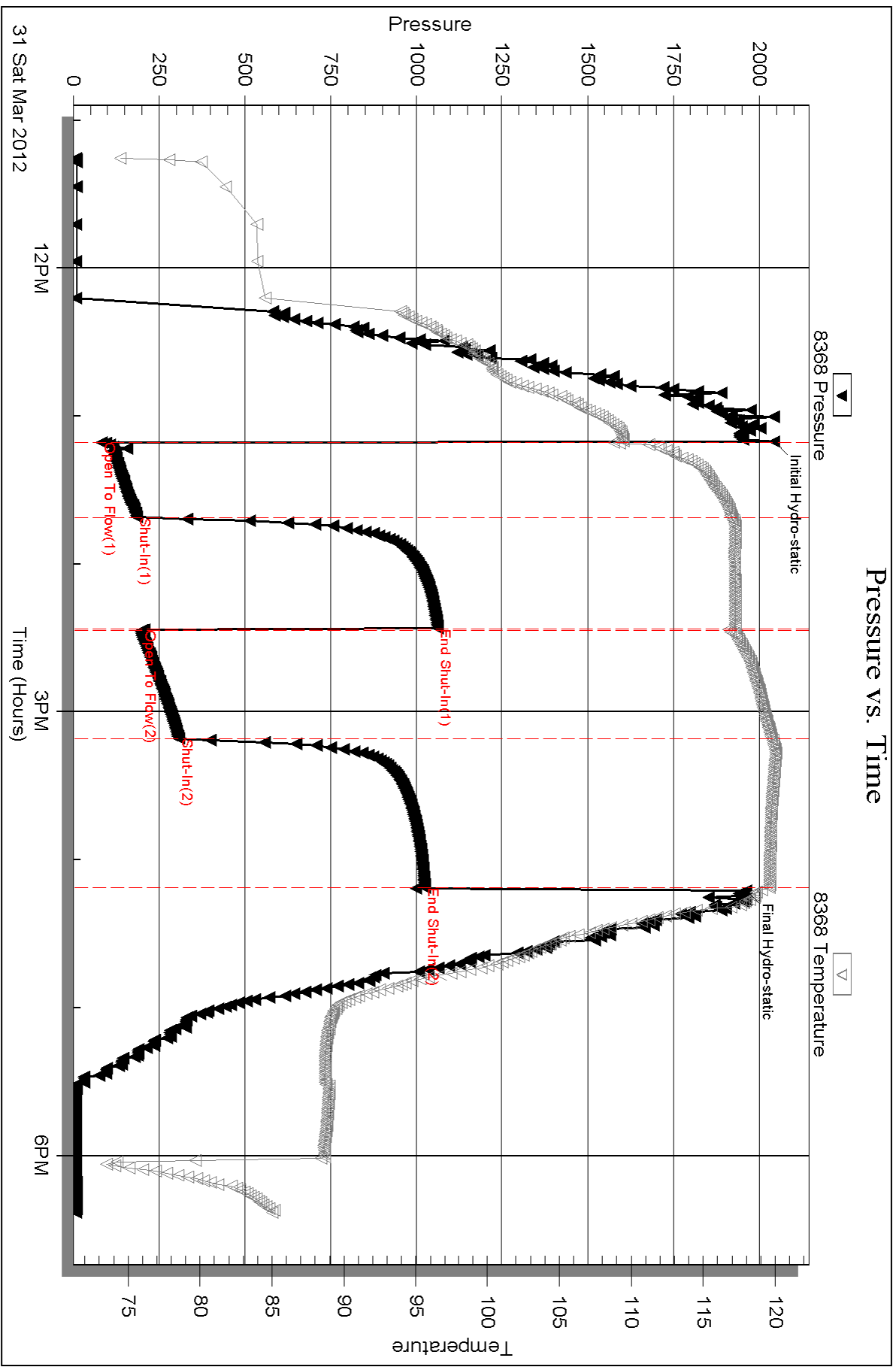
Serial #: 8368

Inside

Crede Petroleum Corp

Grace #1-15

DST Test Number: 1

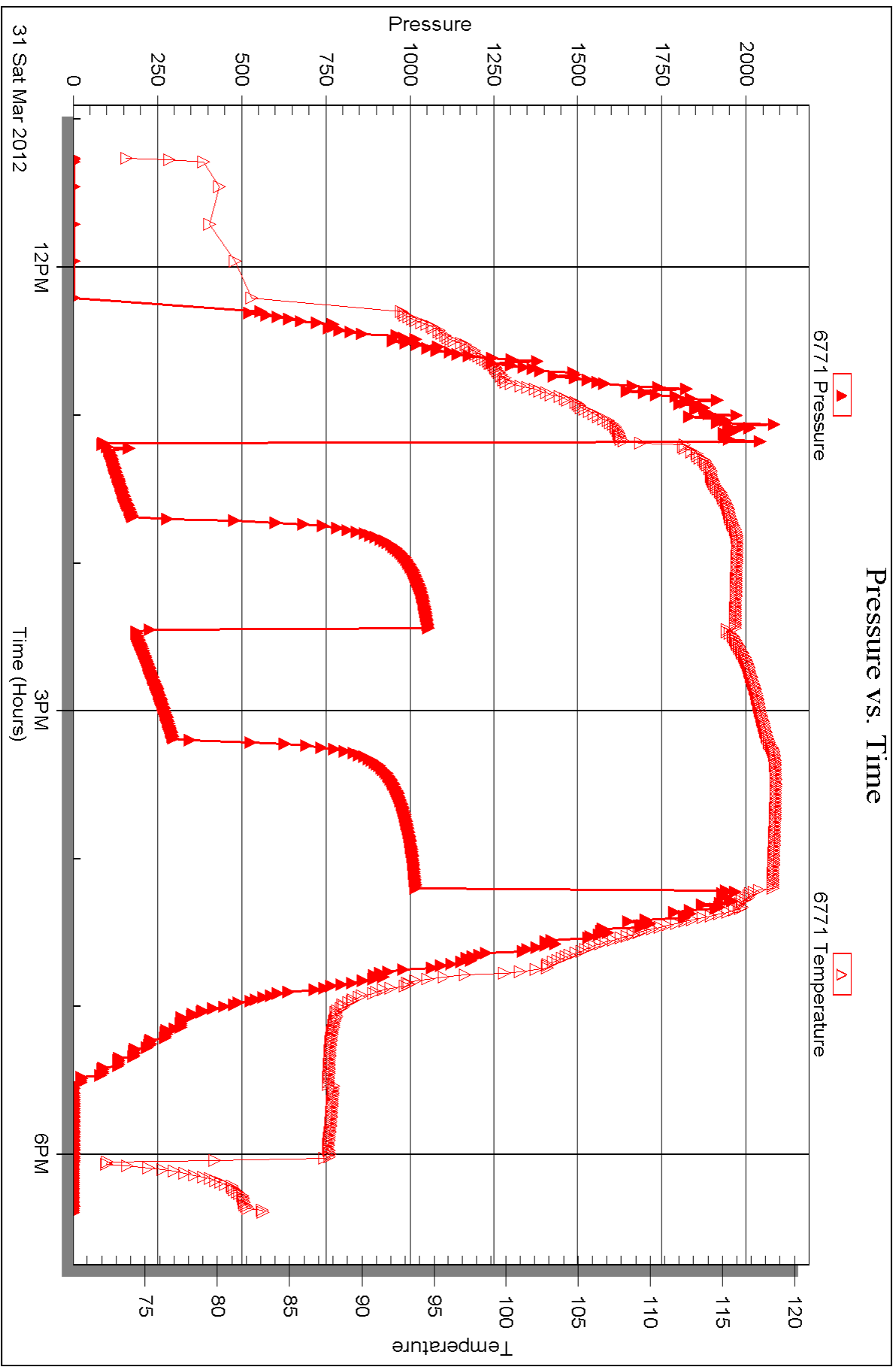


Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.04.01 @ 07:40:22

End Date: 2012.04.01 @ 14:40:22

Job Ticket #: 44974 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:56:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44974

DST#: 2

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.01 @ 07:40:22

GENERAL INFORMATION:

Formation: **H-J**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 09:32:52
 Time Test Ended: 14:40:22
 Interval: **4112.00 ft (KB) To 4212.00 ft (KB) (TVD)**
 Total Depth: 4212.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

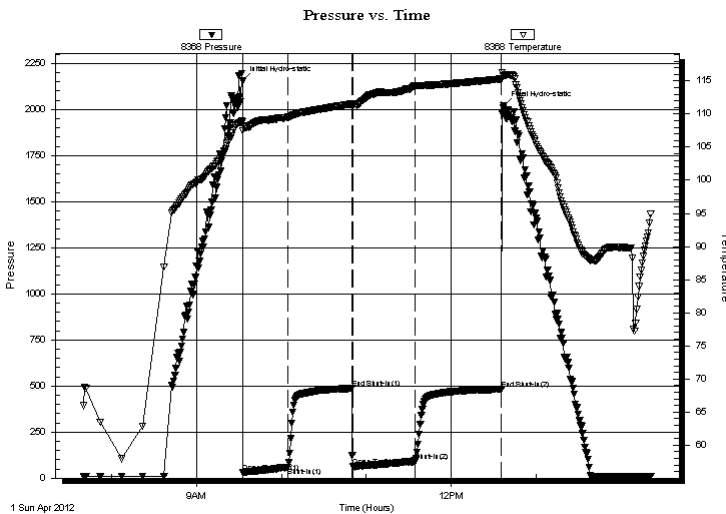
Serial #: 8368

Inside

Press @ Run Depth: 89.53 psig @ 4113.00 ft (KB)
 Start Date: 2012.04.01 End Date: 2012.04.01
 Start Time: 07:40:22 End Time: 14:21:22
 Capacity: 8000.00 psig
 Last Calib.: 2012.04.01
 Time On Btm: 2012.04.01 @ 09:32:37
 Time Off Btm: 2012.04.01 @ 12:37:07

TEST COMMENT: 2" blow
 No return
 1/4" + blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.73	108.87	Initial Hydro-static
1	32.75	107.47	Open To Flow (1)
32	57.75	109.47	Shut-In(1)
78	486.73	111.54	End Shut-In(1)
78	62.87	111.42	Open To Flow (2)
122	89.53	114.25	Shut-In(2)
183	482.04	115.29	End Shut-In(2)
185	2021.03	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	o c m 7o 93m	0.60

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44974

DST#: 2

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.01 @ 07:40:22

Tool Information

Drill Pipe:	Length: 3982.00 ft	Diameter: 3.80 inches	Volume: 55.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4112.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4086.00	
Shut In Tool	5.00			4091.00	
Hydraulic tool	5.00			4096.00	
Jars	5.00			4101.00	
Safety Joint	2.00			4103.00	
Packer	5.00			4108.00	27.00 Bottom Of Top Packer
Packer	4.00			4112.00	
Stubb	1.00			4113.00	
Recorder	0.00	6771	Outside	4113.00	
Recorder	0.00	8368	Inside	4113.00	
Perforations	28.00			4141.00	
Change Over Sub	1.00			4142.00	
Drill Pipe	64.00			4206.00	
Change Over Sub	1.00			4207.00	
Bullnose	5.00			4212.00	100.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44974

DST#: 2

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.01 @ 07:40:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
122.00	o c m 7o 93m	0.600

Total Length: 122.00 ft Total Volume: 0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

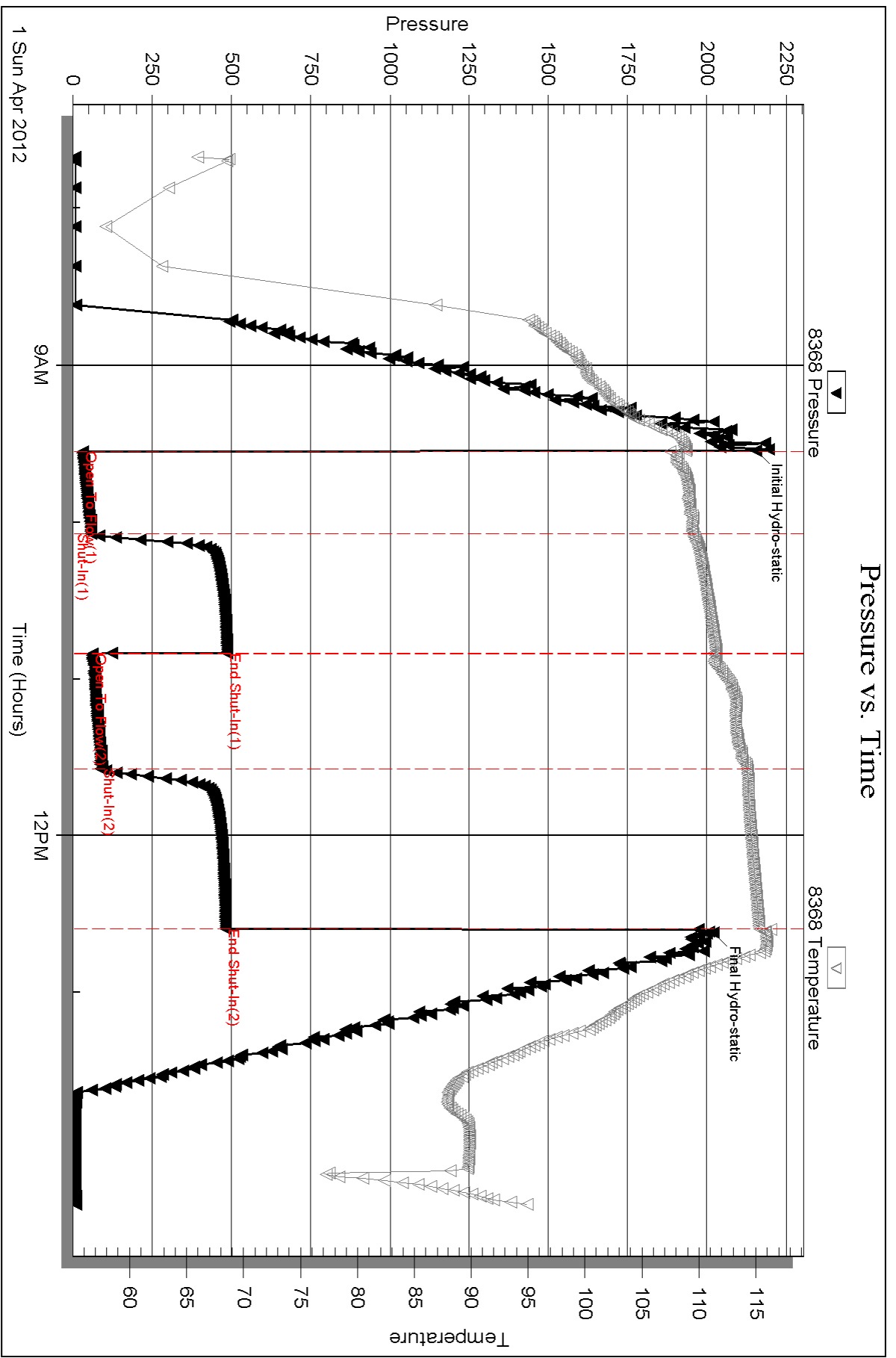
Serial #: 8368

Inside

Crede Petroleum Corp

Grace #1-15

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 44974

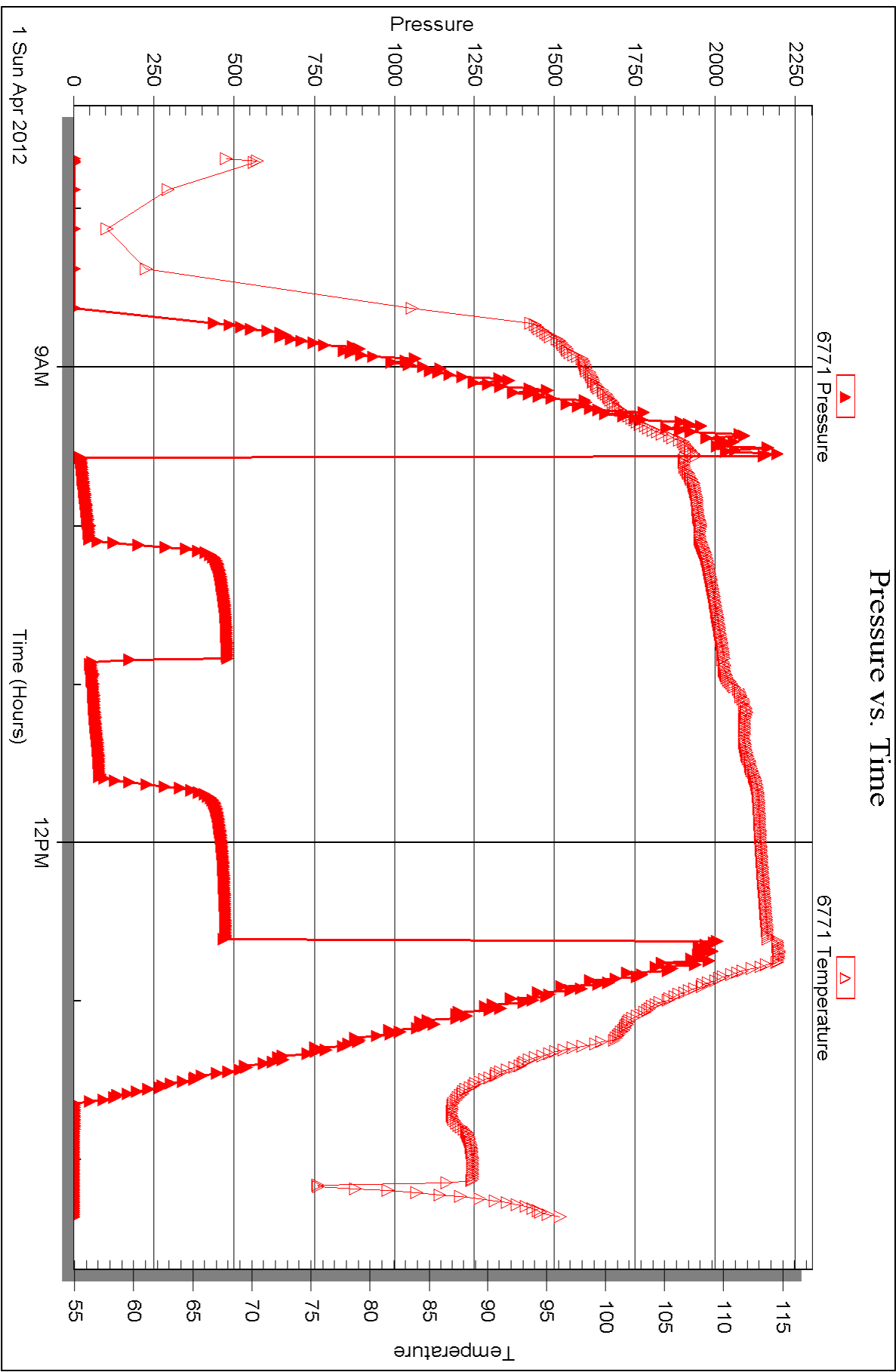
Printed: 2012.04.10 @ 16:56:37

Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.04.02 @ 01:45:48

End Date: 2012.04.02 @ 08:02:48

Job Ticket #: 44975 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:55:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44975

DST#: 3

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 01:45:48

GENERAL INFORMATION:

Formation: **L-Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 03:19:48

Time Test Ended: 08:02:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4218.00 ft (KB) To 4338.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4338.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press @ Run Depth: psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 01:45:48

End Time:

08:02:48

Time On Btm:

2012.04.02 @ 03:19:33

Time Off Btm:

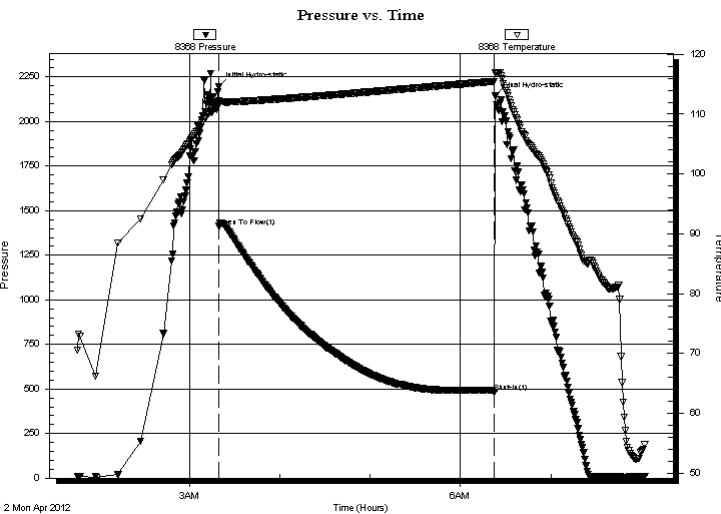
2012.04.02 @ 06:23:18

TEST COMMENT: Weak blow died in 18 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.91	112.24	Initial Hydro-static
1	1411.66	111.84	Open To Flow (1)
183	482.16	115.49	Shut-In(1)
184	2141.92	116.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100m	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44975

DST#: 3

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 01:45:48

GENERAL INFORMATION:

Formation: **L-Marmaton**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 03:19:48
 Time Test Ended: 08:02:48
 Interval: **4218.00 ft (KB) To 4338.00 ft (KB) (TVD)**
 Total Depth: 4338.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

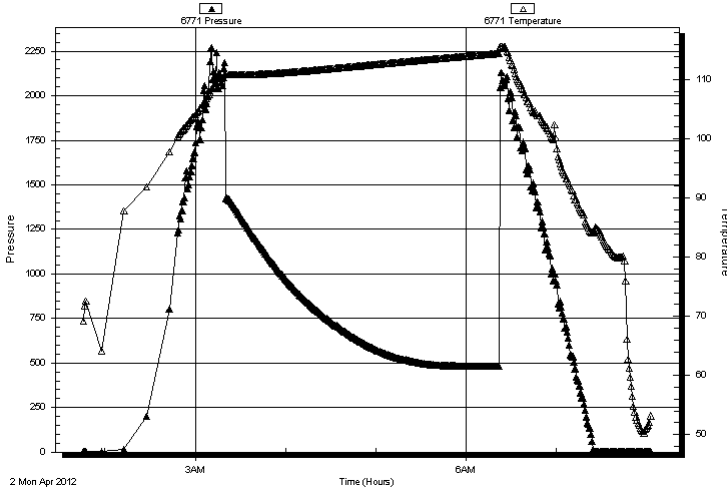
Serial #: 6771

Outside

Press @ Run Depth: psig @ 4219.00 ft (KB)
 Start Date: 2012.04.02 End Date: 2012.04.02
 Start Time: 01:45:52 End Time: 08:02:52
 Capacity: 8000.00 psig
 Last Calib.: 2012.04.02
 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak blow died in 18 min.
 No return
 No blow
 No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100m	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44975

DST#: 3

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 01:45:48

Tool Information

Drill Pipe:	Length: 4076.00 ft	Diameter: 3.80 inches	Volume: 57.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4218.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	147.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4192.00	
Shut In Tool	5.00			4197.00	
Hydraulic tool	5.00			4202.00	
Jars	5.00			4207.00	
Safety Joint	2.00			4209.00	
Packer	5.00			4214.00	27.00 Bottom Of Top Packer
Packer	4.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	6771	Outside	4219.00	
Recorder	0.00	8368	Inside	4219.00	
Perforations	16.00			4235.00	
Change Over Sub	1.00			4236.00	
Drill Pipe	96.00			4332.00	
Change Over Sub	1.00			4333.00	
Bullnose	5.00			4338.00	120.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 44975

DST#: 3

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 01:45:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.52 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool plugged off on initial flow

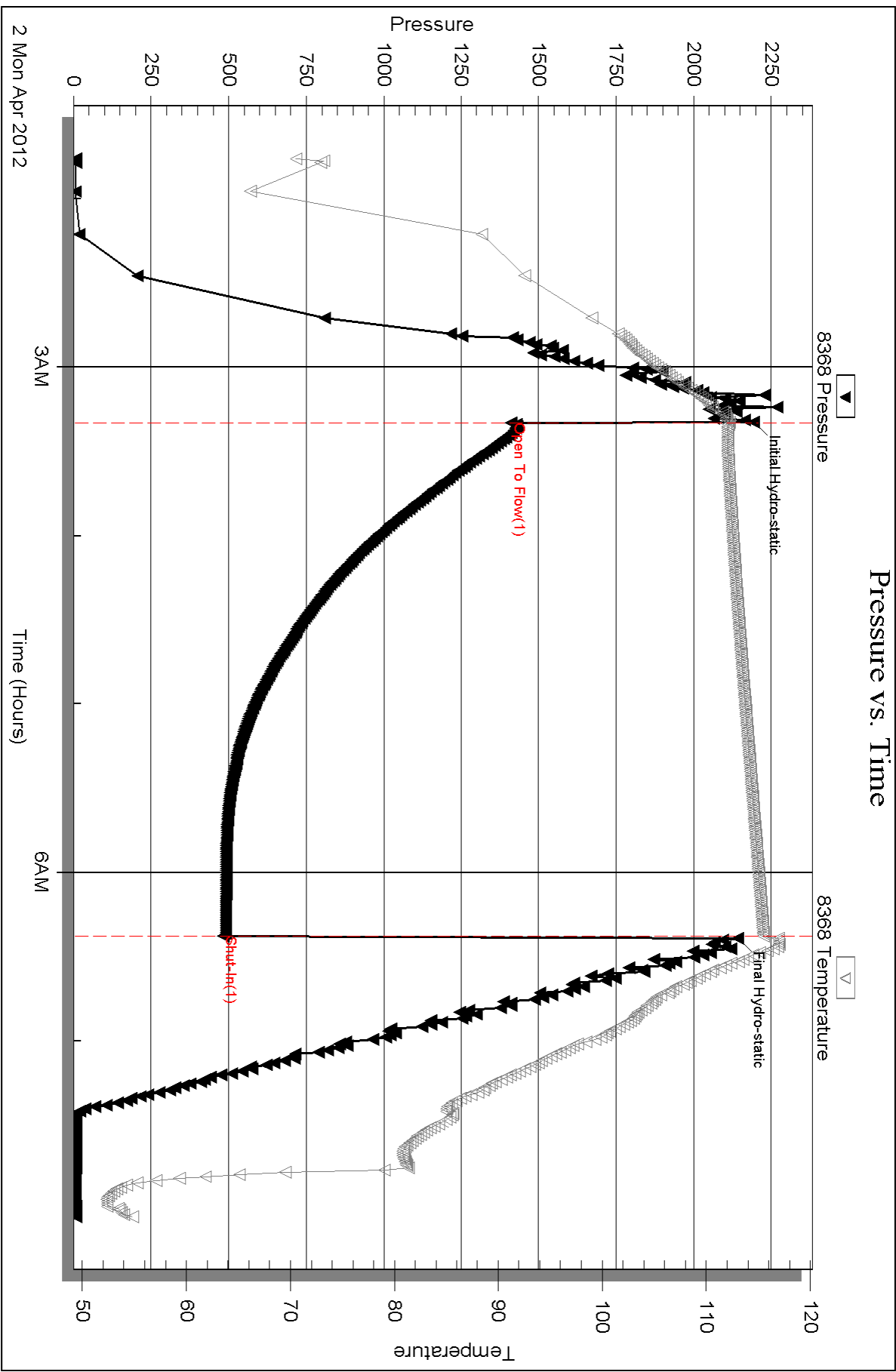
Serial #: 8368

Inside

Crede Petroleum Corp

Grace #1-15

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 44975

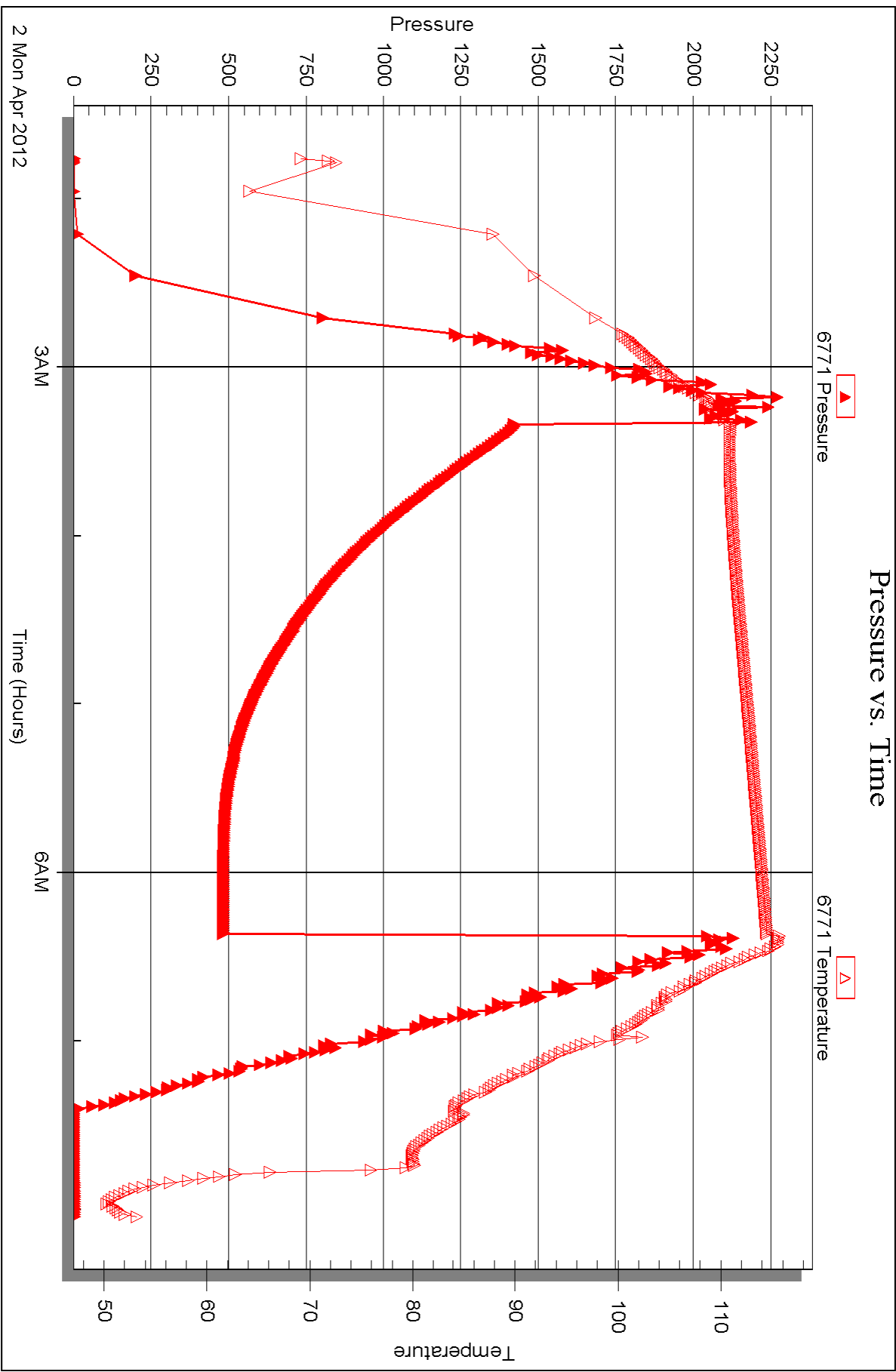
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Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.04.02 @ 14:10:16

End Date: 2012.04.02 @ 22:10:31

Job Ticket #: 45851 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:54:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp
1801 Broadway
Denver, CO 80202
ATTN: Don Guy / Bruce Ard

15-17s-29w Lane, KS
Grace #1-15
Job Ticket: 45851 **DST#: 4**
Test Start: 2012.04.02 @ 14:10:16

GENERAL INFORMATION:

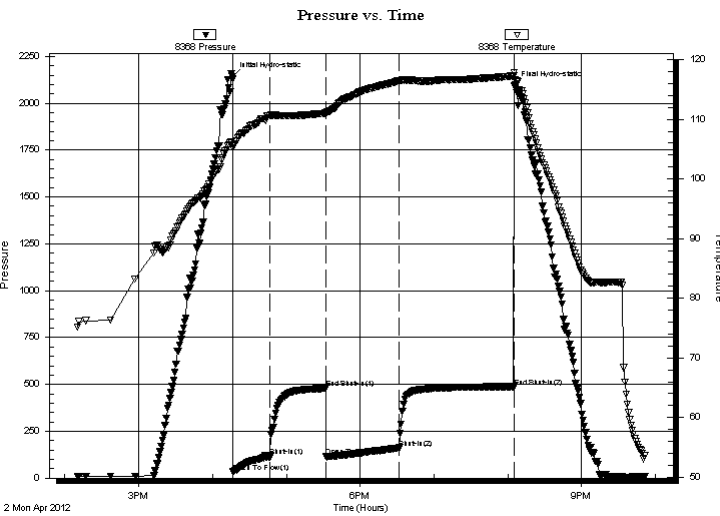
Formation: **L-Marmaton**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 16:16:31
Time Test Ended: 22:10:31
Interval: **4218.00 ft (KB) To 4338.00 ft (KB) (TVD)**
Total Depth: 4338.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55
Reference Elevations: 2806.00 ft (KB)
2801.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 161.16 psig @ 4219.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.02 End Date: 2012.04.02 Last Calib.: 2012.04.02
Start Time: 14:10:16 End Time: 21:51:31 Time On Btm: 2012.04.02 @ 16:16:01
Time Off Btm: 2012.04.02 @ 20:05:16

TEST COMMENT: 4 1/2" blow
No return
3 1/2" blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.36	105.77	Initial Hydro-static
1	32.95	105.13	Open To Flow (1)
31	114.44	110.58	Shut-In(1)
76	479.10	111.01	End Shut-In(1)
77	116.68	110.97	Open To Flow (2)
136	161.16	116.47	Shut-In(2)
229	487.83	117.25	End Shut-In(2)
230	2092.65	117.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	s w c m 23%w 77% m w /oil spots	2.89
1.00	free oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45851

DST#: 4

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 14:10:16

GENERAL INFORMATION:

Formation: **L-Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 16:16:31

Time Test Ended: 22:10:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4218.00 ft (KB) To 4338.00 ft (KB) (TVD)**

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4338.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press @ Run Depth: psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date: 2012.04.02

Last Calib.: 2012.04.02

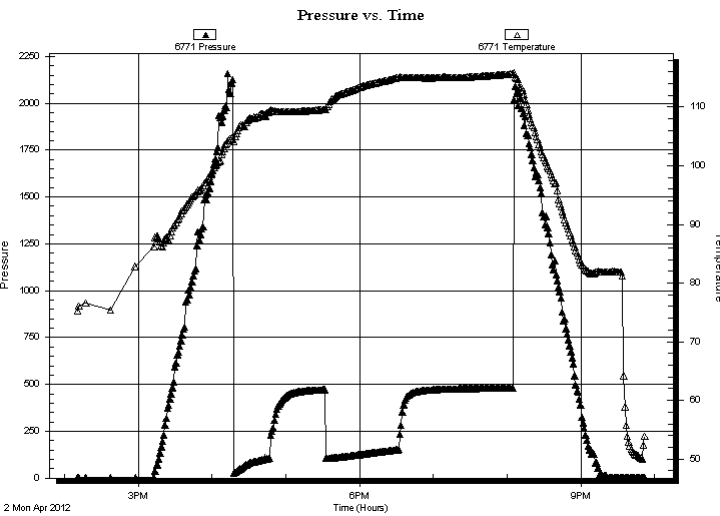
Start Time: 14:10:40

End Time: 21:51:55

Time On Btm:

Time Off Btm:

TEST COMMENT: 4 1/2" blow
No return
3 1/2" blow
No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
285.00	s w c m 23%w 77% m w /oil spots	2.89
1.00	free oil 100%o	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45851

DST#: 4

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 14:10:16

Tool Information

Drill Pipe:	Length: 4076.00 ft	Diameter: 3.80 inches	Volume: 57.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4218.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	147.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4192.00	
Shut In Tool	5.00			4197.00	
Hydraulic tool	5.00			4202.00	
Jars	5.00			4207.00	
Safety Joint	2.00			4209.00	
Packer	5.00			4214.00	27.00 Bottom Of Top Packer
Packer	4.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	6771	Outside	4219.00	
Recorder	0.00	8368	Inside	4219.00	
Perforations	16.00			4235.00	
Change Over Sub	1.00			4236.00	
Drill Pipe	96.00			4332.00	
Change Over Sub	1.00			4333.00	
Bullnose	5.00			4338.00	120.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45851

DST#: 4

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.02 @ 14:10:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	s w c m 23%w 77%m w /oil spots	2.886
1.00	free oil 100%o	0.014

Total Length: 286.00 ft Total Volume: 2.900 bbl

Num Fluid Samples: 0

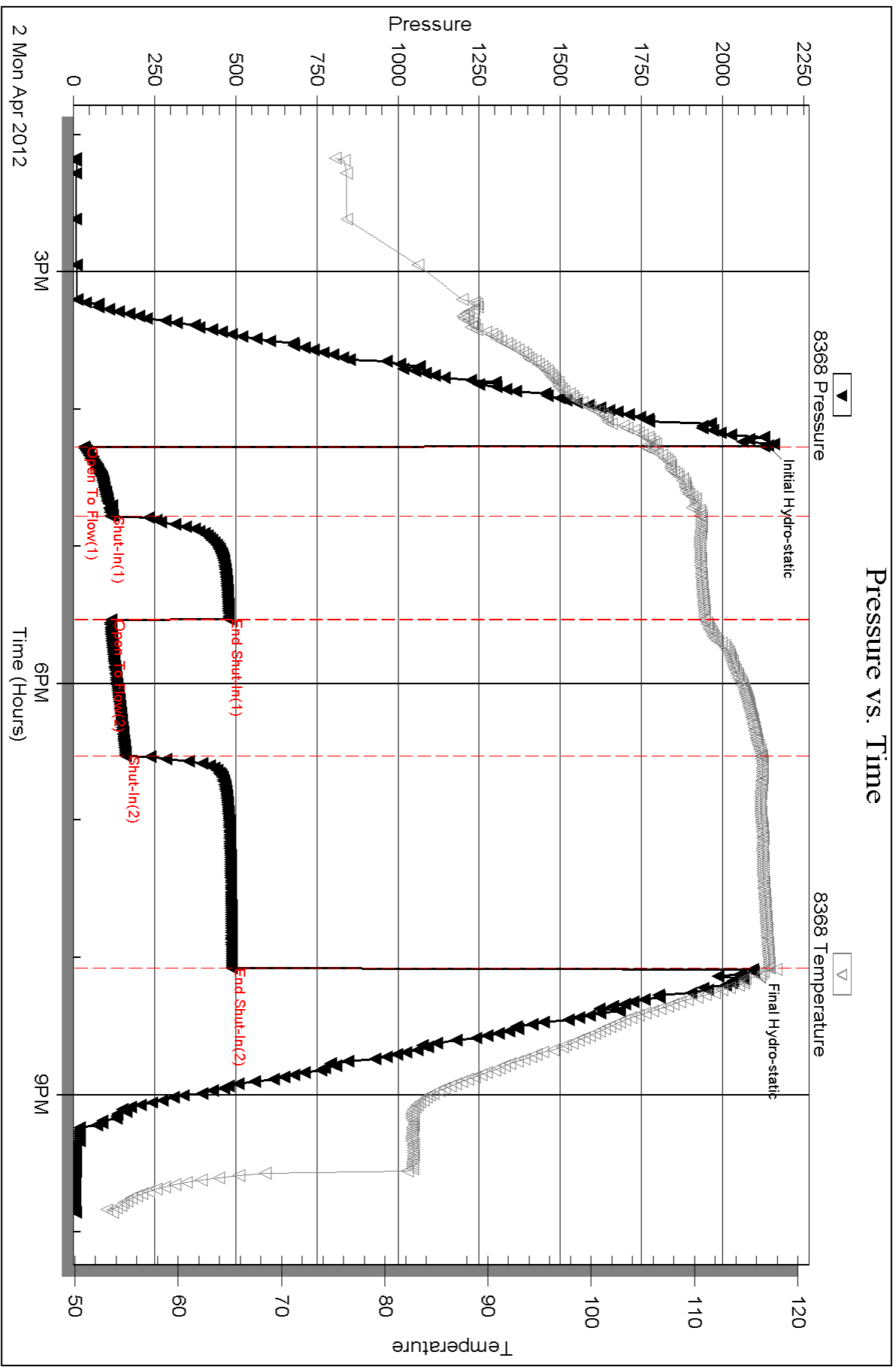
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .264 @ 50*f= 37,000 chlor

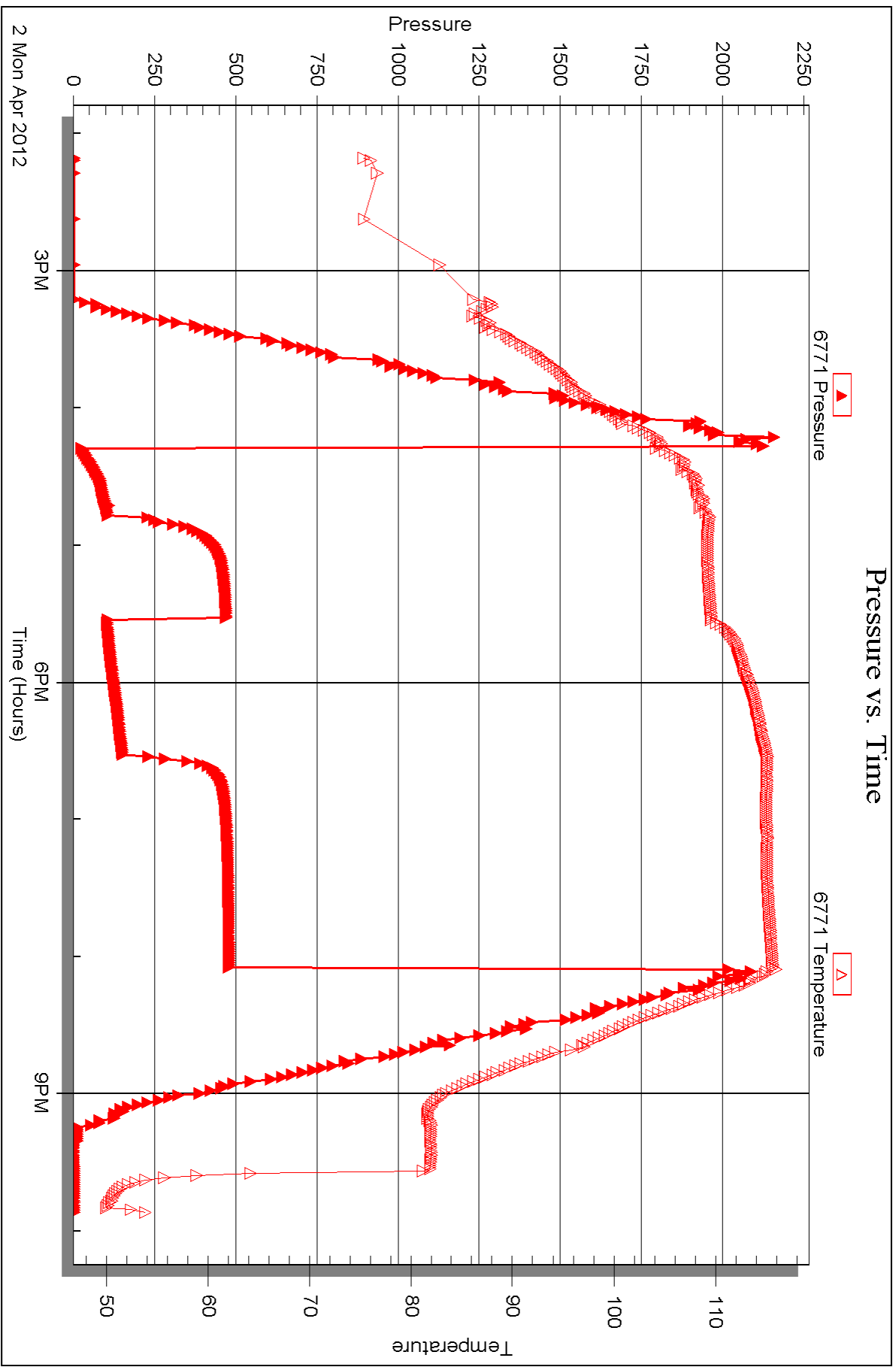


Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.04.03 @ 14:00:24

End Date: 2012.04.03 @ 21:05:24

Job Ticket #: 45852 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:53:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45852

DST#: 5

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.03 @ 14:00:24

GENERAL INFORMATION:

Formation: **Marm-Ft Scott**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:30:39

Time Test Ended: 21:05:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4336.00 ft (KB) To 4469.00 ft (KB) (TVD)**

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4469.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8368**

Inside

Press @ Run Depth: 189.12 psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.03

End Date:

2012.04.03

Last Calib.:

2012.04.03

Start Time: 14:00:24

End Time:

20:42:24

Time On Btm:

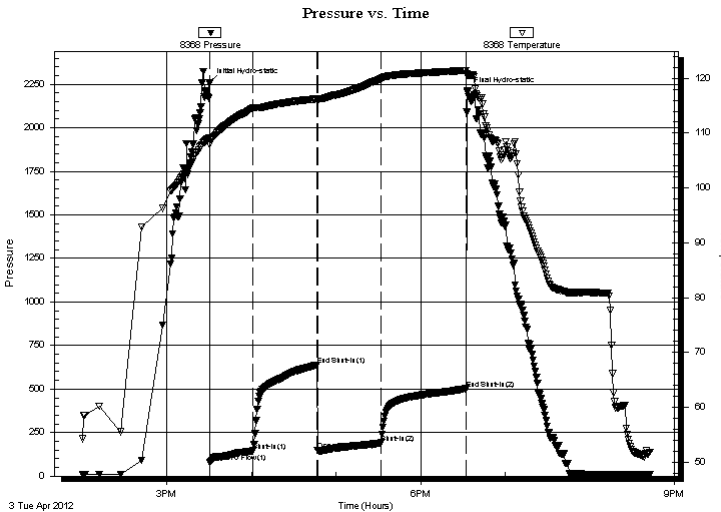
2012.04.03 @ 15:30:09

Time Off Btm:

2012.04.03 @ 18:32:54

TEST COMMENT: B.O.B. in 9 min
1" return blow died in 15 min.
B.O.B. in 8 min.
1" return blow died in 23 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.28	109.11	Initial Hydro-static
1	78.88	107.91	Open To Flow (1)
31	144.46	114.59	Shut-In(1)
76	639.33	116.24	End Shut-In(1)
77	148.72	116.14	Open To Flow (2)
122	189.12	119.89	Shut-In(2)
182	501.75	121.44	End Shut-In(2)
183	2207.81	120.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	g o c m 35g 30o 35m	0.44
120.00	c g o 35g 65o	1.39
180.00	g m c o 30g25m45o	2.52
0.00	1050' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45852

DST#: 5

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.03 @ 14:00:24

GENERAL INFORMATION:

Formation: **Marm-Ft Scott**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:30:39

Time Test Ended: 21:05:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4336.00 ft (KB) To 4469.00 ft (KB) (TVD)**

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4469.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6771** Outside

Press @ Run Depth: psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.03

End Date:

2012.04.03

Last Calib.:

2012.04.03

Start Time: 14:00:27

End Time:

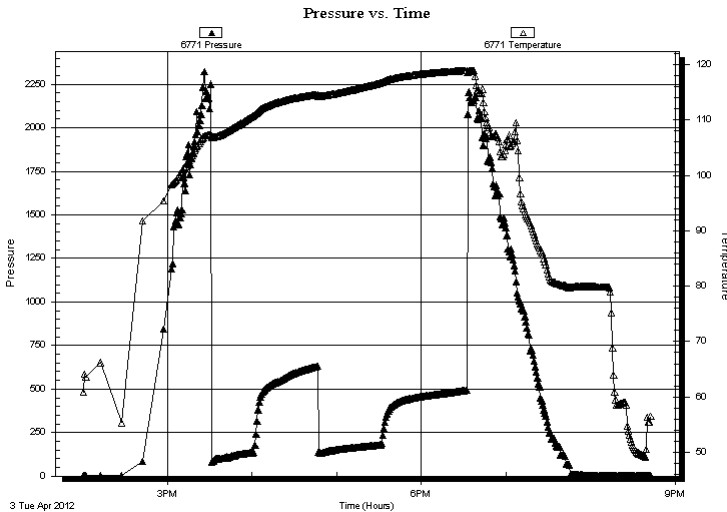
20:42:27

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 9 min
1" return blow died in 15 min.
B.O.B. in 8 min.
1" return blow died in 23 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	g o c m 35g 30o 35m	0.44
120.00	c g o 35g 65o	1.39
180.00	g m c o 30g25m45o	2.52
0.00	1050' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45852

DST#: 5

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.03 @ 14:00:24

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4336.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	133.00 ft			
Tool Length:	160.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4310.00	
Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Jars	5.00			4325.00	
Safety Joint	2.00			4327.00	
Packer	5.00			4332.00	27.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	6771	Outside	4337.00	
Recorder	0.00	8368	Inside	4337.00	
Perforations	29.00			4366.00	
Change Over Sub	1.00			4367.00	
Drill Pipe	96.00			4463.00	
Change Over Sub	1.00			4464.00	
Bullnose	5.00			4469.00	133.00 Bottom Packers & Anchor

Total Tool Length: 160.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45852

DST#: 5

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.03 @ 14:00:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	g o c m 35g 30o 35m	0.443
120.00	c g o 35g 65o	1.392
180.00	g m c o 30g25m45o	2.525
0.00	1050' gas in pipe	0.000

Total Length: 390.00 ft

Total Volume: 4.360 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

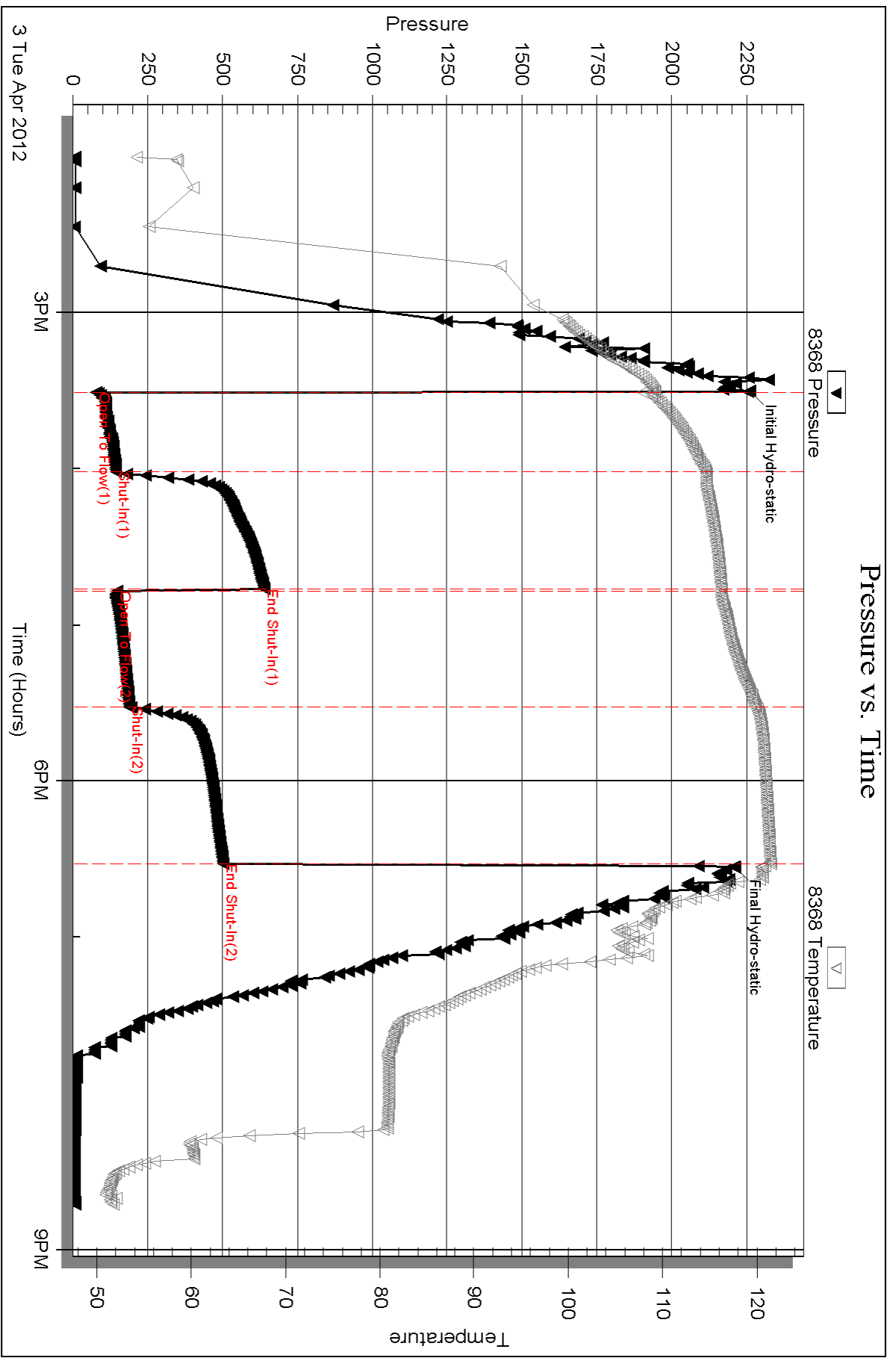
Serial #: 8368

Inside

Creco Petroleum Corp

Grace #1-15

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 45852

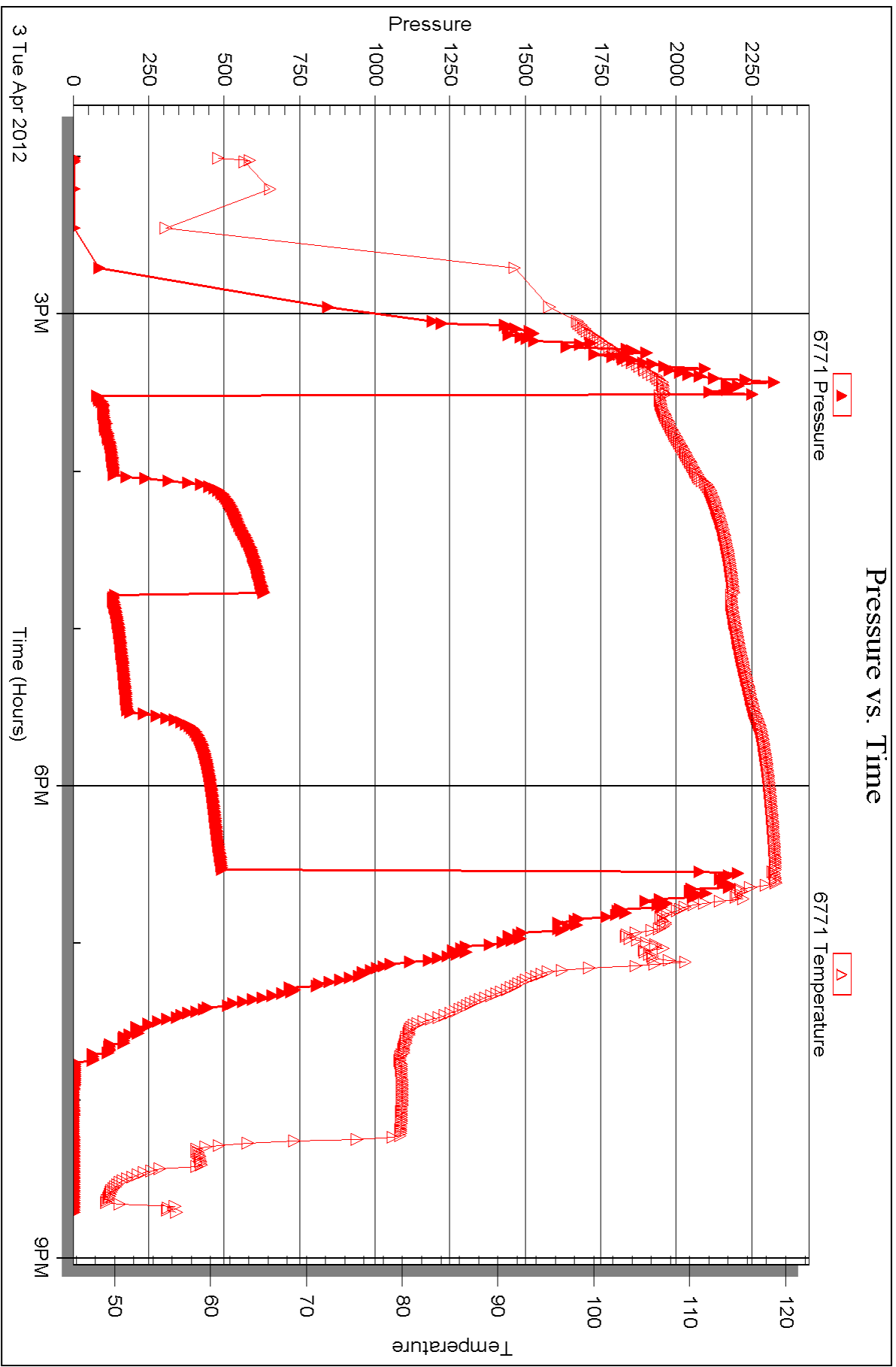
Printed: 2012.04.10 @ 16:53:55

Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp**

1801 Broadway
Denver, CO 80202

ATTN: Don Guy / Bruce Ard

Grace #1-15

15-17s-29w Lane, KS

Start Date: 2012.04.04 @ 09:20:44

End Date: 2012.04.04 @ 18:10:44

Job Ticket #: 45853 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.10 @ 16:53:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp
 1801 Broadway
 Denver, CO 80202
 ATTN: Don Guy / Bruce Ard

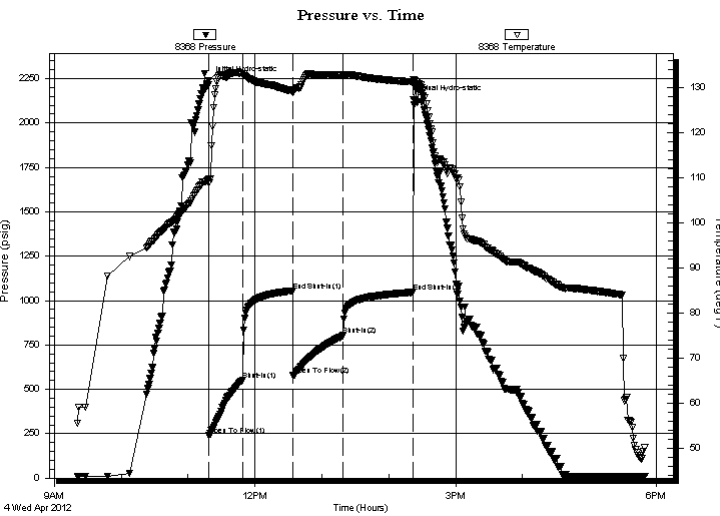
15-17s-29w Lane, KS
Grace #1-15
 Job Ticket: 45853 **DST#: 6**
 Test Start: 2012.04.04 @ 09:20:44

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 11:18:44
 Time Test Ended: 18:10:44
 Interval: **4463.00 ft (KB) To 4547.00 ft (KB) (TVD)**
 Total Depth: 4547.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8368 Inside
 Press @ Run Depth: 803.89 psig @ 4464.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.04 End Date: 2012.04.04 Last Calib.: 2012.04.04
 Start Time: 09:20:44 End Time: 17:49:44 Time On Btm: 2012.04.04 @ 11:18:29
 Time Off Btm: 2012.04.04 @ 14:22:14

TEST COMMENT: B.O.B. in 2 min.
 3" return blow
 B.O.B. in 2 1/2 min.
 Surface return 1/8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.98	109.82	Initial Hydro-static
1	242.32	108.90	Open To Flow (1)
31	551.13	133.18	Shut-In(1)
76	1055.08	129.25	End Shut-In(1)
76	578.84	128.99	Open To Flow (2)
121	803.89	132.87	Shut-In(2)
184	1046.55	131.33	End Shut-In(2)
184	2132.84	131.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	s g & m c w 5g 5m 90w	3.24
1240.00	g m & w c o 30g 10m 20w 40o	17.39
288.00	g m & w c o 25g 10m 15w 50o	4.04
0.00	200" gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45853

DST#: 6

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.04 @ 09:20:44

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4463.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4437.00	
Shut In Tool	5.00			4442.00	
Hydraulic tool	5.00			4447.00	
Jars	5.00			4452.00	
Safety Joint	2.00			4454.00	
Packer	5.00			4459.00	27.00 Bottom Of Top Packer
Packer	4.00			4463.00	
Stubb	1.00			4464.00	
Recorder	0.00	6771	Outside	4464.00	
Recorder	0.00	8368	Inside	4464.00	
Perforations	13.00			4477.00	
Change Over Sub	1.00			4478.00	
Drill Pipe	63.00			4541.00	
Change Over Sub	1.00			4542.00	
Bullnose	5.00			4547.00	84.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp

15-17s-29w Lane, KS

1801 Broadway
Denver, CO 80202

Grace #1-15

Job Ticket: 45853

DST#: 6

ATTN: Don Guy / Bruce Ard

Test Start: 2012.04.04 @ 09:20:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48500 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	s g & m c w 5g 5m 90w	3.237
1240.00	g m & w c o 30g 10m 20w 40o	17.394
288.00	g m & w c o 25g 10m 15w 50o	4.040
0.00	200" gas in pipe	0.000

Total Length: 1838.00 ft Total Volume: 24.671 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .191 @ 52*f= 48,500 chlor

Serial #: 8368

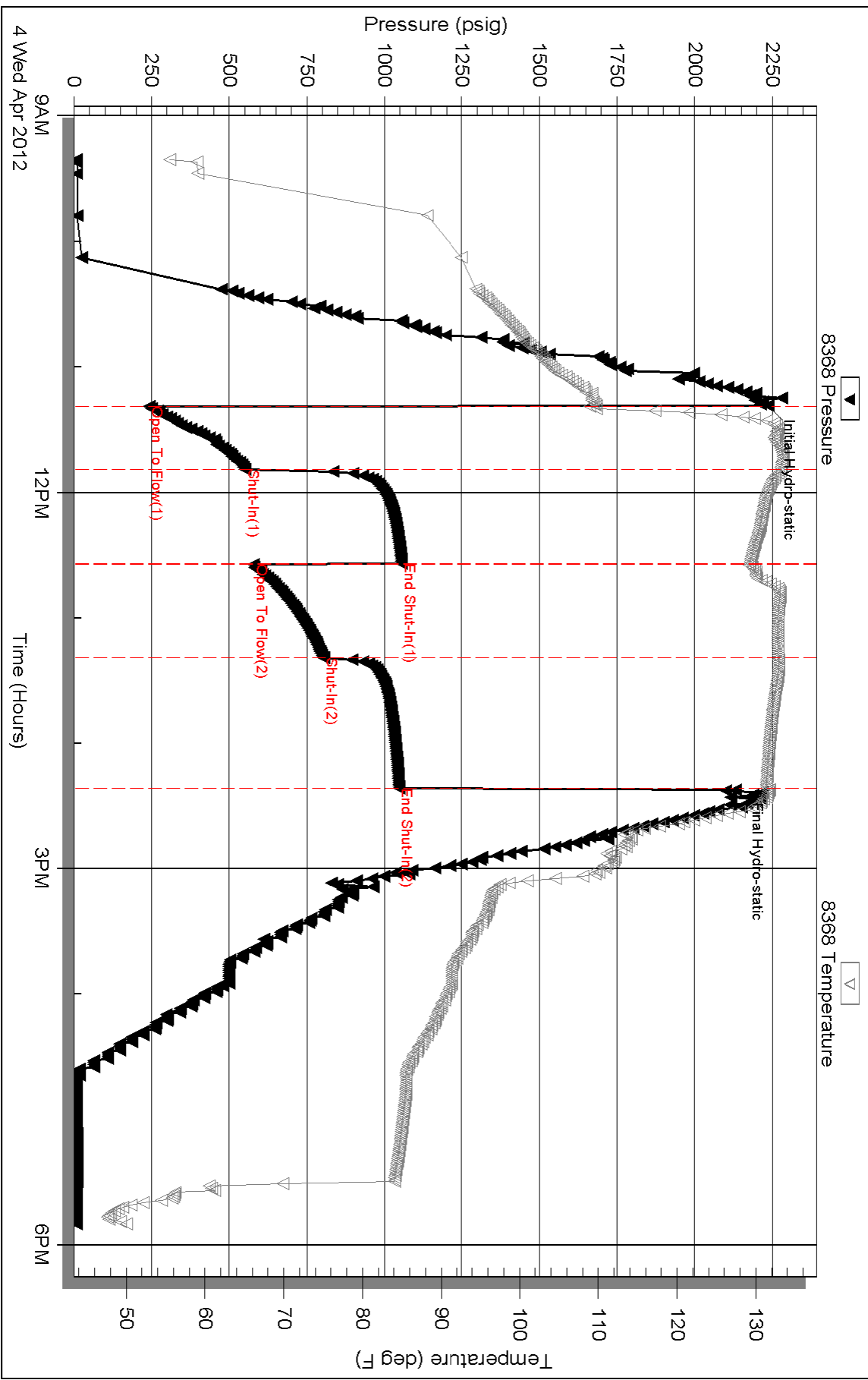
Inside

Creco Petroleum Corp

Grace #1-15

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45853

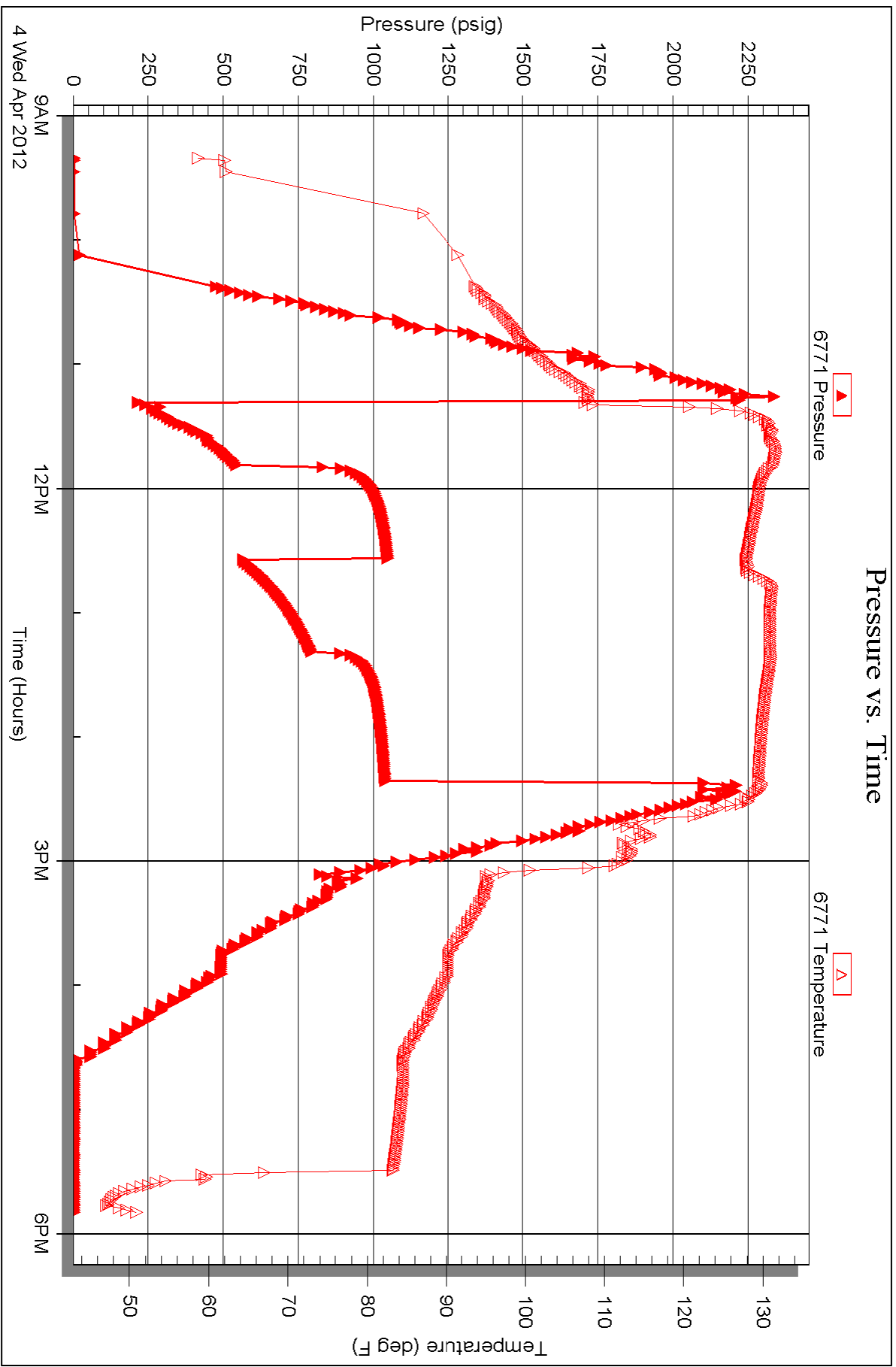
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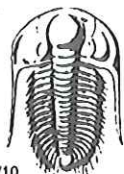
Serial #: 6771

Outside Credo Petroleum Corp

Grace #1-15

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012

Test Ticket

NO. 44973

4/10

BY:

Well Name & No. Grace #1-15 Test No. #1 Date 3/31/12
 Company Credo Petroleum Corp Elevation 2800 KB 2801 GL
 Address 1801 Broadway #900 Denver, Colo 80202
 Co. Rep / Geo Dan Burt/ Bruce And Rig WW#10
 Location: Sec. 15 Twp. 17s Rge. 29w Co. Lane State Ks

Interval Tested 3980 4066 Zone Tested C-F
 Anchor Length 86 Drill Pipe Run 3856' Mud Wt. 9.5
 Top Packer Depth 3975 Drill Collars Run 122' NH Vis 46
 Bottom Packer Depth 3980 Wt. Pipe Run — WL 10.0
 Total Depth 4066 Chlorides 3600 ppm System LCM #2

Blow Description B.O.B. in 12 min
No return
B.O.B. in 22 min
return in 40 min (Surface blow)

Rec	Feet of	%gas	%oil	%water	%mud
135	90 ³ / ₄ wcm	15	30	15	40
180	90 ³ / ₄ wcm	15	30	25	30
300	590 ⁵ / ₈ mcw	5	5	75	15
	600' Gas in pipe				

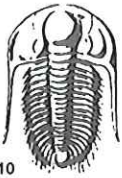
Rec Total 615' BHT 119° Gravity — API RW .115 @ 83° F Chlorides 56,000 ppm

(A) Initial Hydrostatic 2043 Test 1225' T-On Location 09:30
 (B) First Initial Flow 83 Jars 250' T-Started 11:15
 (C) First Final Flow 180 Safety Joint 75' T-Open 13:10
 (D) Initial Shut-In 1061 Circ Sub N/C T-Pulled 16:10
 (E) Second Initial Flow 200 Hourly Standby _____ T-Out 18:45
 (F) Second Final Flow 307 Mileage 58 RT 81.20 Comments _____
 (G) Final Shut-In 1024 Sampler _____
 (H) Final Hydrostatic 1961 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 11631.20
 Total 11631.20
 MP/DST Disc't _____

Approved By Bruce And Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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RECEIVED
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Test Ticket

NO. 44974

Well Name & No. Grace #1-15 Test No. #2 Date 4/1/12
 Company Credo Petroleum Corp Elevation 2806 KB 2801 GL
 Address 1821 Broadway, #900 Denver, Colo 80202
 Co. Rep / Geo Don By/Bruce Ald Rig _____
 Location: Sec. 15 Twp. 17s Rge. 29w Co. Kane State KS

Interval Tested 4112 4212 Zone Tested H-I-J
 Anchor Length 100 Drill Pipe Run 3982' Mud Wt. 9.2
 Top Packer Depth 4107 Drill Collars Run 122' x H Vis 58
 Bottom Packer Depth 4112 Wt. Pipe Run _____ WL 10.0
 Total Depth 4212 Chlorides 4000 ppm System LCM #2

Blow Description 2" blow
No return
1/4" int blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>122</u>	<u>CCM</u>		<u>7</u>		<u>93</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 122' BHT 116.0 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2154 Test 1225' T-On Location 07:15
 (B) First Initial Flow 32 Jars 250 T-Started 07:40
 (C) First Final Flow 37 Safety Joint 75' T-Open 09:35
 (D) Initial Shut-In 486 Circ Sub N/C T-Pulled 12:35
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 14:40
 (F) Second Final Flow 89 Mileage 58RT 81.20 Comments _____
 (G) Final Shut-In 482 Sampler _____
 (H) Final Hydrostatic 2021 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 11631.20
 Final Shut-In 60 Accessibility _____ MP/DST Disc't

Approved By Bruce Ald Sub Total 11631.20 Our Representative _____



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012

Test Ticket

NO. 44975

4/10

BY: _____

Well Name & No. Grass #1-15 Test No. #3 Date 4/2/12
 Company Credo Petroleum Corp Elevation 2806 KB 2801 GL
 Address 1801 Broadway, Denver, Colo 80202
 Co. Rep / Geo Don Gay / Bruce Ad Rig WCV #10
 Location: Sec. 15 Twp. 17S Rge. 29W Co. Lane State KS

Interval Tested 4218 4338 Zone Tested L-Mammaton
 Anchor Length 120 Drill Pipe Run 4076 Mud Wt. 9.4
 Top Packer Depth 4213 Drill Collars Run 122' X.H Vis 46
 Bottom Packer Depth 4218 Wt. Pipe Run _____ WL 9.4
 Total Depth 4338 Chlorides 5000 ppm System LCM #2

Blow Description Weal blow died in 18 min
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
1	Mud				100%
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

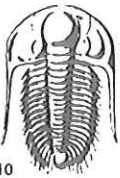
Rec Total 1 BHT 116° Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic 2192 Test 1225 T-On Location 01:15
 (B) First Initial Flow _____ Jars 250 T-Started 01:45
 (C) First Final Flow _____ Safety Joint 75 T-Open 03:20
 (D) Initial Shut-In _____ Circ Sub N/C T-Pulled 06:20
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 08:00
 (F) Second Final Flow _____ Mileage 380 81.20 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2142 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total Ⓟ
 Final Flow 45 Day Standby _____ Total 11631.20
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 11631.20

Approved By _____ Our Representative [Signature]

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RECEIVED
APR 09 2012

Test Ticket

NO. 45851

4/10

Well Name & No. Grace #1-15 BY: _____ Test No. #4 Date 4/2/12
 Company Credo Petroleum Corp Elevation 2806 KB 2801 GL
 Address 1801 Broadway #900 Denver, Colo 80202
 Co. Rep / Geol Don Gay / Bruce Ard Rig WW #10
 Location: Sec. 15 Twp. 17S Rge. 29W Co. Lane State Ks

Interval Tested 4218 4338 Zone Tested L-Maximilian
 Anchor Length 120 Drill Pipe Run 4076 Mud Wt. 9.4
 Top Packer Depth 4213 Drill Collars Run 122' XH Vis lele
 Bottom Packer Depth 4218 Wt. Pipe Run --- WL 9.2
 Total Depth 4338 Chlorides 3500 ppm System LCM #1
 Blow Description 4 1/2" in blow
No return
3 1/2" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Free Oil</u>	<u>100</u>			
<u>285'</u>	<u>SuXM w/o:1 spots</u>	<u>spots</u>	<u>23</u>	<u>77</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 286' BHT 117° Gravity --- API RW 264 @ 50° F Chlorides 37,000 ppm

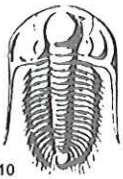
(A) Initial Hydrostatic 2140 Test 1225' T-On Location 13:30
 (B) First Initial Flow 32 Jars 250' T-Started 14:10
 (C) First Final Flow 114 Safety Joint 75' T-Open 16:17
 (D) Initial Shut-In 479 Circ Sub N/C T-Pulled 20:02
 (E) Second Initial Flow 116 Hourly Standby _____ T-Out 22:10
 (F) Second Final Flow 161 Mileage 58 RT 81:20 Comments _____
 (G) Final Shut-In 487 Sampler _____
 (H) Final Hydrostatic 2092 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 11631:20
 Accessibility _____ MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total 11631:20

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012

Test Ticket

NO. 45852

Well Name & No. Grace #1-15 Test No. #5 Date 4/3/12
 Company Credot Petroleum Corp Elevation 2806 KB 2801 GL
 Address 1801 Broadway #900 Denver, Colo 80202
 Co. Rep / Geo Parbury/Bruce Ard Rig WW#10
 Location: Sec. 15 Twp. 17S Rge. 29W Co. Jane State Ks

Interval Tested 4336 4469 Zone Tested Marmaton - Ft Scott
 Anchor Length 133 Drill Pipe Run 4204 Mud Wt. 9.4
 Top Packer Depth 4331 Drill Collars Run 122' Vis 60
 Bottom Packer Depth 4336 Wt. Pipe Run --- WL 7.4
 Total Depth 4469 Chlorides 2500 ppm System LCM #1

Blow Description B.O.B. in 9 min
1" in Return died on 15 min
B.O.B. in 8 min
1" in Return died in 23 min.

Rec	Feet of	%gas	%oil	%water	%mud
180	gmc0	30%	45%	25%	
120	g90	35%	65%		
90	gocm	35%	30%	35%	
	(1050' Gas. w pipe)				

Rec Total 390' BHT 122° Gravity 30 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2261</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>13:40</u>
(B) First Initial Flow <u>78</u>	<input checked="" type="checkbox"/> Jars <u>255'</u>	T-Started <u>14:00</u>
(C) First Final Flow <u>144</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>15:30</u>
(D) Initial Shut-In <u>639</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>18:30</u>
(E) Second Initial Flow <u>148</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:05</u>
(F) Second Final Flow <u>189</u>	<input checked="" type="checkbox"/> Mileage <u>50RT</u> @ <u>8.20</u>	Comments
(G) Final Shut-In <u>501</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2207</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer

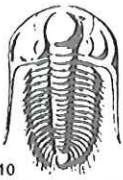
Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1631.20
 Total 1631.20
 MP/DST Disc't X

Approved By Bruce Ard Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012

Test Ticket

NO. 45853

4/10

BY: _____

Well Name & No. Grace #1-15 Test No. #6 Date 4/4/12
 Company Credo Petroleum Corp Elevation 2806 KB 2801 GL
 Address 1801 Broadway #900 Denver, Colo 80202
 Co. Rep / Geo. Don Guy / Bruce Reid Rig WCU #10
 Location: Sec. 15 Twp. 17S Rge. 29W Co. Lane State Ks

Interval Tested 4463 4547 Zone Tested Cherokee - Johnson
 Anchor Length 84 Drill Pipe Run 4335' Mud Wt. 9.4
 Top Packer Depth 4458 Drill Collars Run 122' XH Vis 48
 Bottom Packer Depth 4463 Wt. Pipe Run _____ WL 6.4
 Total Depth 4547 Chlorides 2400 ppm System LCM #2

Blow Description B.O.B. in 2 min
3' in Return blow
B.O.B. in 2 1/2 min
Surface Return (1/8" in)

Rec	Feet of	%gas	%oil	%water	%mud
<u>288</u>	<u>gm³wco</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>10</u>
<u>1240</u>	<u>gm³wco</u>	<u>30</u>	<u>40</u>	<u>20</u>	<u>10</u>
<u>310</u>	<u>gm³mcw w/it sum</u>	<u>5</u>		<u>90</u>	<u>5</u>
	<u>200' GAS in pipe</u>				

Rec Total 1838' BHT 132° Gravity _____ API RW 191 @ 52 °F Chlorides 48,500 ppm

(A) Initial Hydrostatic	<u>2236</u>	<input checked="" type="checkbox"/> Test	<u>1225'</u>	T-On Location	<u>08:55</u>
(B) First Initial Flow	<u>242</u>	<input checked="" type="checkbox"/> Jars	<u>250'</u>	T-Started	<u>09:20</u>
(C) First Final Flow	<u>551</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75'</u>	T-Open	<u>11:17</u>
(D) Initial Shut-In	<u>1055</u>	<input checked="" type="checkbox"/> Circ Sub	<u>W/C</u>	T-Pulled	<u>14:17</u>
(E) Second Initial Flow	<u>578</u>	<input type="checkbox"/> Hourly Standby		T-Out	
(F) Second Final Flow	<u>803</u>	<input checked="" type="checkbox"/> Mileage	<u>5825</u> @ <u>81.20</u>	Comments	
(G) Final Shut-In	<u>1046</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2132</u>	<input type="checkbox"/> Straddle			

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer 320'
 Extra Copies
 Sub Total 320
 Total 1951.20
 MP/DST Disc't

Approved By Bruce Reid Our Representative _____

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DIGITAL LOG (785) 625-3858

Dual Induction Log

15-101-22361-00-00

API No.

Company Credo Petroleum Corporation

Well Grace #1-15

Field North Trail

County Lane State

Kansas

Location

E2 NW NE NW
330' FNL / 1920' FWL

Other Services
CNL / CDL
MEL / BHCS

Sec: 15 Twp: 17S Rge: 29W

Permanent Datum Ground Level Elevation 2801
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 2806
D.F.
G.L. 2801

Date 4/5/2012

Run Number One

Depth Driller 4660

Depth Logger 4660

Bottom Logged Interval 4659

Top Log Interval 200

Casing Driller 8.625 @ 255

Casing Logger 251

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2400

Density / Viscosity 9.4 48

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.90 @ 62

Rmf @ Meas. Temp 0.68 @ 62

Rmc @ Meas. Temp 1.22 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT 0.46 @ 123

Operating Rig Time 5 Hours

Max Rec. Temp. F 123

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Bruce Ard

<<< Fold Here >>>

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

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(785) 625-3858

Healy, KS:
Hwy 83 & Hwy 4: 3W to Ike Rd.
2S, 1/4E, S into

Database File: c:\warrior\data\credo_grace #1-15\credohd.db
Dataset Pathname: dil/crdmain
Presentation Format: dil2in
Dataset Creation: Thu Apr 05 10:20:46 2012
Charted by: Depth in Feet scaled 1:600

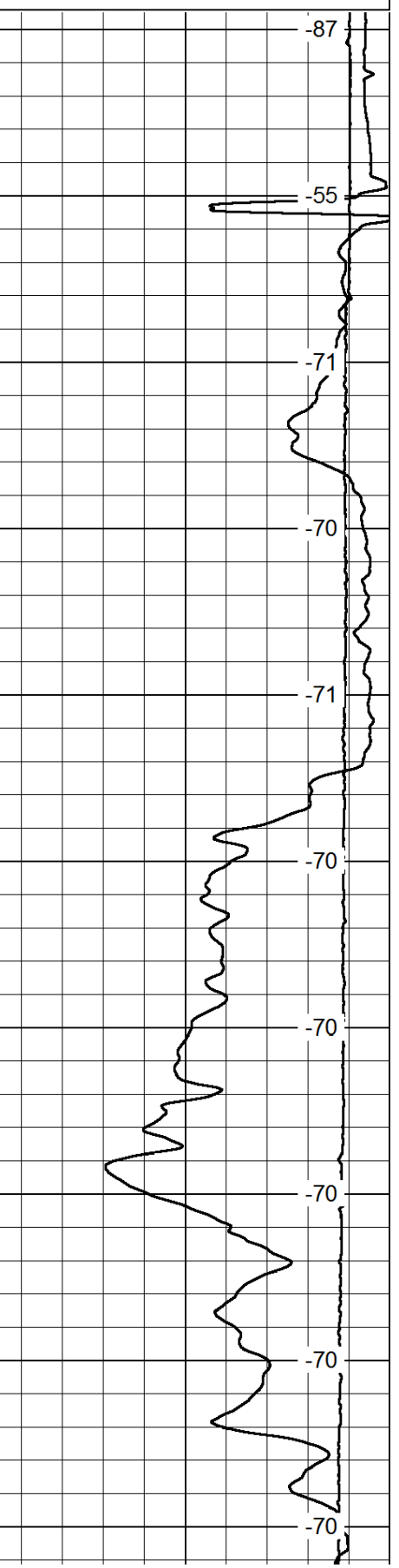
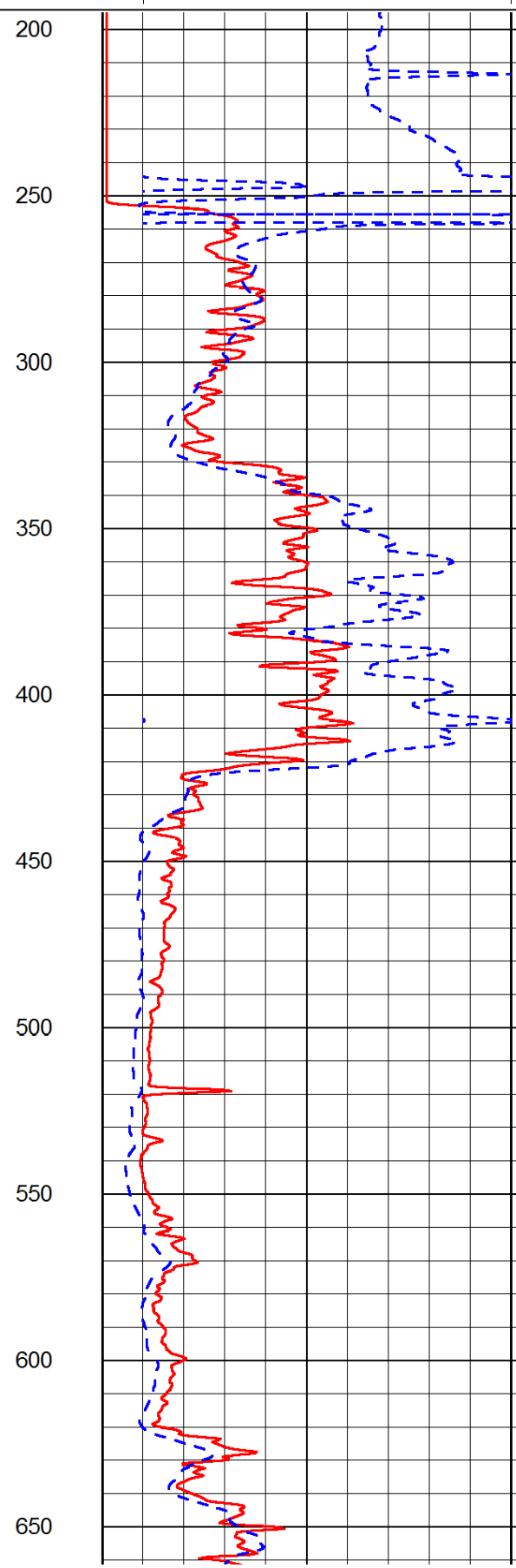
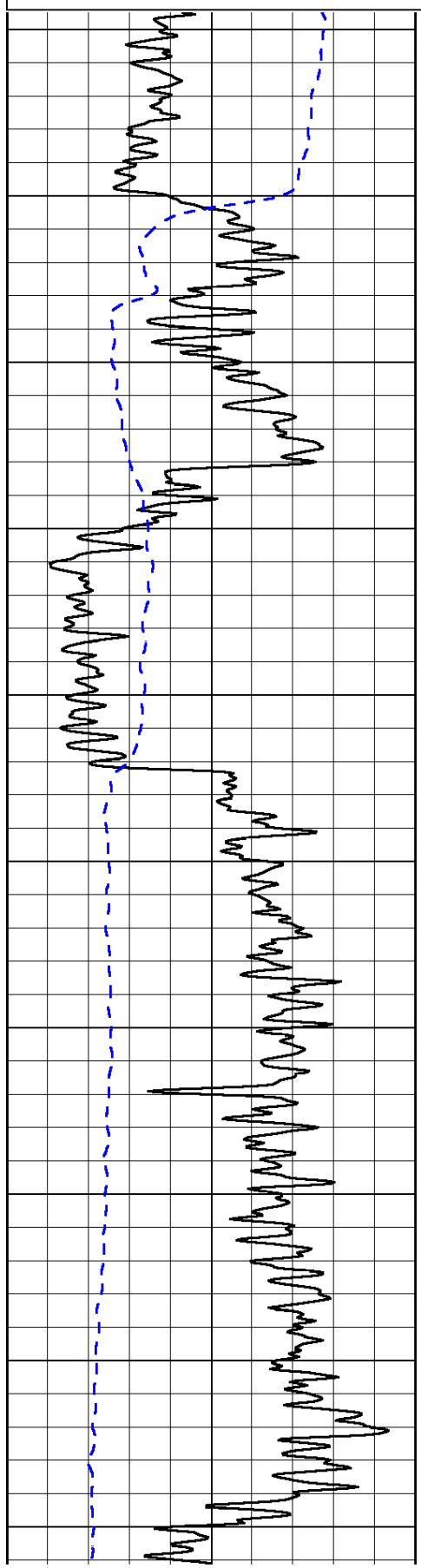
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0	Shallow Resistivity	50
0	Deep Resistivity	50

LSPD

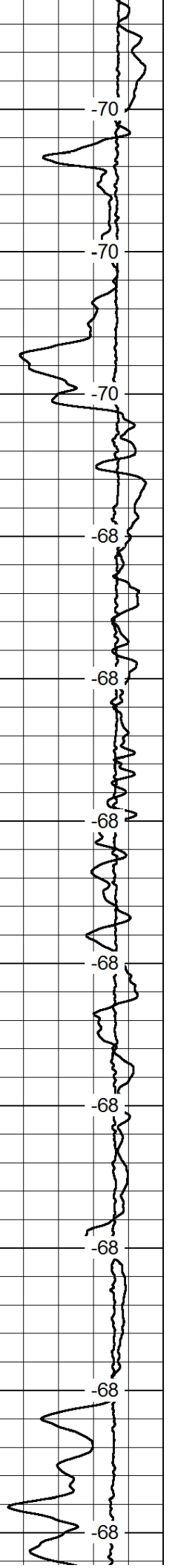
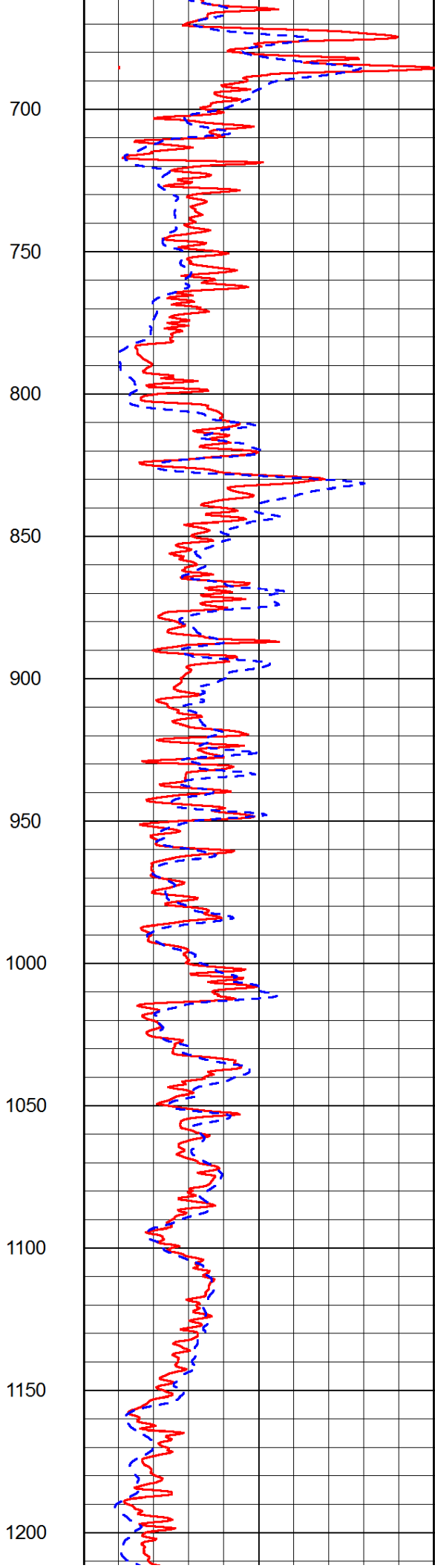
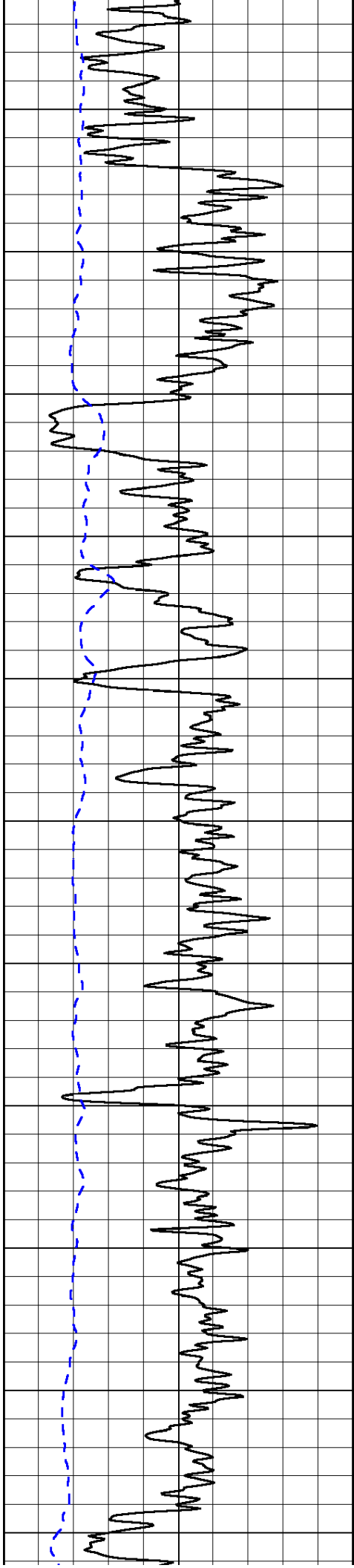
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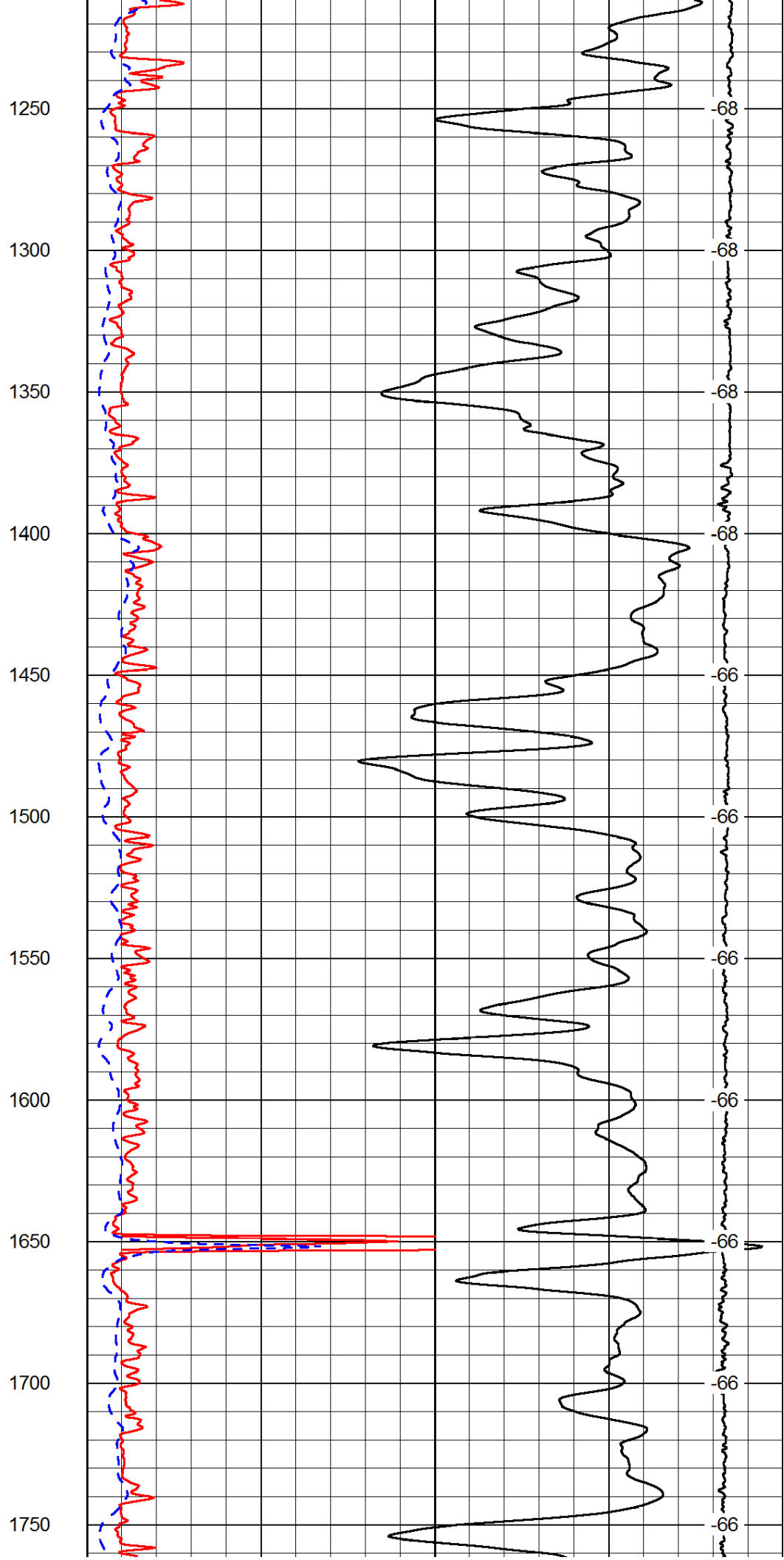
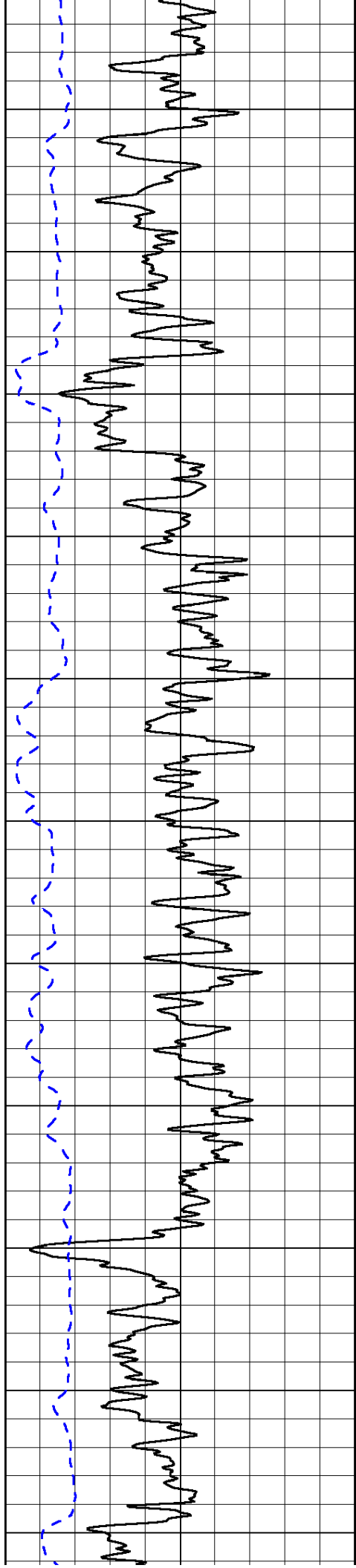
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50	Deep Resistivity	500

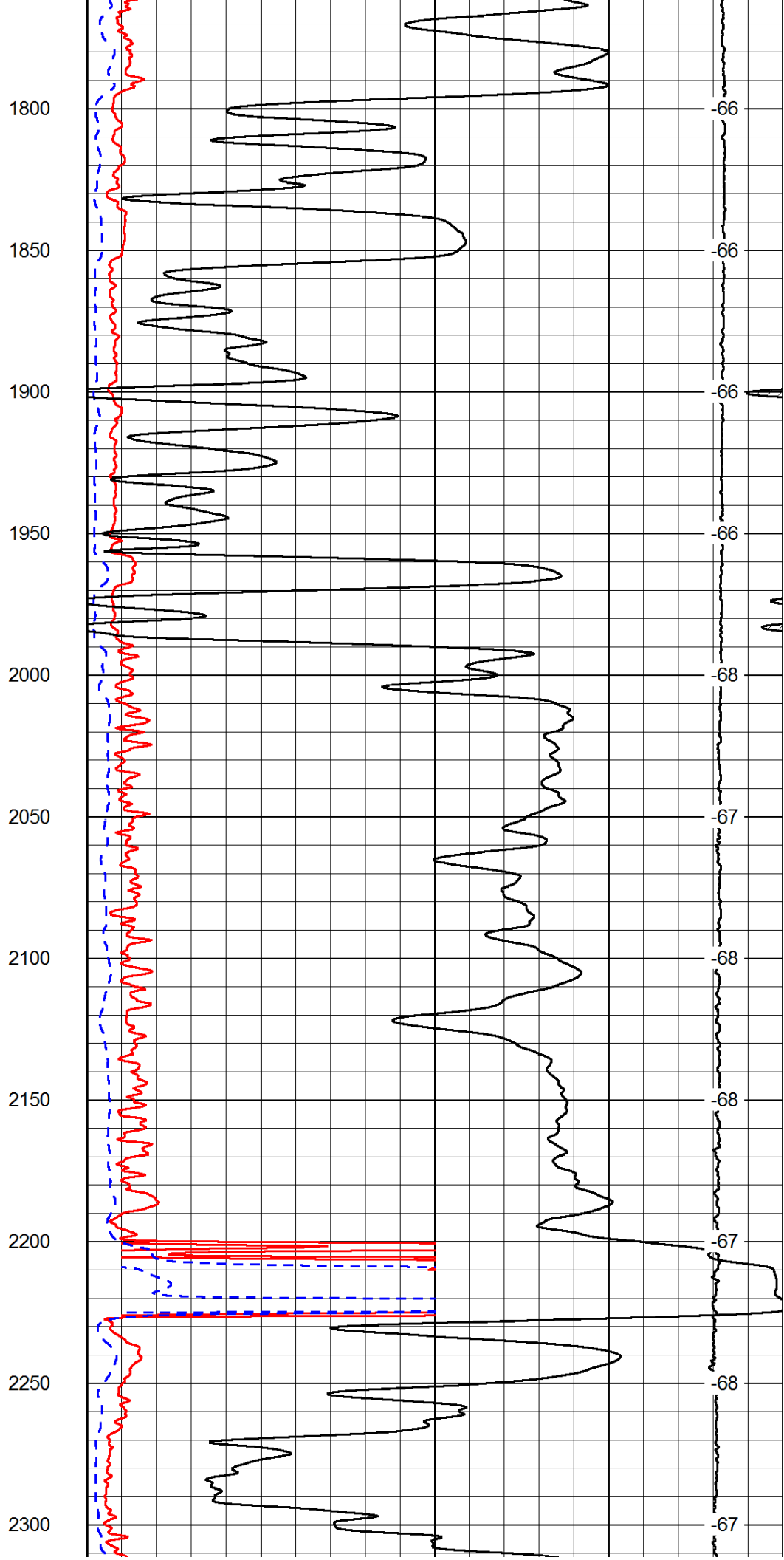
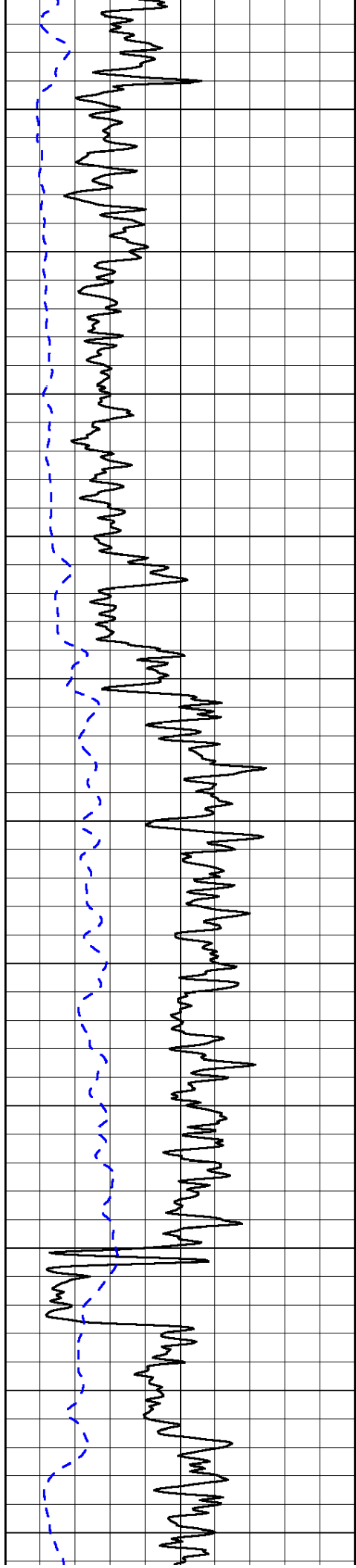


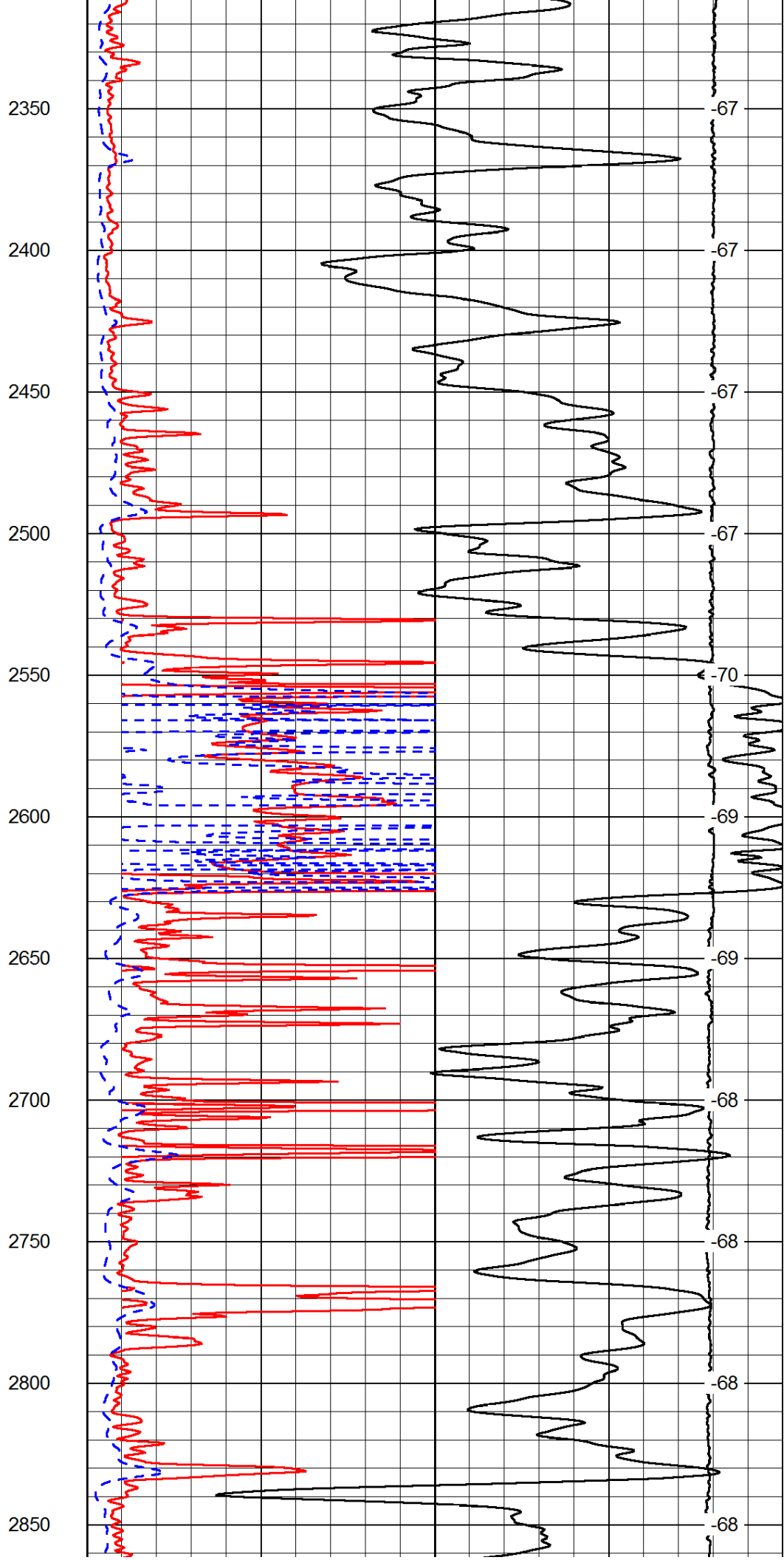
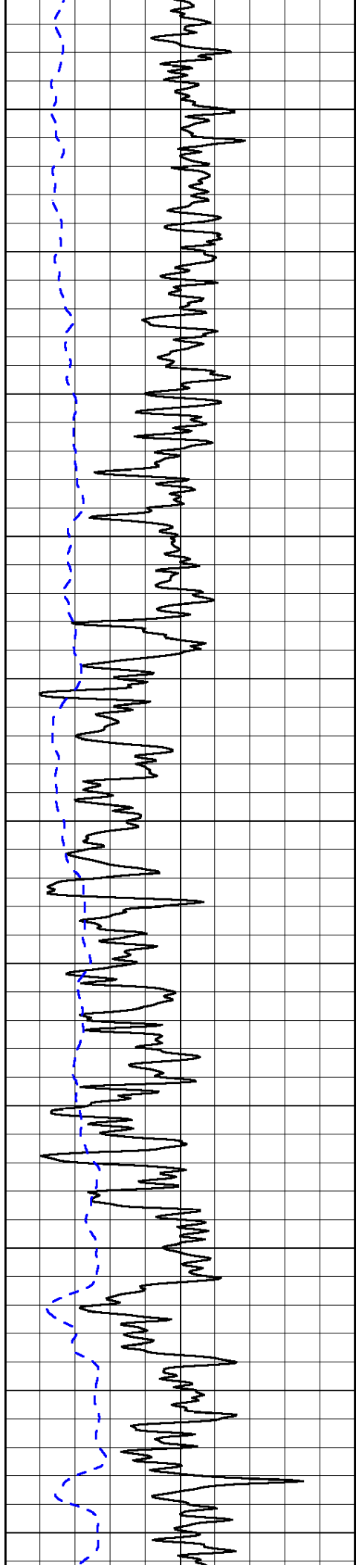
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300
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400
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550
600
650

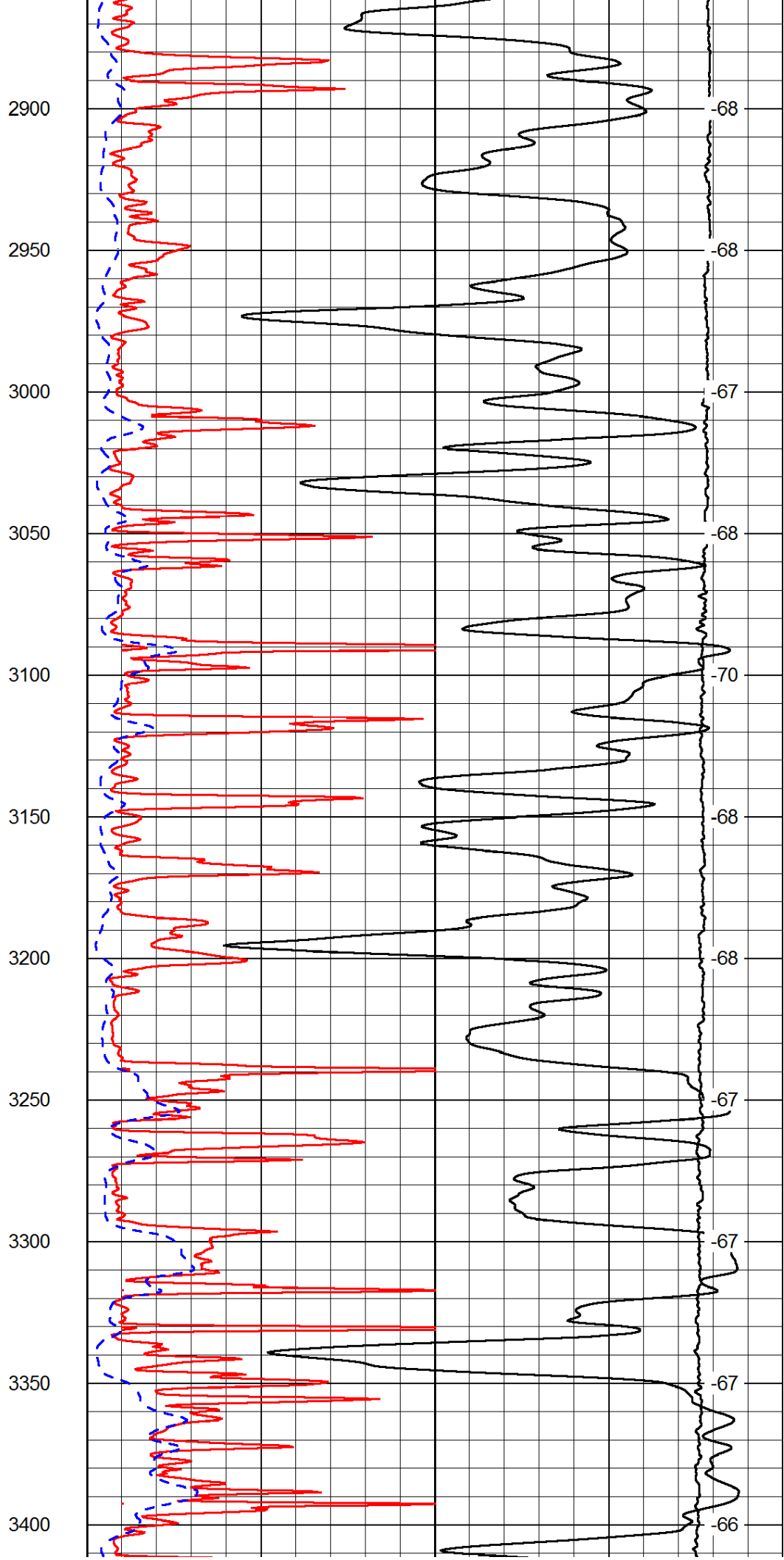
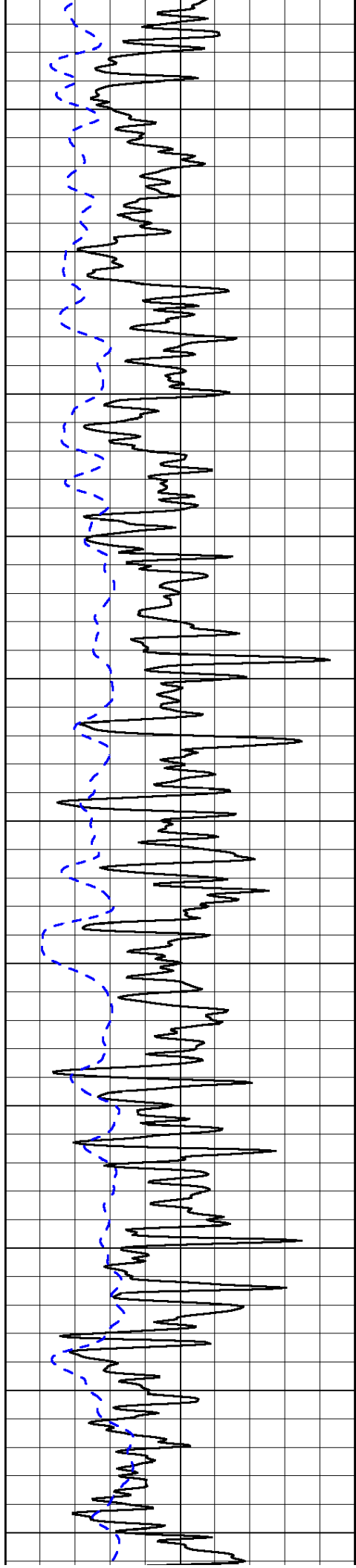
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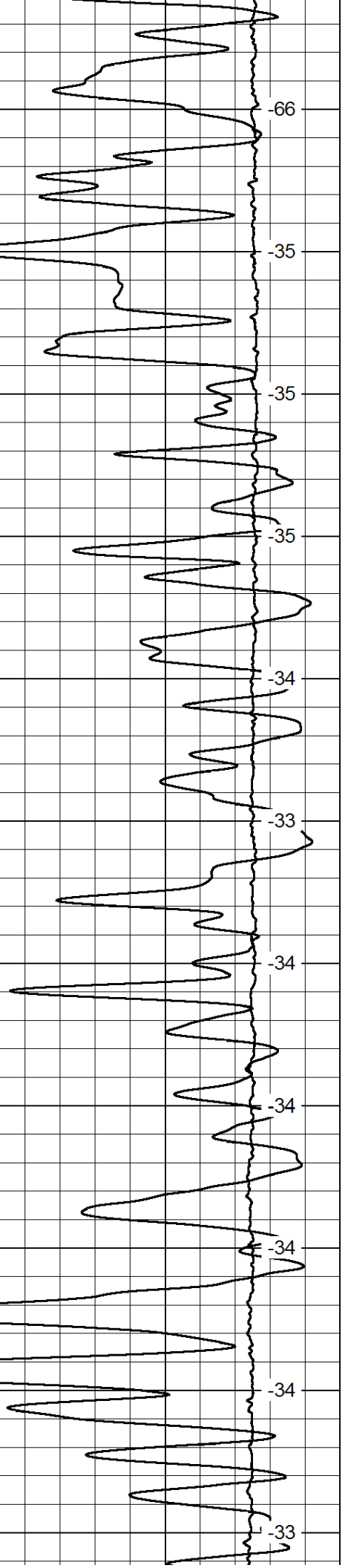
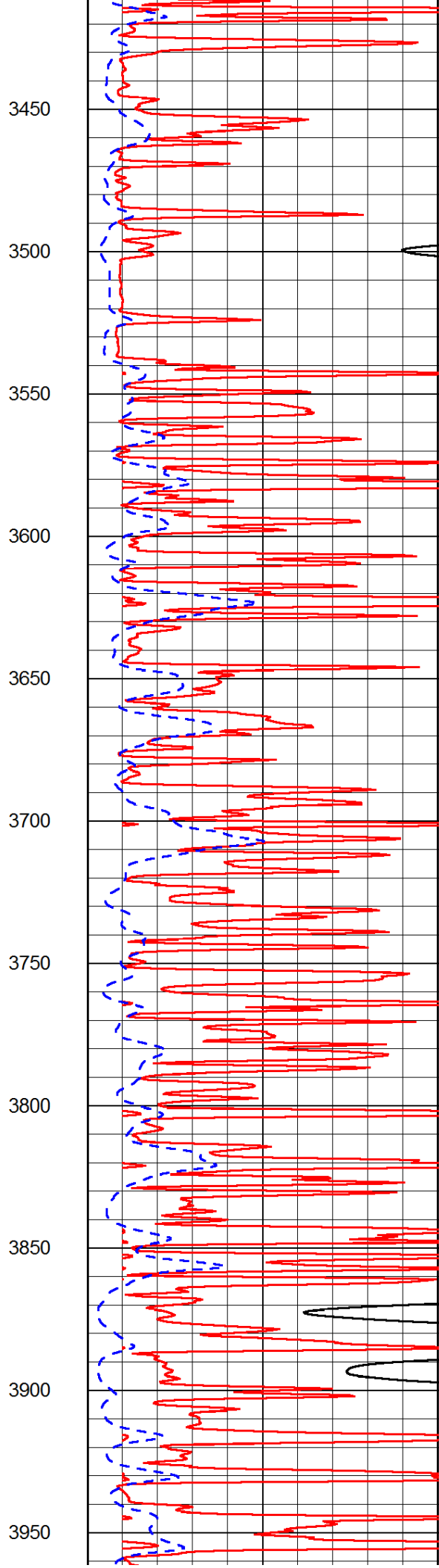
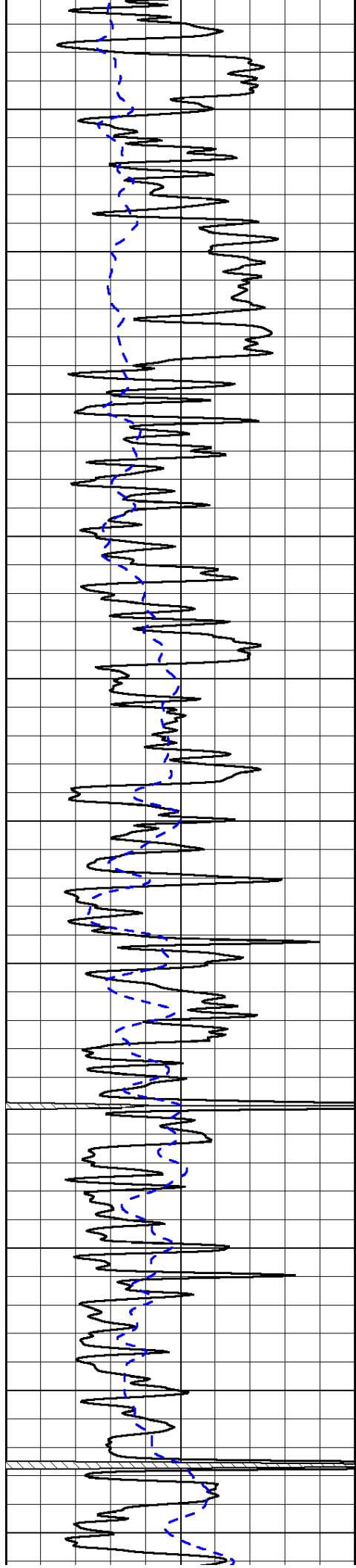


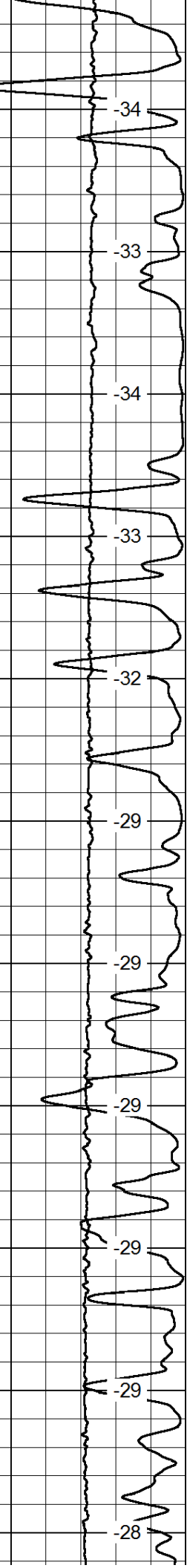
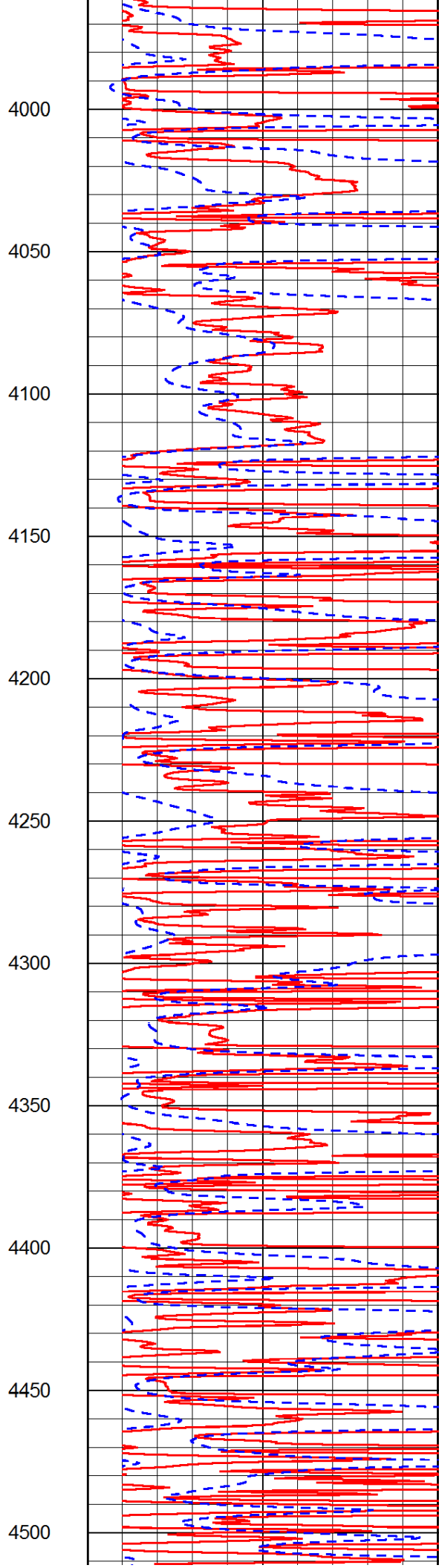
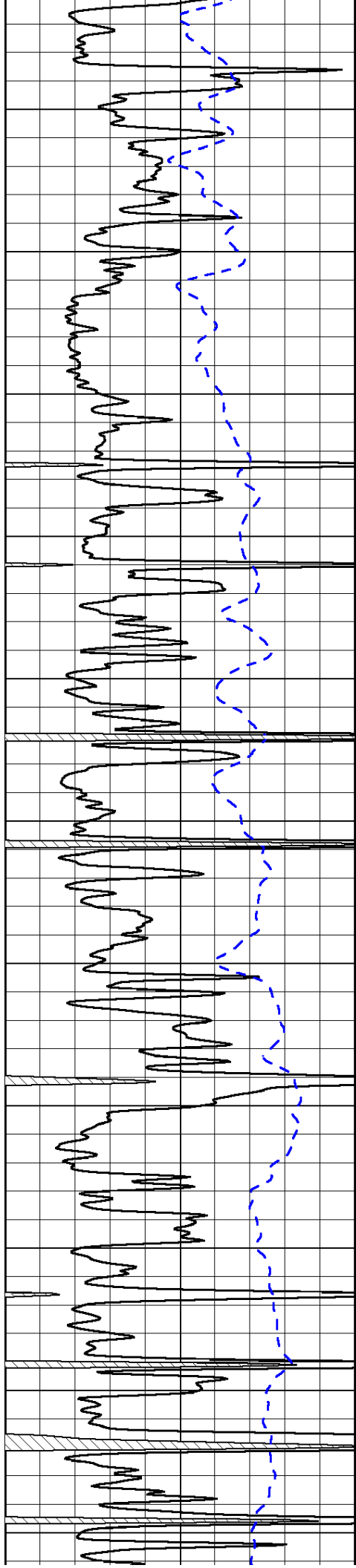


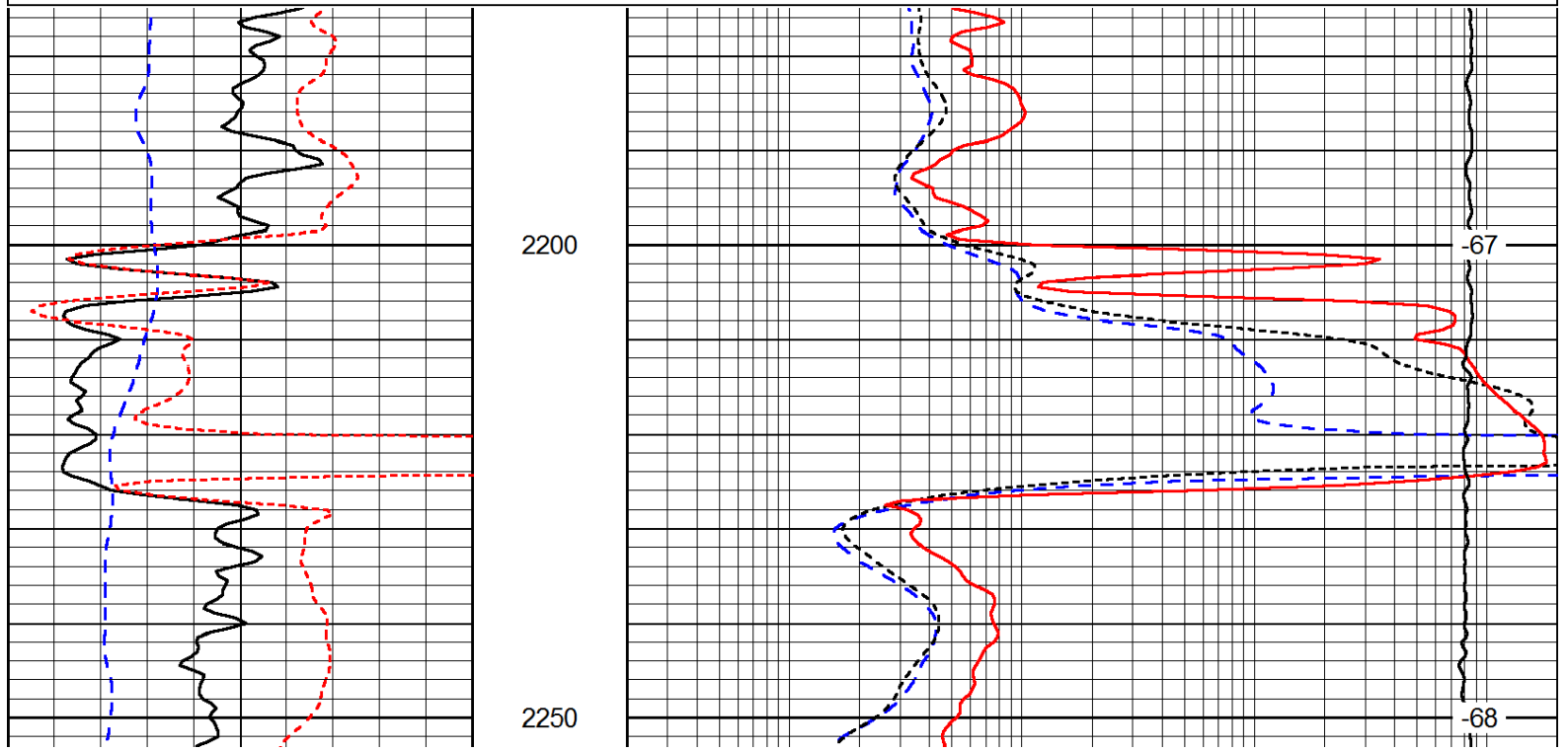
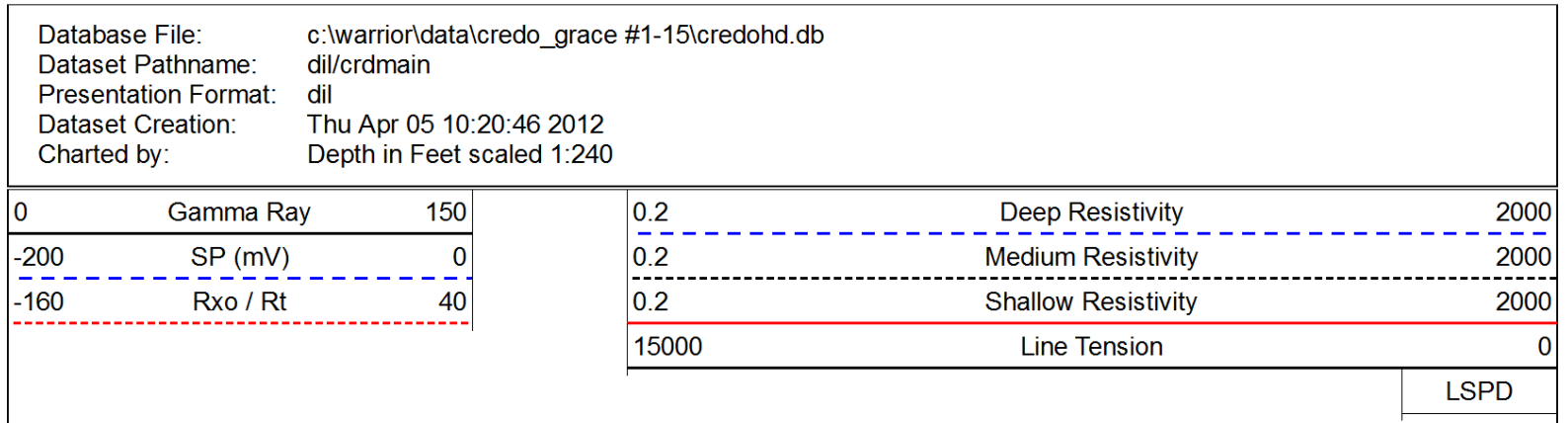
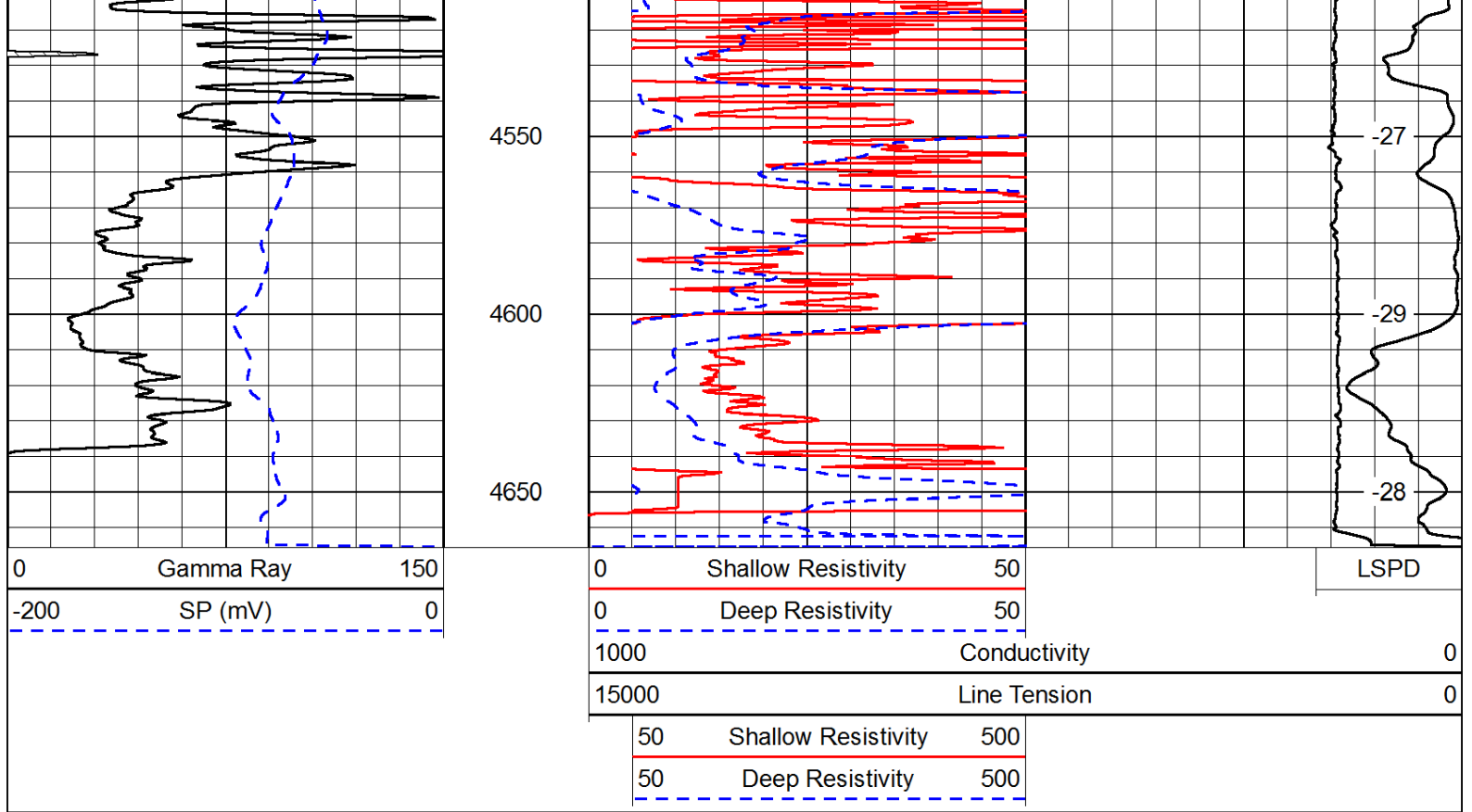


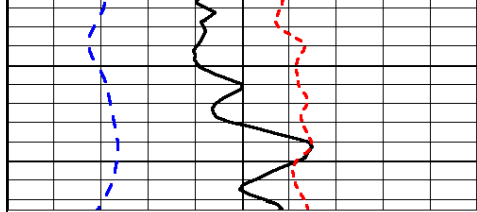




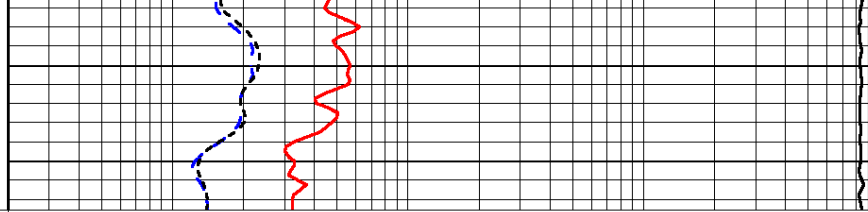








0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

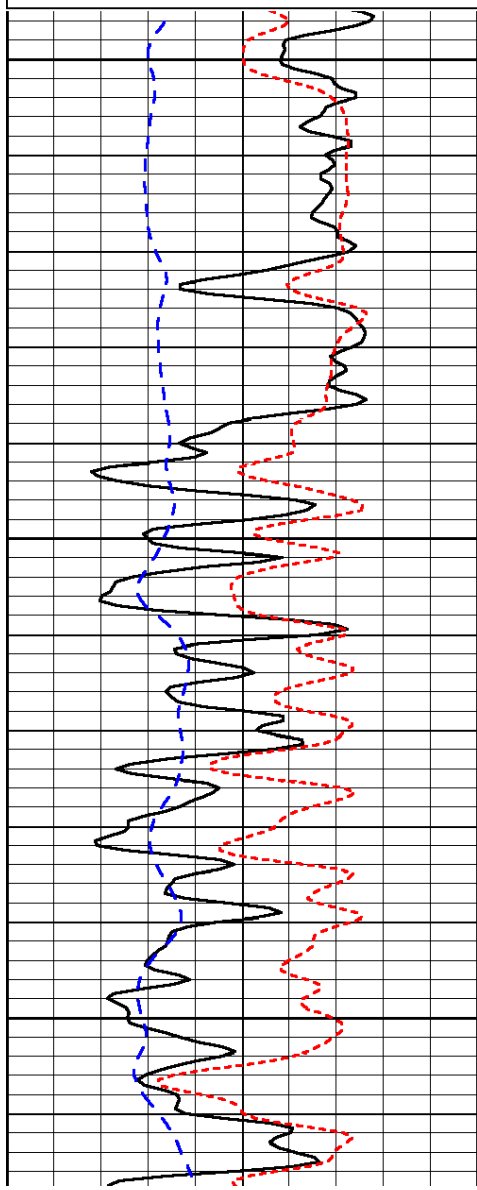
LSPD

Database File: c:\warrior\data\credo_grace #1-15\credohd.db
 Dataset Pathname: dil/crdmain
 Presentation Format: dil
 Dataset Creation: Thu Apr 05 10:20:46 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

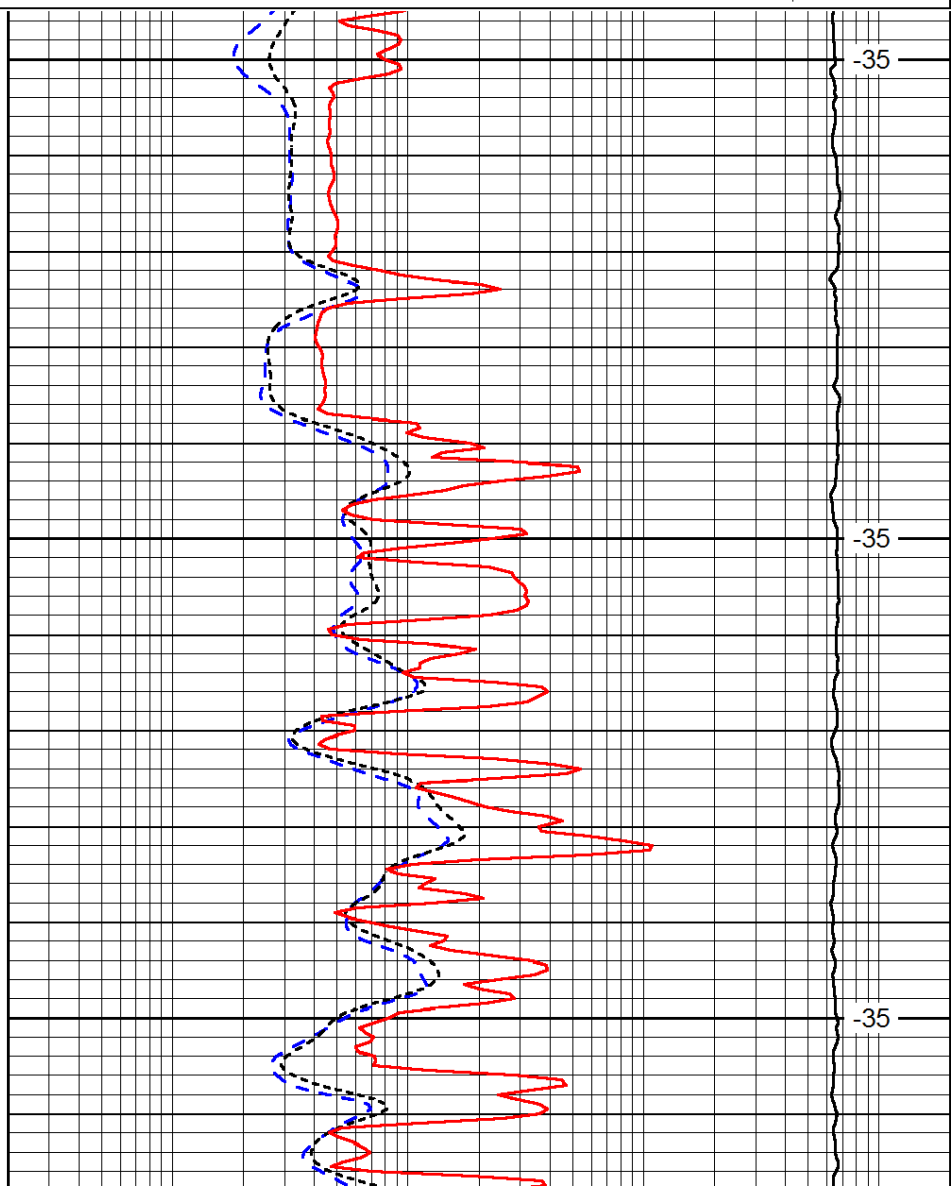
LSPD



3500

3550

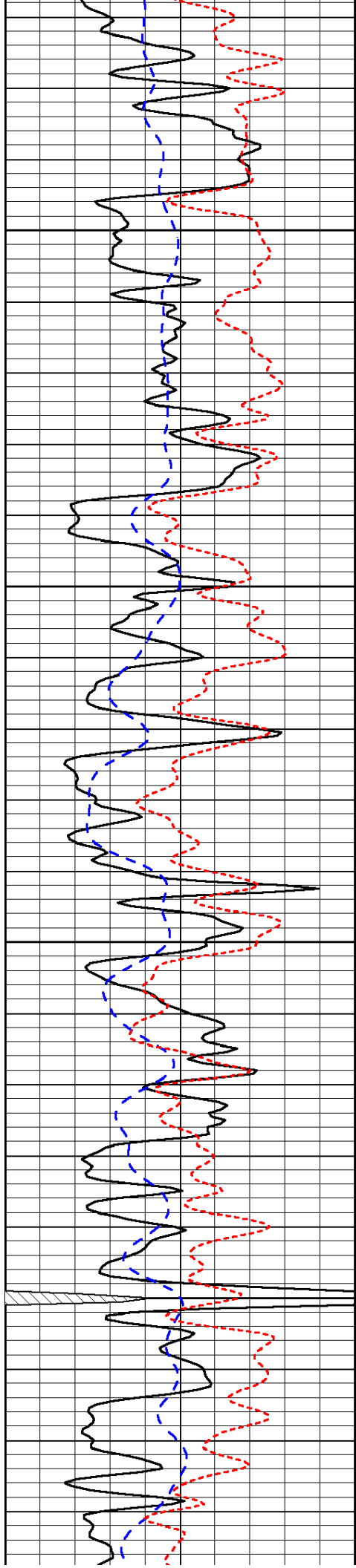
3600



-35

-35

-35

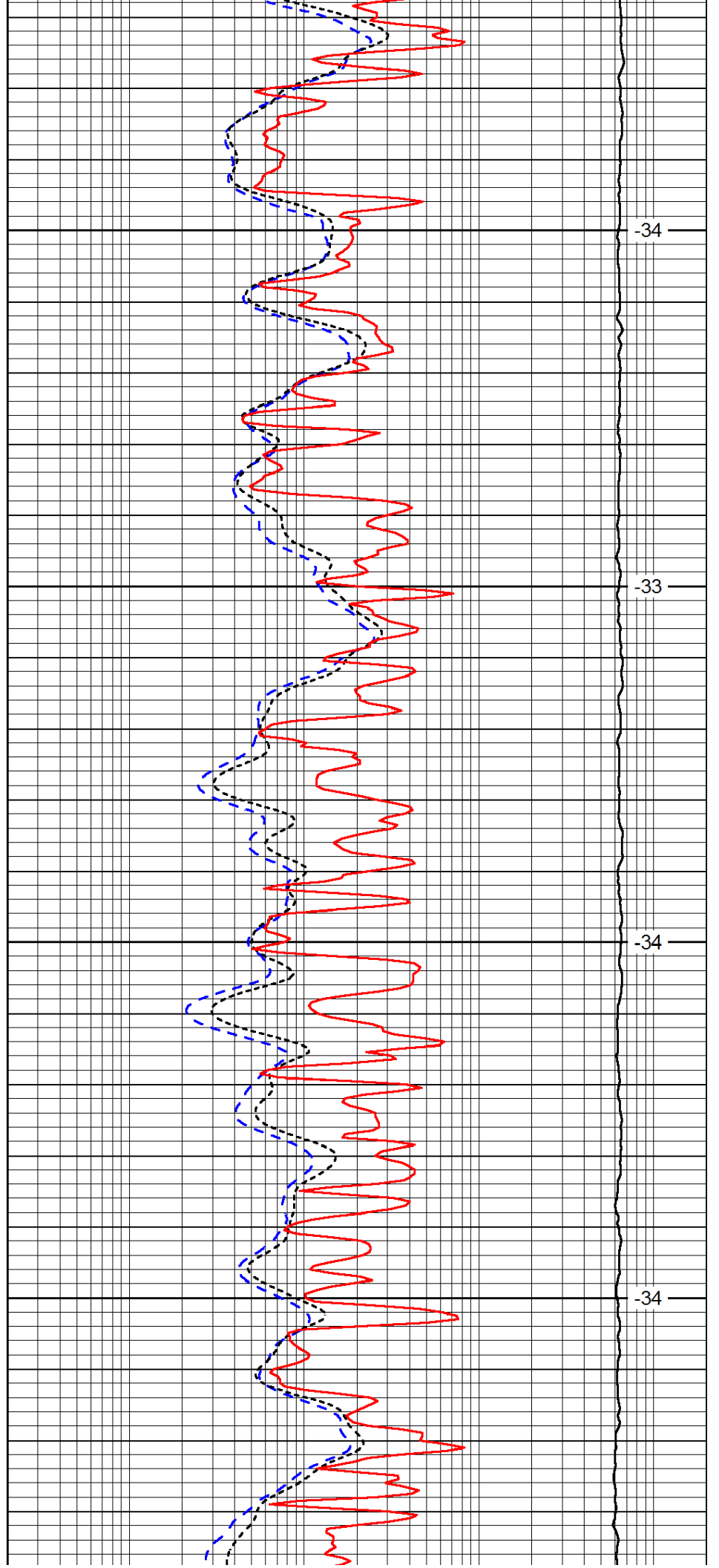


3650

3700

3750

3800

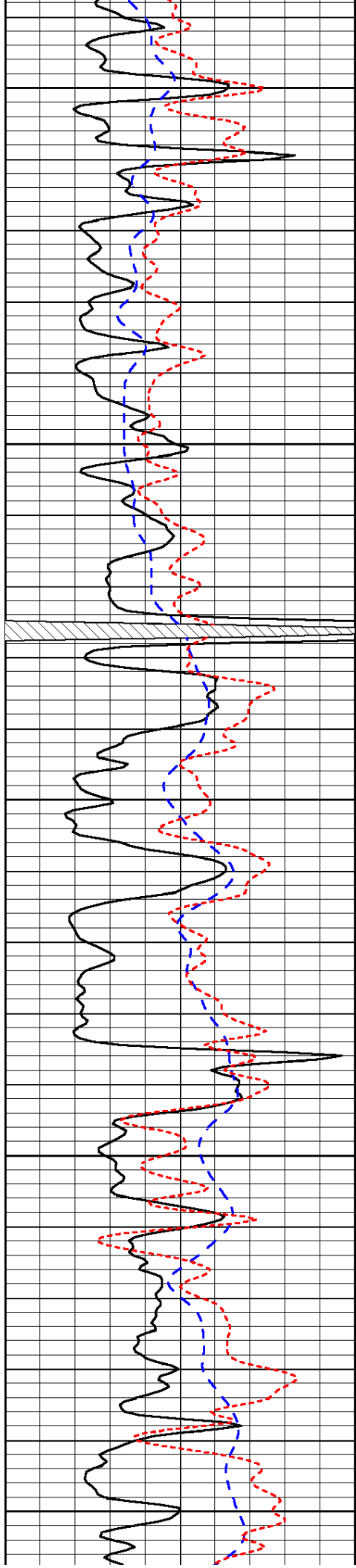


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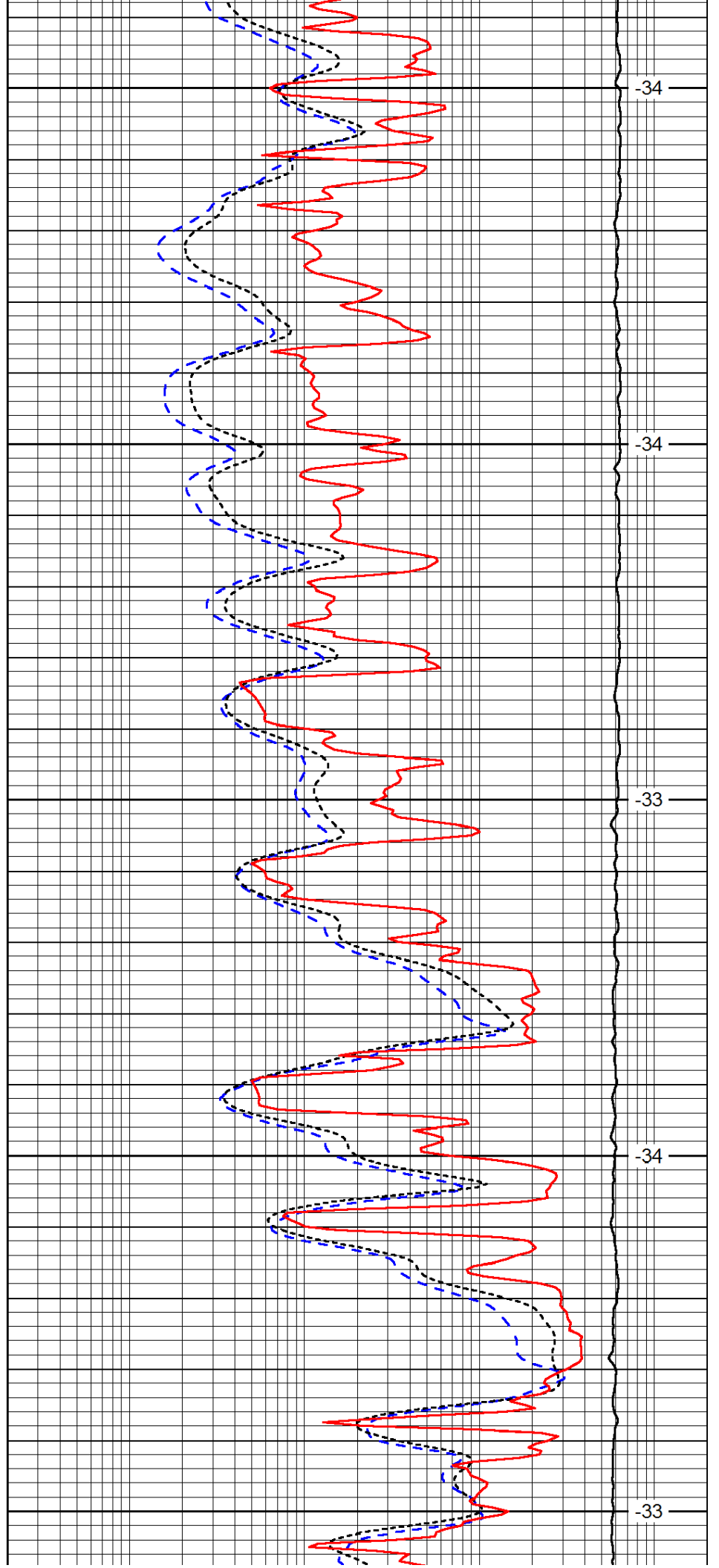
3850

3900

3950

4000

4050



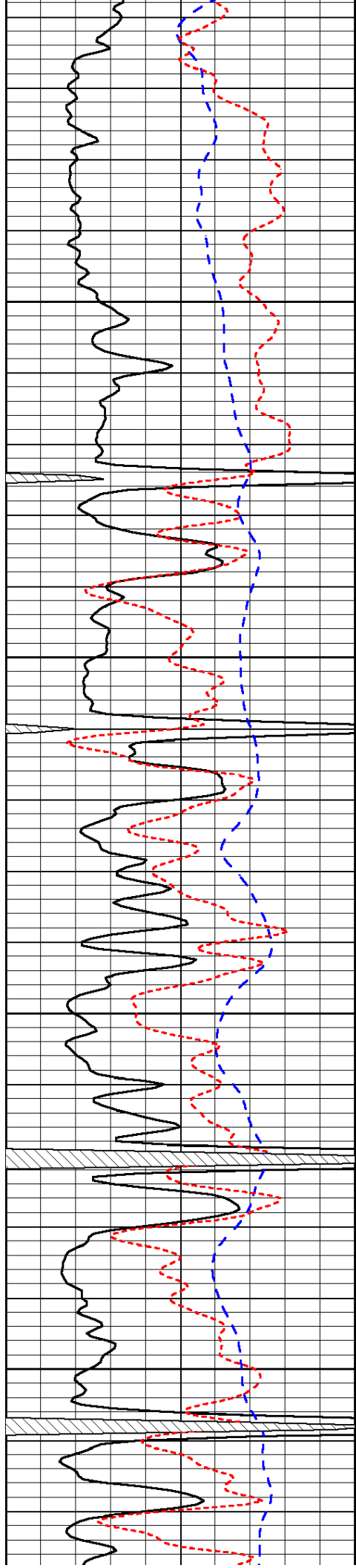
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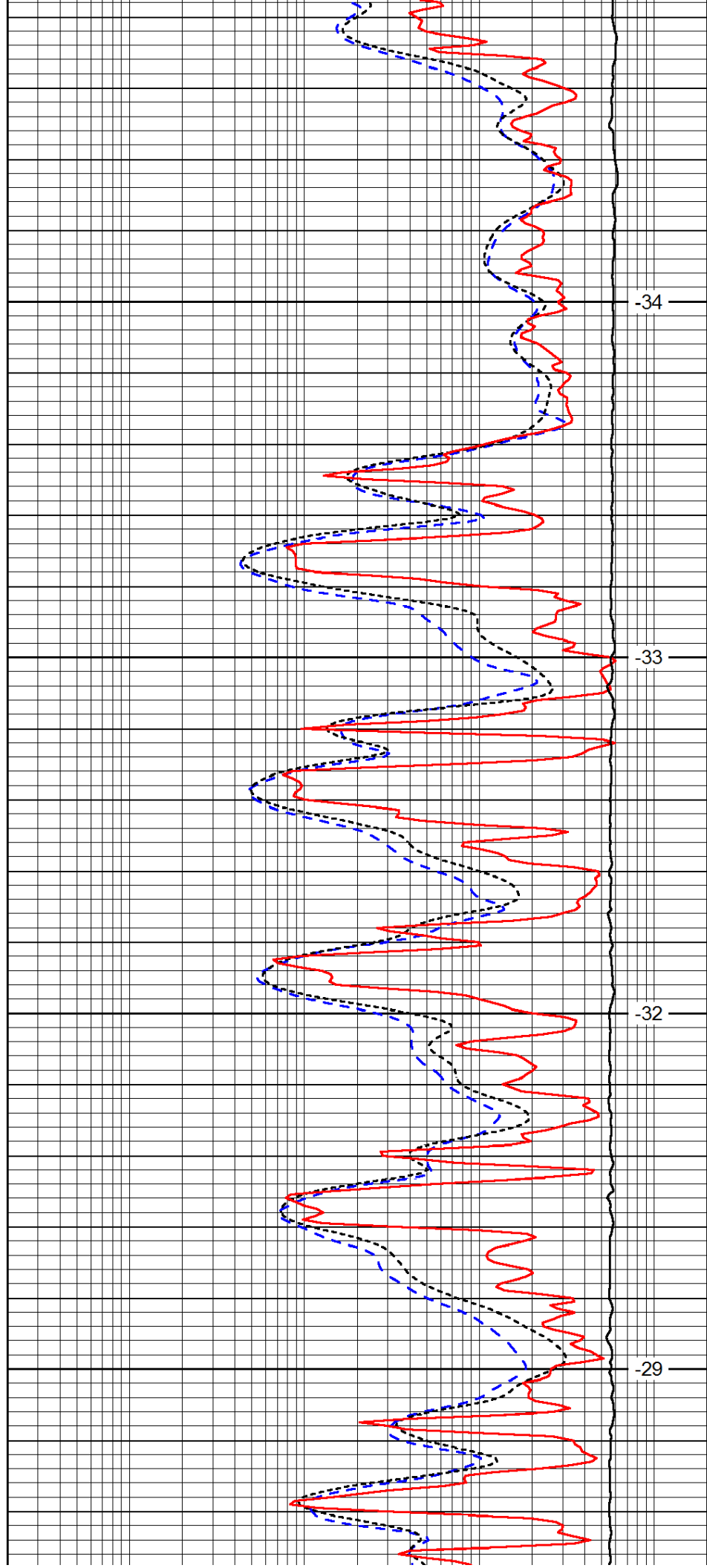


4100

4150

4200

4250

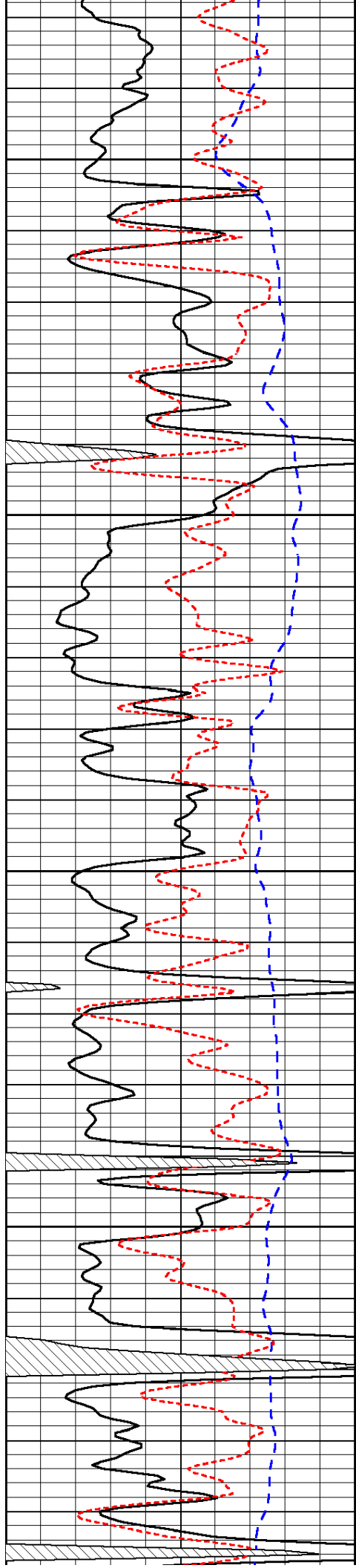


-34

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-32

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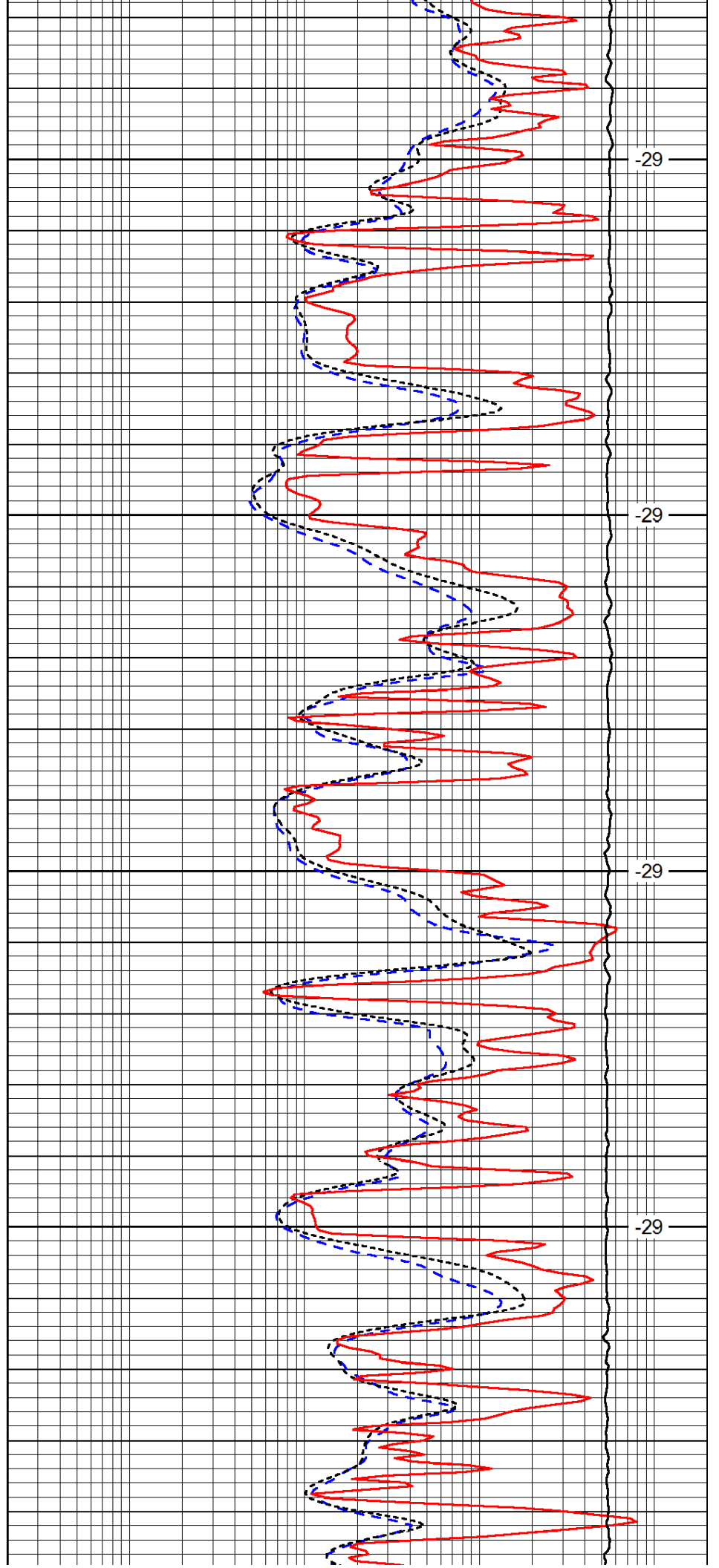


4300

4350

4400

4450

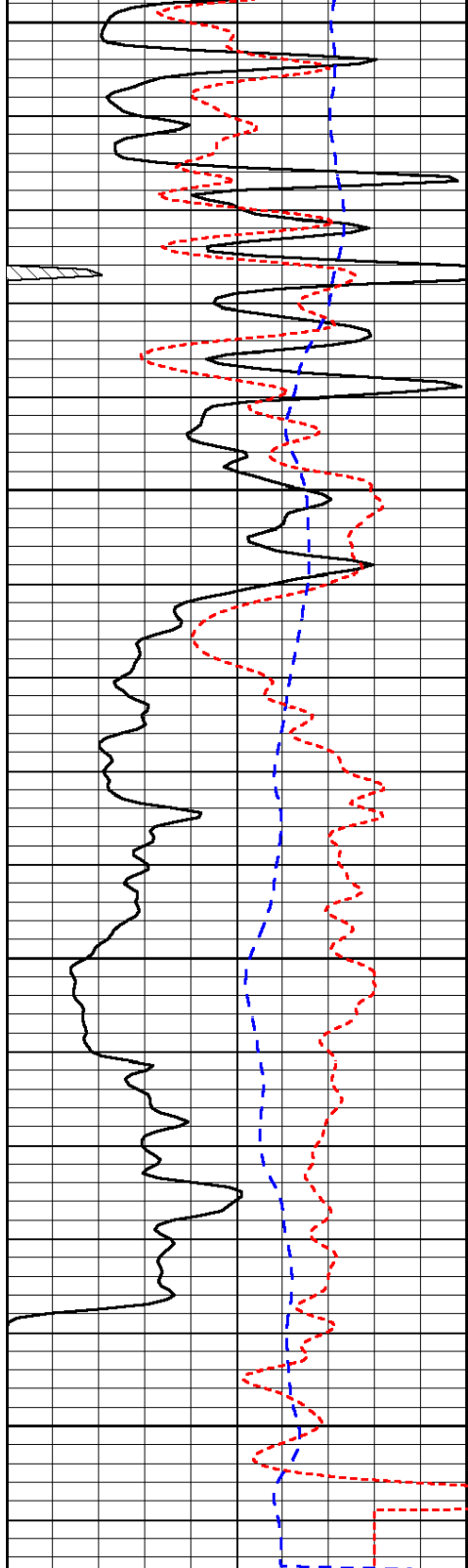


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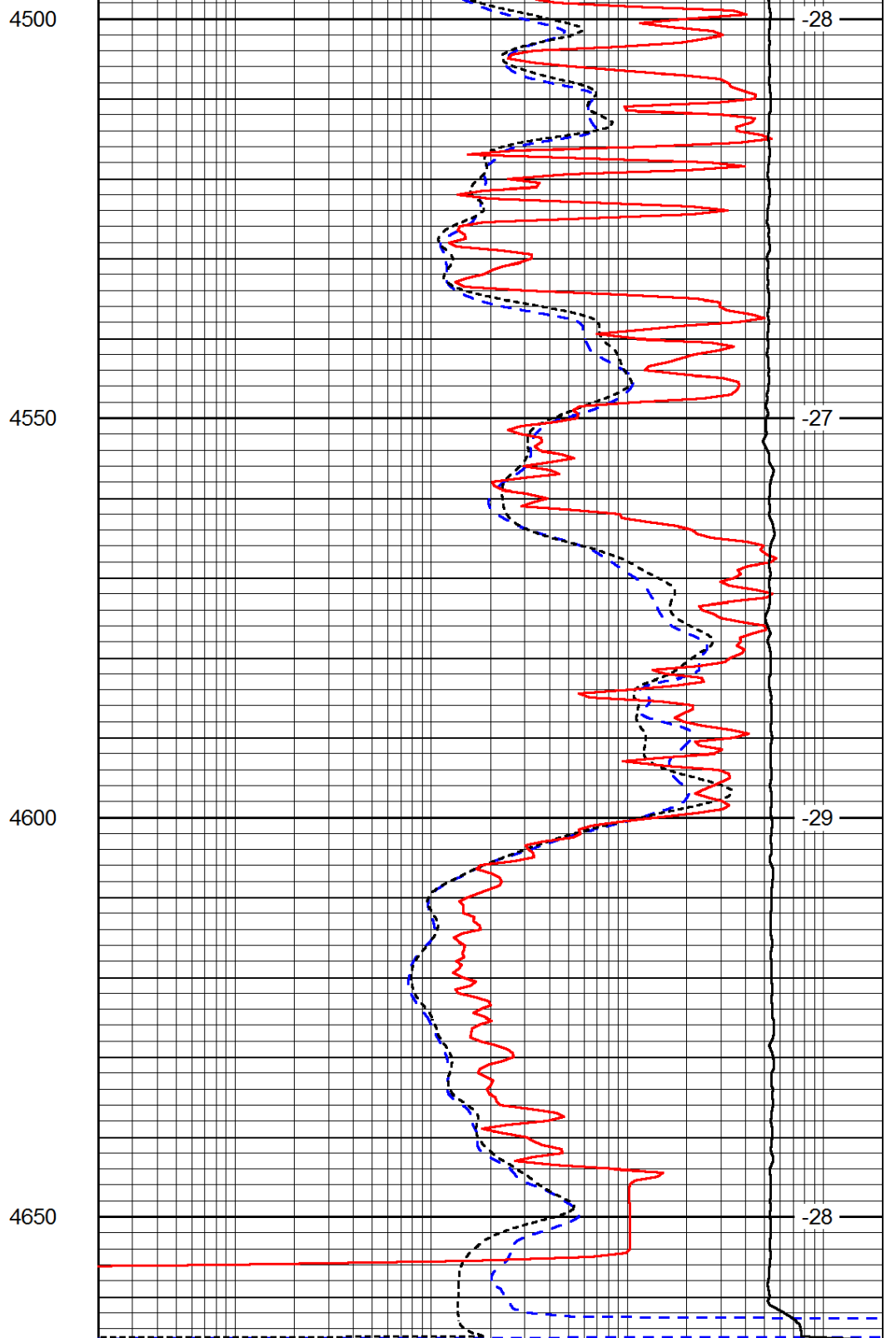
-29

-29

-29



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



DIGITAL LOG

(785) 625-3858

Dual Compensated
Porosity Log

15-101-22361-00-00

Company **Credo Petroleum Corporation**
 Well **Grace #1-15**
 Field **North Trail**
 County **Lane** State **Kansas**

Location **E2 NW NE NW
330' FNL / 1920' FWL**

Sec: 15 Twp: 17S Rge: 29W

Other Services
DIL
MEL / BHCS

Permanent Datum **Ground Level** Elevation **2801**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

K.B. 2806
D.F.
G.L. 2801

Date	4/5/2012	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4660	
Depth Logger	4660	
Bottom Logged Interval	4639	
Top Logged Interval	3500	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	2400	
Density	9.4	
Level	Full	
Max. Rec. Temp. F	123	
Operating Rig Time	5 Hours	
Equipment -- Location	15 Hays	
Recorded By	R. Barnhart	
Witnessed By	Bruce Ard	

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	255	8.625	24#	00	255
2	7.875	255	4660				

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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

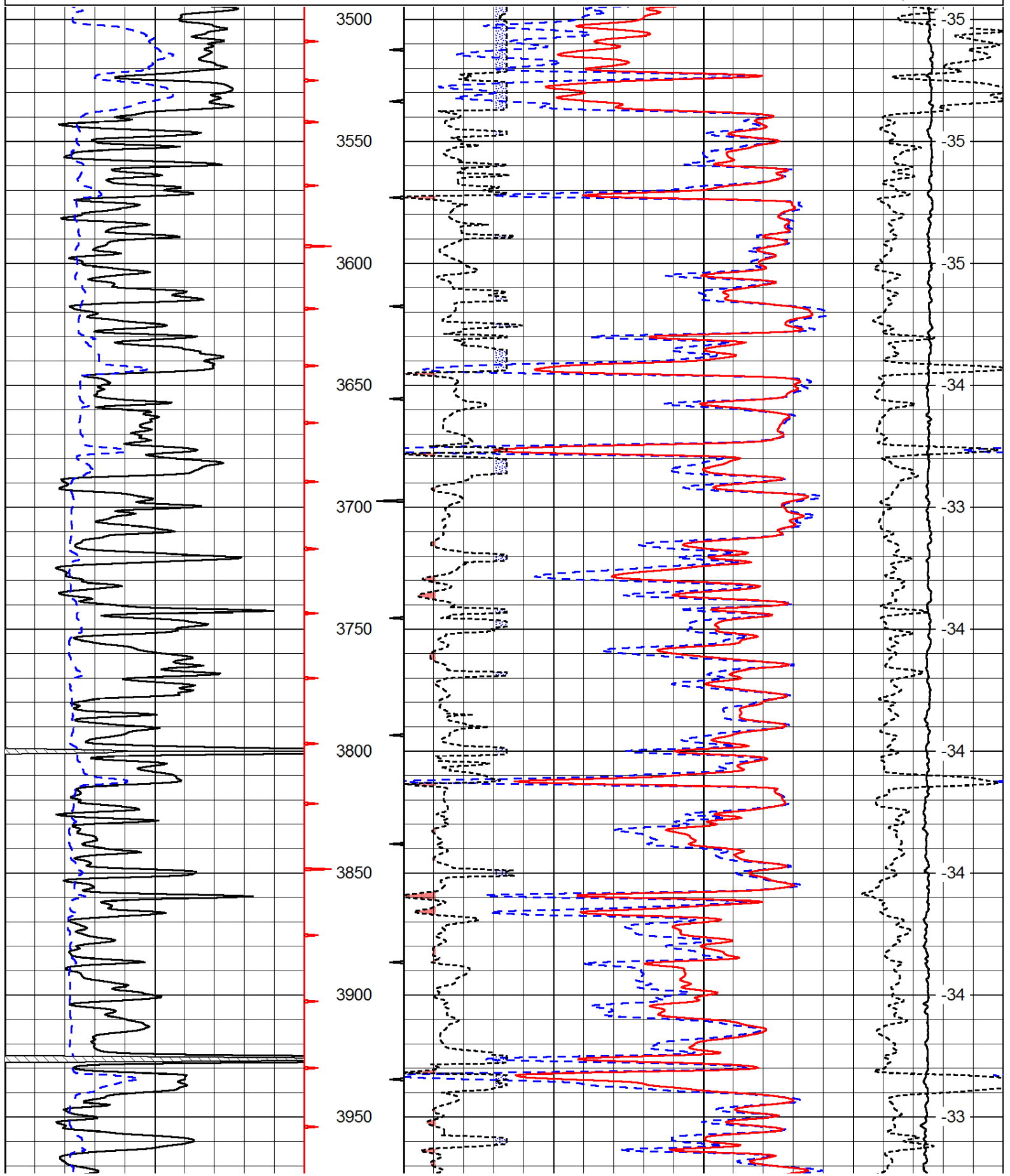
Thank you for using Log-Tech, Inc.
(785) 625-3858

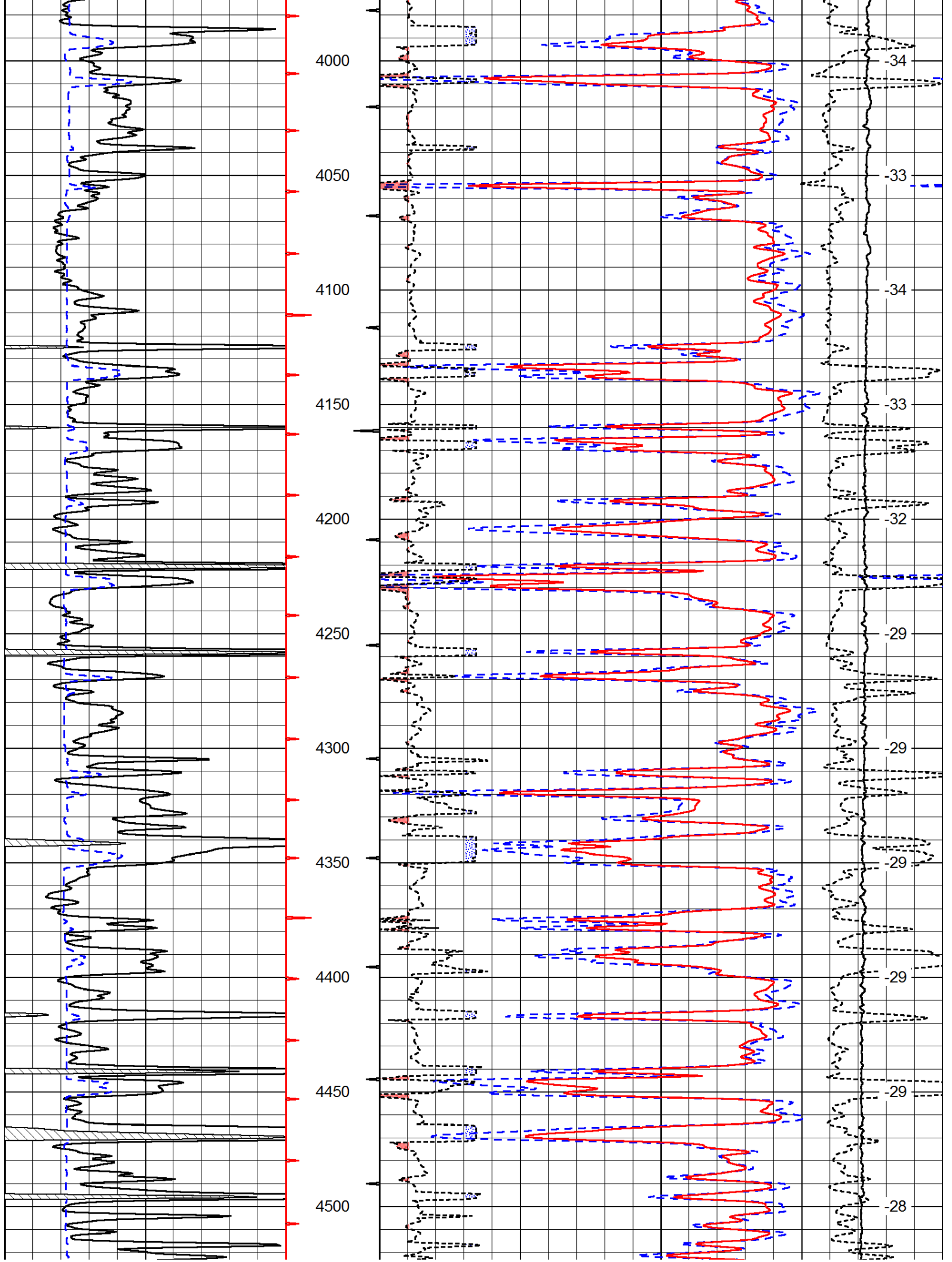
Healy, KS:
Hwy 83 & Hwy 4: 3W to Ike Rd.
2S, 1/4E, S into

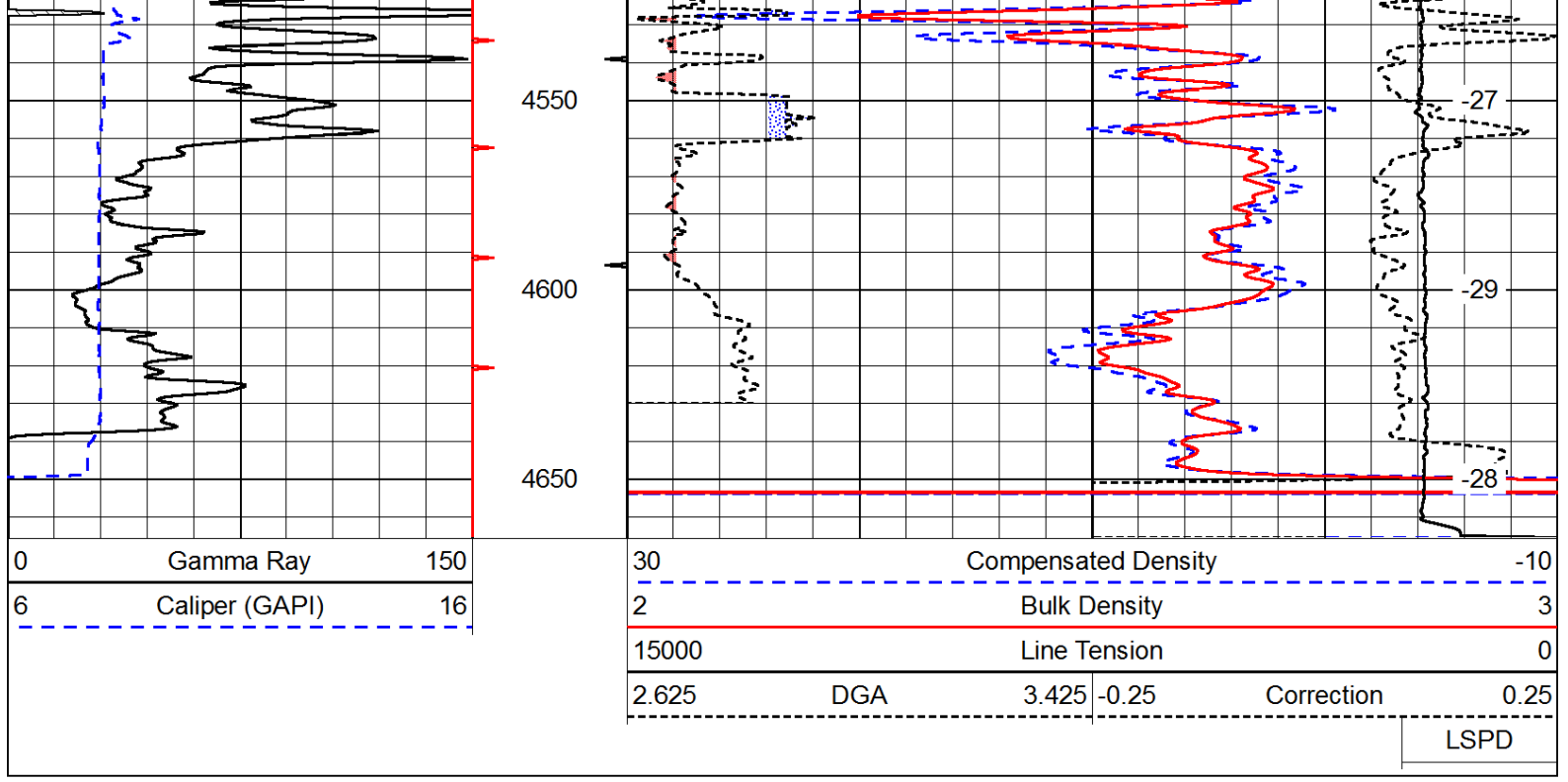
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 Dataset Pathname: dil/crdmain
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 Dataset Creation: Thu Apr 05 10:20:46 2012
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

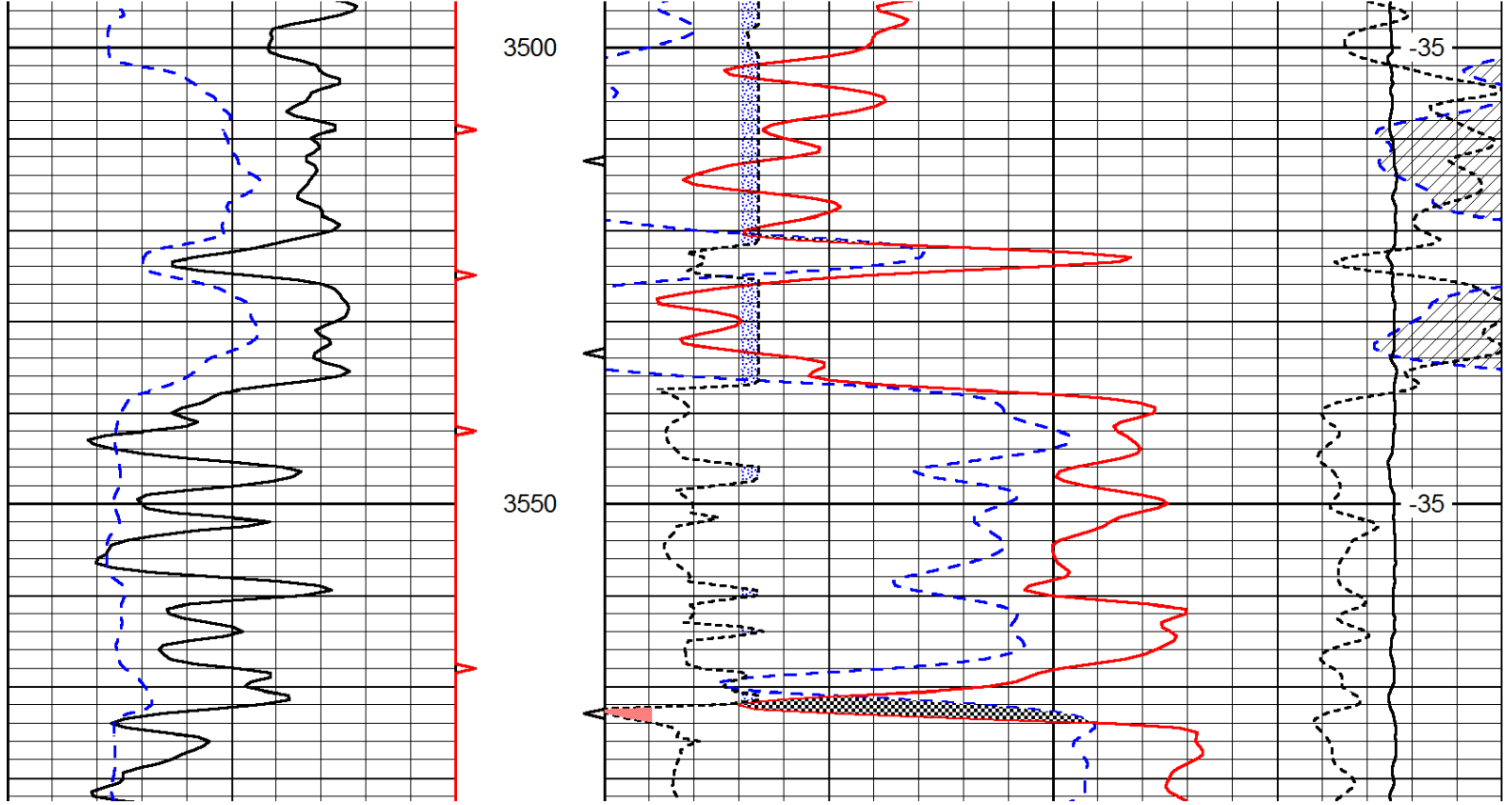
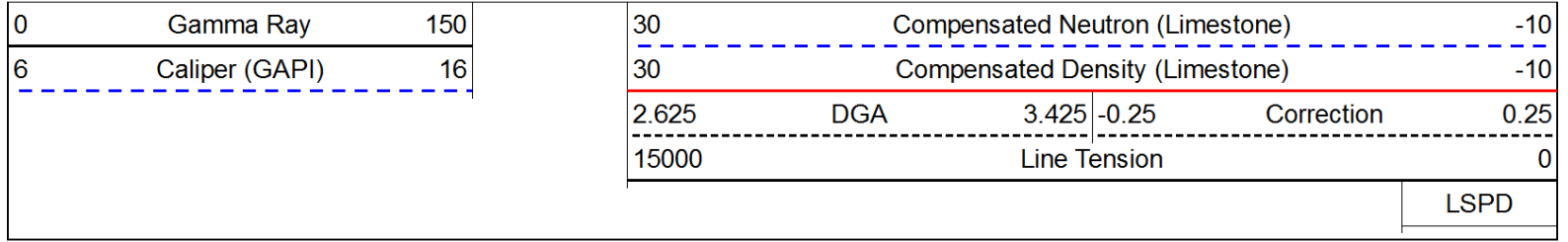
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
LSPD			

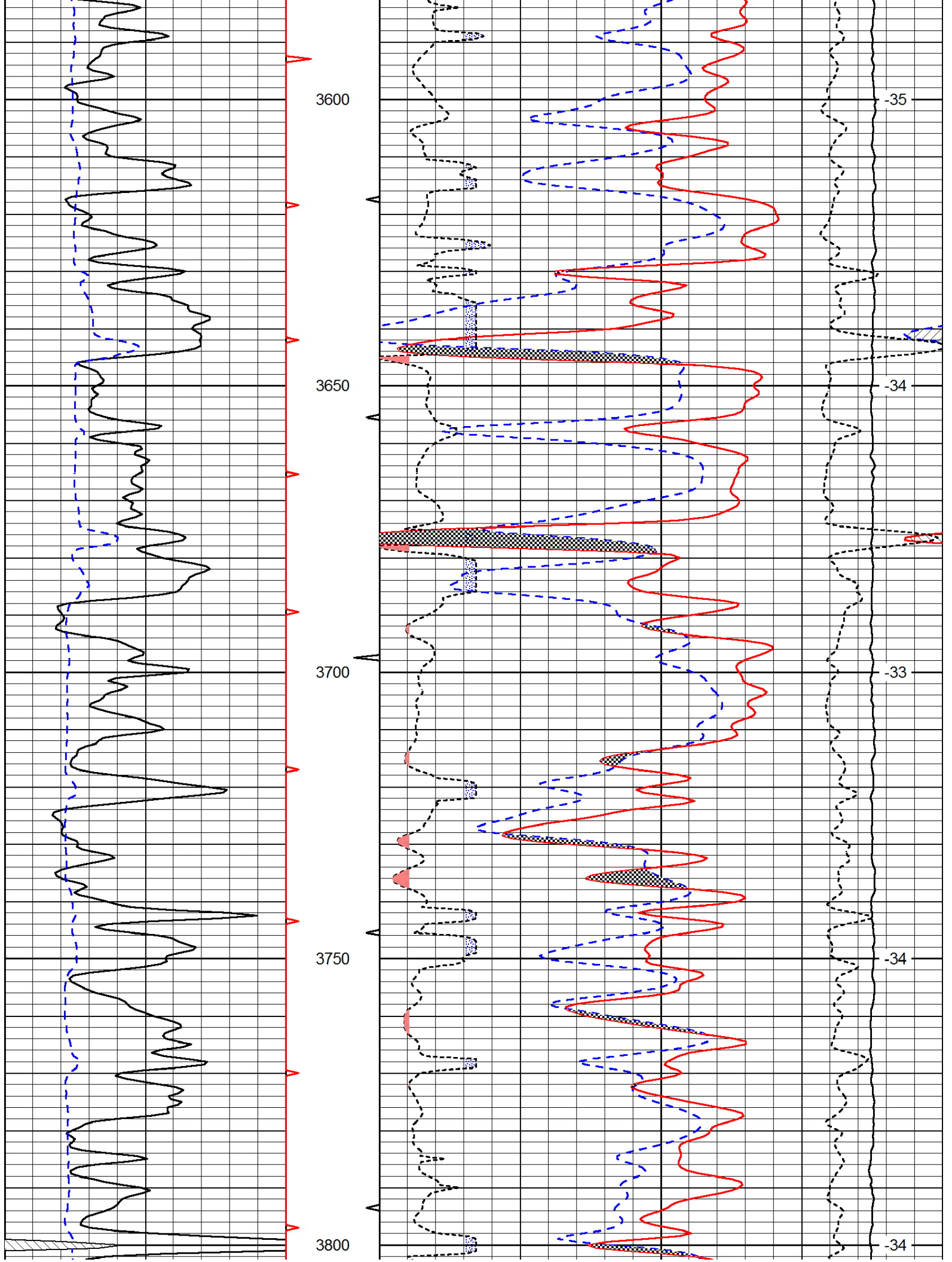


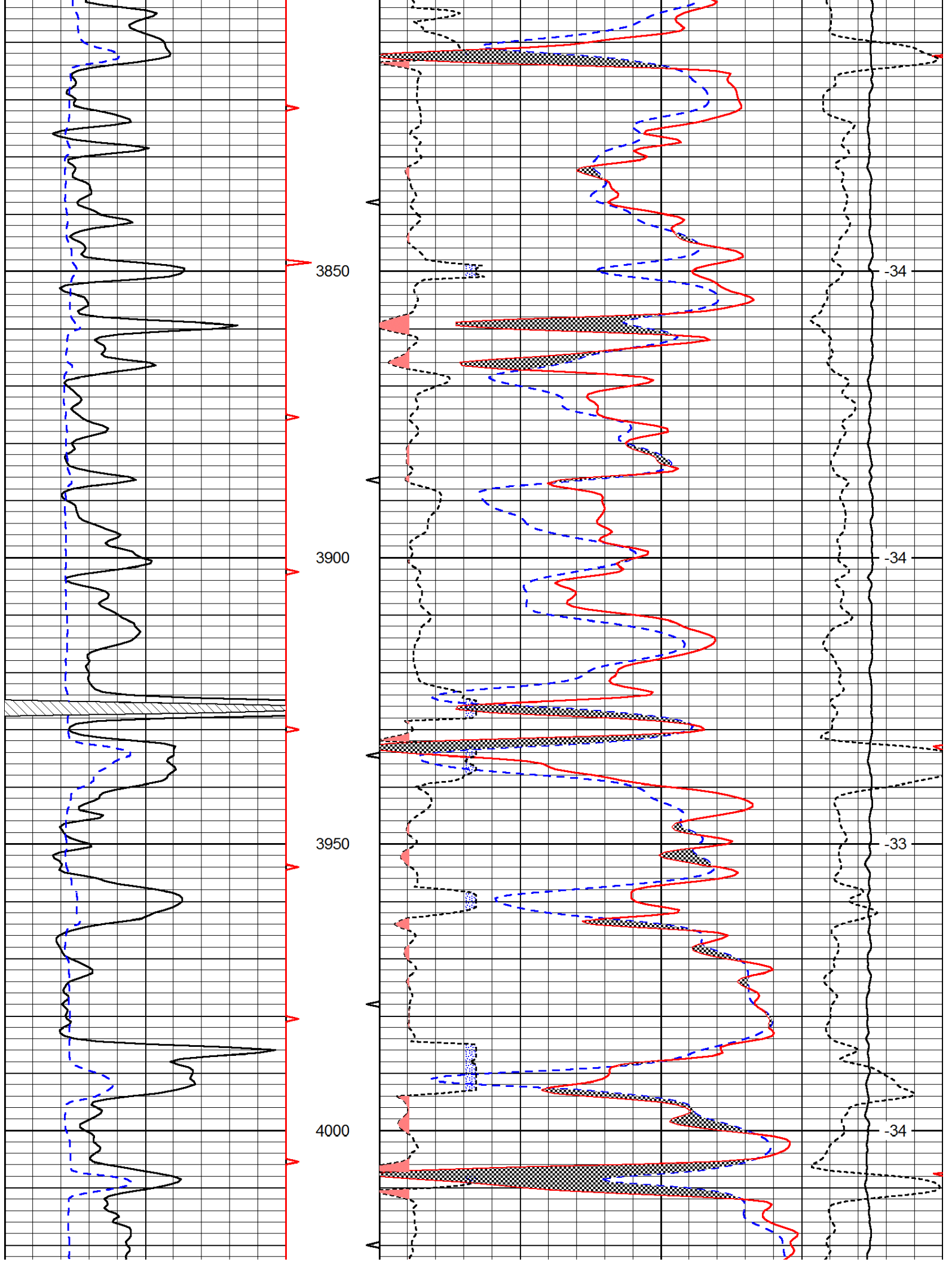


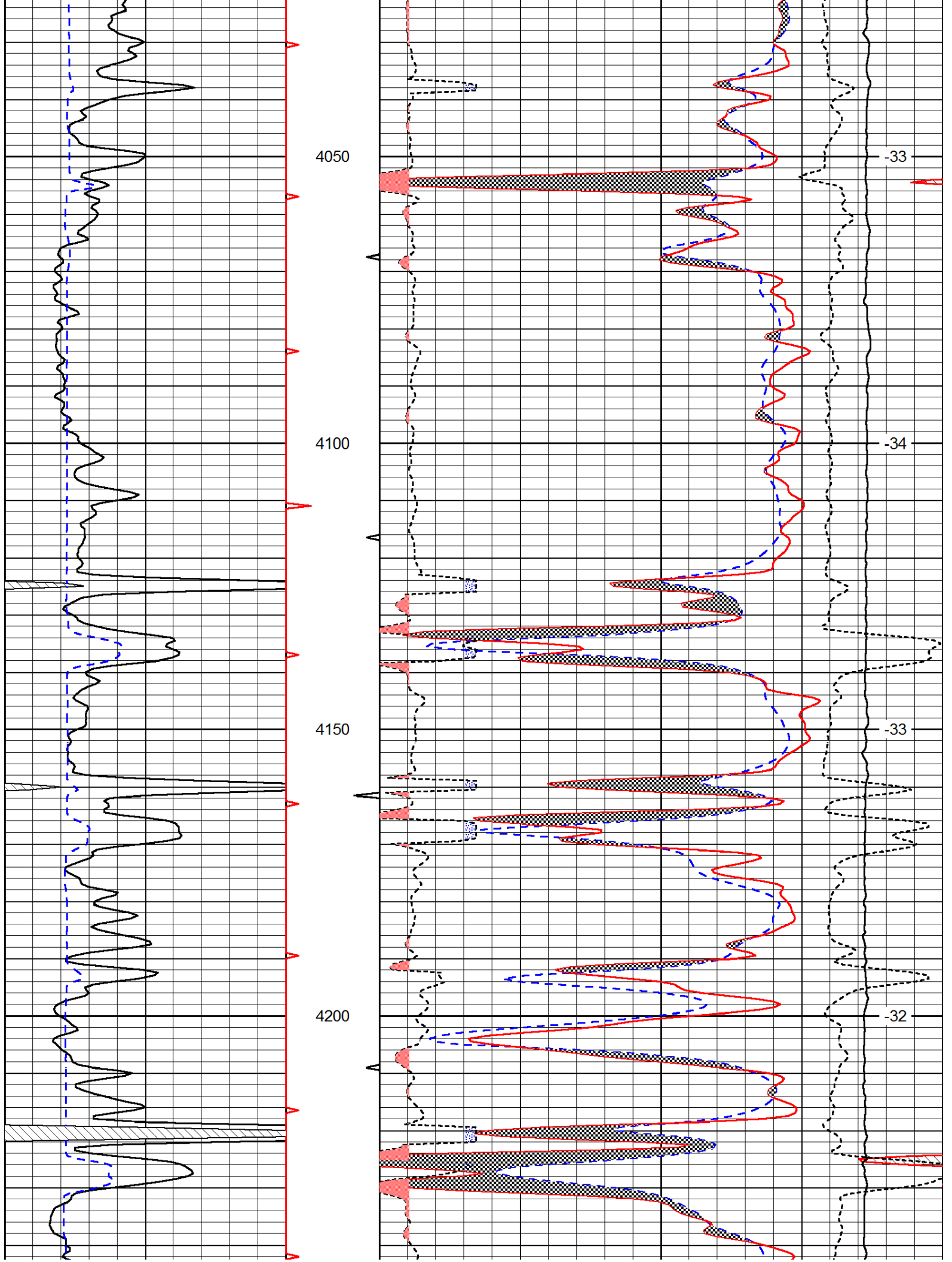


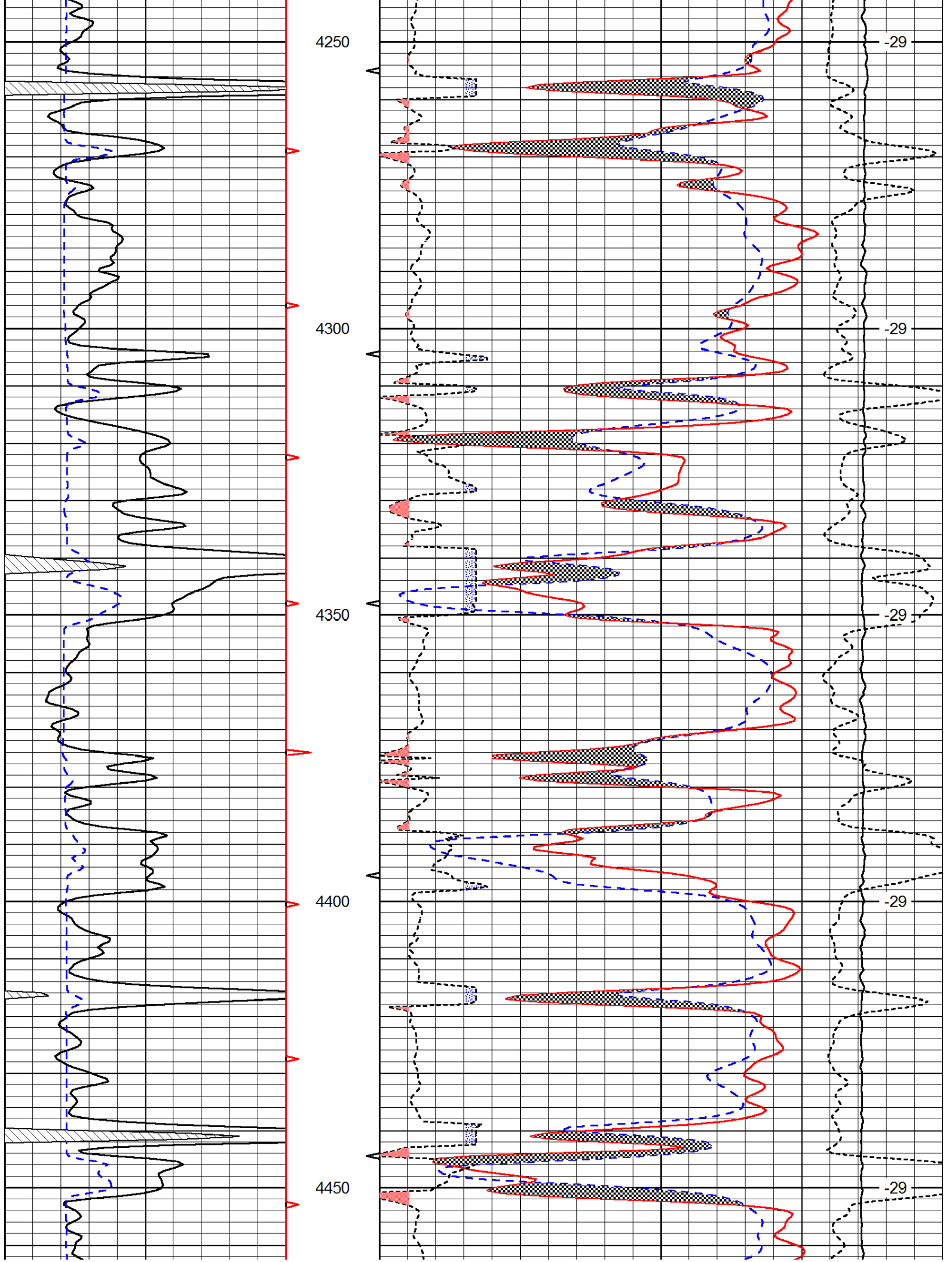
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 Charted by: Depth in Feet scaled 1:240

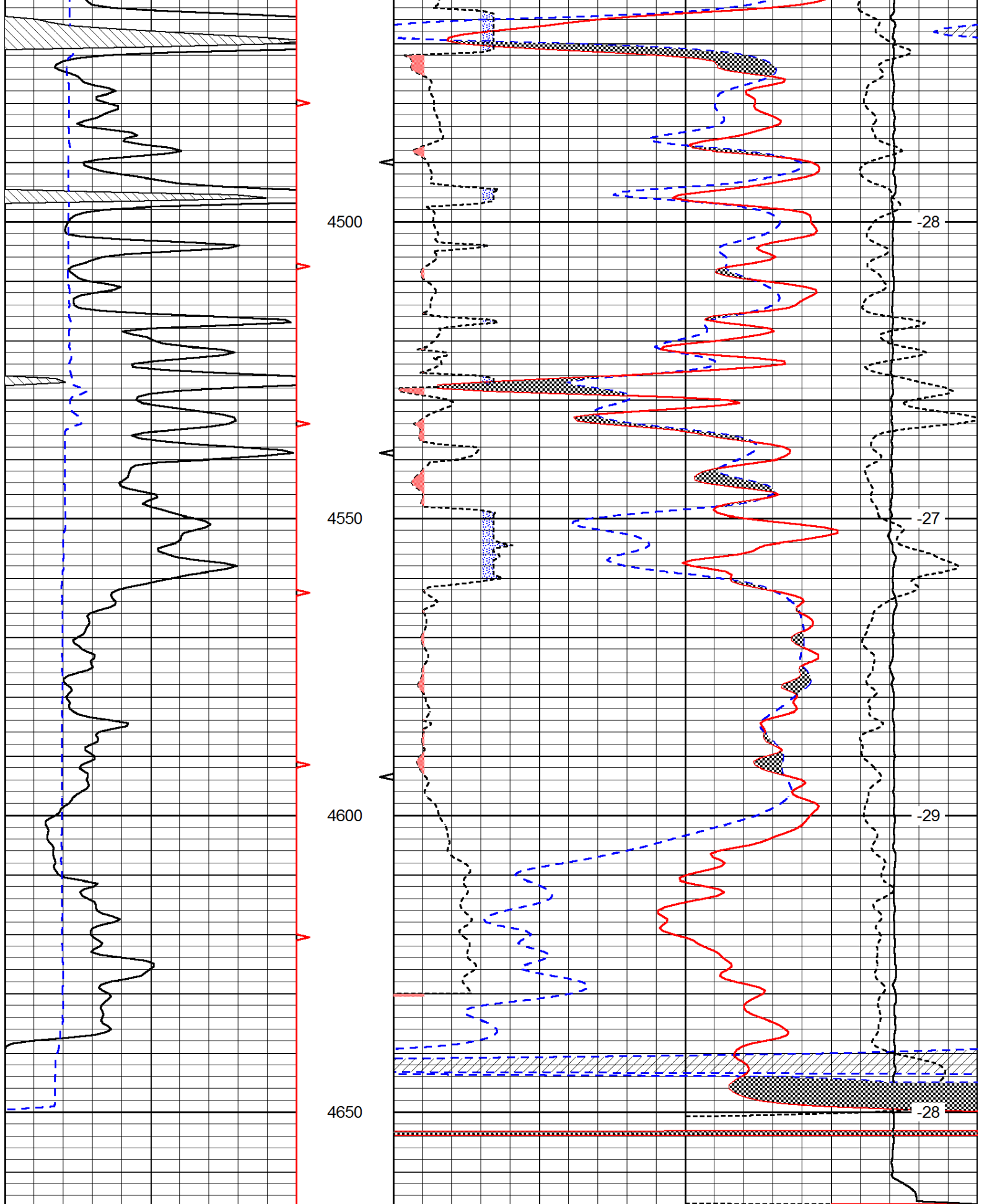












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10

2.625	DGA	3.425	-0.25	Correction	0.25
15000		Line Tension			n



Microresistivity Log

DIGITAL LOG (785) 625-3858

15-101-22361-00-00

API No.

Company Credo Petroleum Corporation

Well Grace #1-15

Field North Trail

County Lane State

Kansas

Location

E2 NW NE NW
330' FNL / 1920' FWL

Other Services
CNL / CDL
DIL / BHCS

Sec: 15 Twp: 17S Rge: 29W

Permanent Datum Ground Level Elevation 2801
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 2806
D.F.
G.L. 2801

Date 4/5/2012

Run Number Two

Depth Driller 4660

Depth Logger 4660

Bottom Logged Interval 4659

Top Log Interval 3500

Casing Driller 8.625 @ 255

Casing Logger 251

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2400

Density / Viscosity 9.4 48

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.90 @ 62

Rmf @ Meas. Temp 0.68 @ 62

Rmc @ Meas. Temp 1.22 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT 0.46 @ 123

Operating Rig Time 5 Hours

Max Rec. Temp. F 123

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Bruce Ard

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Comments

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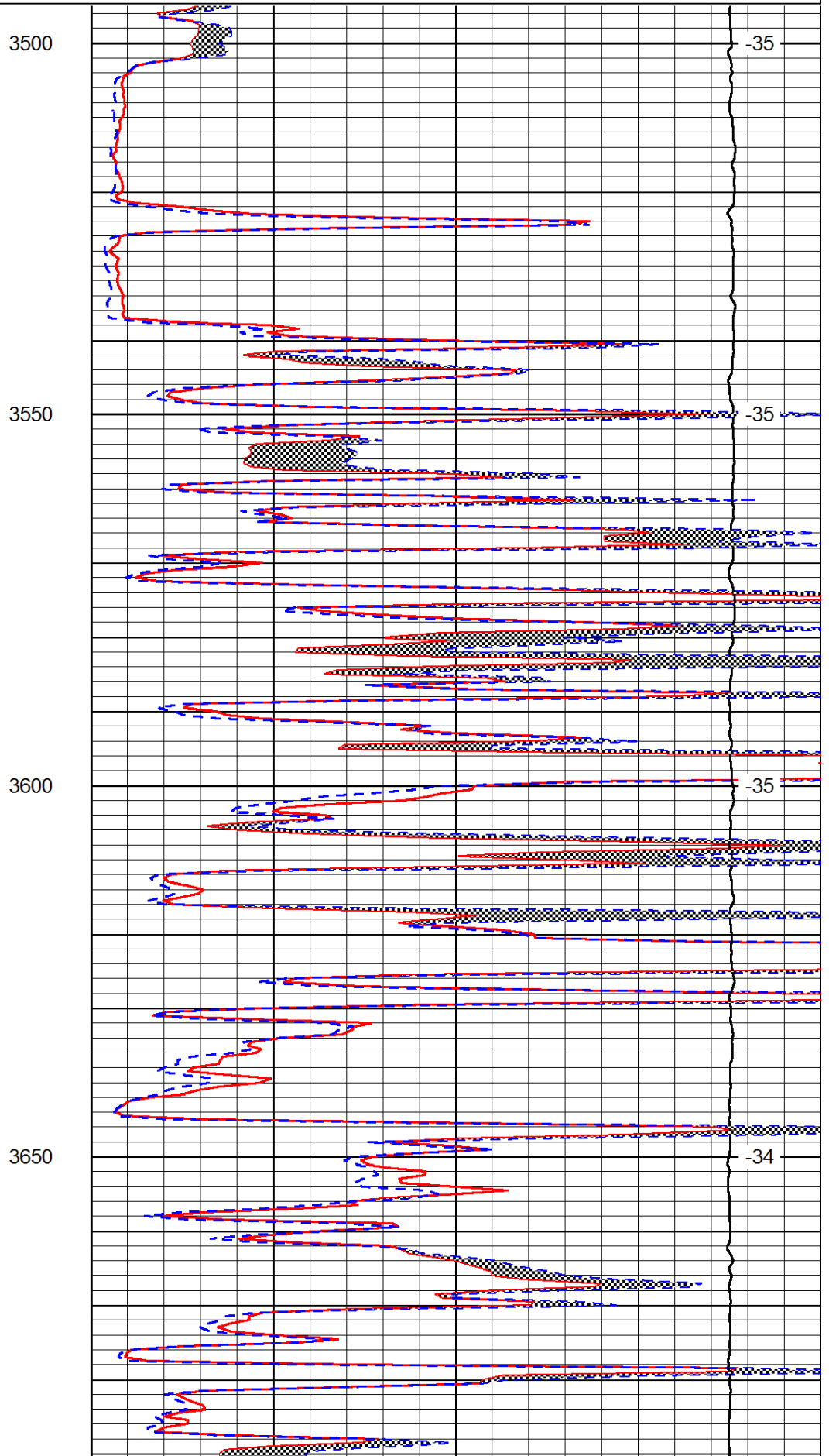
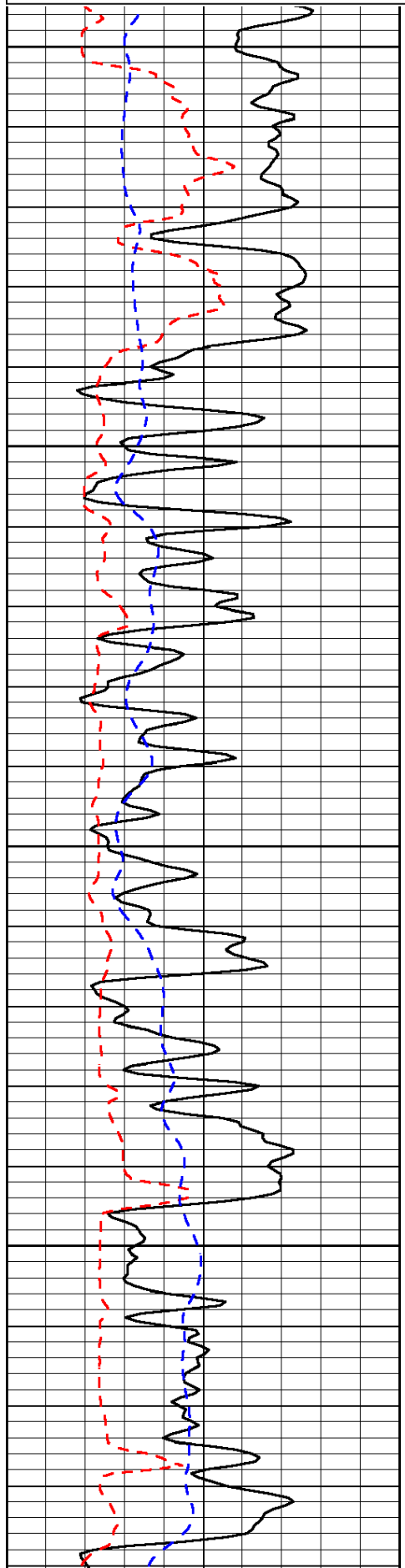
Healy, KS:
Hwy 83 & Hwy 4: 3W to Ike Rd.
2S, 1/4E, S into

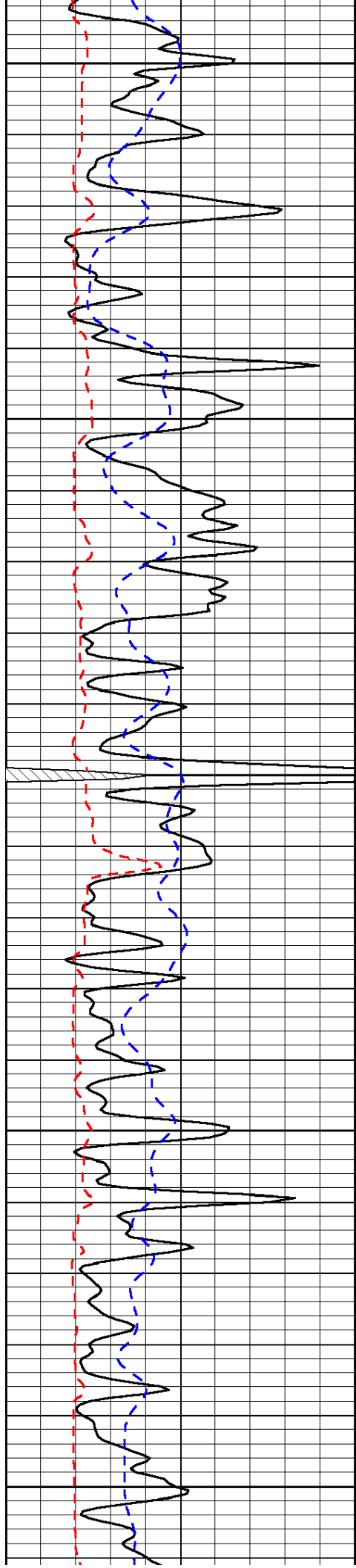
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Dataset Pathname: dil/crdmain
Presentation Format: micro
Dataset Creation: Thu Apr 05 10:20:46 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





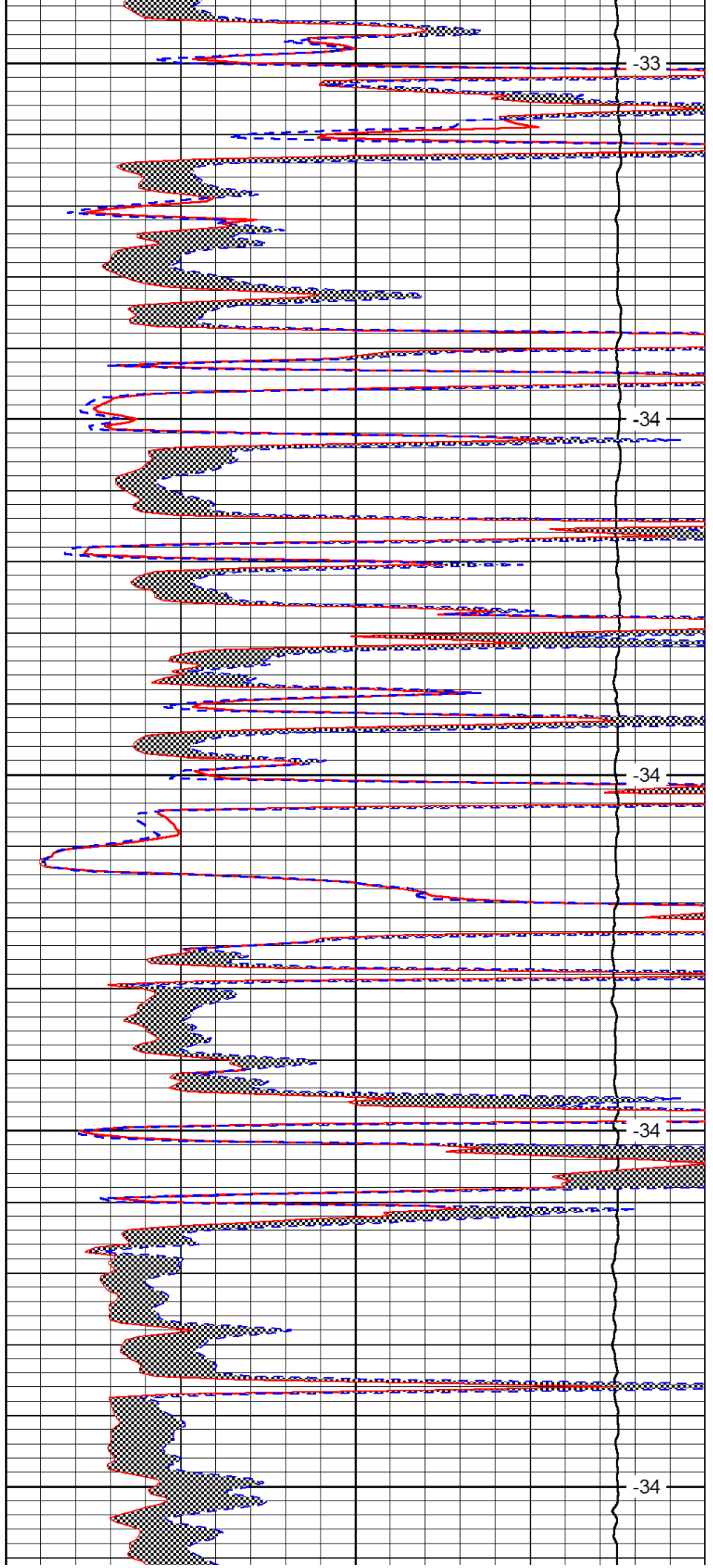
3700

3750

3800

3850

3900



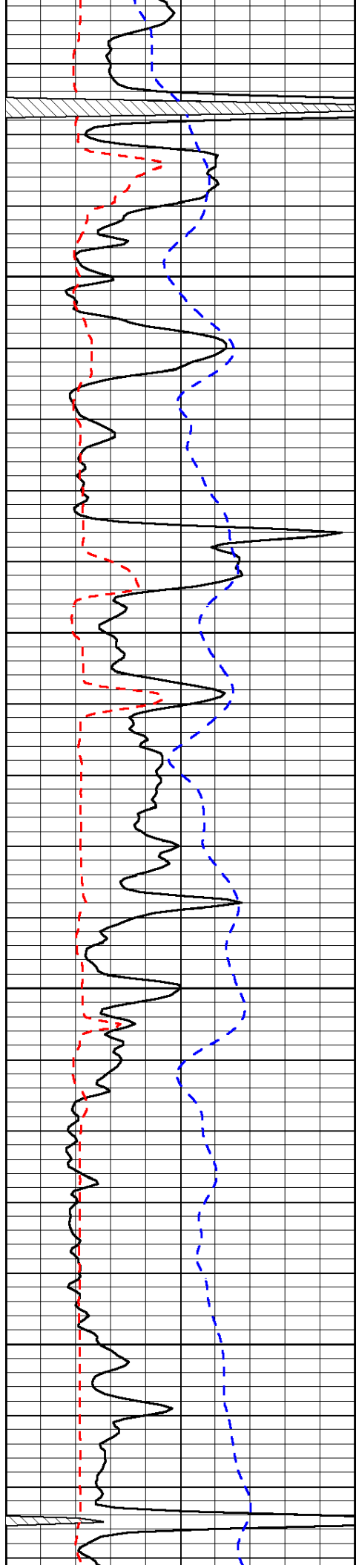
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-34

-34

-34

-34

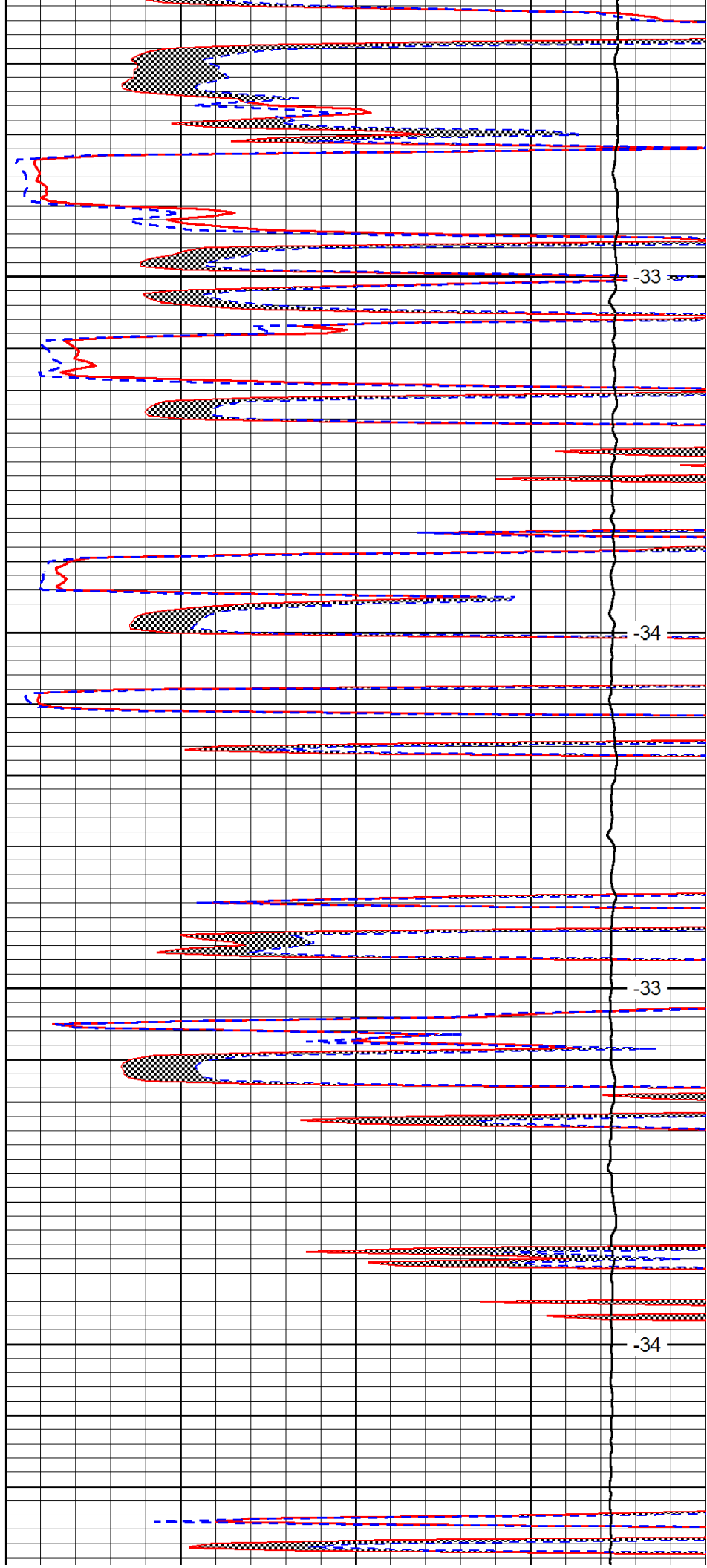


3950

4000

4050

4100

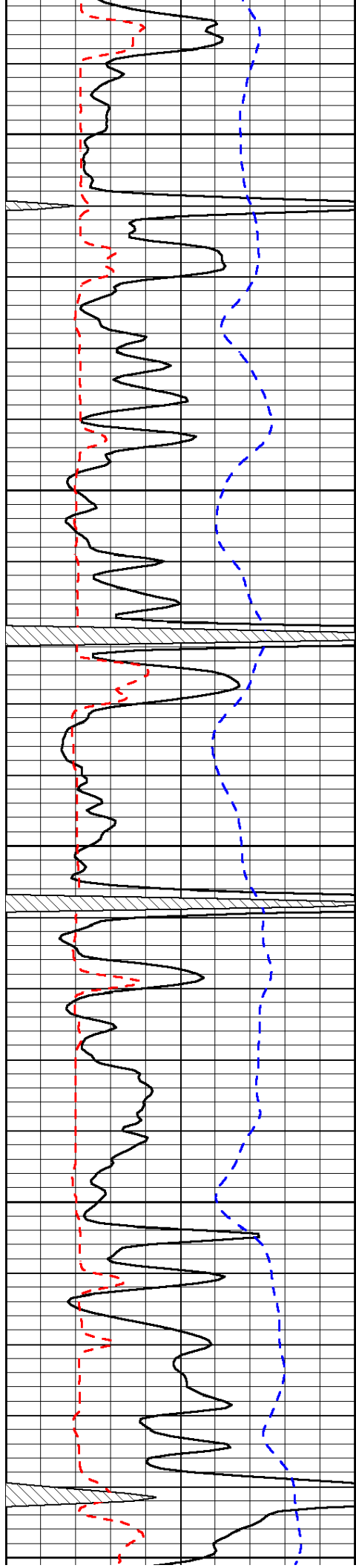


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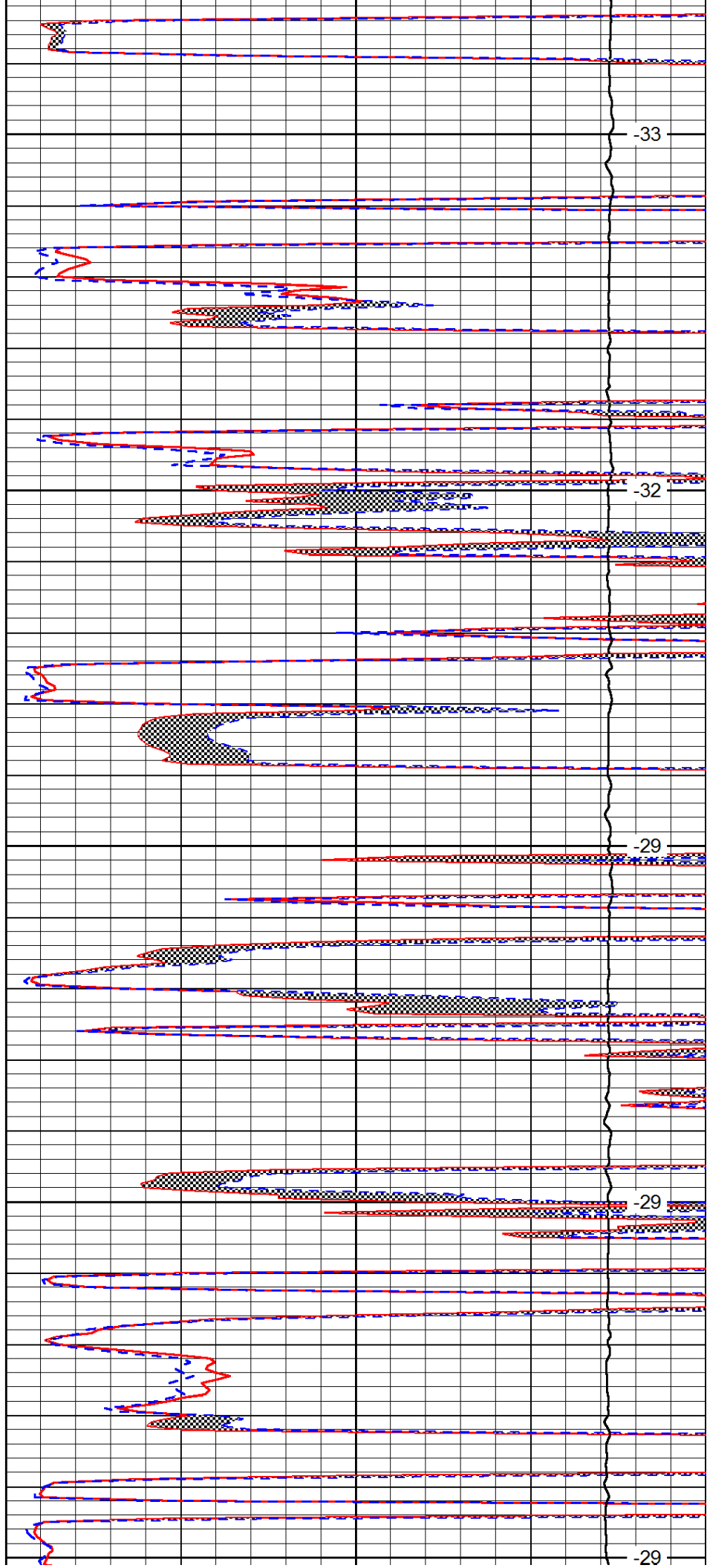
4150

4200

4250

4300

4350



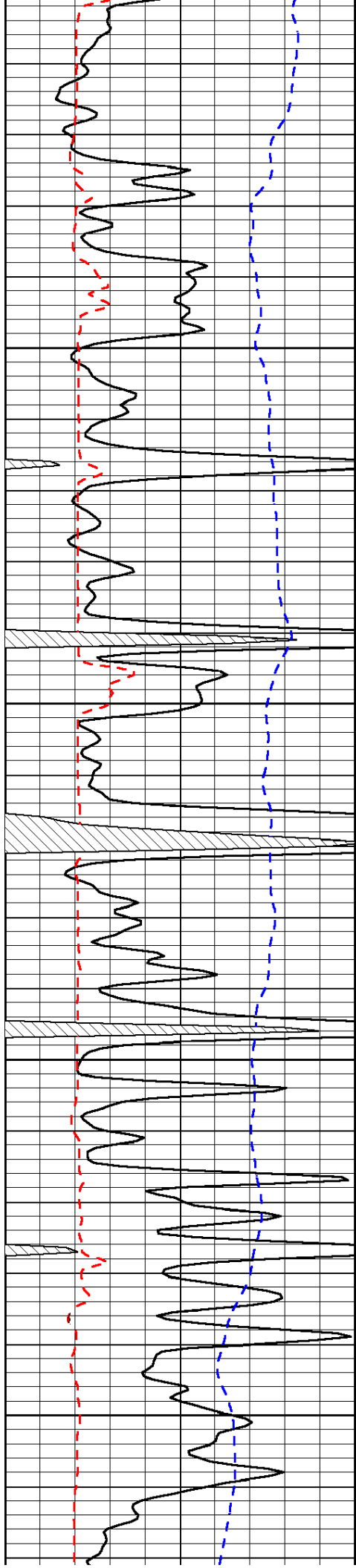
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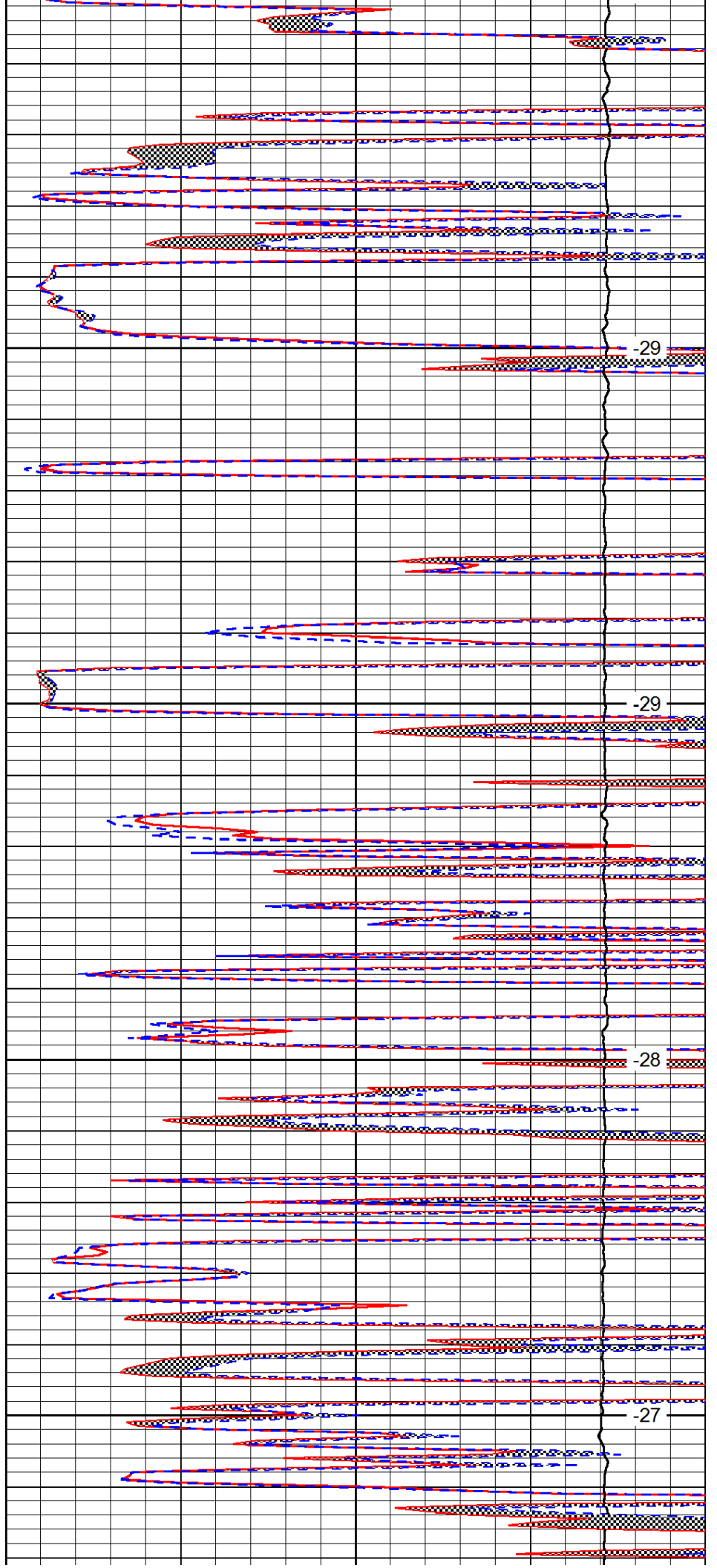


4400

4450

4500

4550

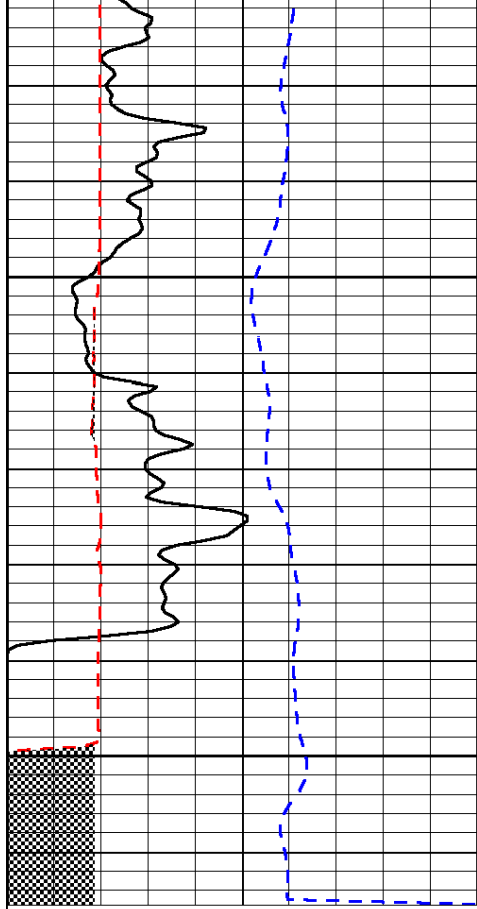


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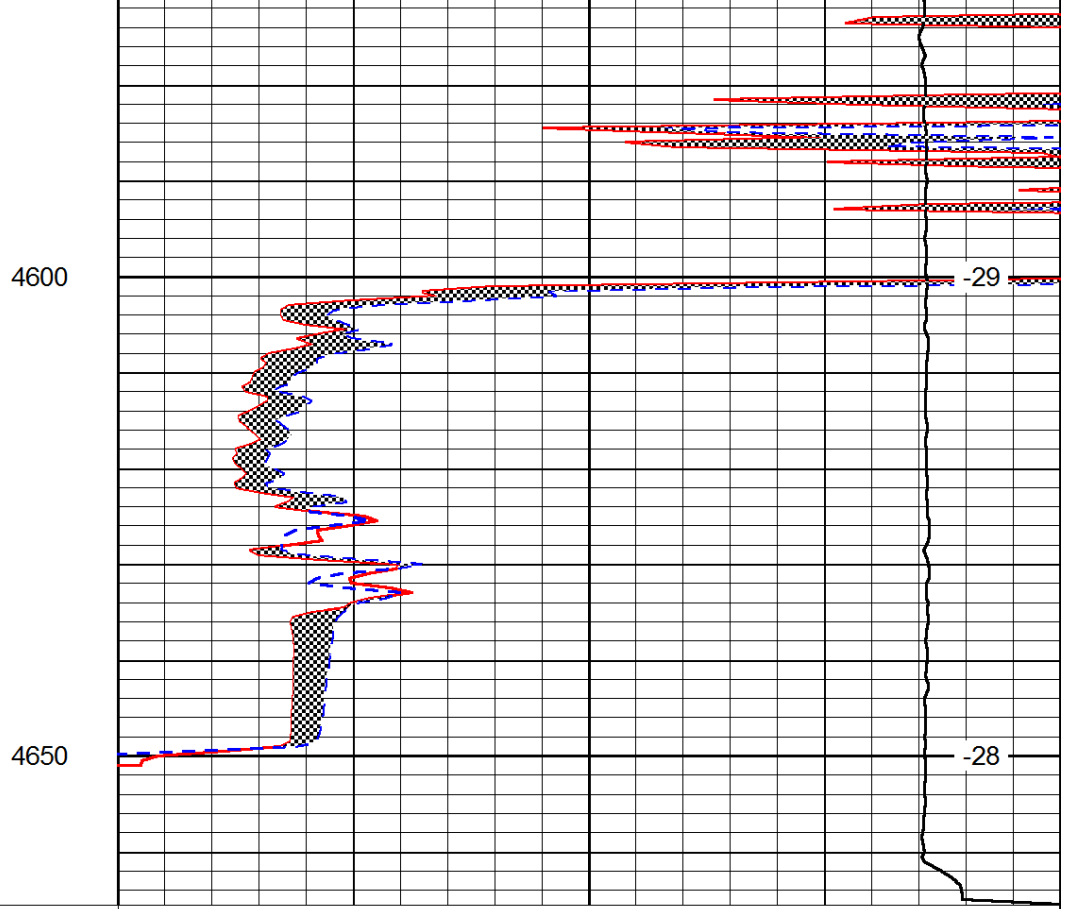
-29

-28

-27



0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
15000	Line Weight	0

LSPD



DIGITAL LOG

(785) 625-3858

Borehole Compensated
Sonic Log

15-101-22361-00-00

API No.

Company **Credo Petroleum Corporation**
Well **Grace #1-15**
Field **North Trail**
County **Lane** State **Kansas**

Location
E2 NW NE NW
330' FNL / 1920' FWL

Sec: 15 Twp: 17S Rge: 29W

Other Services
CNL / CDL
MEL / DIL

Permanent Datum Ground Level Elevation 2801
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2806
D.F.
G.L. 2801

Date	4/5/2012	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4660	
Depth Logger	4660	
Bottom Logged Interval	4649	
Top Logged Interval	200	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	2400	
Density	9.4	
Level	Full	
Max. Rec. Temp. F	123	
Operating Rig Time	5 Hours	
Equipment -- Location	15 Hays	
Recorded By	R. Barnhart	
Witnessed By	Bruce Ard	

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	255	8.625	24#	00	255
2	7.875	255	4660				

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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.

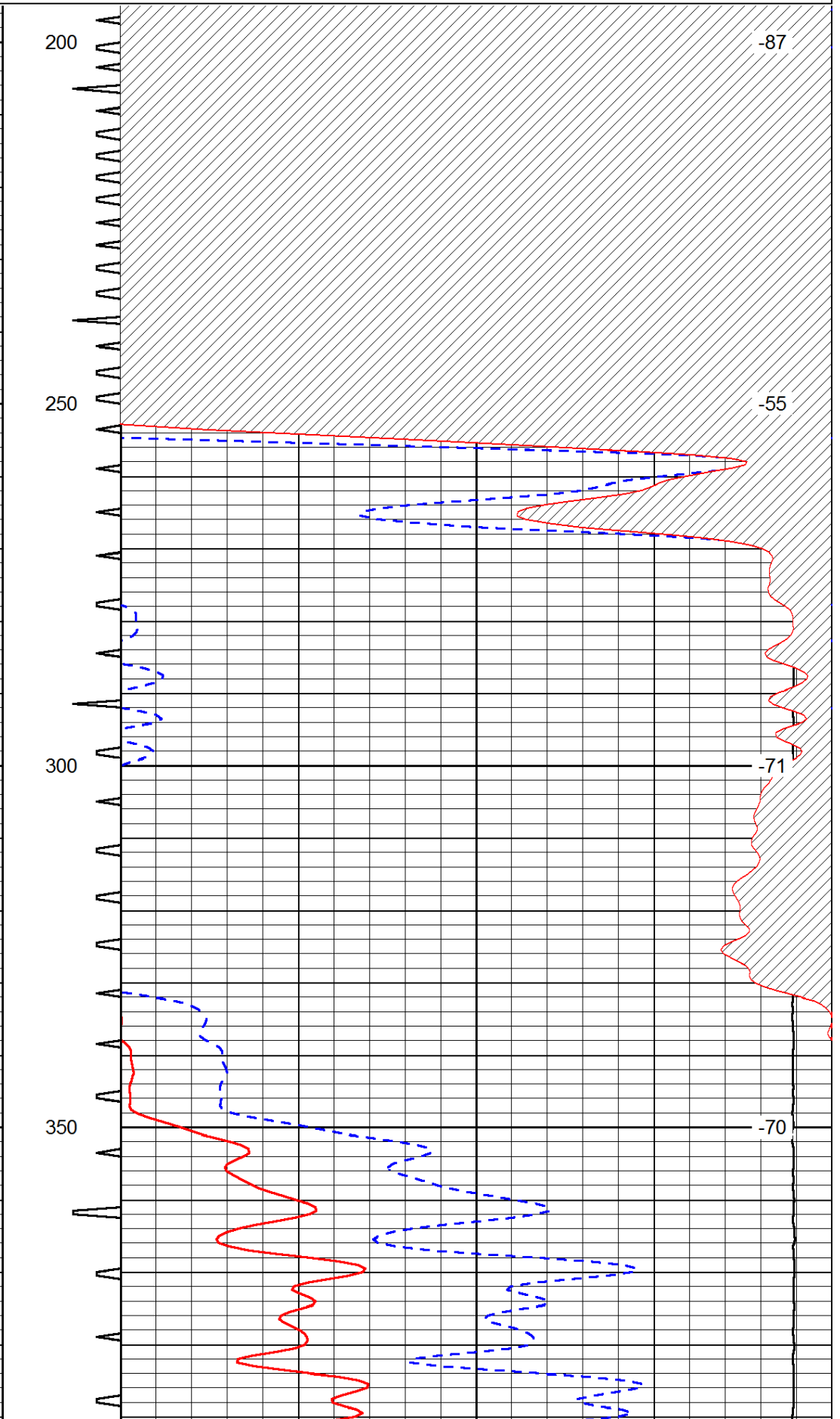
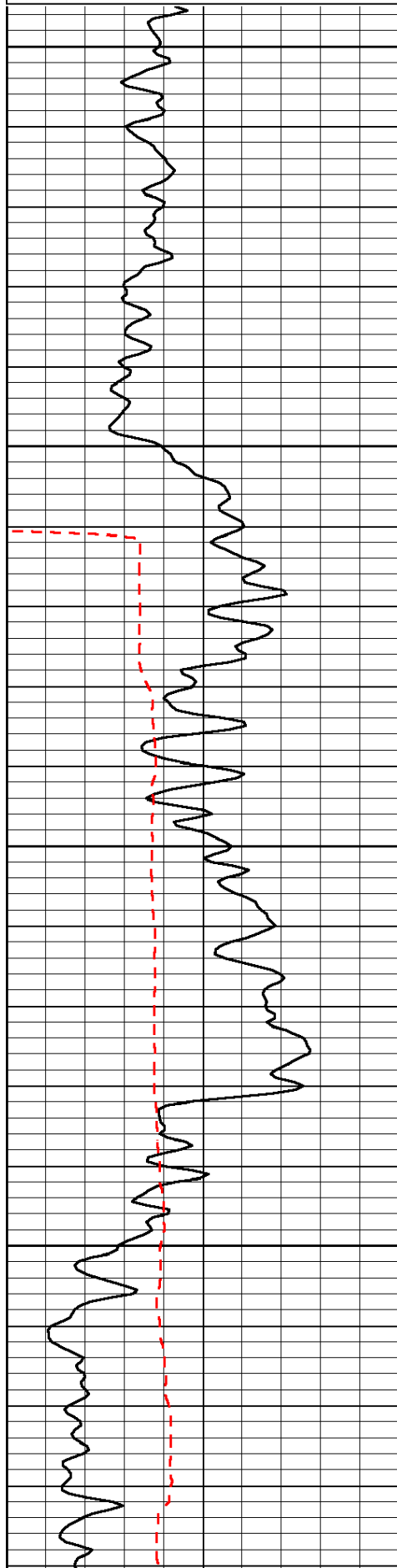
Comments

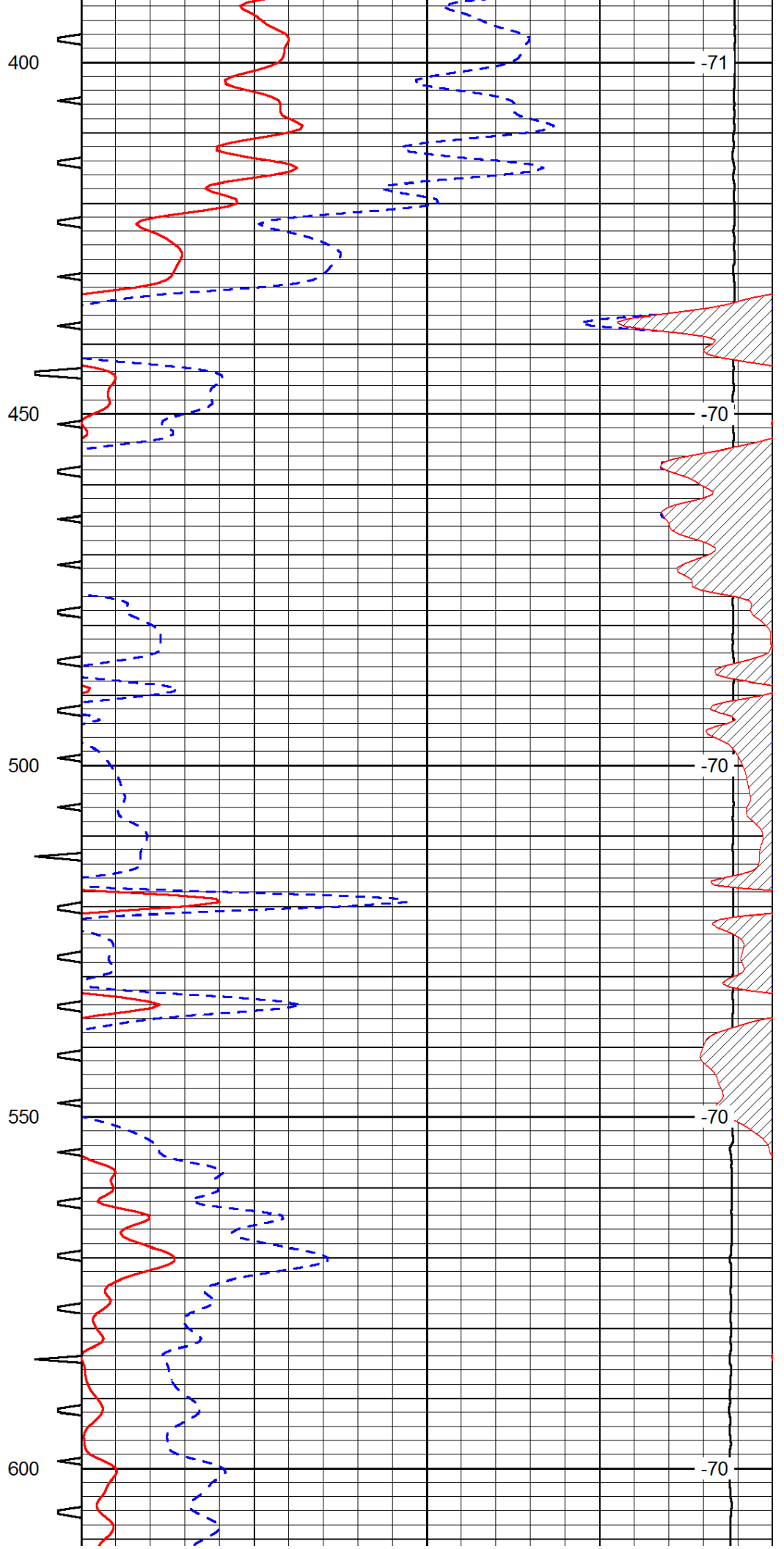
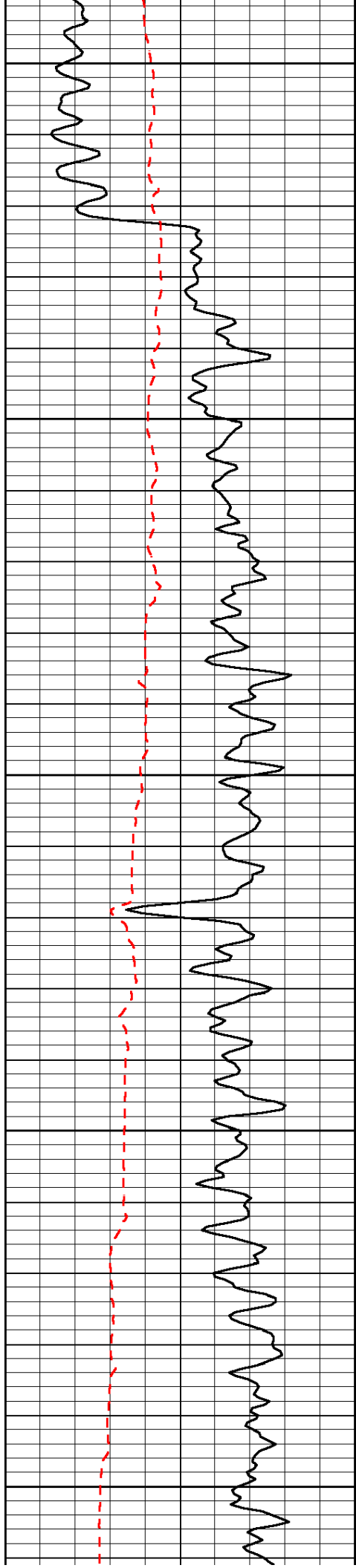
Thank you for using Log-Tech, Inc.
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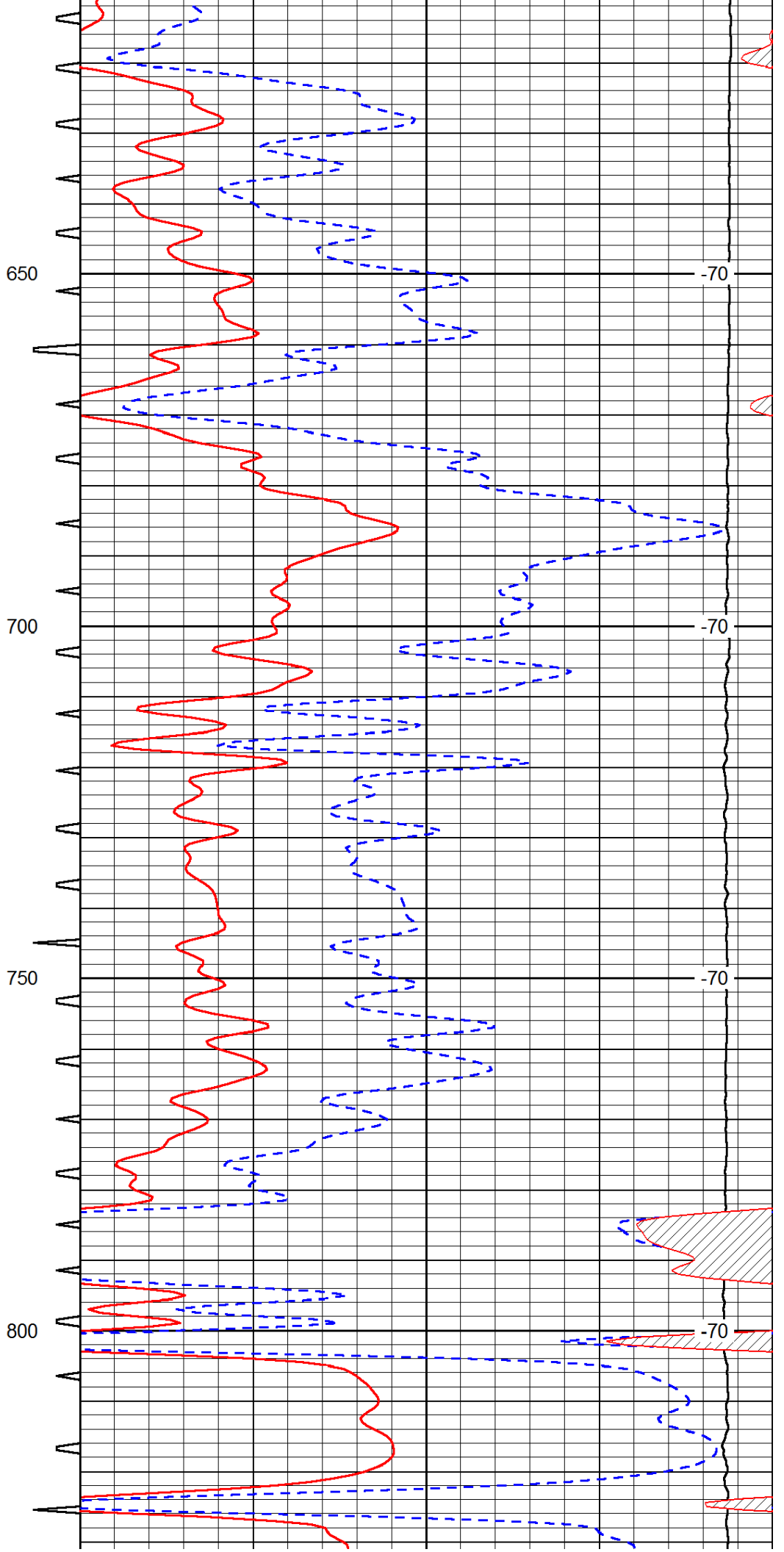
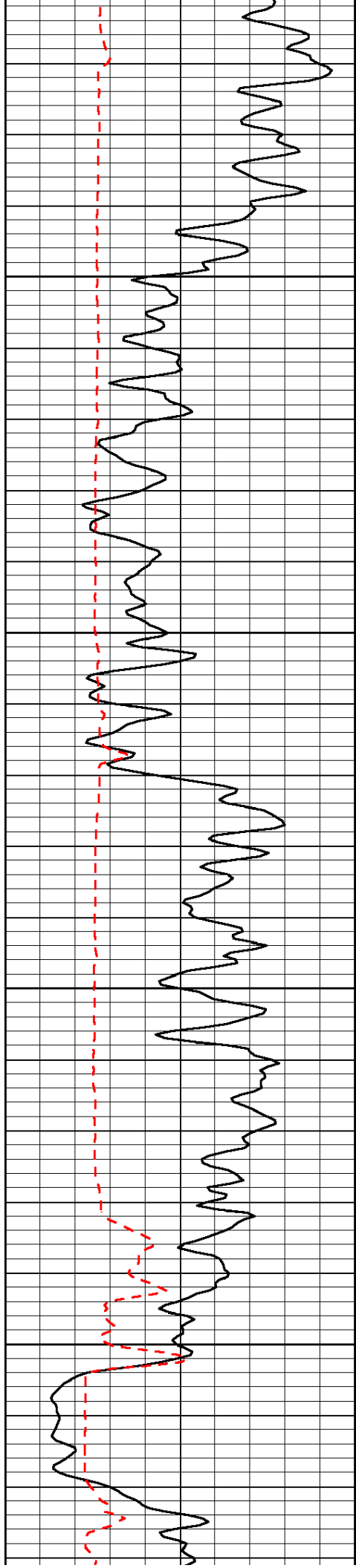
Healy, KS:
Hwy 83 & Hwy 4: 3W to Ike Rd.
2S, 1/4E, S into

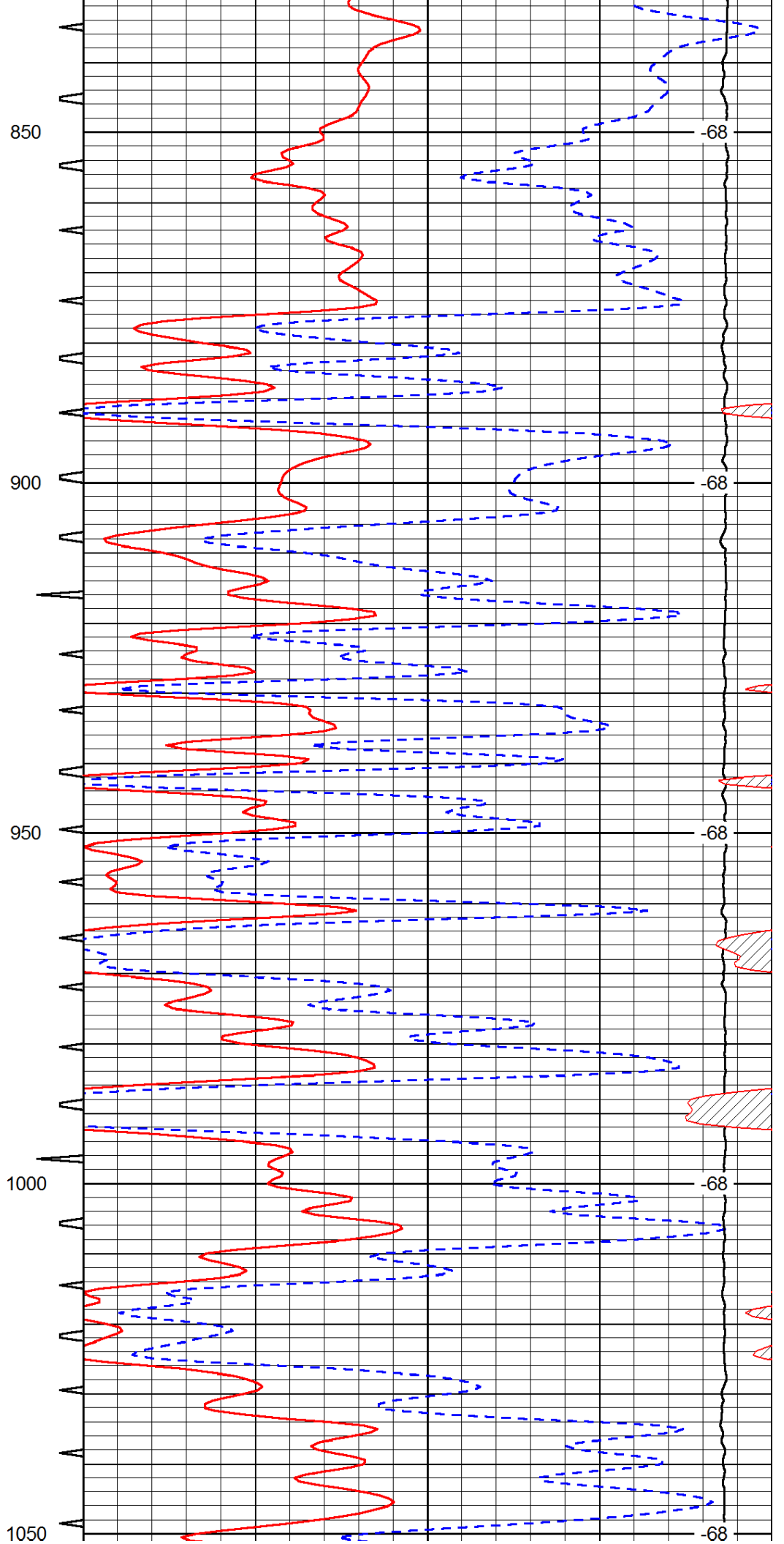
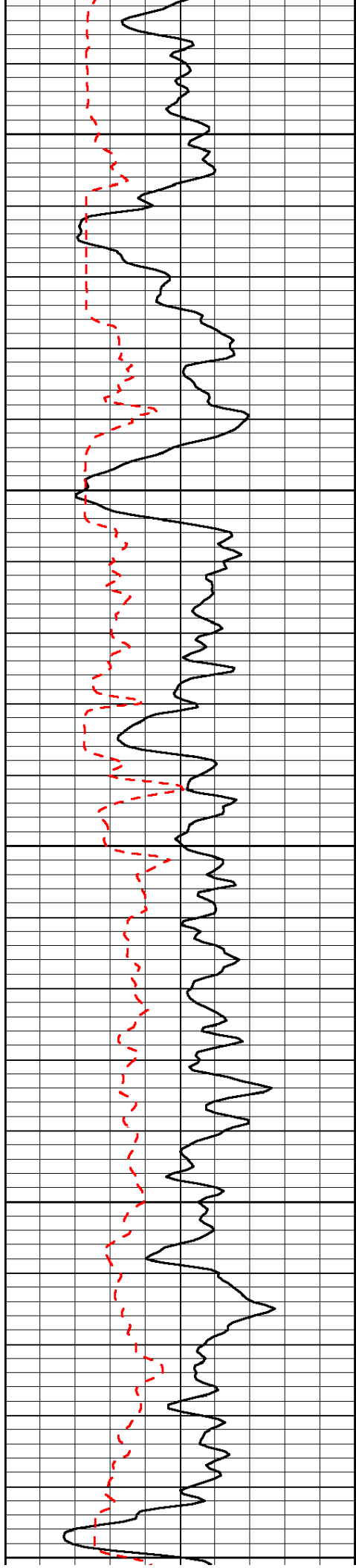
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150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

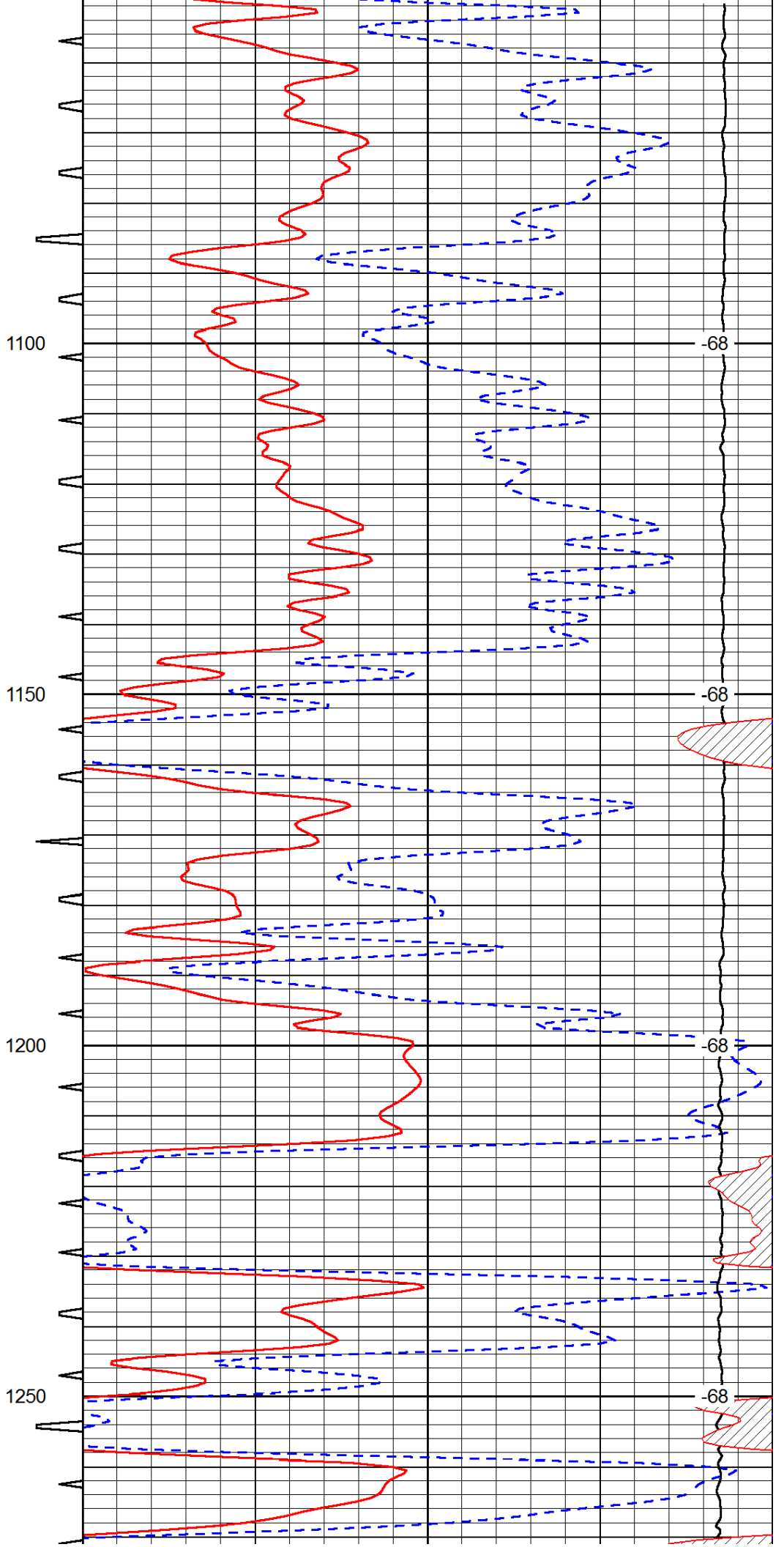
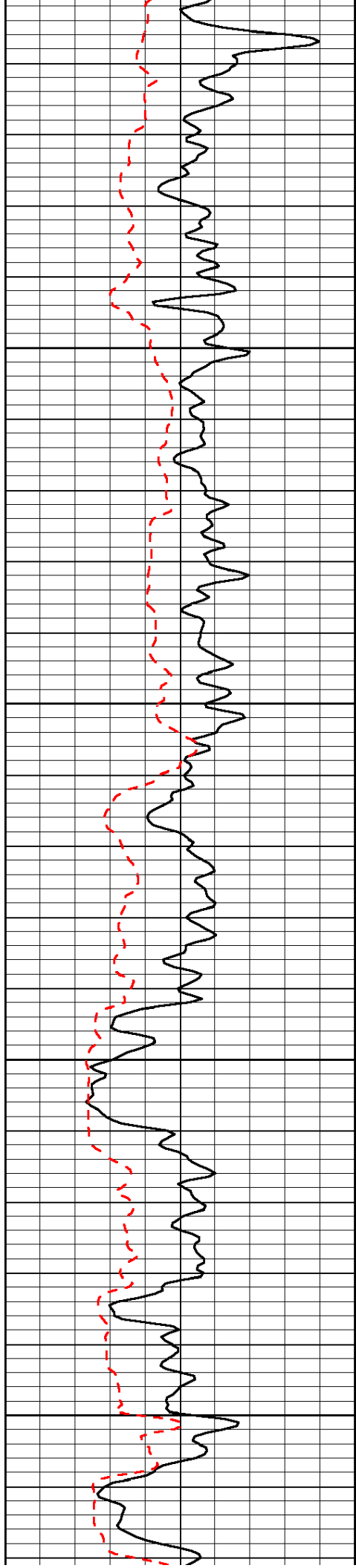
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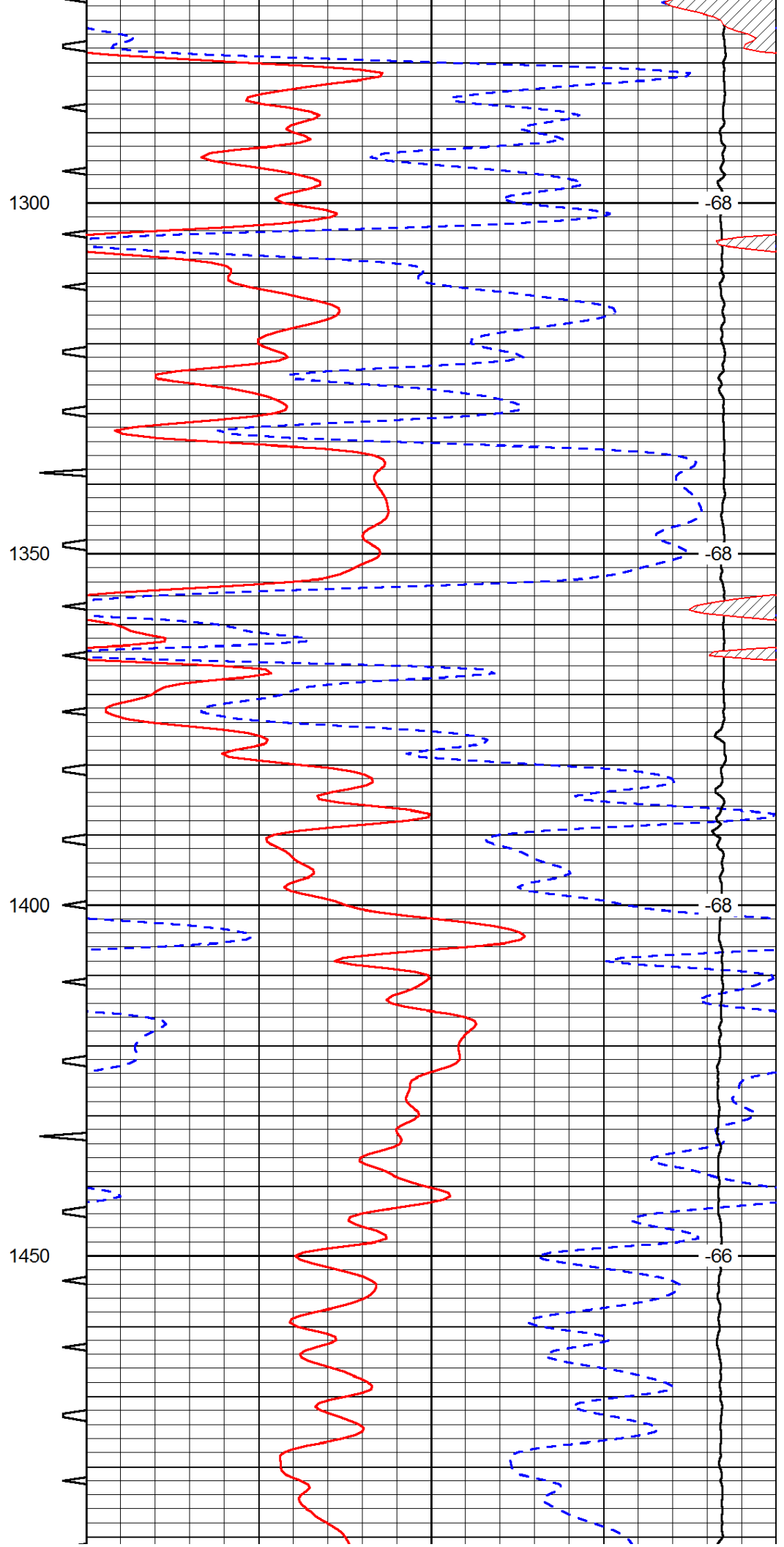
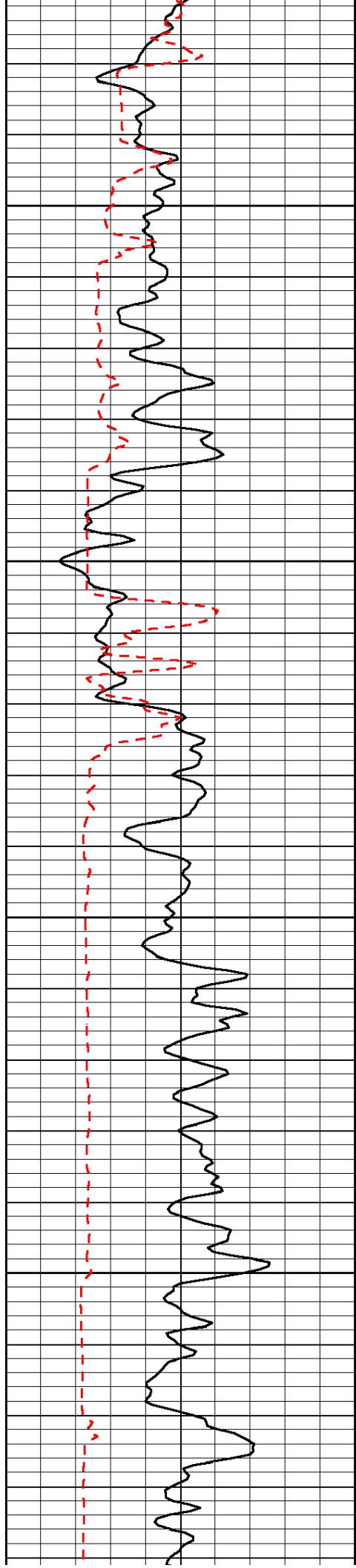


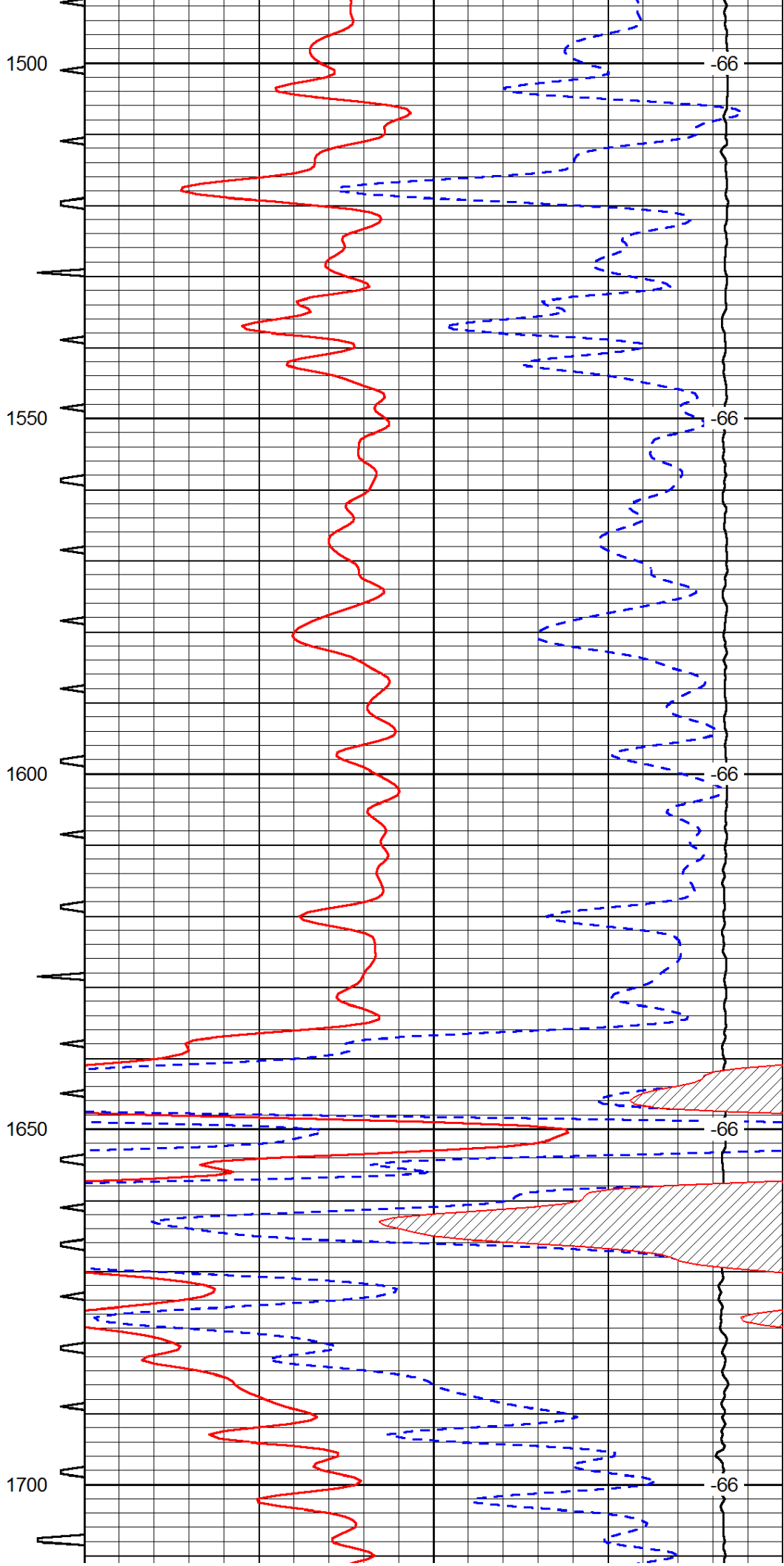
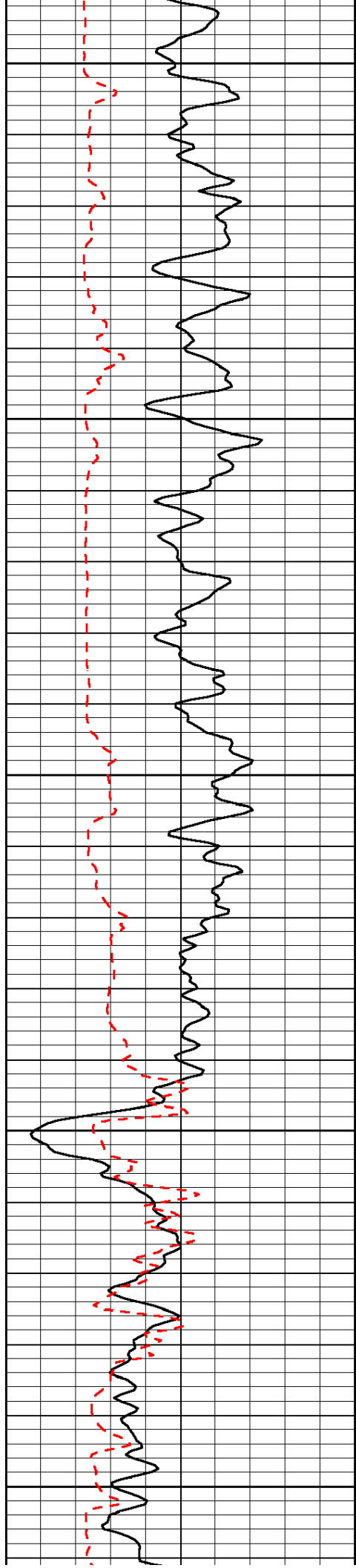


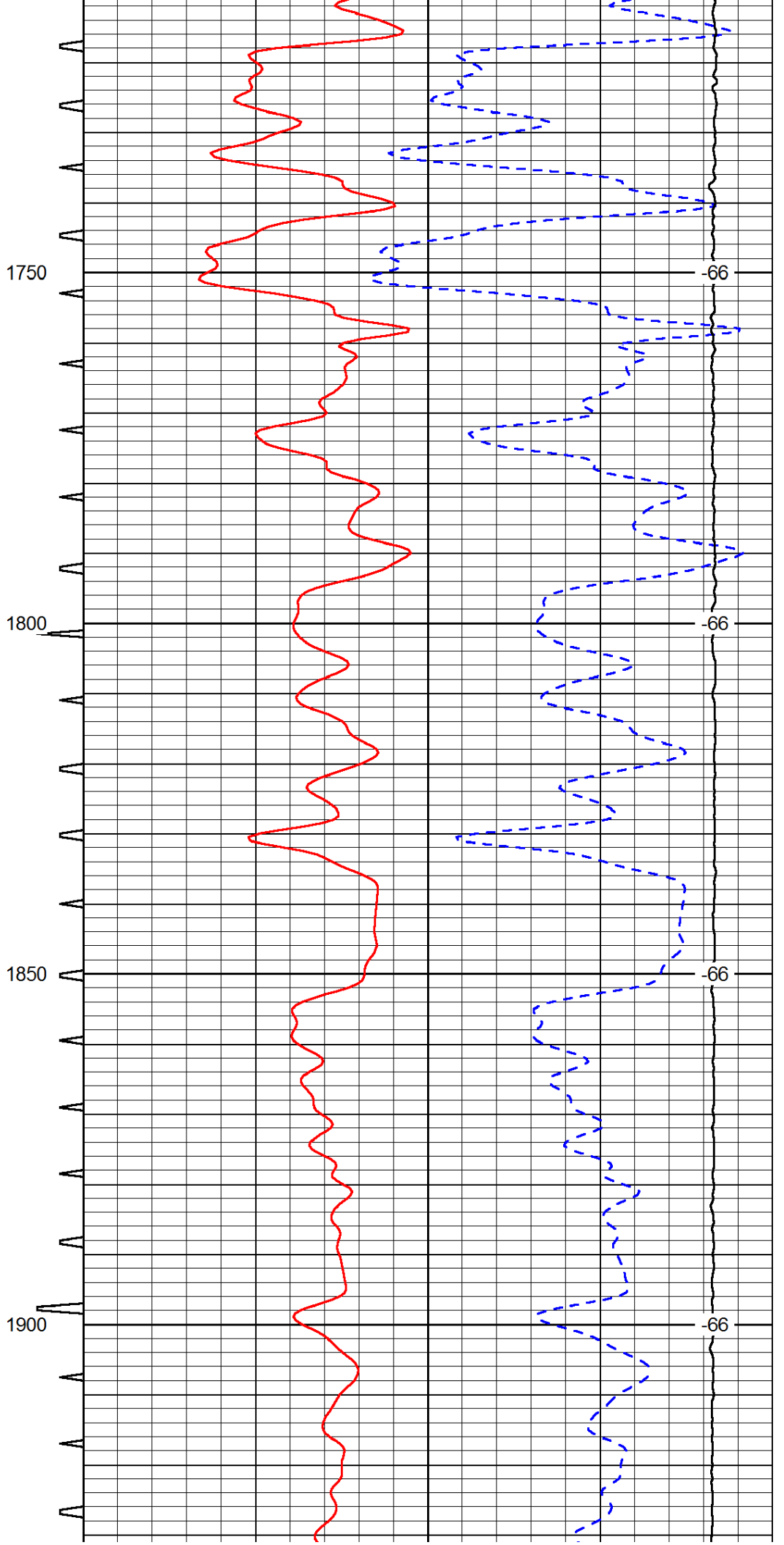
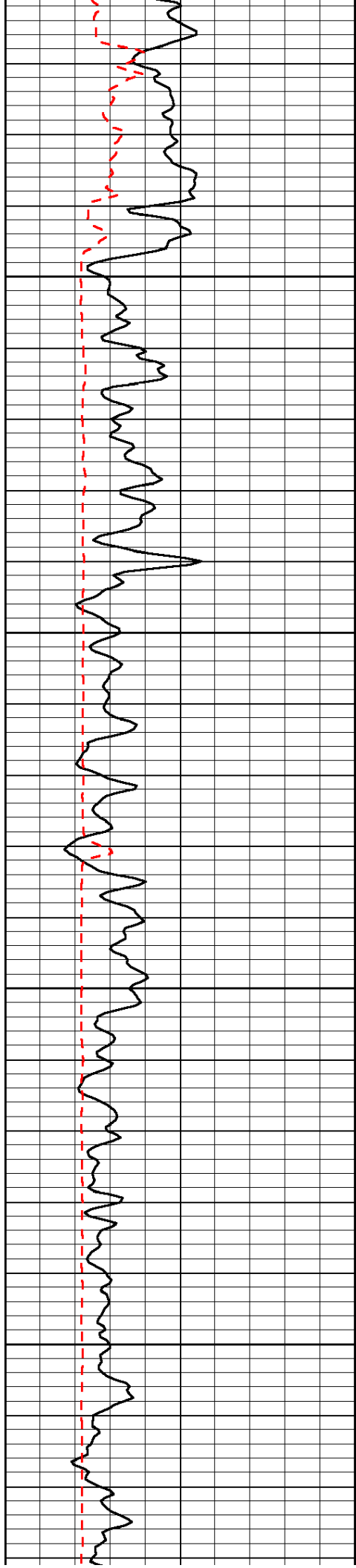


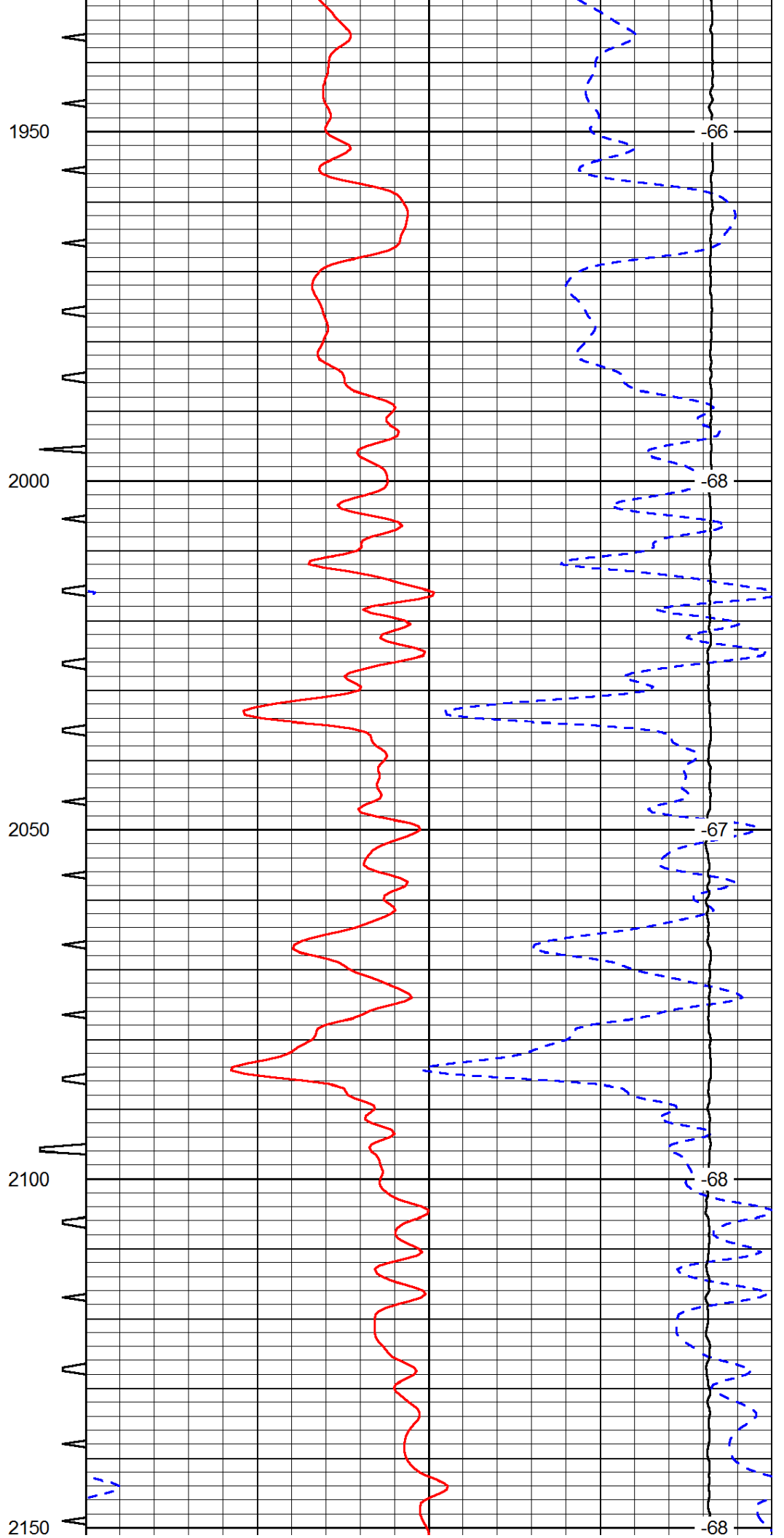
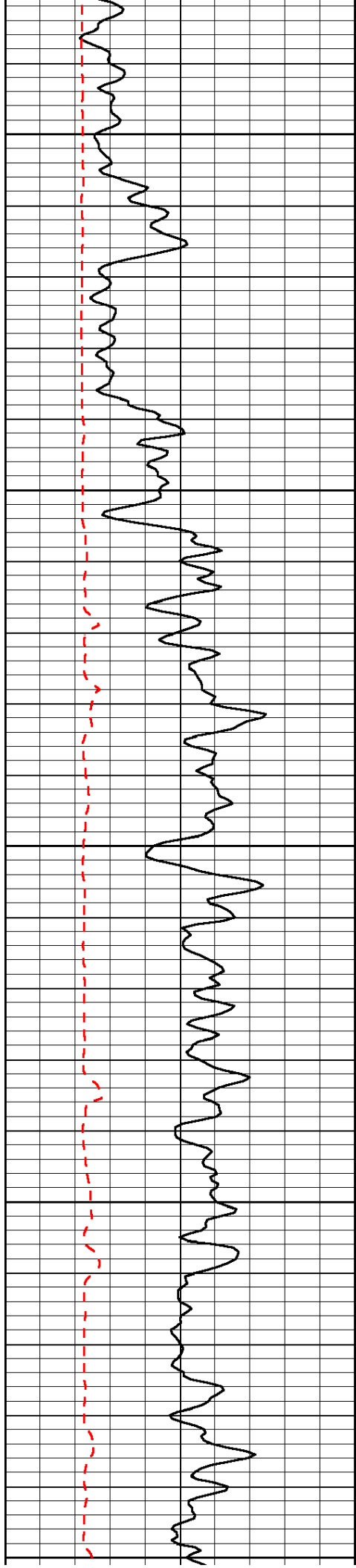


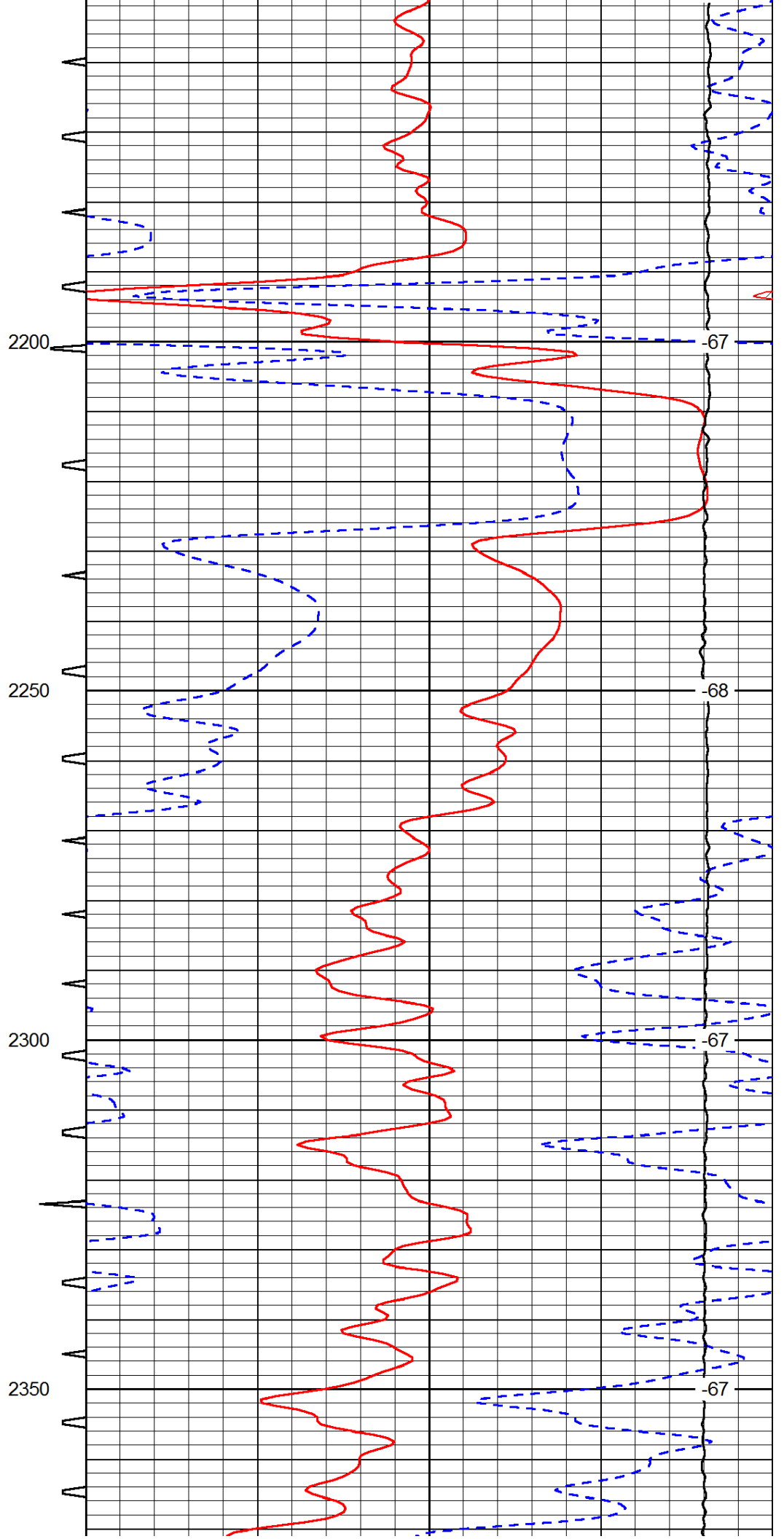
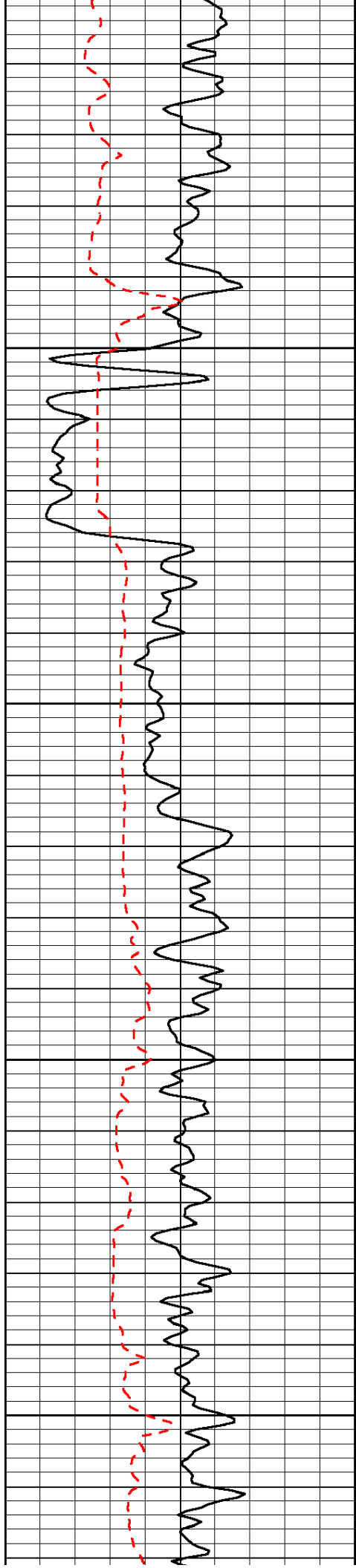


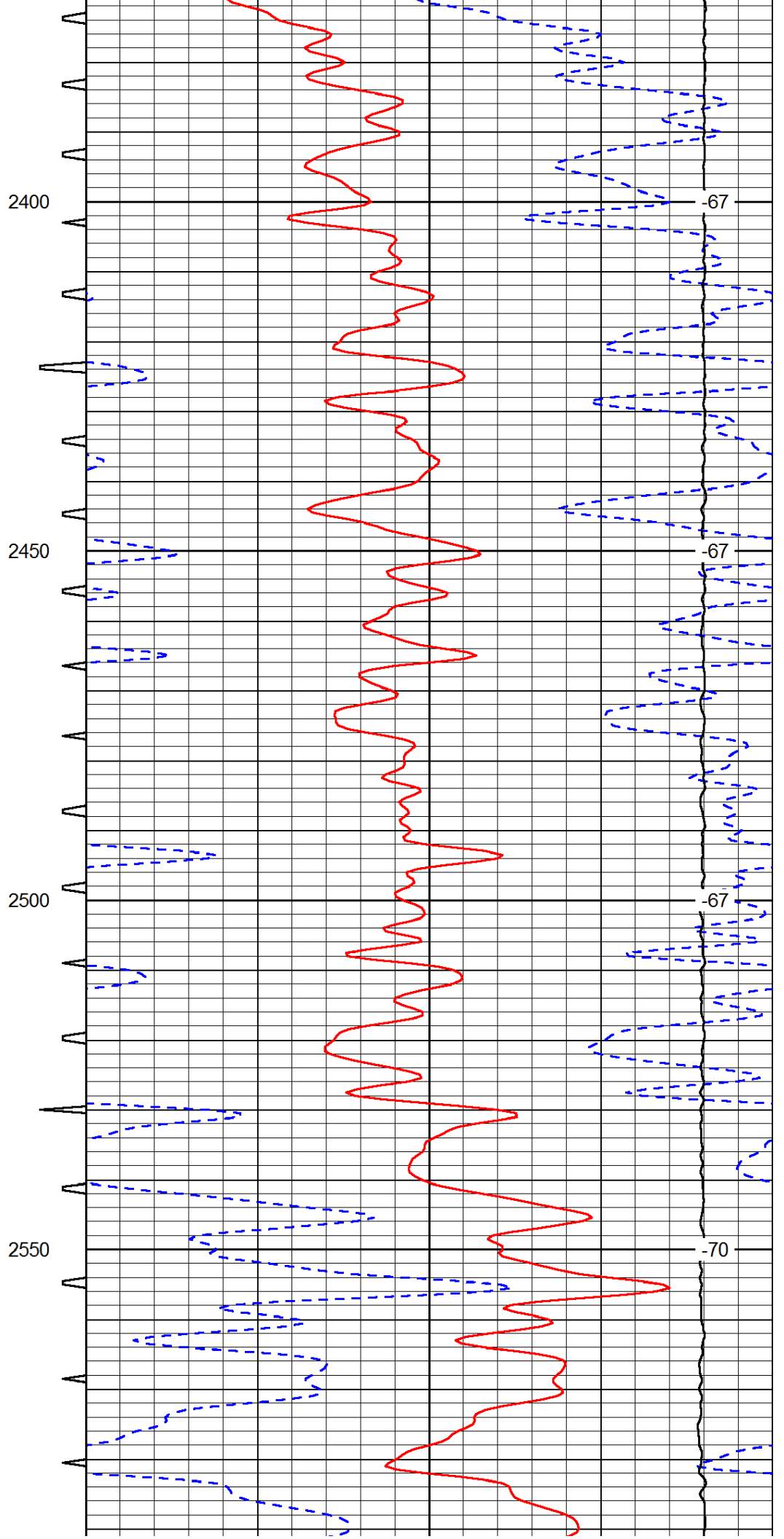
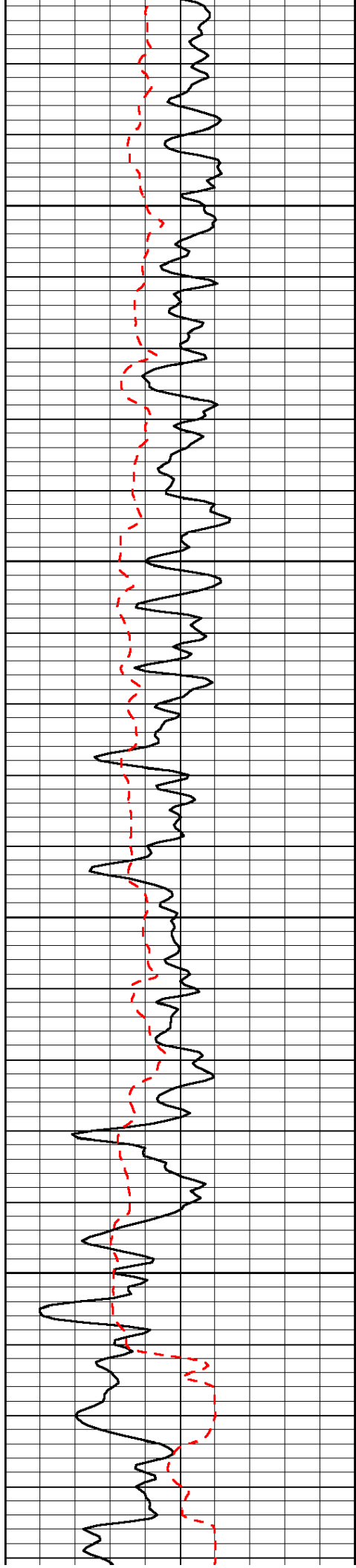


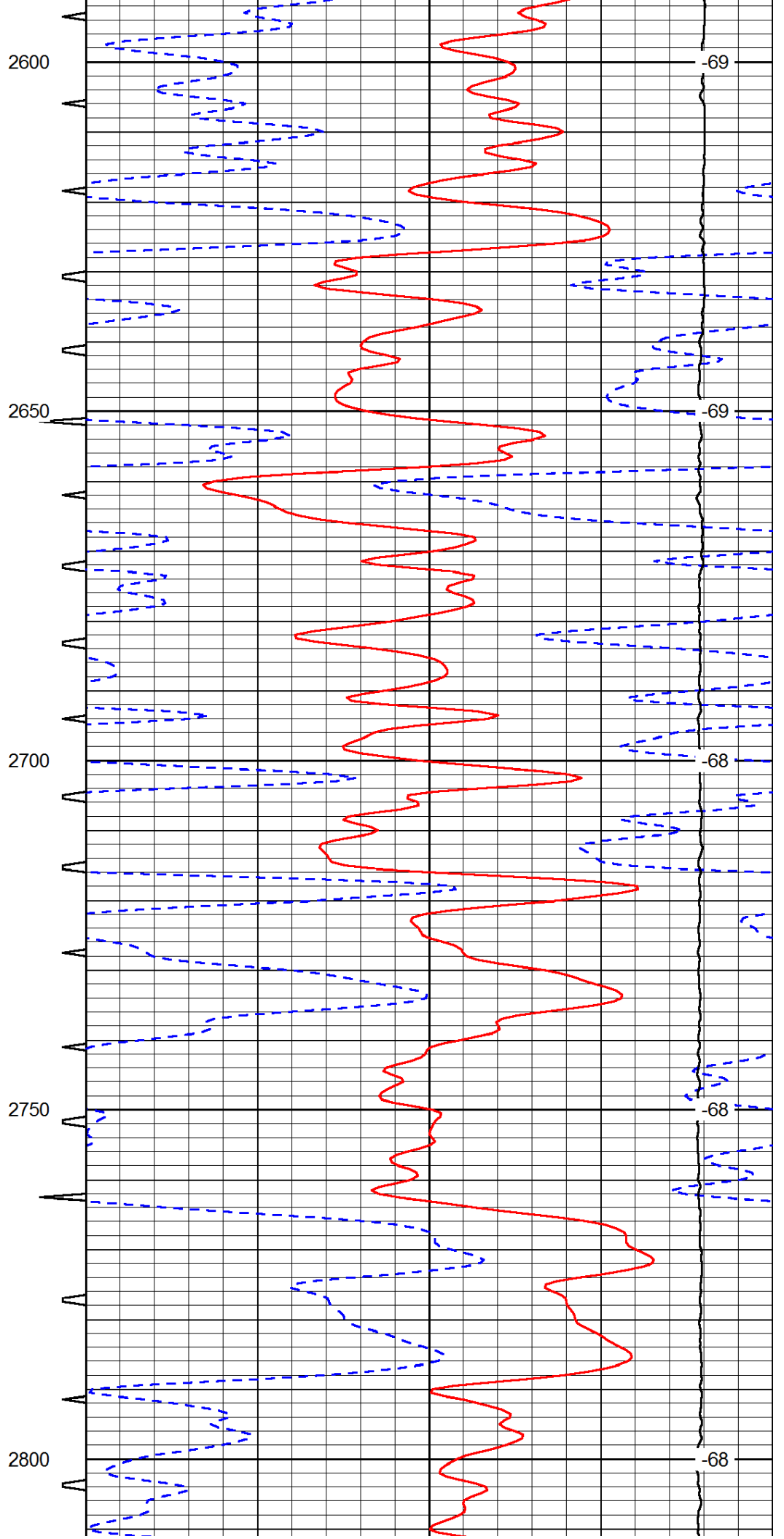
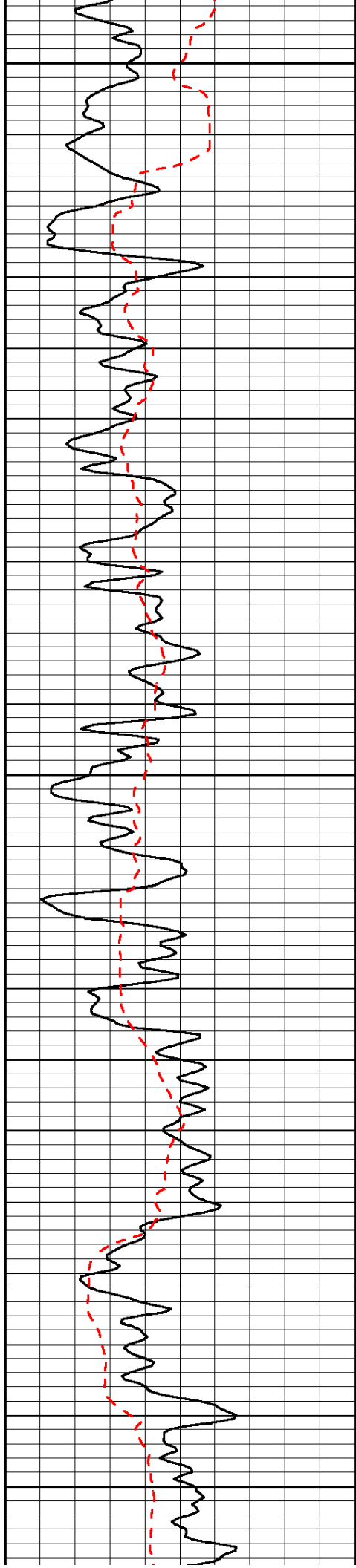


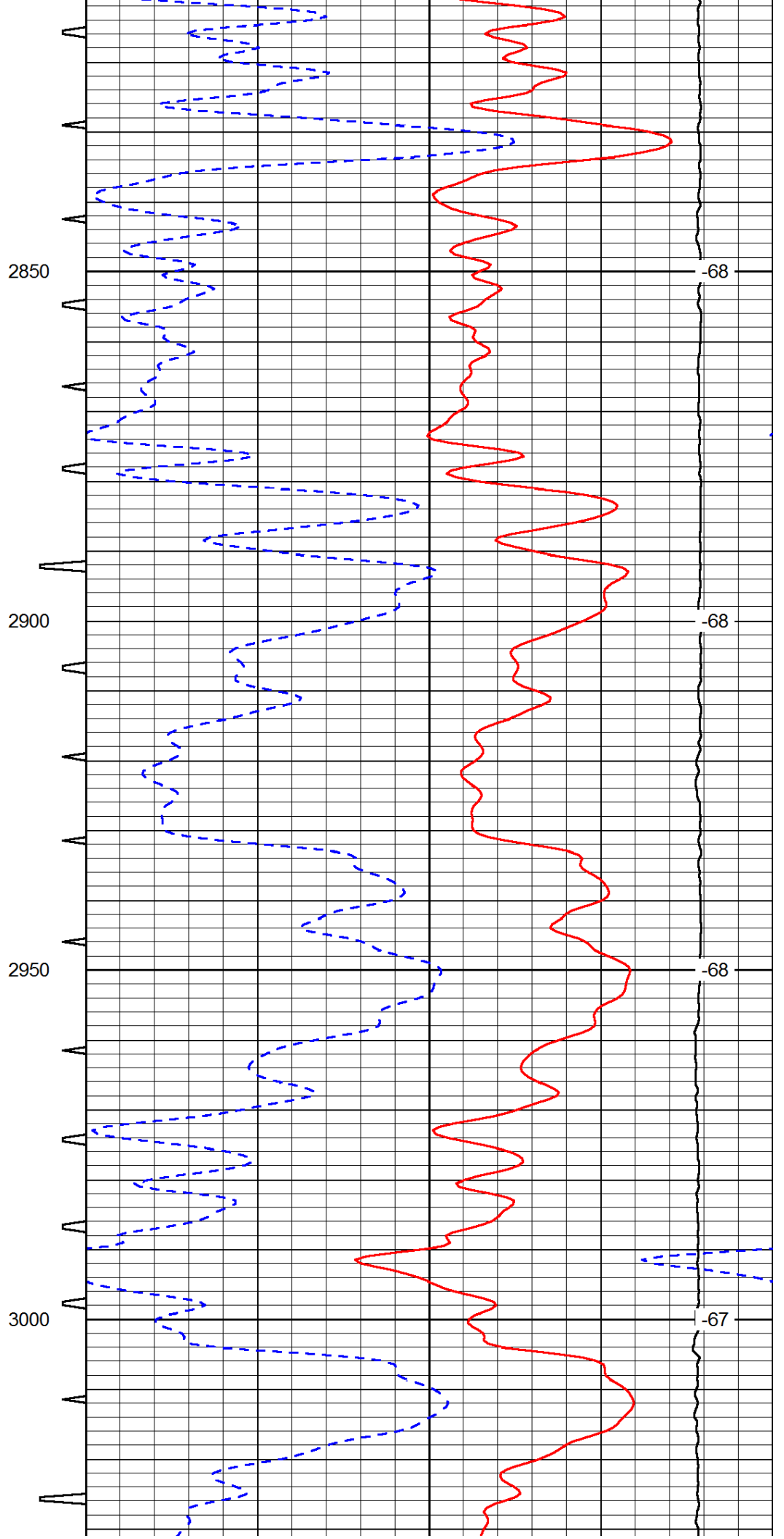
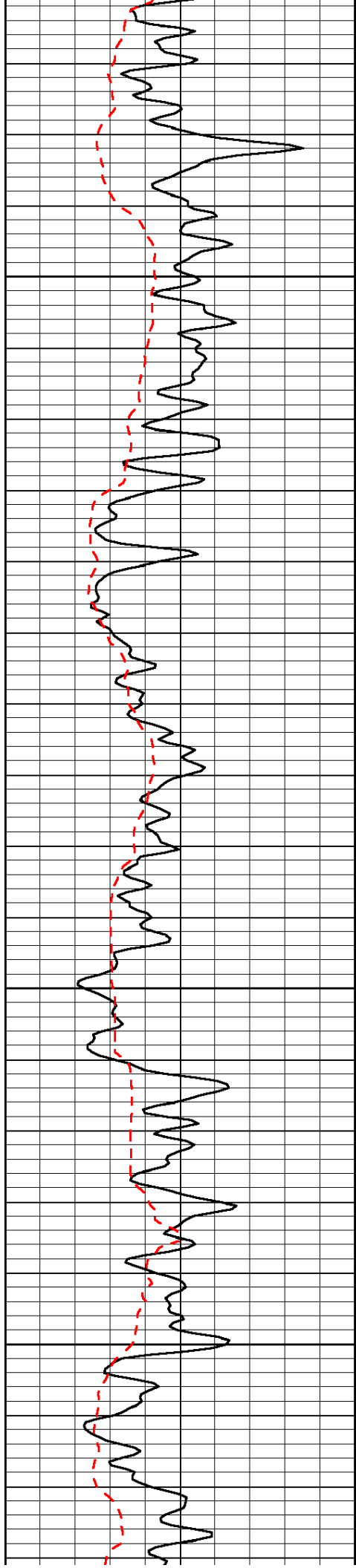


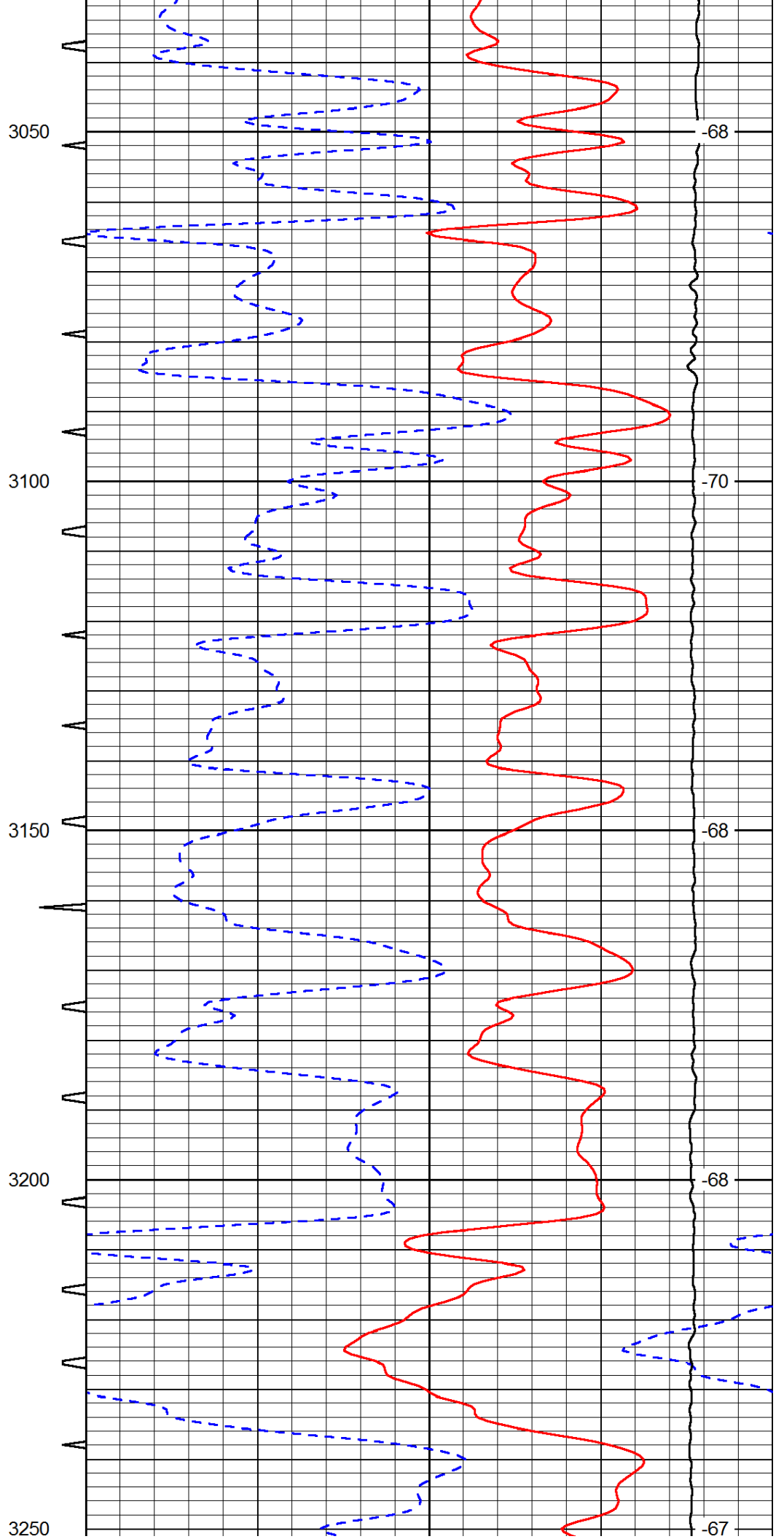
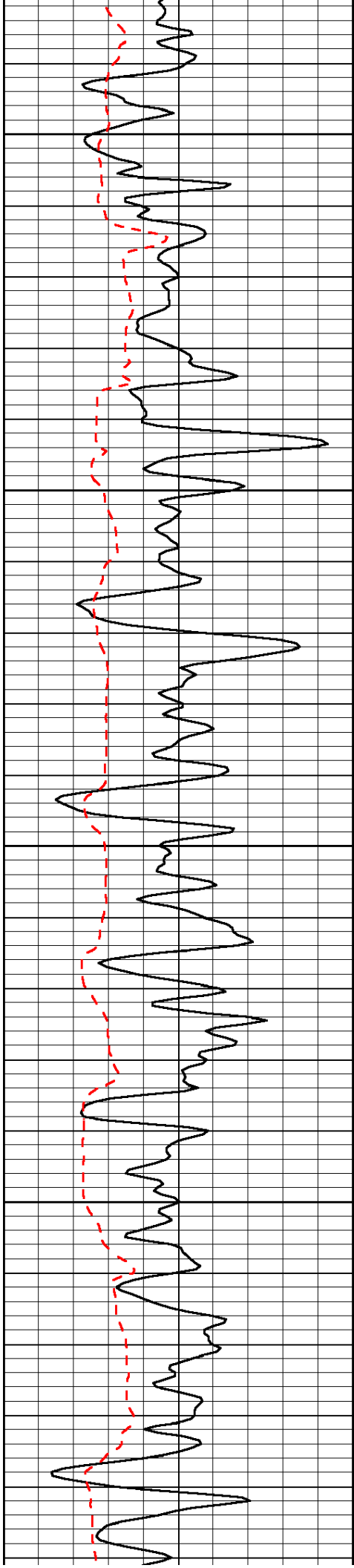


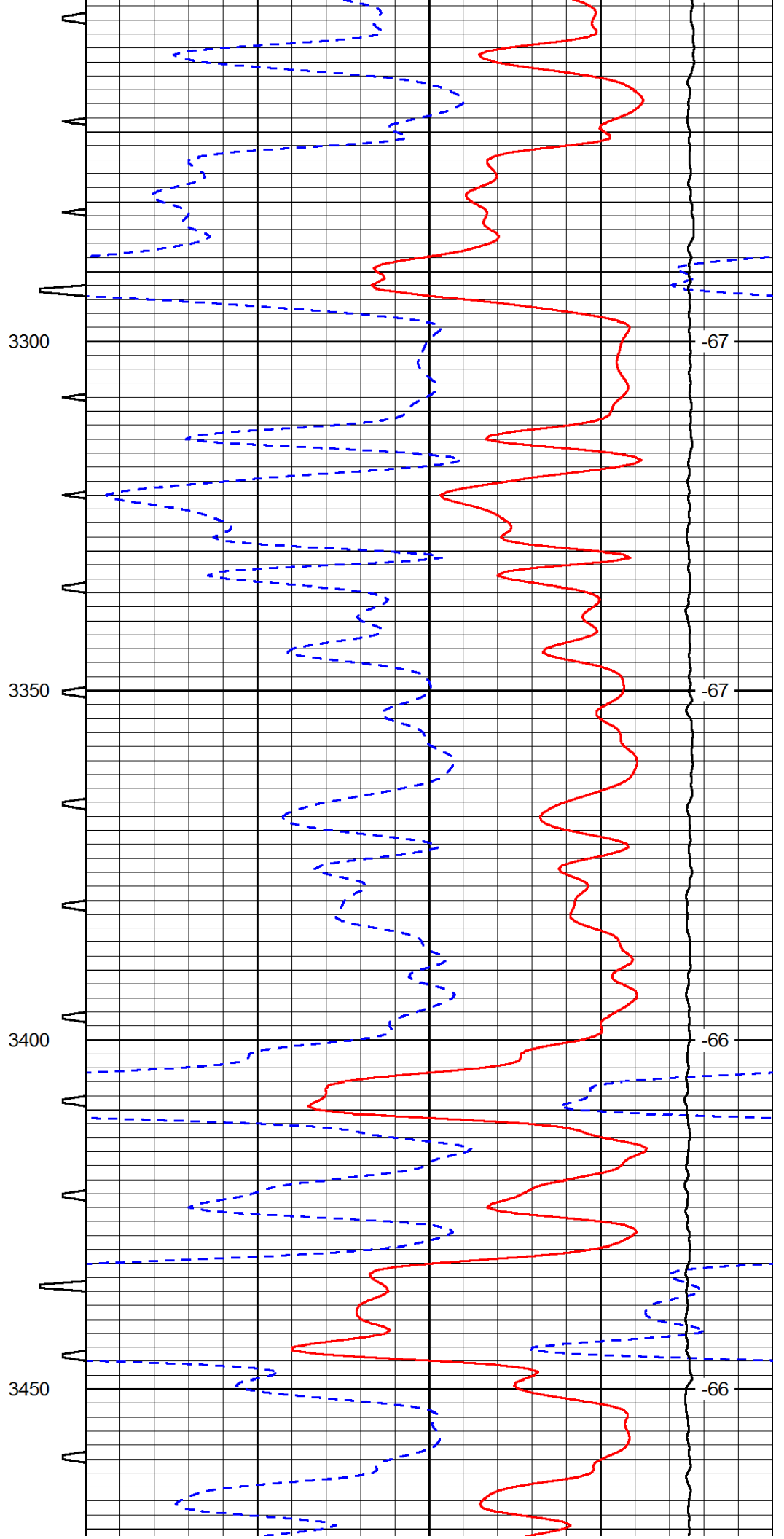
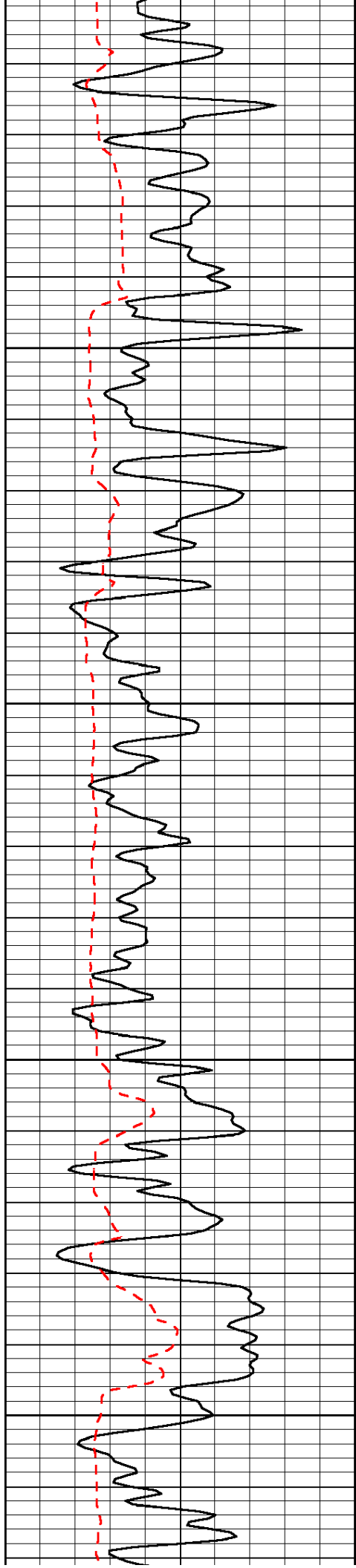


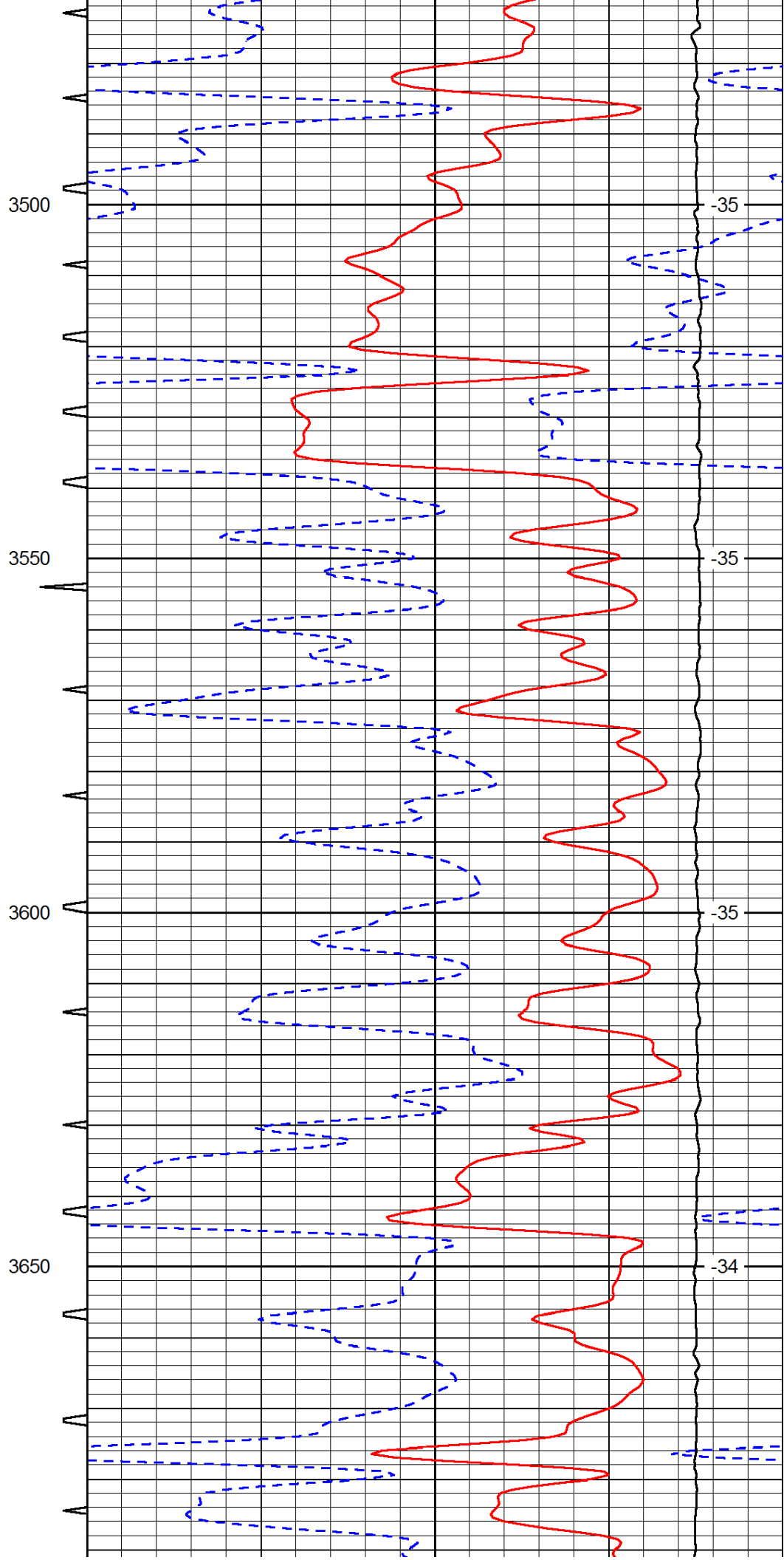
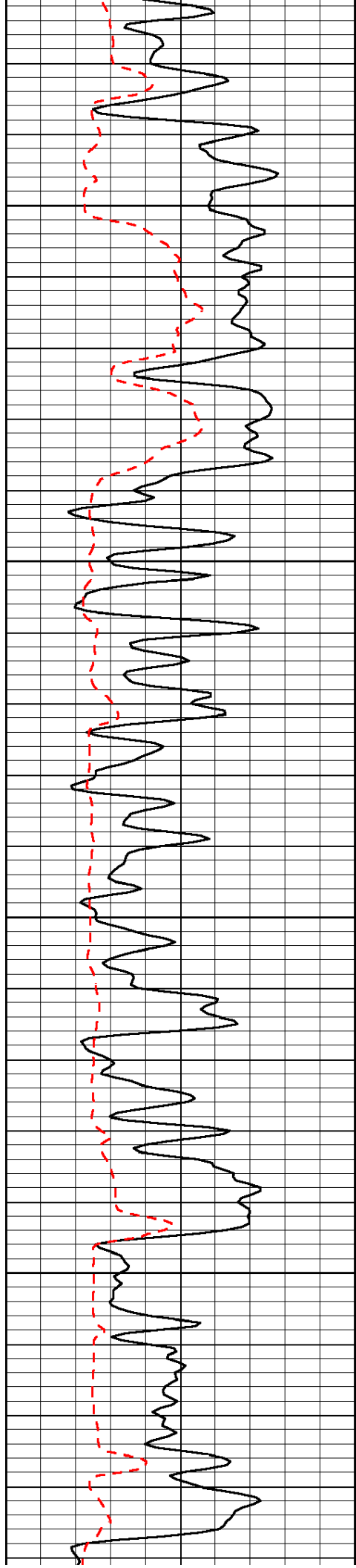


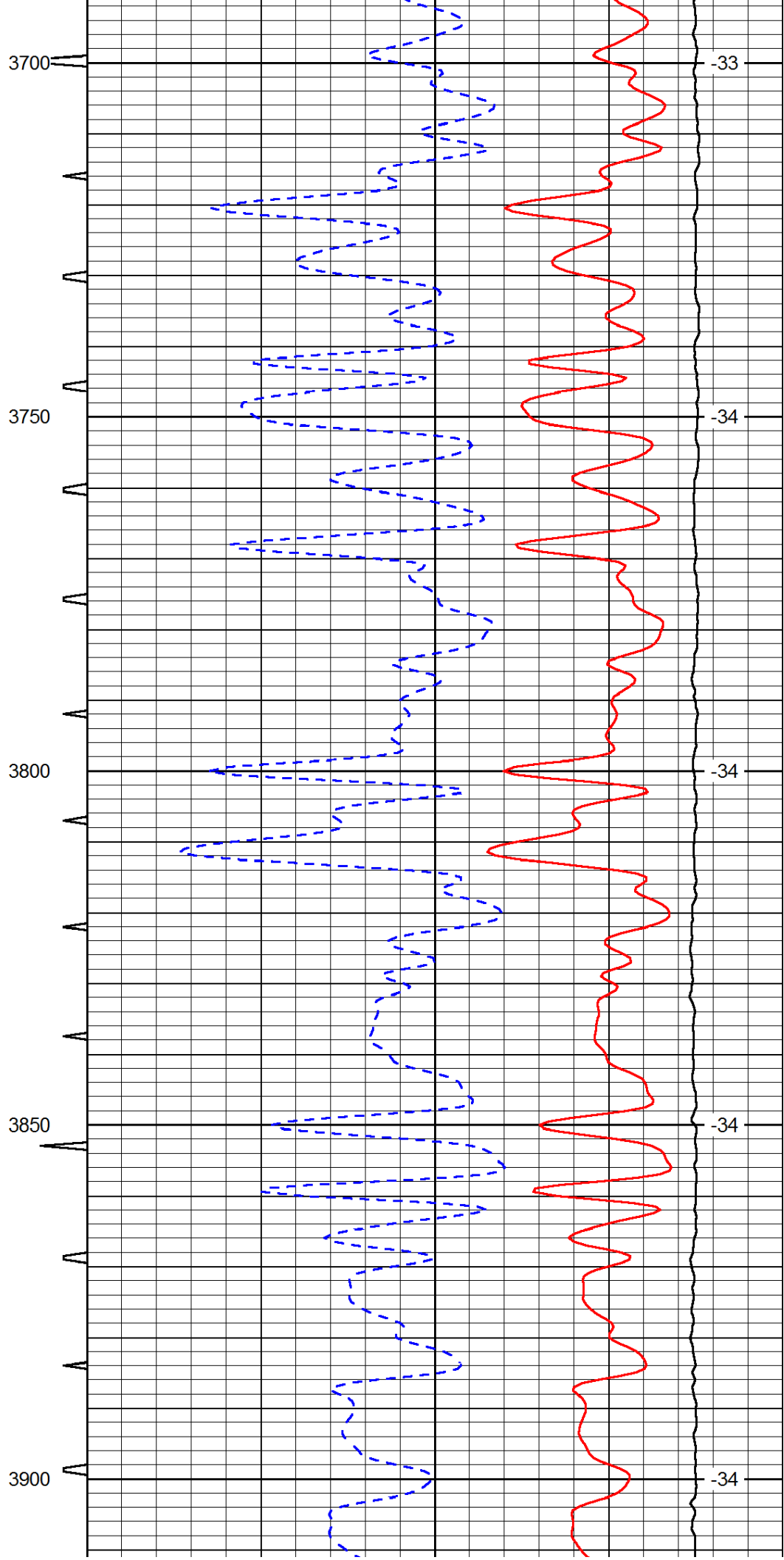
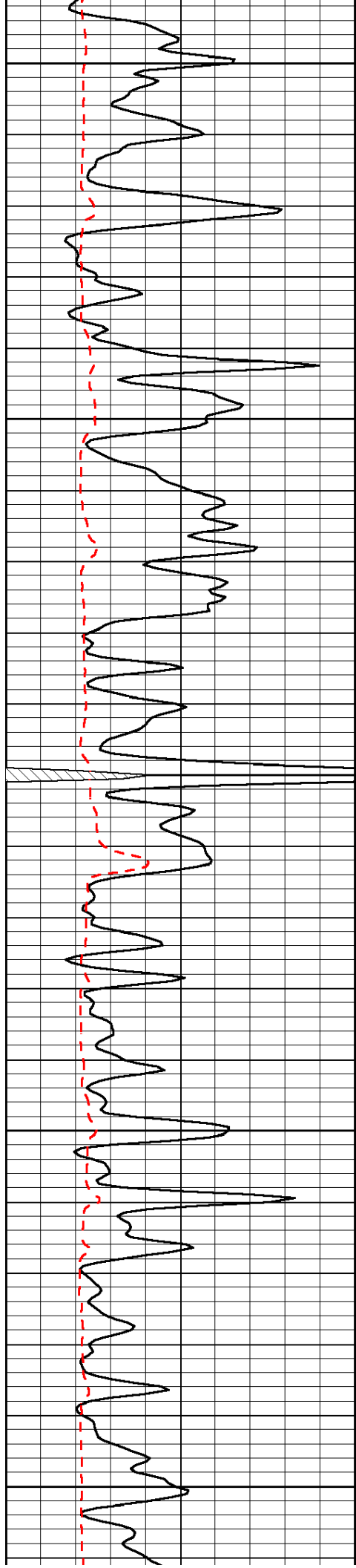


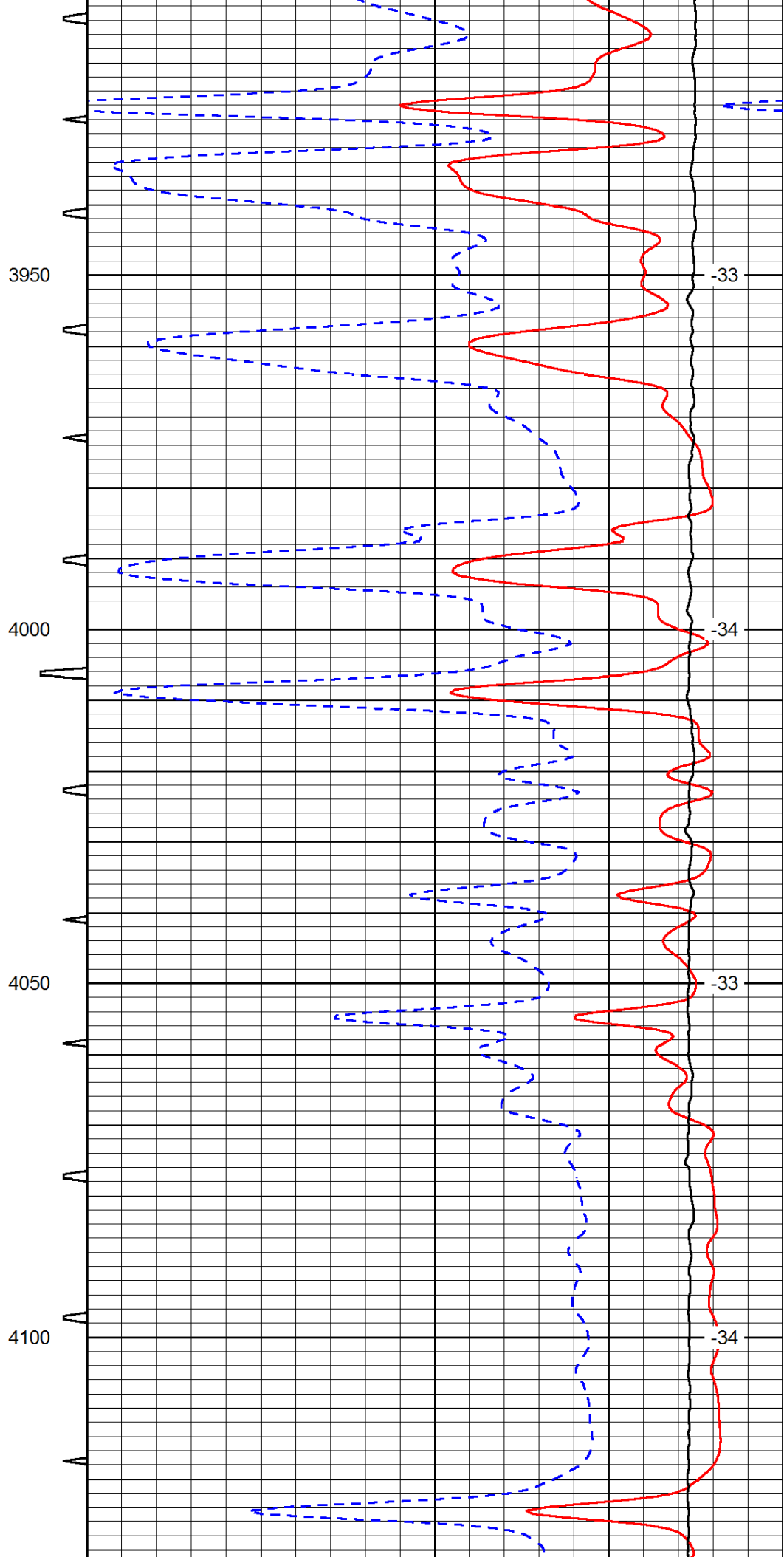
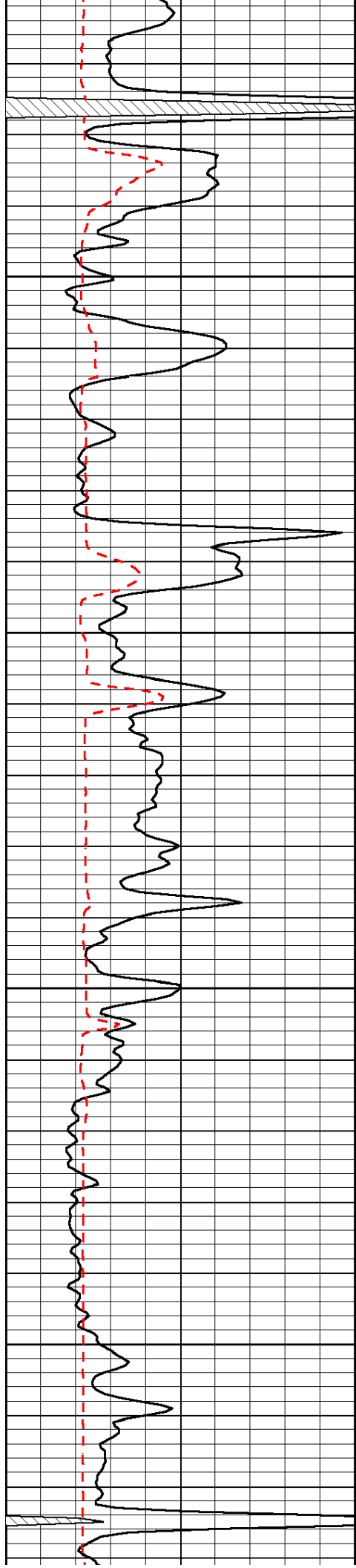


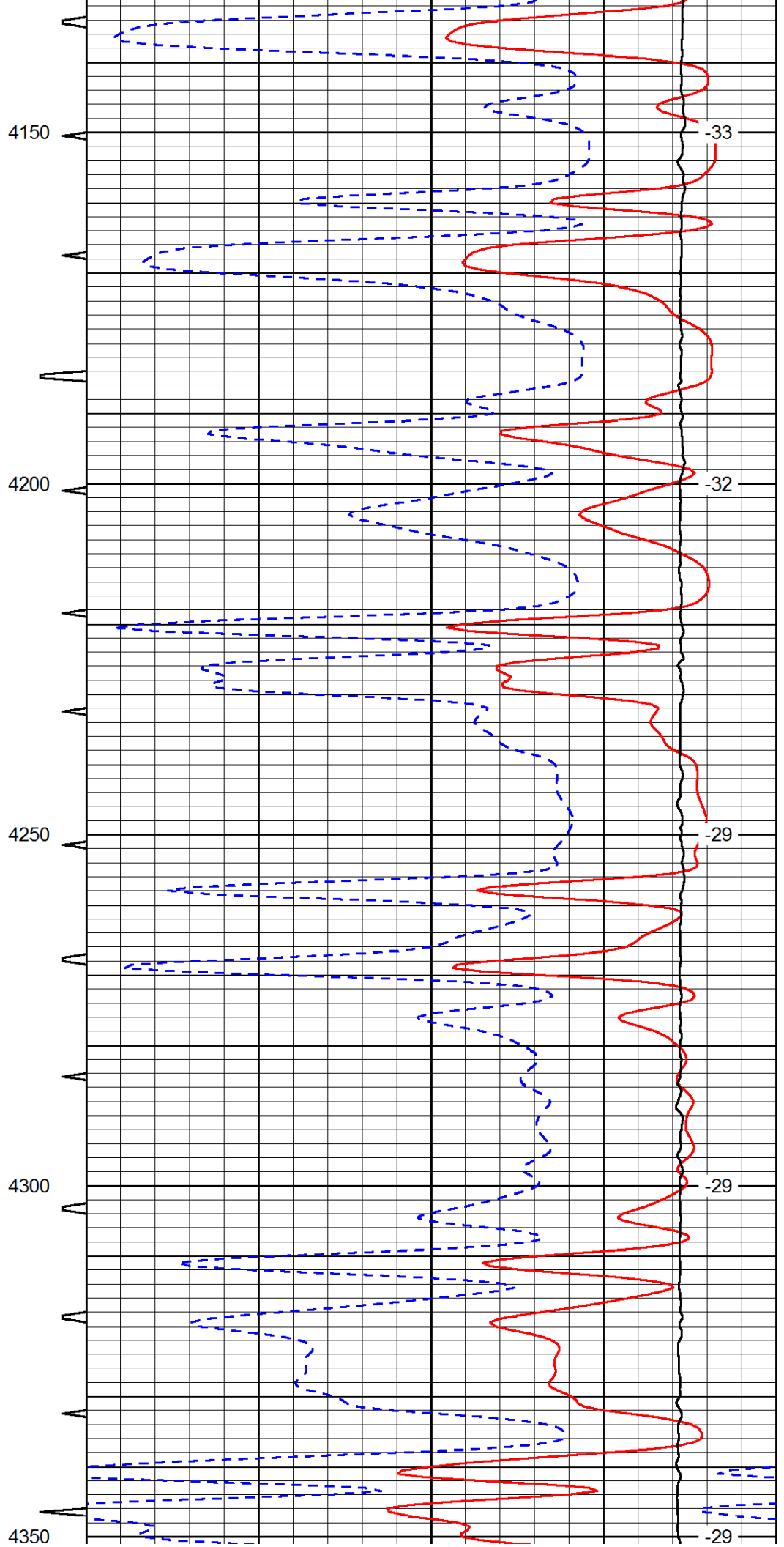
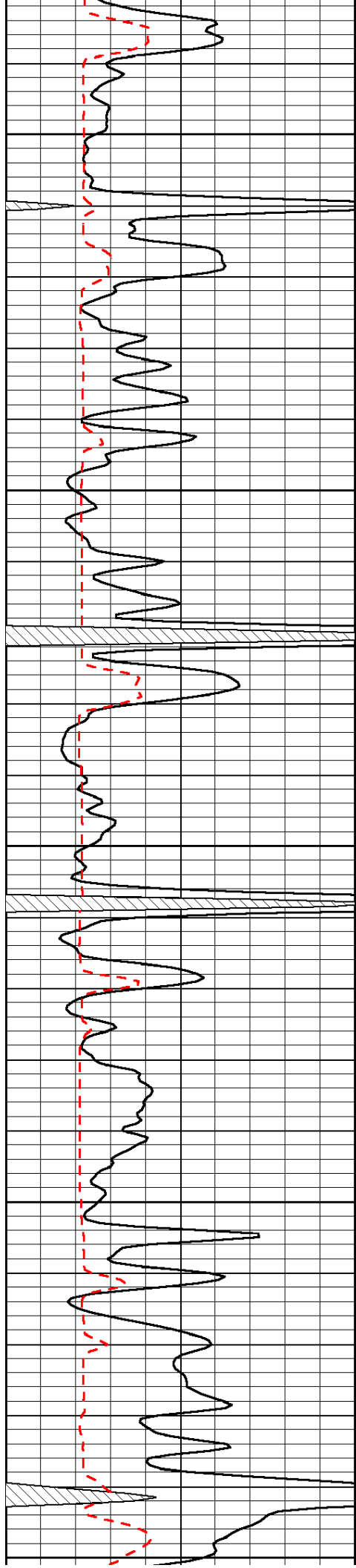


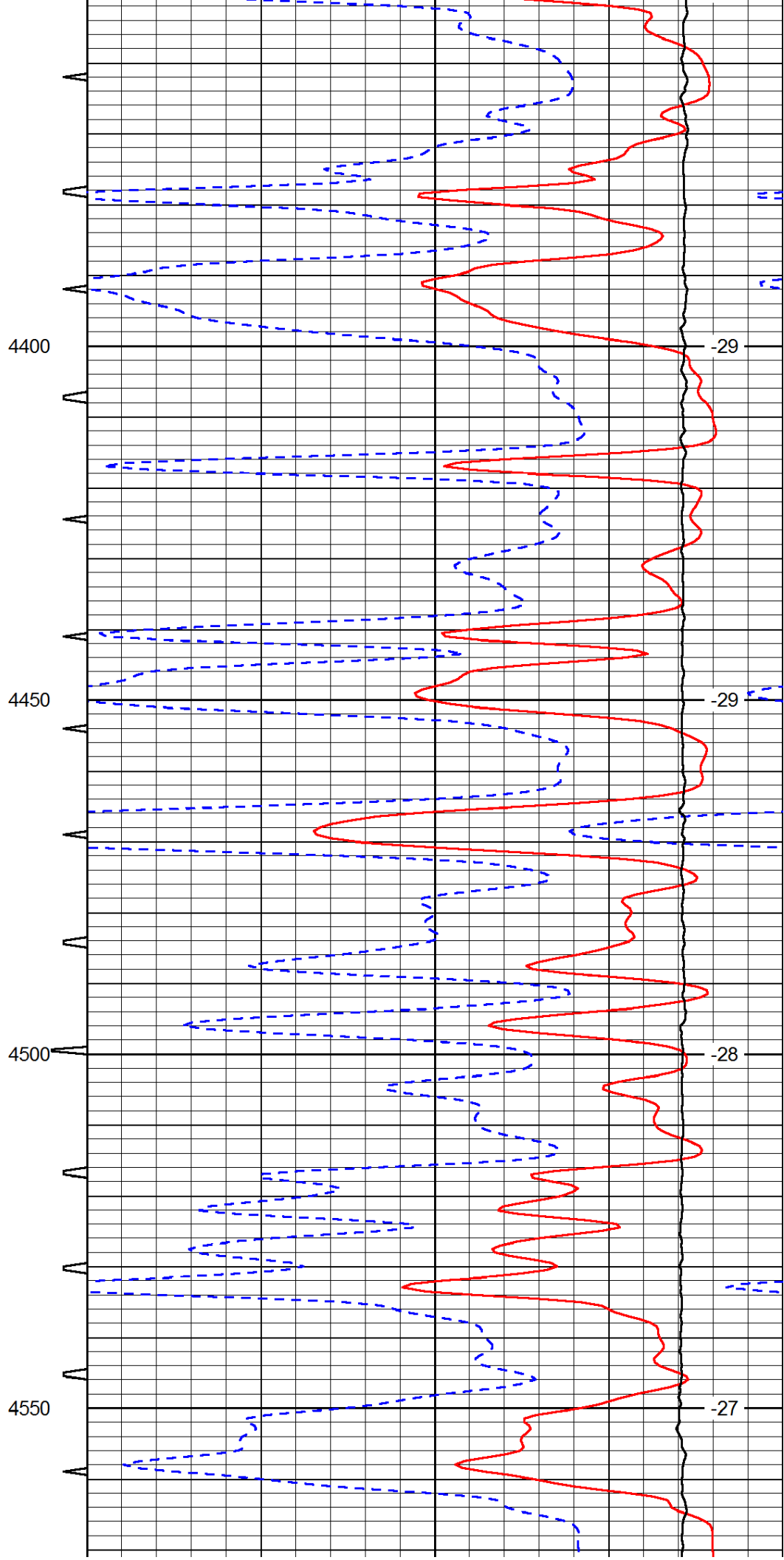
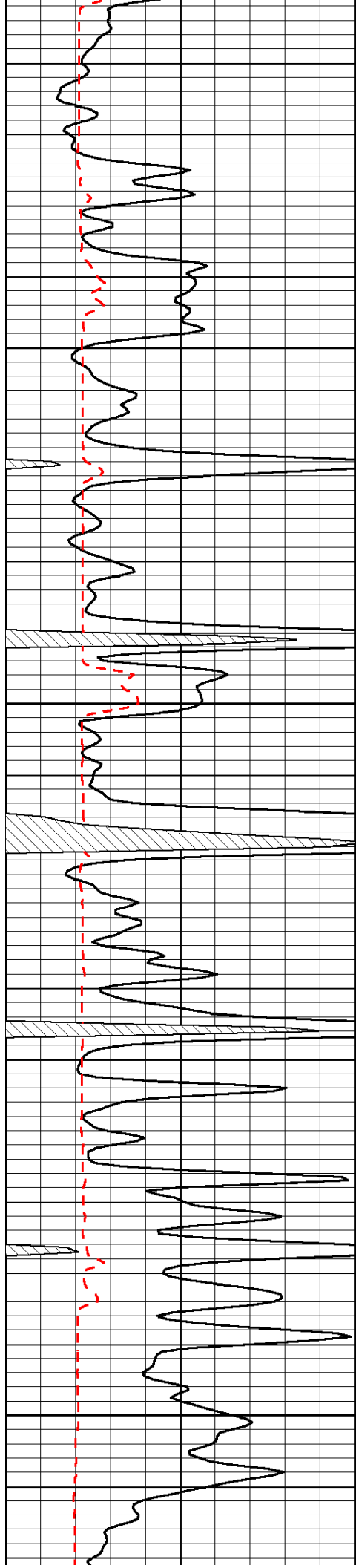


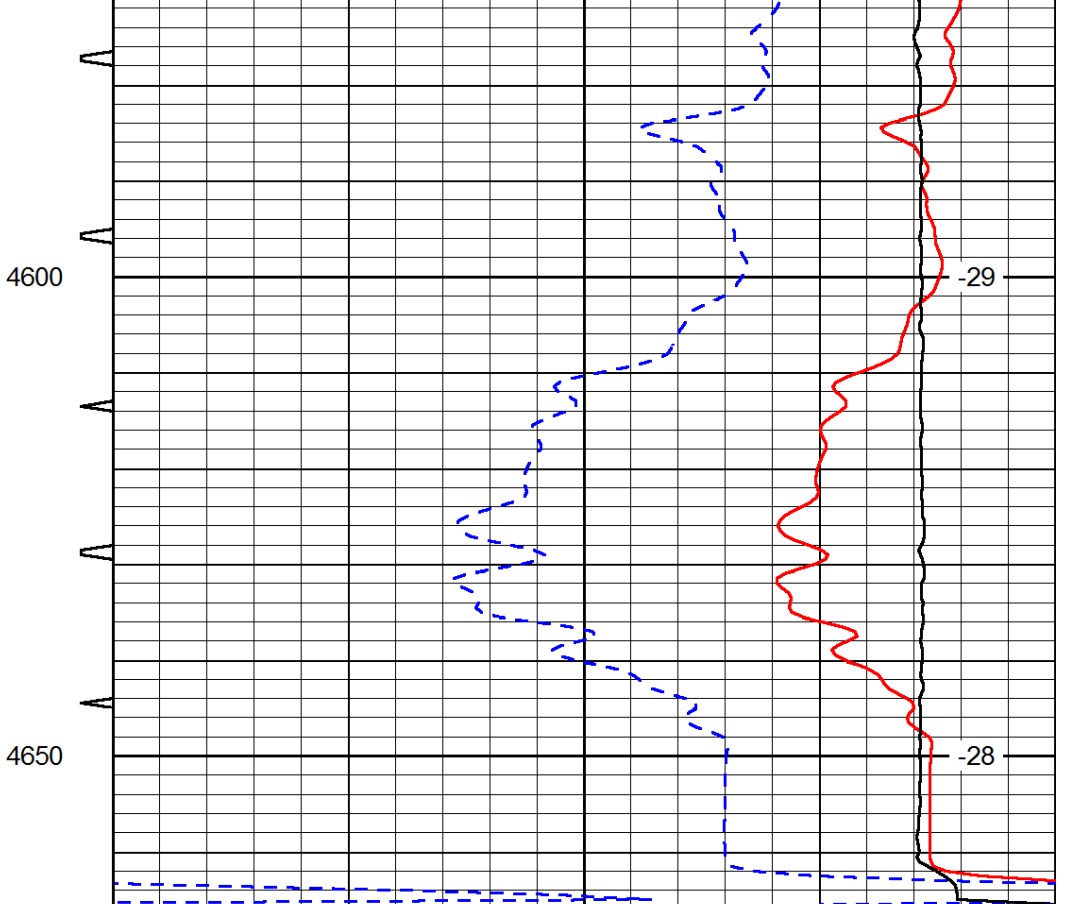
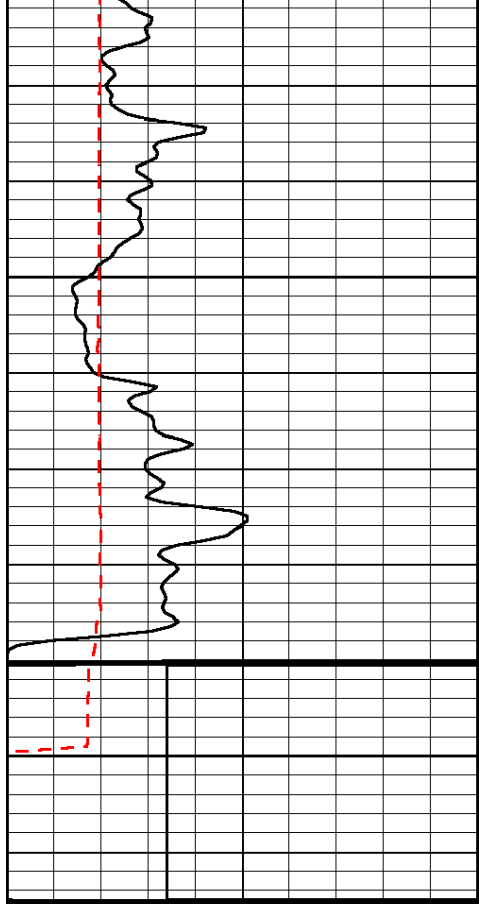












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
LSPD						



Sonic Cement
Bond Log

Ph. (785) 625-3858

15-101-22361-00-00

Company Credo Petroleum Corporation
Well Grace No. 1-15
Field North Trail
County Lane State Kansas

Location E2 NW NE NW
330' FNL & 1920' FWL
Sec: 15 Twp: 17 S Rge: 29 W
Other Services

Permanent Datum Ground Level Elevation 2801
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing
K.B. 2806
D.F.
G.L. 2801

Run Number	One	
Date Survey	04/17/2012	
Date Cementing	04/05/2012	
Type Cementing Operation	Primary	
Depth Driller	4660	
Depth Logger	4632	
Logged Interval	4631 to 2500	to
Casing Driller	5.5 @ TD	@
Float Collar -- D.V. Tool	////	2241
Squeeze Depth	////	
Amount & Type Cement	////	
Amount & Type Admix	////	
Type Fluid In Hole	Water	
Fluid Level	2070	
Salinity PPM CL	////	
Weight lb/gal -- Vis.	////	////
Approx. Logged Cement Top	2730	
Calculated Cement Top	////	
Max. Hole Temperature	123	
Tool No.	PDR71	
Spacing Recorded	3' 5"	
Equipment -- Location	71 Hays	
Recorded By	Scott Clermont	
Witnessed By	Gene Whitaker	

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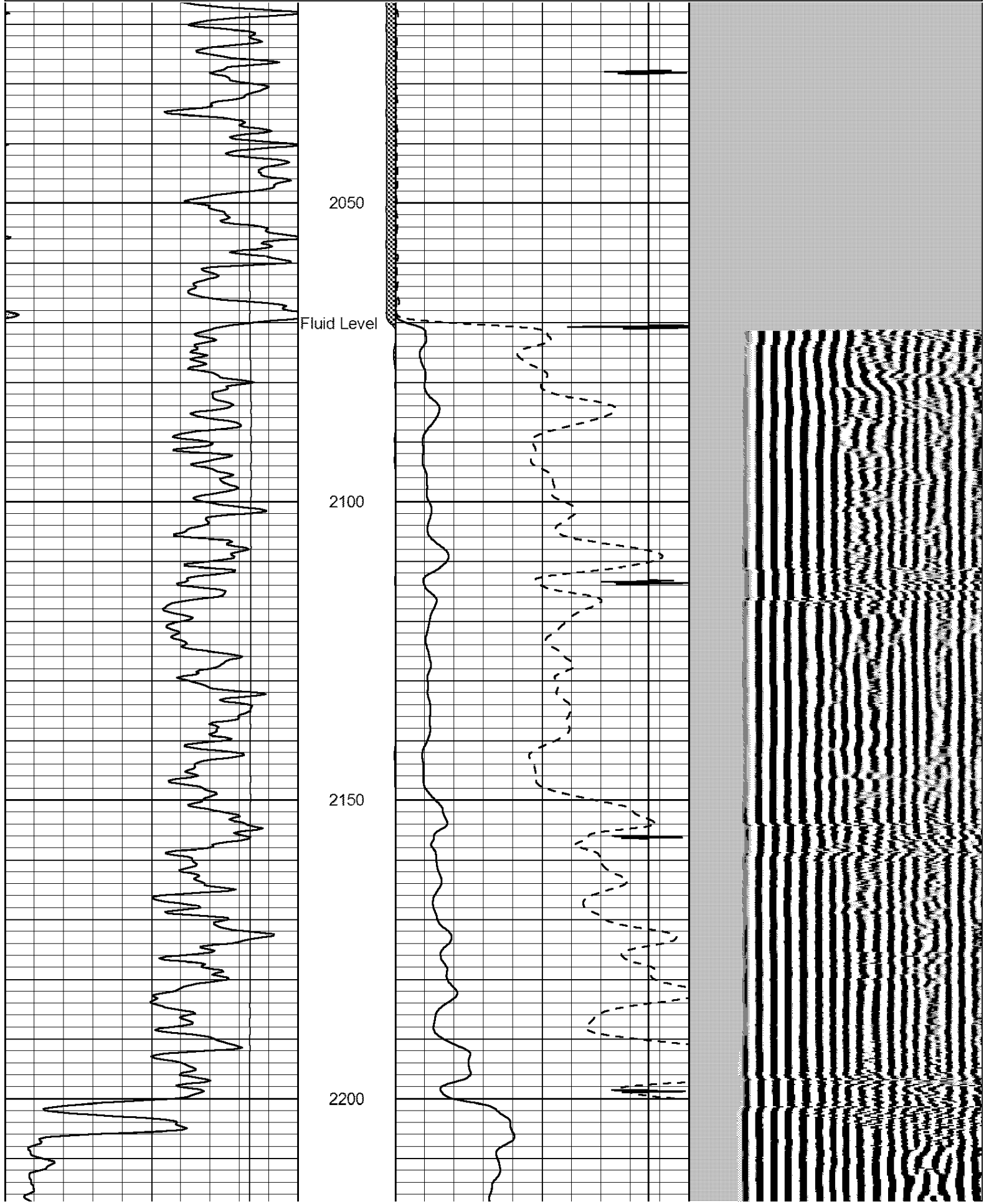
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

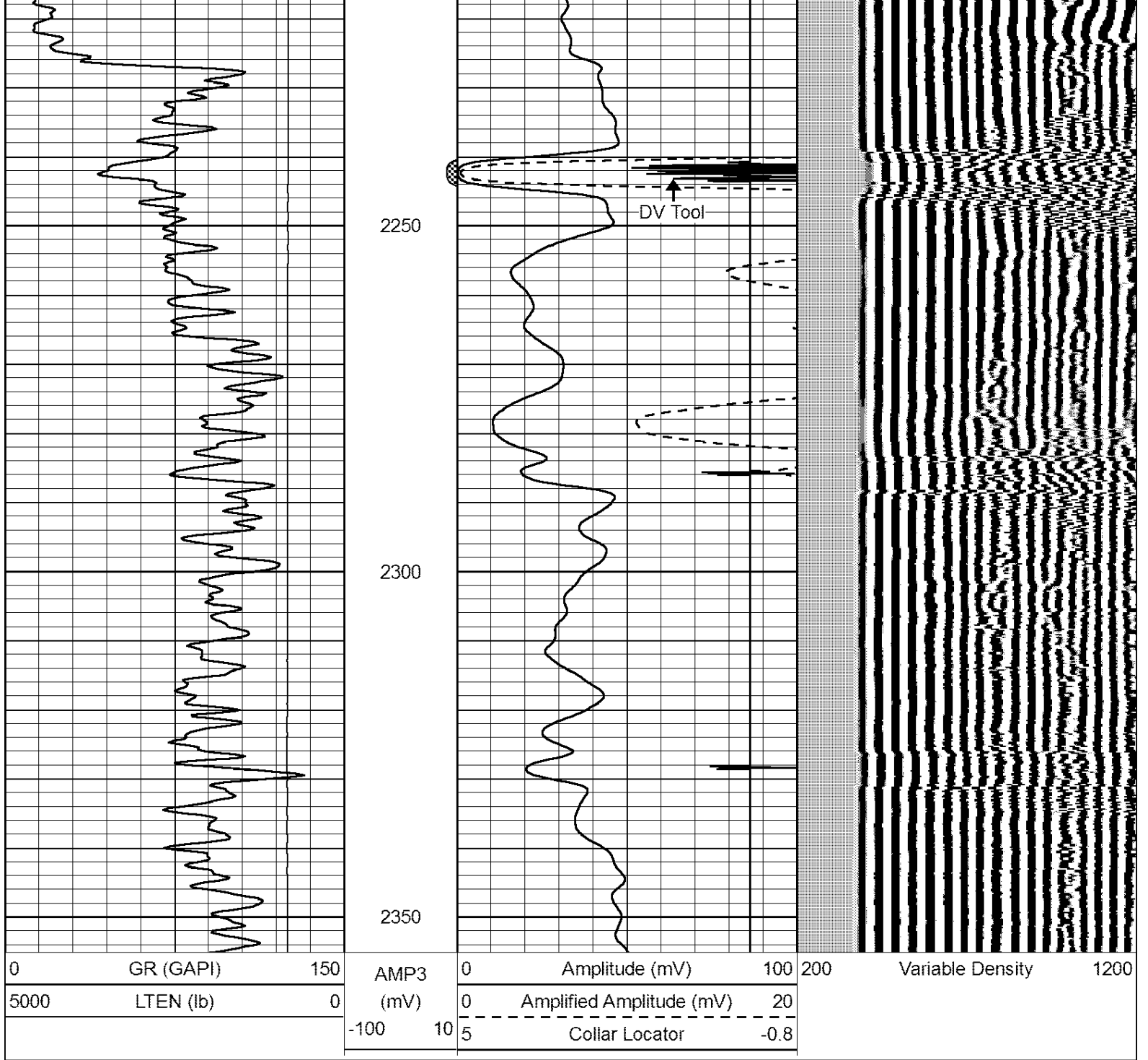
Comments

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Shields Ks.
Hwy 4 and 23 North, 1 West, 2 South, 1/4 East
South Into

Database File: credo_grace1-15.db
Dataset Pathname: grcbl/pass5
Presentation Format: cbl dig
Dataset Creation: Tue Apr 17 09:44:18 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	AMP3	0	Amplitude (mV)	100	200	Variable Density	1200
5000	LTEN (lb)	0	(mV)	0	Amplified Amplitude (mV)	20			
			-100 10	5	Collar Locator	-0.8			

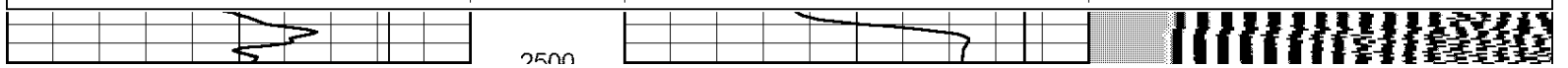


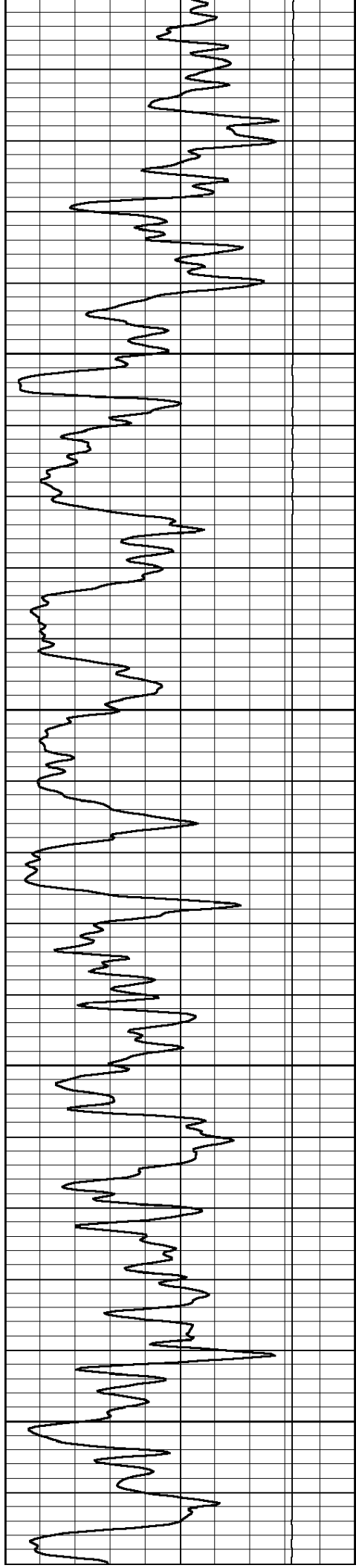


Main Pass

Database File: credo_grace1-15.db
 Dataset Pathname: grcbl/pass3.1
 Presentation Format: cbl dig
 Dataset Creation: Tue Apr 17 10:05:01 2012 by Calc SCH 111116
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	AMP3	0	Amplitude (mV)	100	200	Variable Density	1200
5000	LTEN (lb)	0	(mV)	0	Amplified Amplitude (mV)	20			
			-100 10	5	Collar Locator	-0.8			





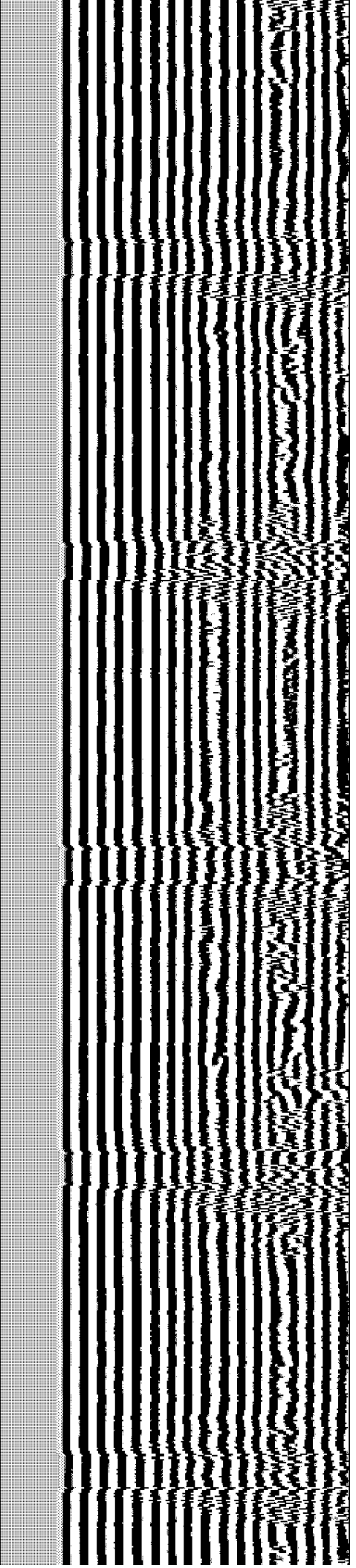
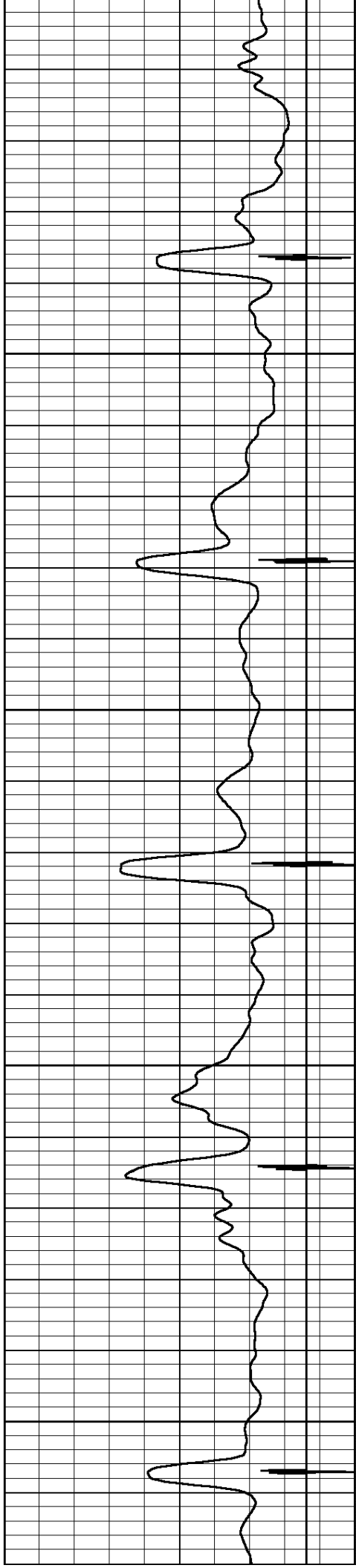
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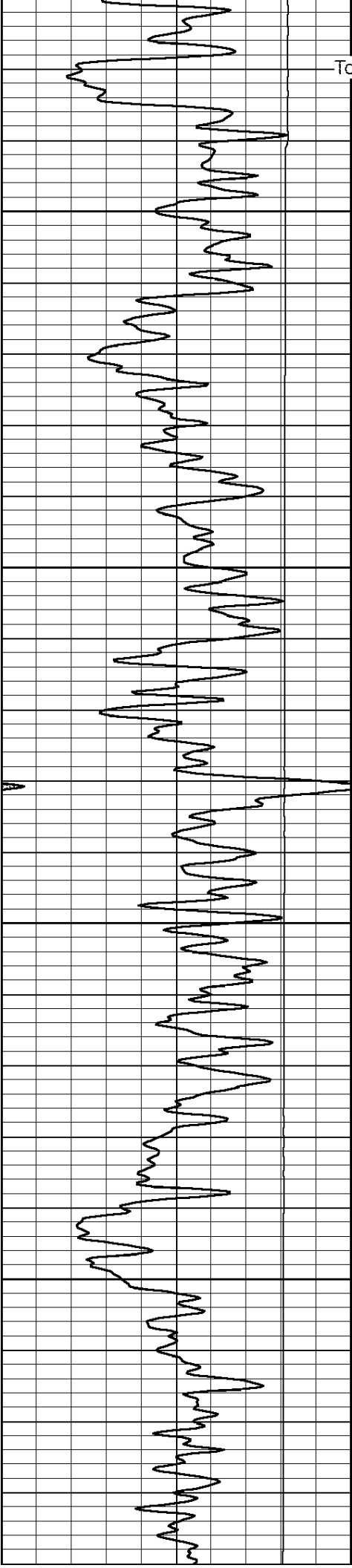
2550

2600

2650

2700





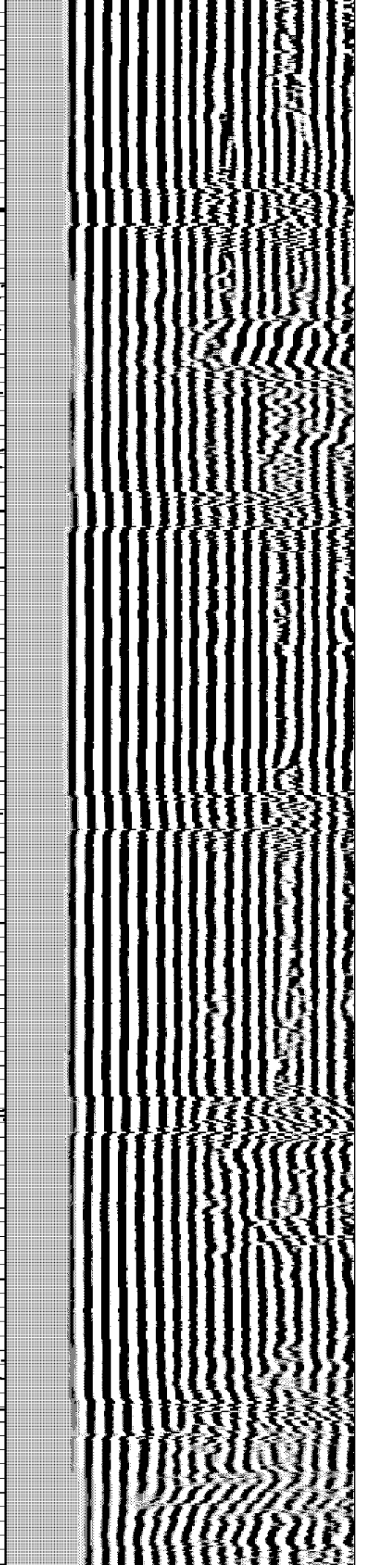
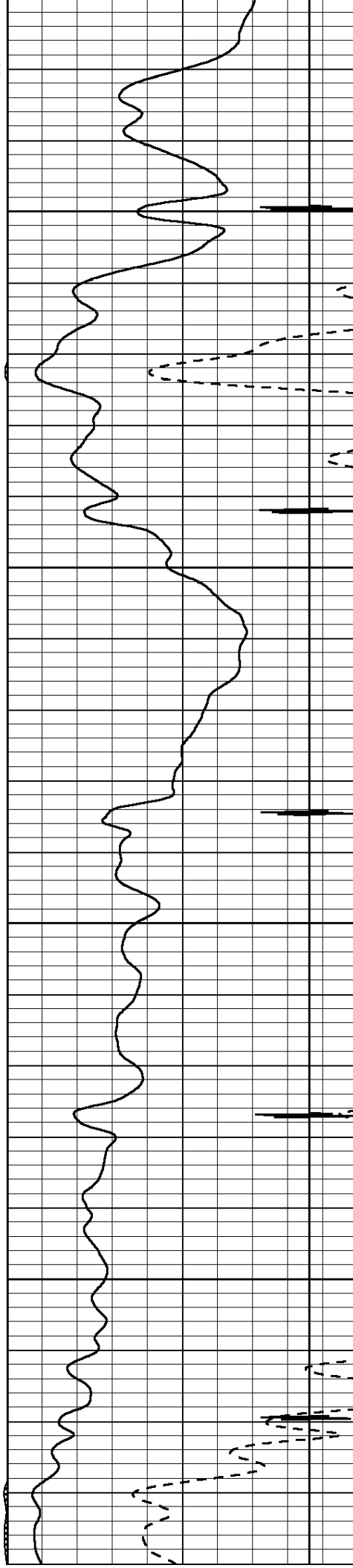
Top of Cement

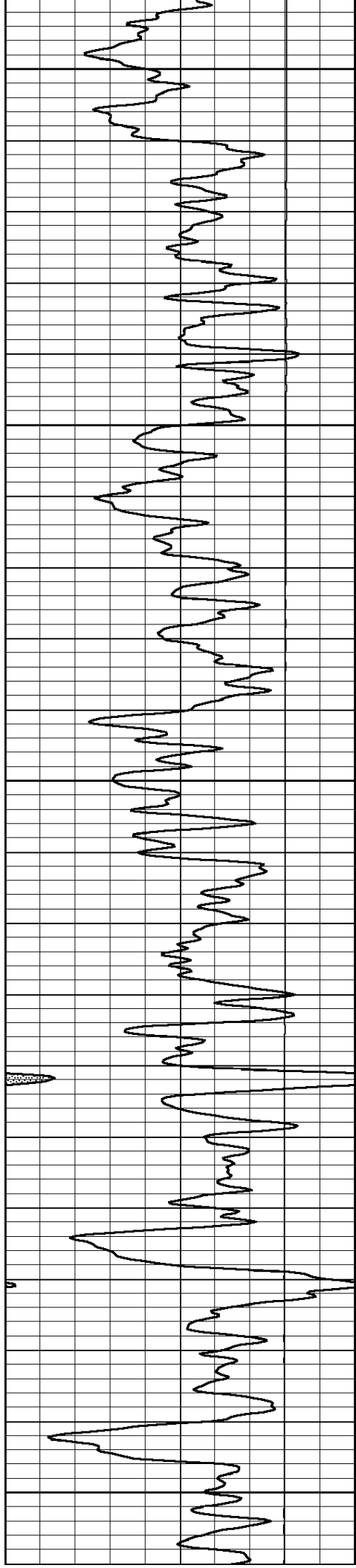
2750

2800

2850

2900





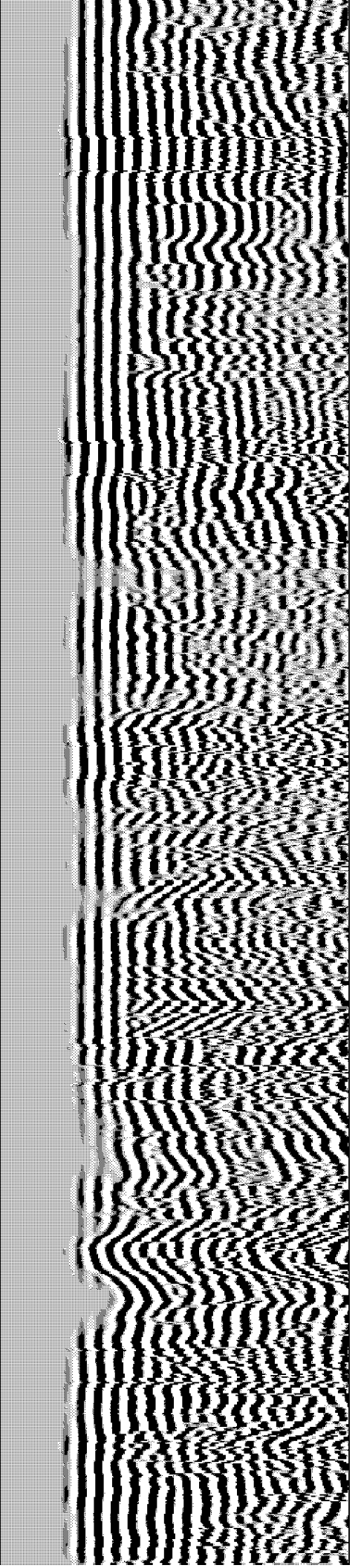
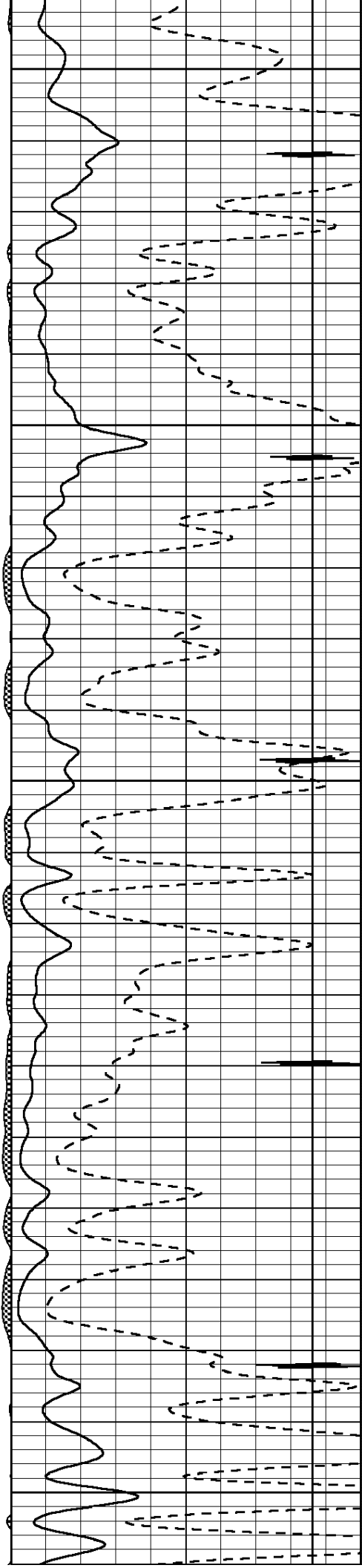
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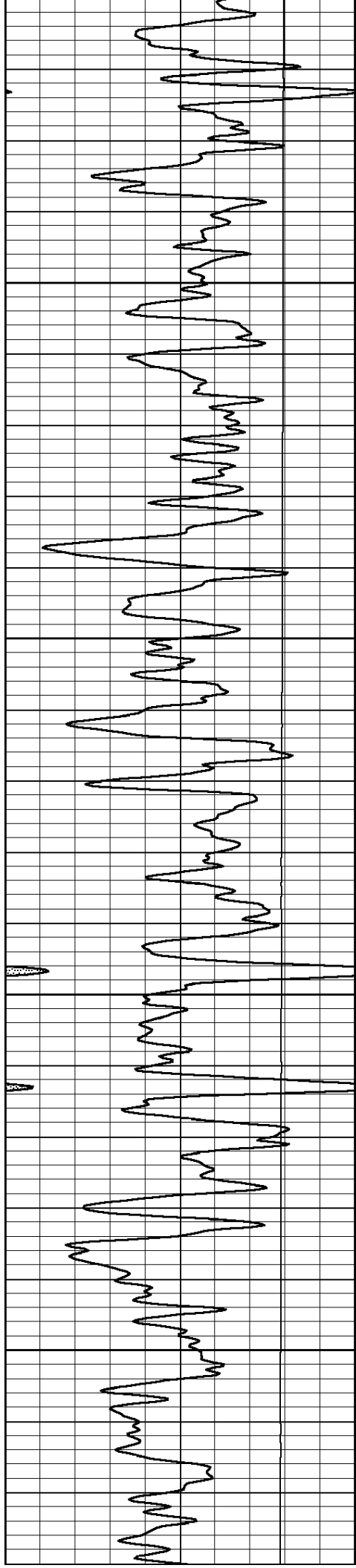
3000

3050

3100

3150



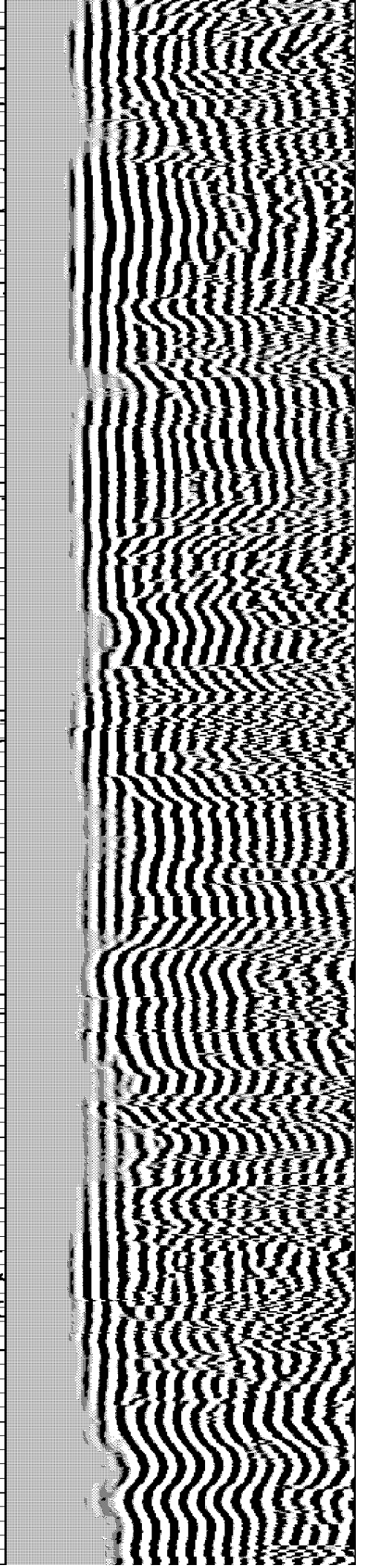
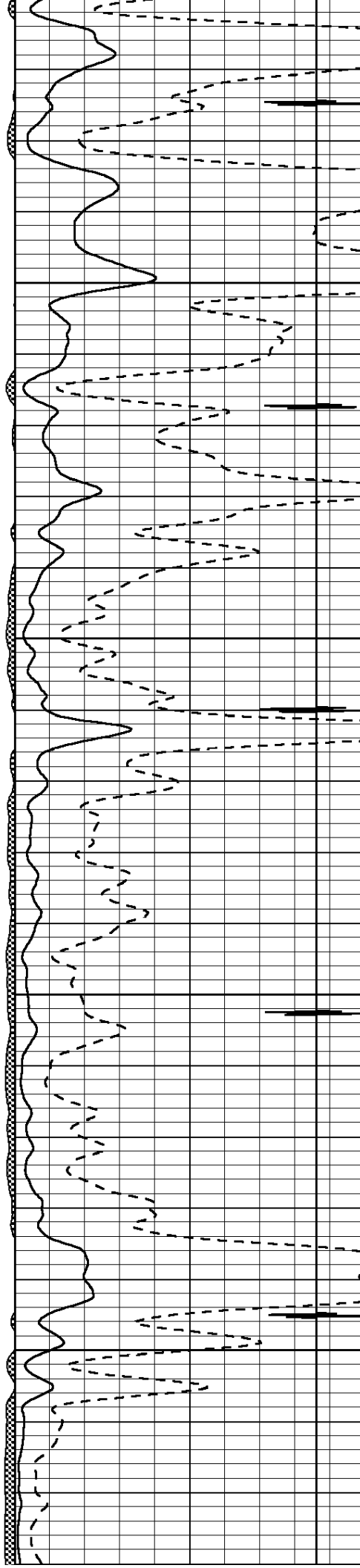


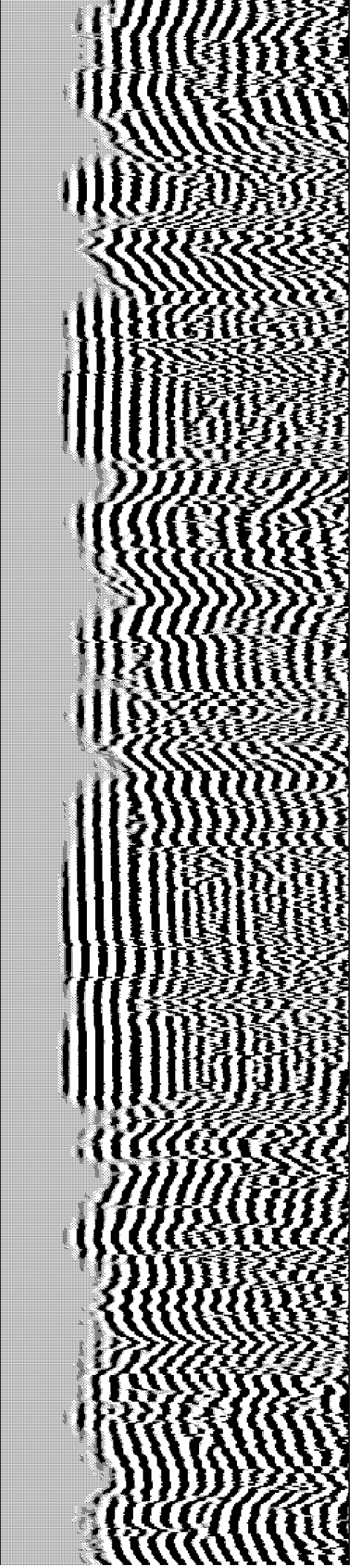
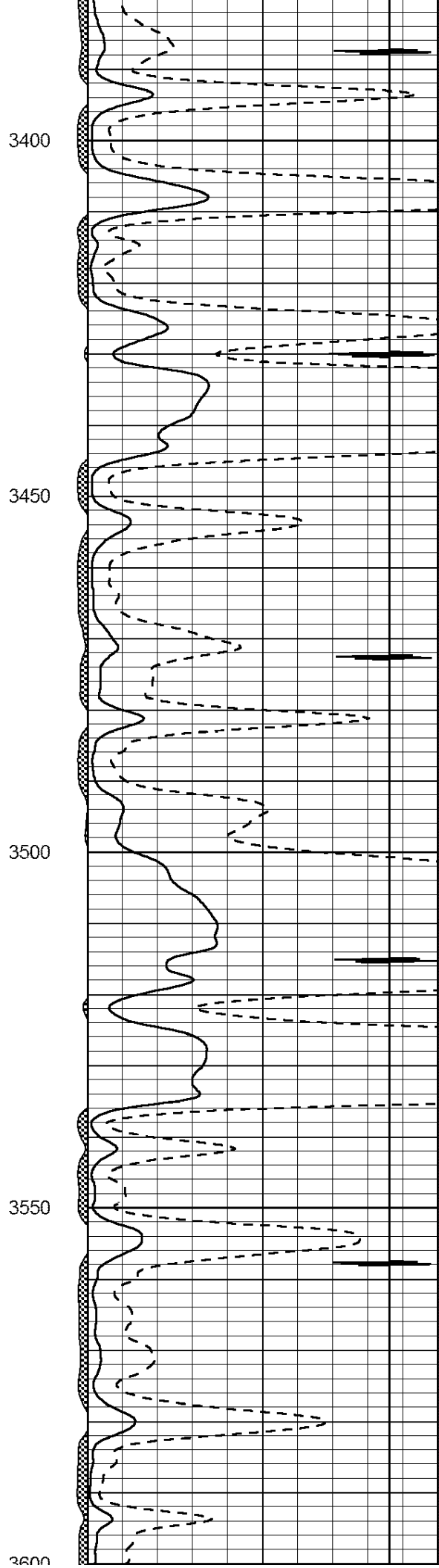
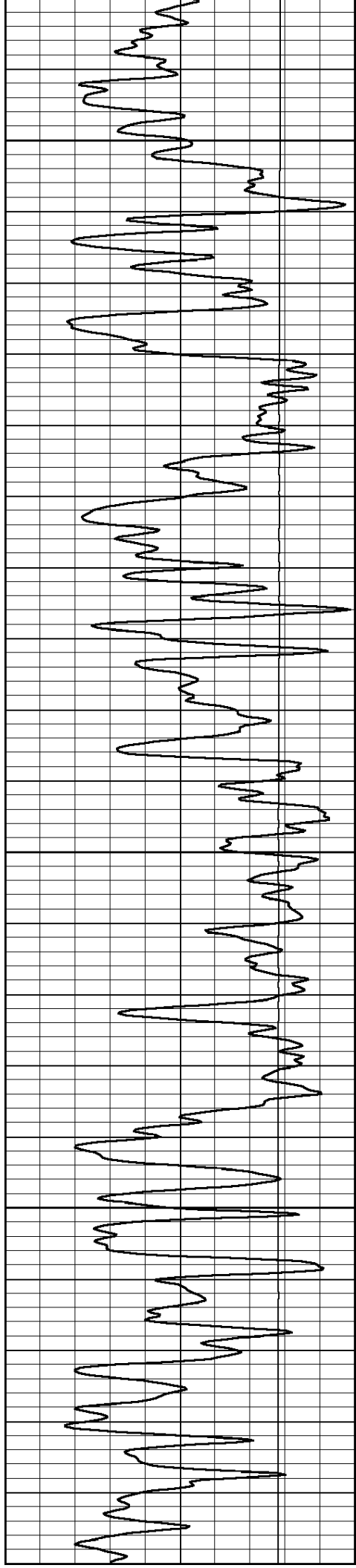
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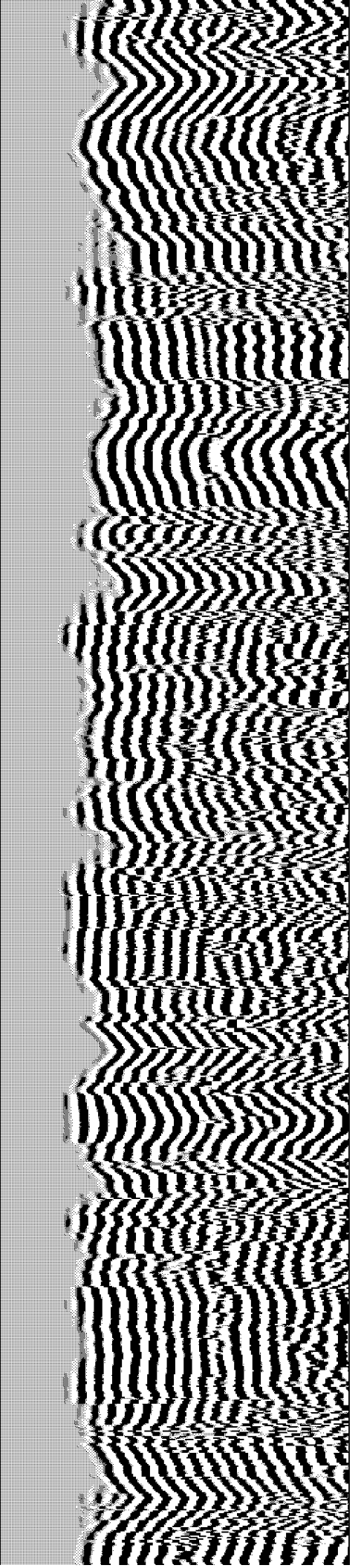
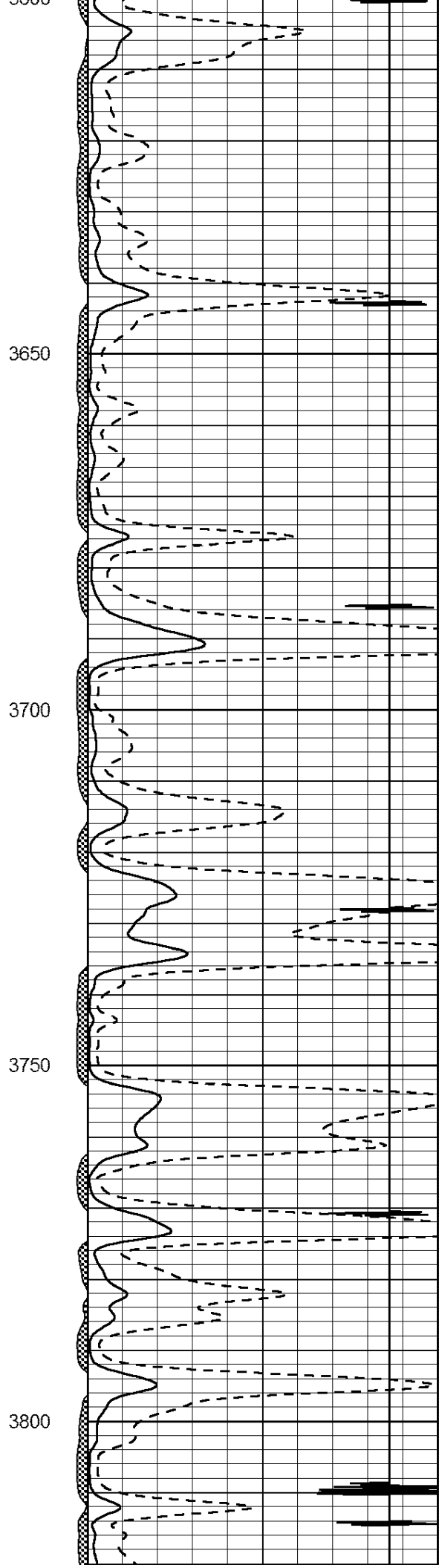
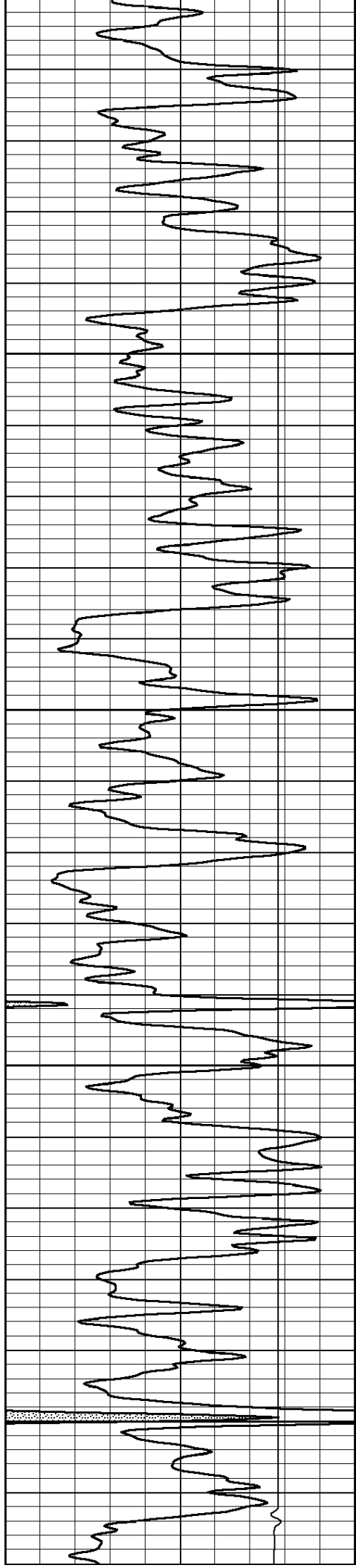
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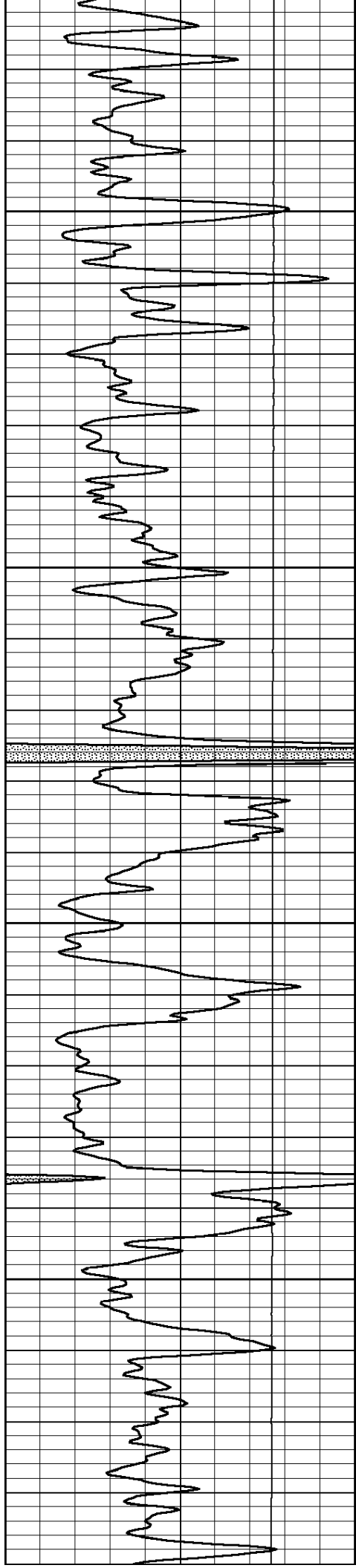
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3350







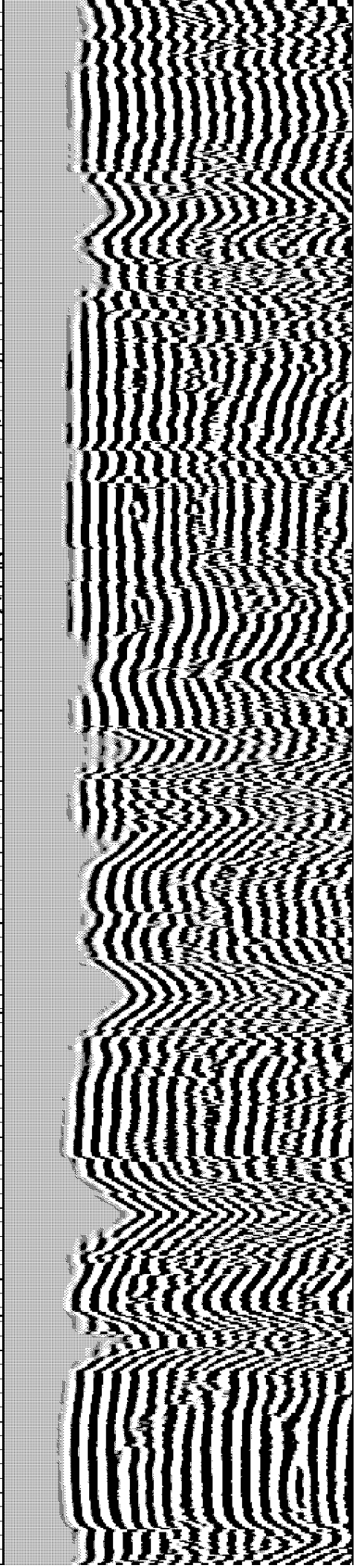
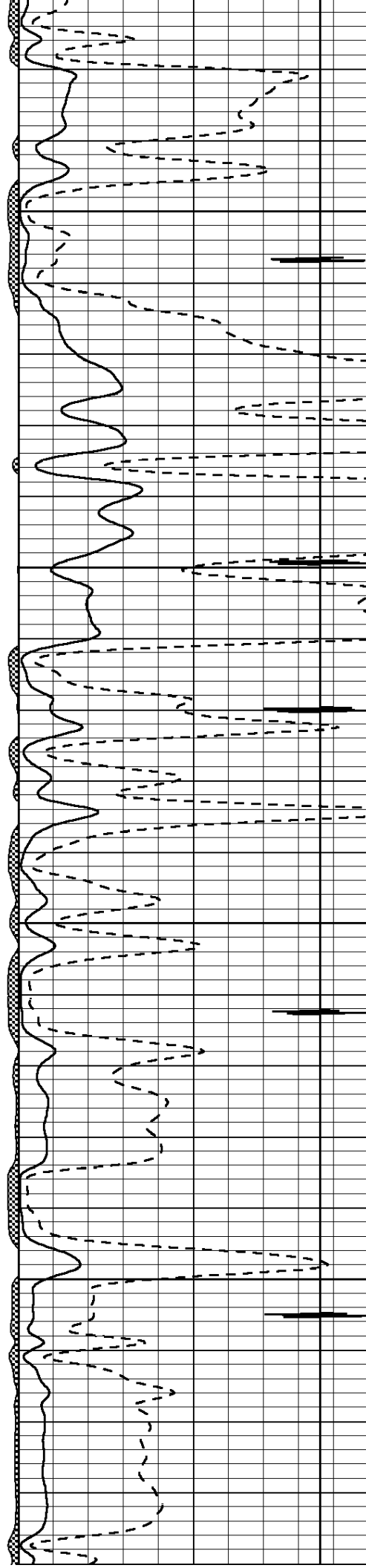


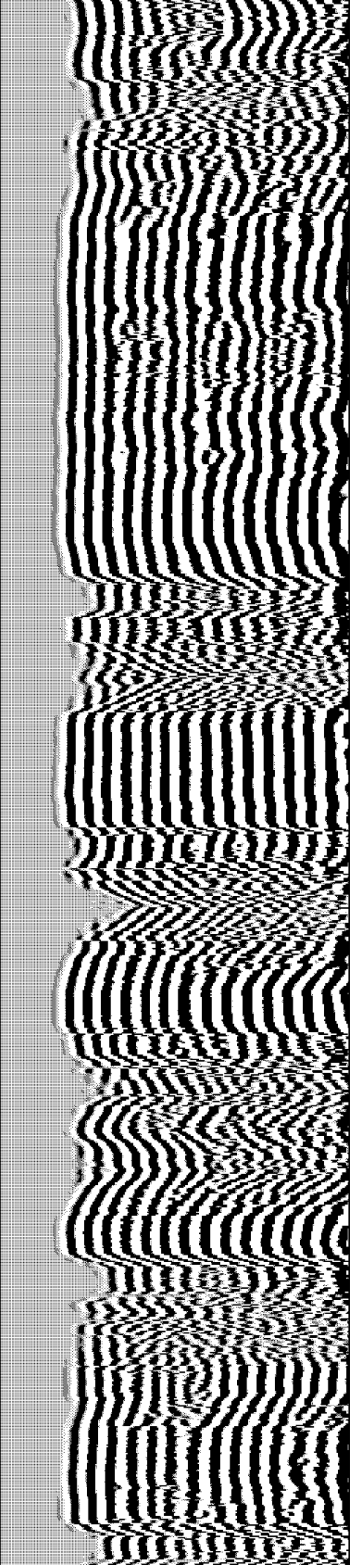
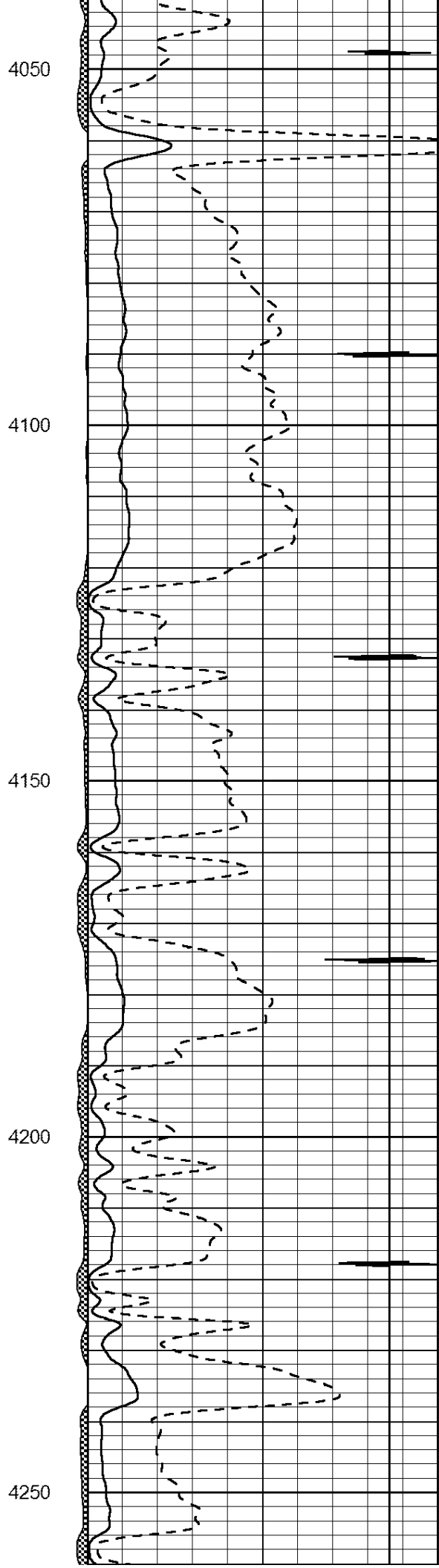
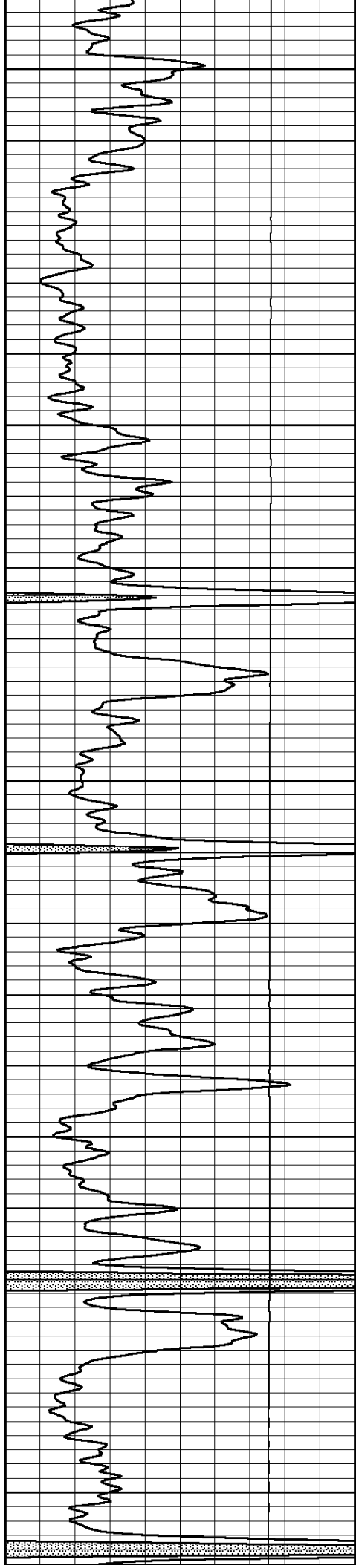
3850

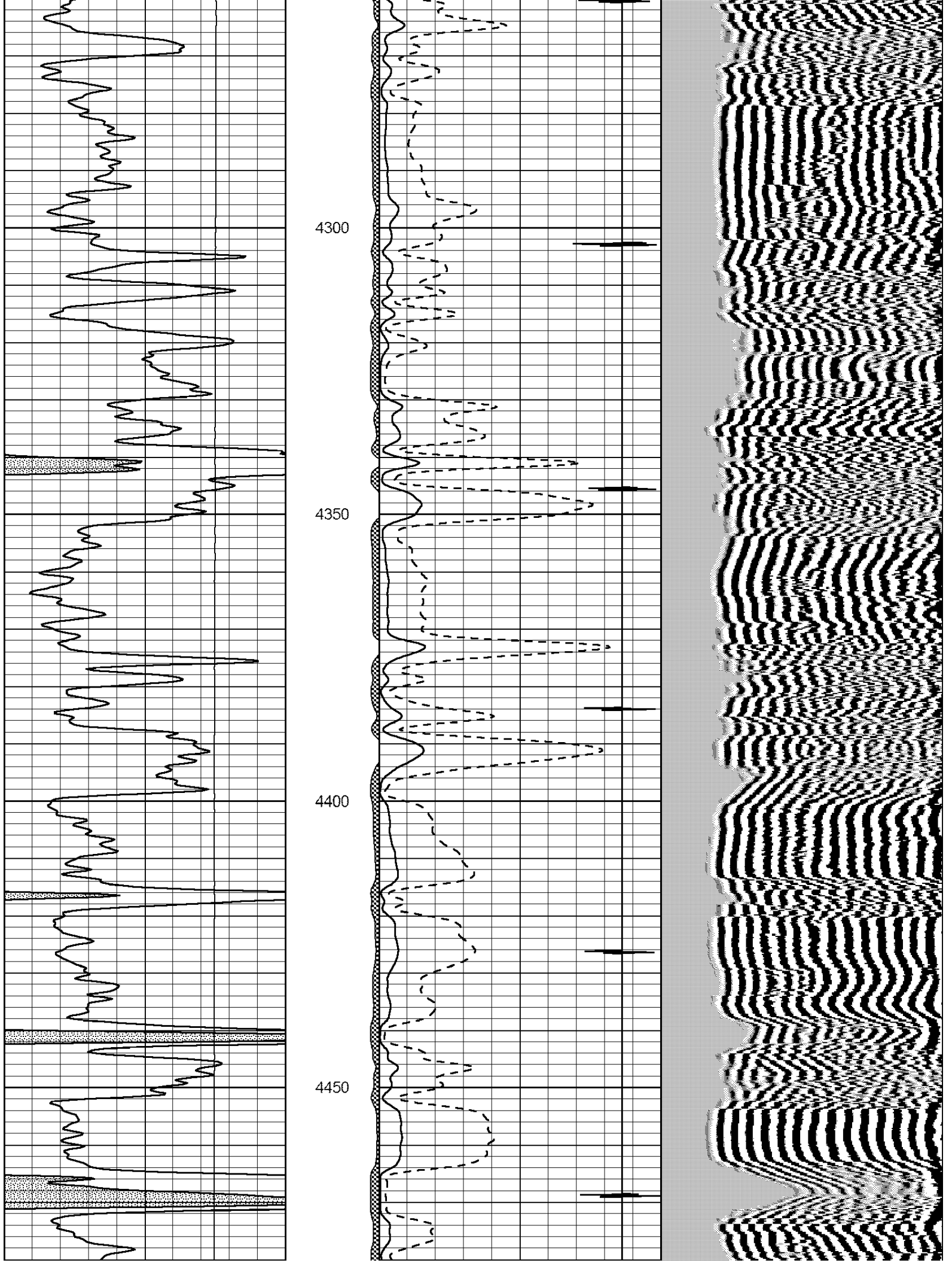
3900

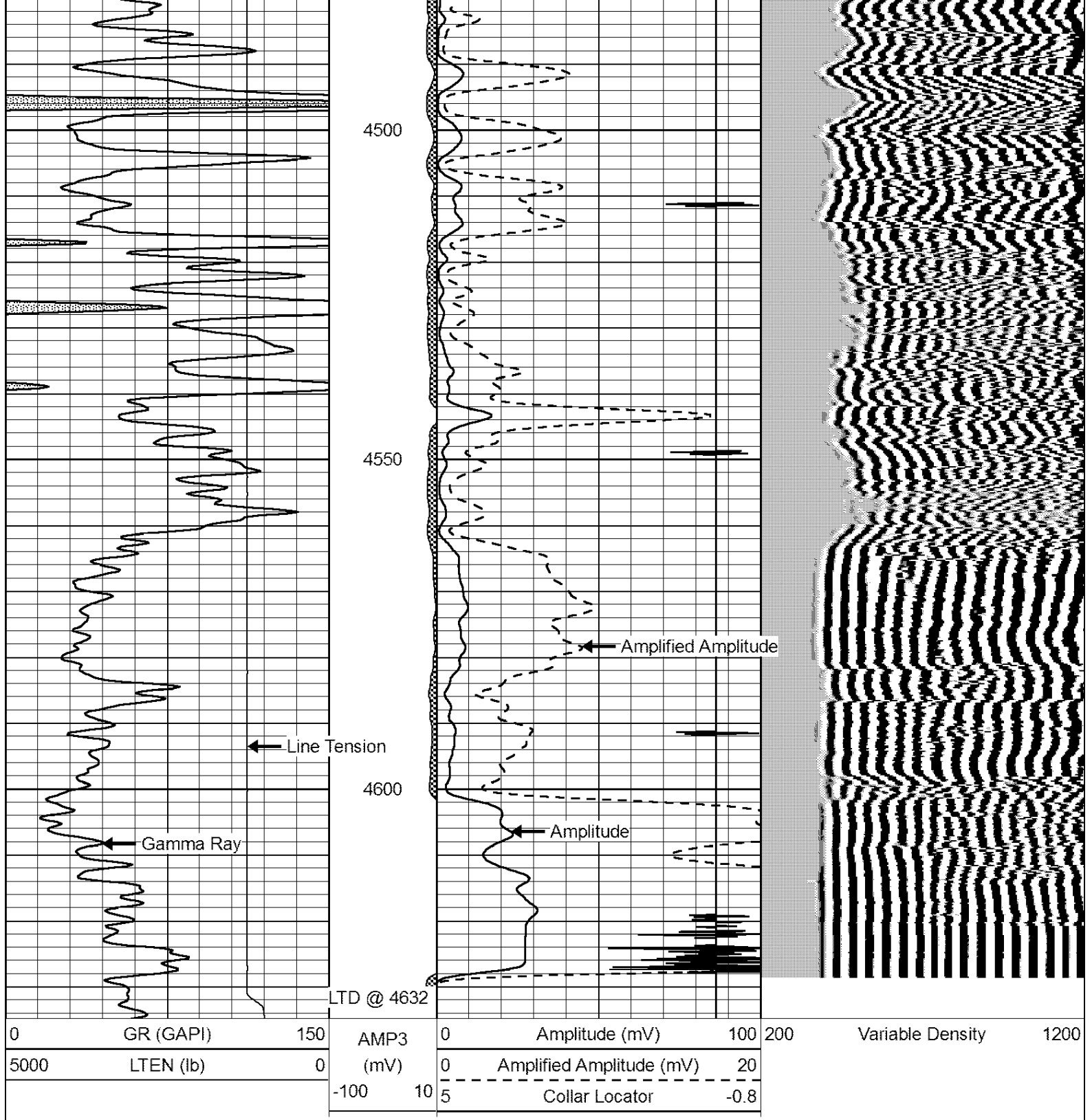
3950

4000



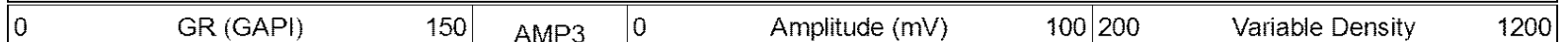






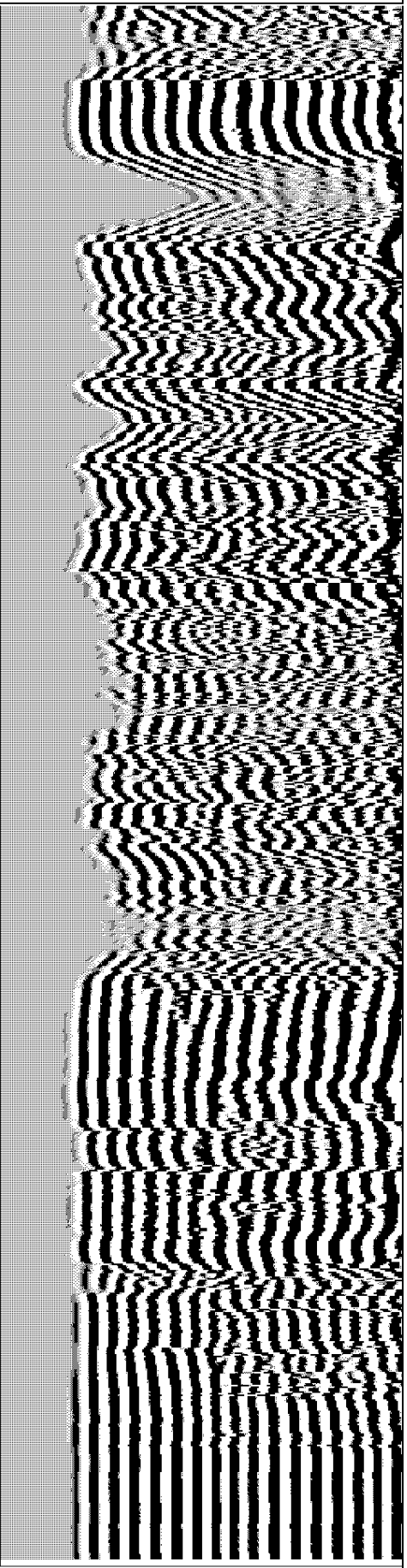
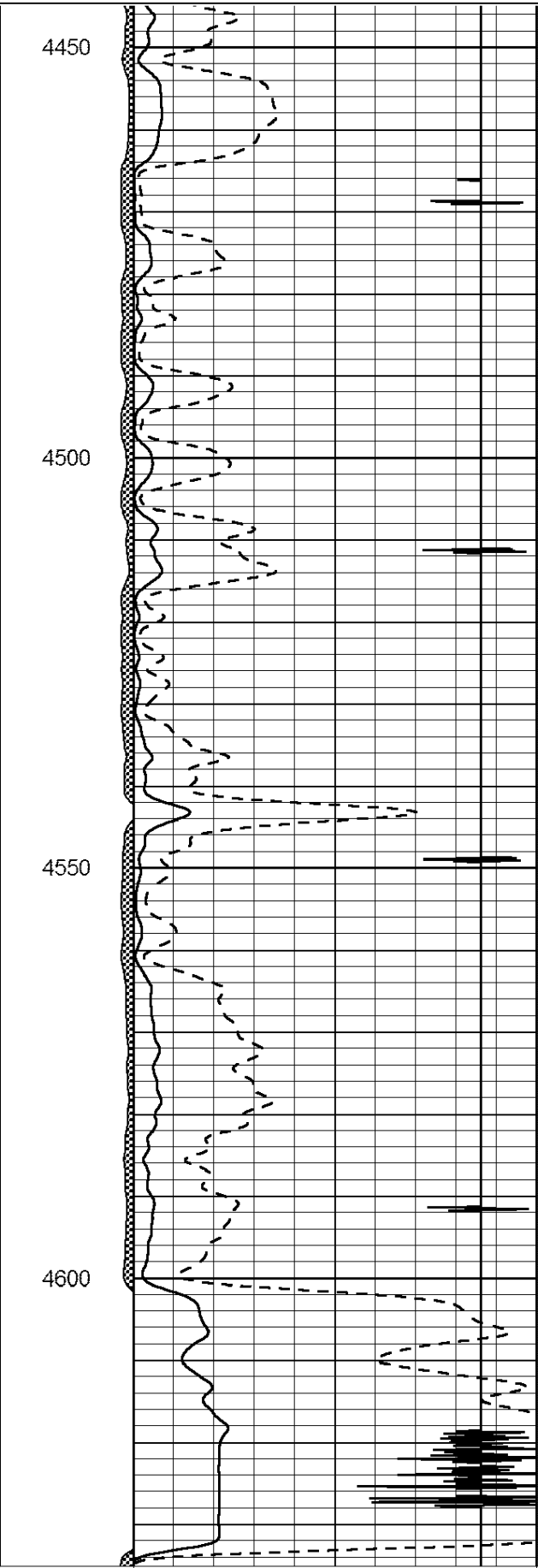
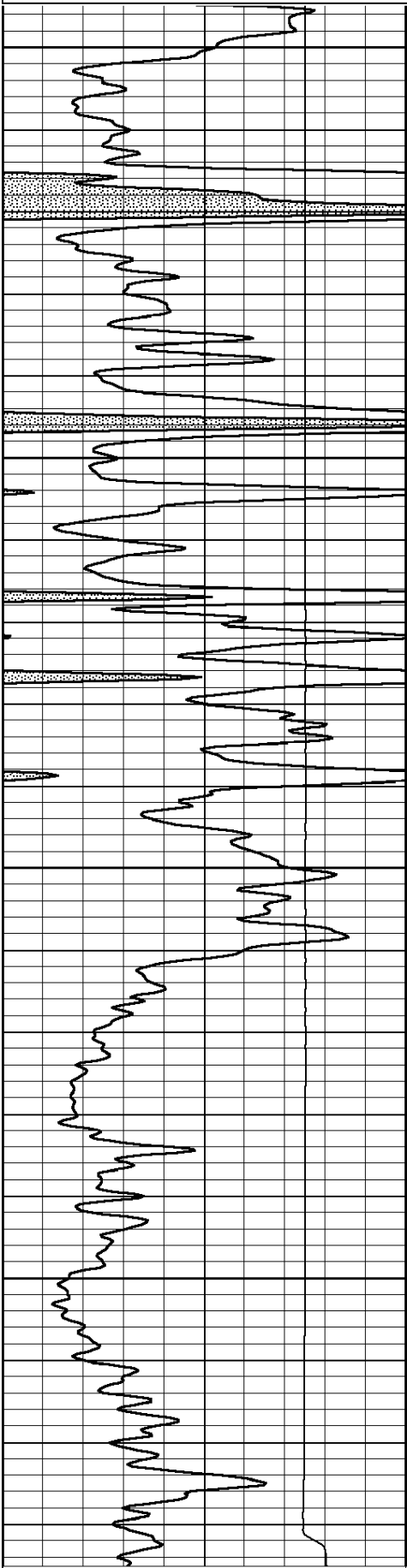
Repeat Section

Database File: credo_grace1-15.db
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 Presentation Format: cbl dig
 Dataset Creation: Tue Apr 17 09:33:34 2012 by Calc SCH 111116
 Charted by: Depth in Feet scaled 1:240



5000 LTEN (lb) 0

(mV) 0 20
-100 10 5 Amplified Amplitude (mV)
Collar Locator -0.8



0 GR (GAPI) 150
5000 LTEN (lb) 0

AMP3 0 100
(mV) 0 20
-100 10 5 Amplified Amplitude (mV)
Collar Locator -0.8

200 Variable Density 1200