



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1077428
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1077428

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	RILEY 1-22
Doc ID	1077428

All Electric Logs Run

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

April 03, 2012

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

Re: ACO1
API 15-101-22344-00-00
RILEY 1-22
NE/4 Sec.22-17S-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



DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

Riley # 1-22

22-17s-29w Lane,KS

Start Date: 2012.02.02 @ 10:40:01

End Date: 2012.02.02 @ 18:12:30

Job Ticket #: 45000 DST #: 1

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

Printed: 2012.02.08 @ 11:38:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-17s-29w Lane, KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45000

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.02.02 @ 10:40:01

GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:00

Time Test Ended: 18:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 46

Interval: **4124.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Reference Elevations: 2805.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2800.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8650** Outside

Press @ Run Depth: 162.93 psig @ 4125.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.02

End Date:

2012.02.02

Last Calib.:

2012.02.02

Start Time: 10:40:01

End Time:

18:12:30

Time On Btm:

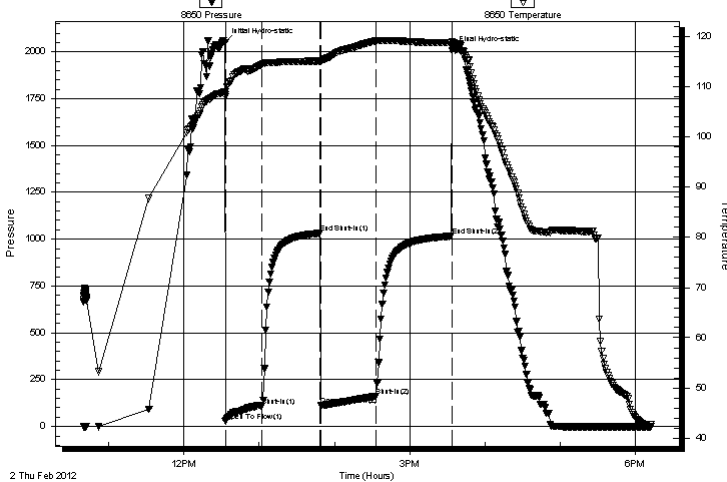
2012.02.02 @ 12:32:45

Time Off Btm:

2012.02.02 @ 15:34:00

TEST COMMENT: IF- Surface Blow Built to BOB in 20 1/2 min
IS- No Blow
FF- Surface Blow Built to BOB in 29 min
FS- Weak Surface Blow in 12 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.17	108.97	Initial Hydro-static
1	28.83	108.03	Open To Flow (1)
30	107.73	114.53	Shut-In(1)
76	1031.73	115.19	End Shut-In(1)
77	112.25	115.05	Open To Flow (2)
121	162.93	119.16	Shut-In(2)
181	1016.22	118.77	End Shut-In(2)
182	2006.59	118.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GO 10%g 90%oil	0.22
48.00	GOCM 15%g 15%oil 70%m	0.24
63.00	WGOCM 5%w 10%g 30%oil 55%m	0.62
63.00	GOWCM 5%g 5%oil 30%w 60%m	0.88
120.00	OGMCW 2%oil 3%g 25%m 70%w	1.68
0.00	189' of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

22-17s-29w Lane,KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45000

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.02.02 @ 10:40:01

Tool Information

Drill Pipe:	Length: 3984.00 ft	Diameter: 3.80 inches	Volume: 55.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 6000.00 lb
			<u>Total Volume: 56.49 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4124.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	136.00 ft			
Tool Length:	163.50 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			4097.50	
Shut In Tool	5.00			4102.50	
Hydraulic tool	5.00			4107.50	
Jars	5.00			4112.50	
Safety Joint	2.50			4115.00	
Packer	5.00			4120.00	27.50 Bottom Of Top Packer
Packer	4.00			4124.00	
Stubb	1.00			4125.00	
Recorder	0.00	8675	Inside	4125.00	
Recorder	0.00	8650	Outside	4125.00	
Perforations	33.00			4158.00	
Change Over Sub	1.00			4159.00	
Drill Pipe	94.00			4253.00	
Change Over Sub	1.00			4254.00	
Perforations	3.00			4257.00	
Bullnose	3.00			4260.00	136.00 Bottom Packers & Anchor
Total Tool Length:	163.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-17s-29w Lane,KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45000

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.02.02 @ 10:40:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GO 10%g 90%oil	0.221
48.00	GOCM 15%g 15%oil 70%m	0.236
63.00	WGOCM 5%w 10%g 30%oil 55%m	0.620
63.00	GOWCM 5%g 5%oil 30%w 60%m	0.884
120.00	OGMCW 2%oil 3%g 25%m 70%w	1.683
0.00	189' of GIP	0.000

Total Length: 339.00 ft Total Volume: 3.644 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

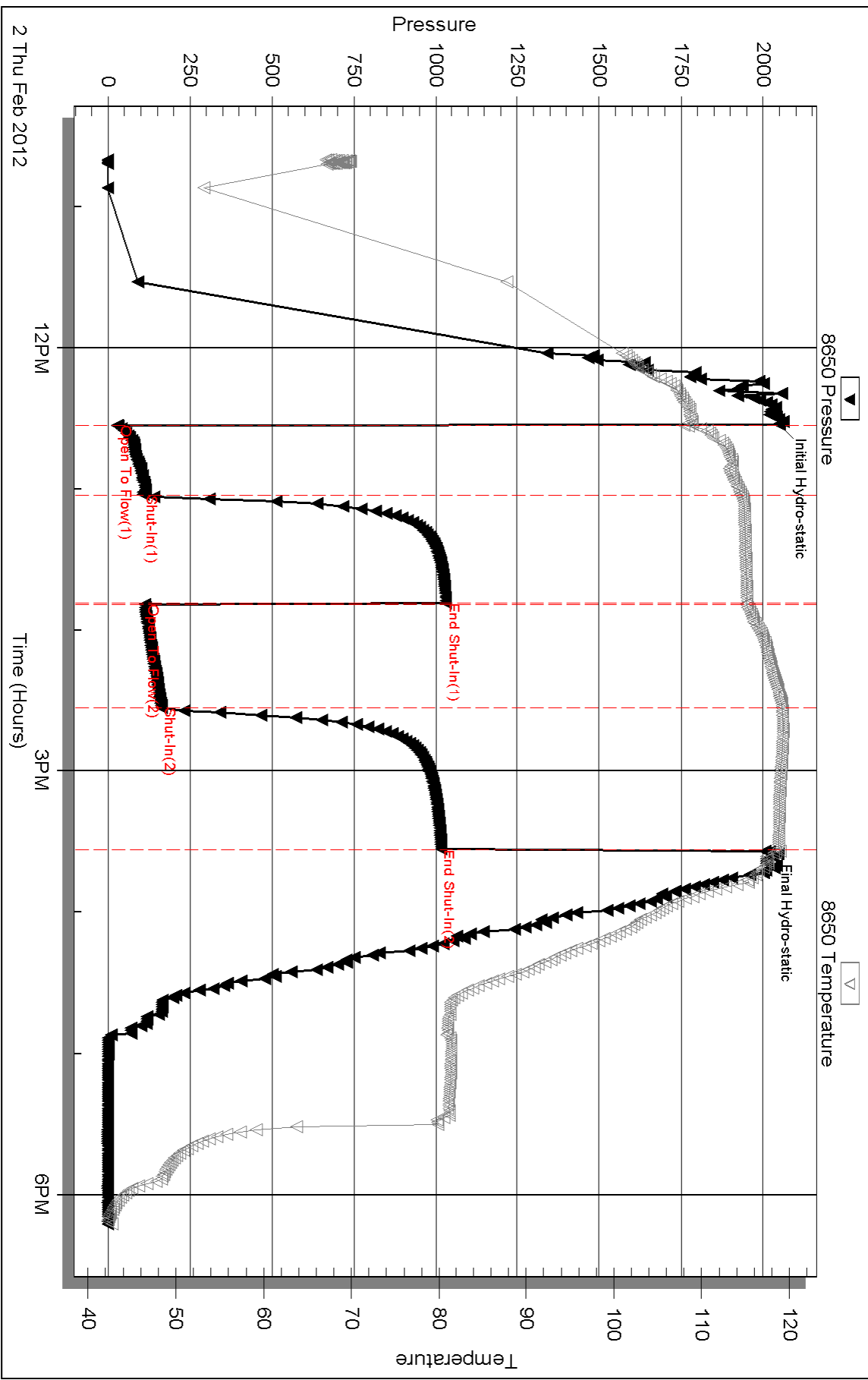
Laboratory Name:

Laboratory Location:

Recovery Comments: API is 37 @ 50f = 38

RW is 0.43 @ 47f = 23000

Pressure vs. Time



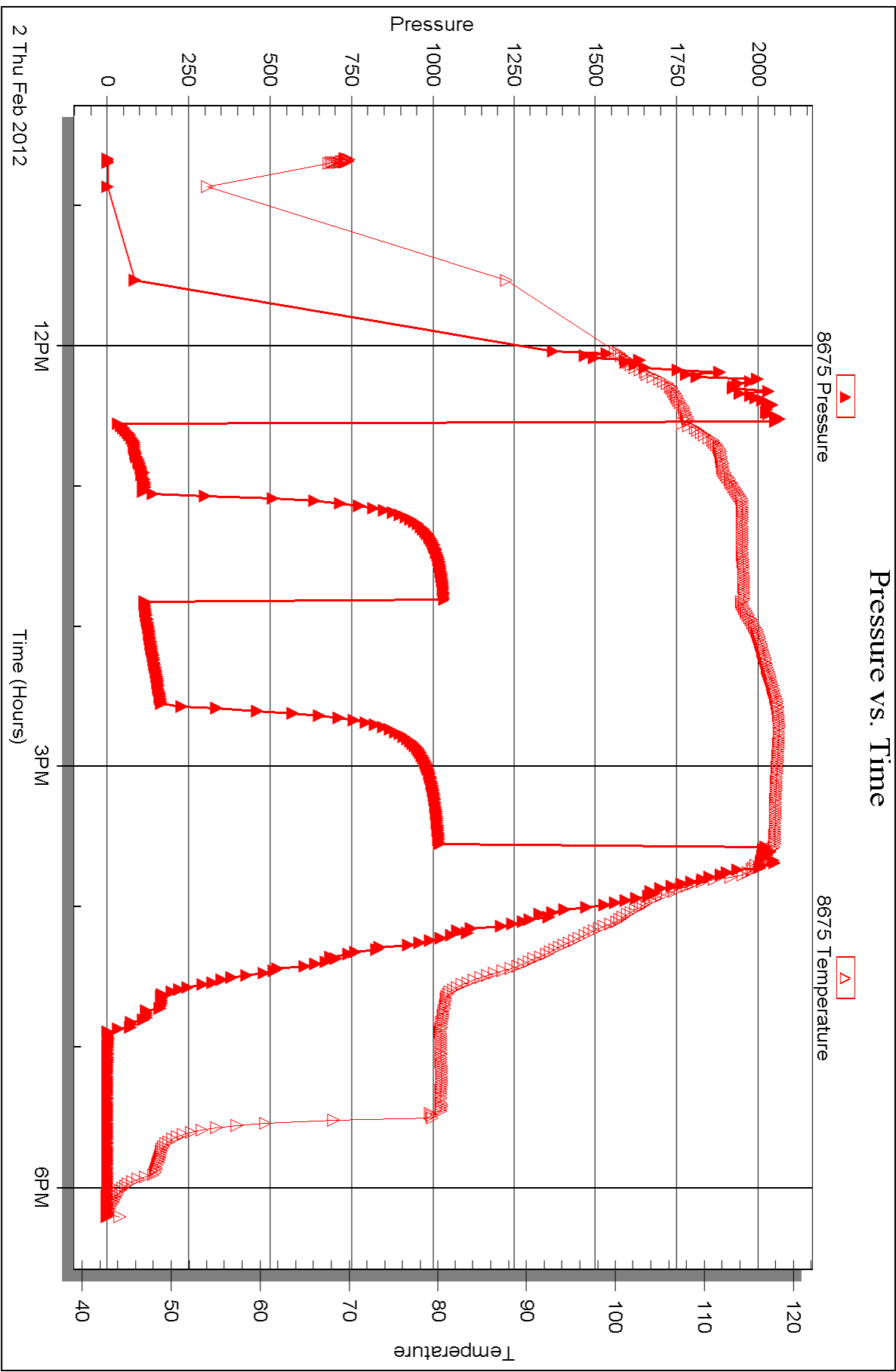
Serial #: 8675

Inside

Credo Petroleum Corp.

Riley # 1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

Riley # 1-22

22-17s-29w Lane,KS

Start Date: 2012.02.03 @ 11:39:00

End Date: 2012.02.03 @ 17:51:29

Job Ticket #: 45126 DST #: 2

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

Printed: 2012.02.08 @ 11:37:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.
1801 Broadway #900
Denver CO 80202
ATTN: Bruce Ard

22-17s-29w Lane, KS
Riley # 1-22
Job Ticket: 45126 **DST#: 2**
Test Start: 2012.02.03 @ 11:39:00

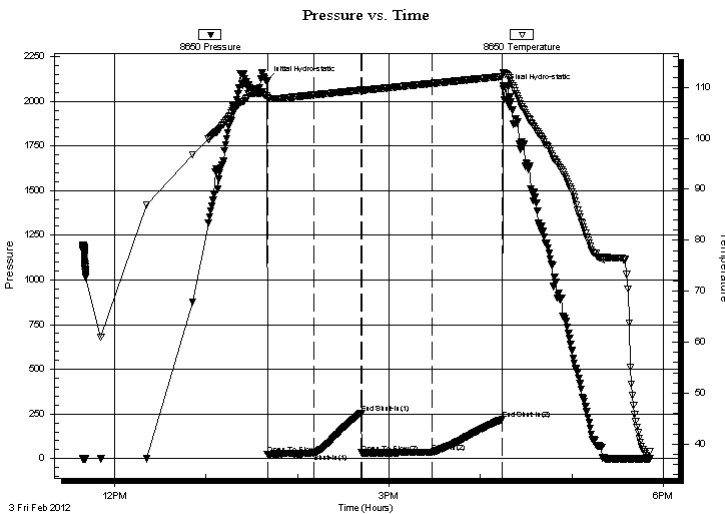
GENERAL INFORMATION:

Formation: **L & Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:40:14
 Time Test Ended: 17:51:29
 Interval: **4258.00 ft (KB) To 4384.00 ft (KB) (TVD)**
 Total Depth: 4384.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 46
 Reference Elevations: 2805.00 ft (KB)
 2800.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8650 Outside
 Press @ Run Depth: 34.32 psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.03 End Date: 2012.02.03 Last Calib.: 2012.02.03
 Start Time: 11:39:00 End Time: 17:51:29 Time On Btm: 2012.02.03 @ 13:39:59
 Time Off Btm: 2012.02.03 @ 16:14:44

TEST COMMENT: IF- Surface Blow 1/2"
 IS- No Blow
 FF- No Blow
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.66	108.29	Initial Hydro-static
1	22.60	107.78	Open To Flow (1)
31	28.71	108.51	Shut-In(1)
62	254.40	109.45	End Shut-In(1)
62	31.08	109.39	Open To Flow (2)
108	34.32	110.75	Shut-In(2)
155	218.84	112.12	End Shut-In(2)
155	2069.81	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud	0.10

* 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.

22-17s-29w Lane,KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45126

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.02.03 @ 11:39:00

Tool Information

Drill Pipe:	Length: 4112.00 ft	Diameter: 3.80 inches	Volume: 57.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 58.28 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	3.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4258.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	126.00 ft			
Tool Length:	153.50 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			4231.50	
Shut In Tool	5.00			4236.50	
Hydraulic tool	5.00			4241.50	
Jars	5.00			4246.50	
Safety Joint	2.50			4249.00	
Packer	5.00			4254.00	27.50 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Perforations	3.00			4262.00	
Recorder	0.00	8675	Inside	4262.00	
Recorder	0.00	8650	Outside	4262.00	
Perforations	20.00			4282.00	
Change Over Sub	1.00			4283.00	
Drill Pipe	94.00			4377.00	
Change Over Sub	1.00			4378.00	
Perforations	3.00			4381.00	
Bullnose	3.00			4384.00	126.00 Bottom Packers & Anchor
Total Tool Length:	153.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-17s-29w Lane, KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45126

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.02.03 @ 11:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 23000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

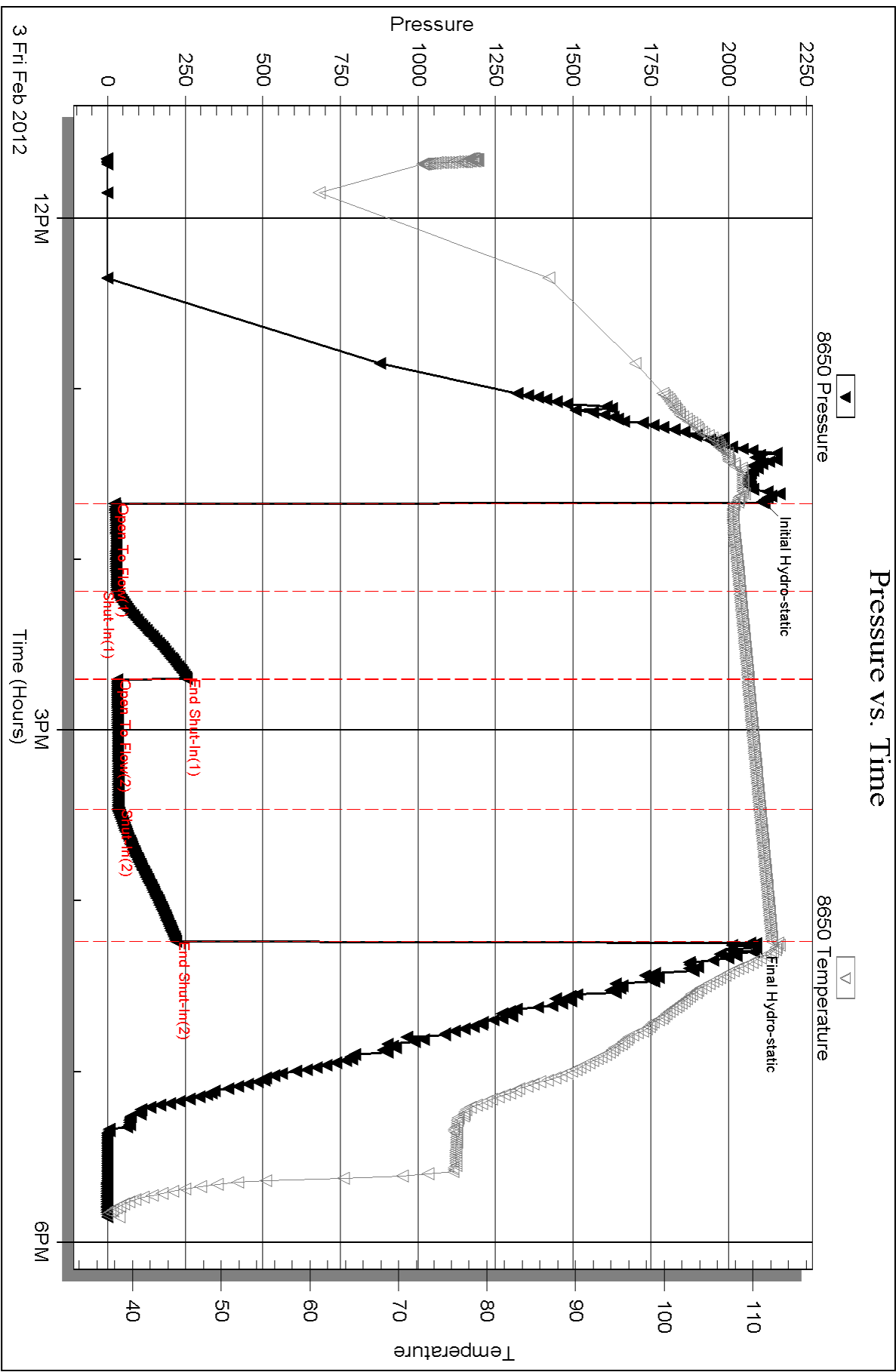
Recovery Comments:

Serial #: 8650

Outside Credo Petroleum Corp.

Riley # 1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45126

Printed: 2012.02.08 @ 11:37:54

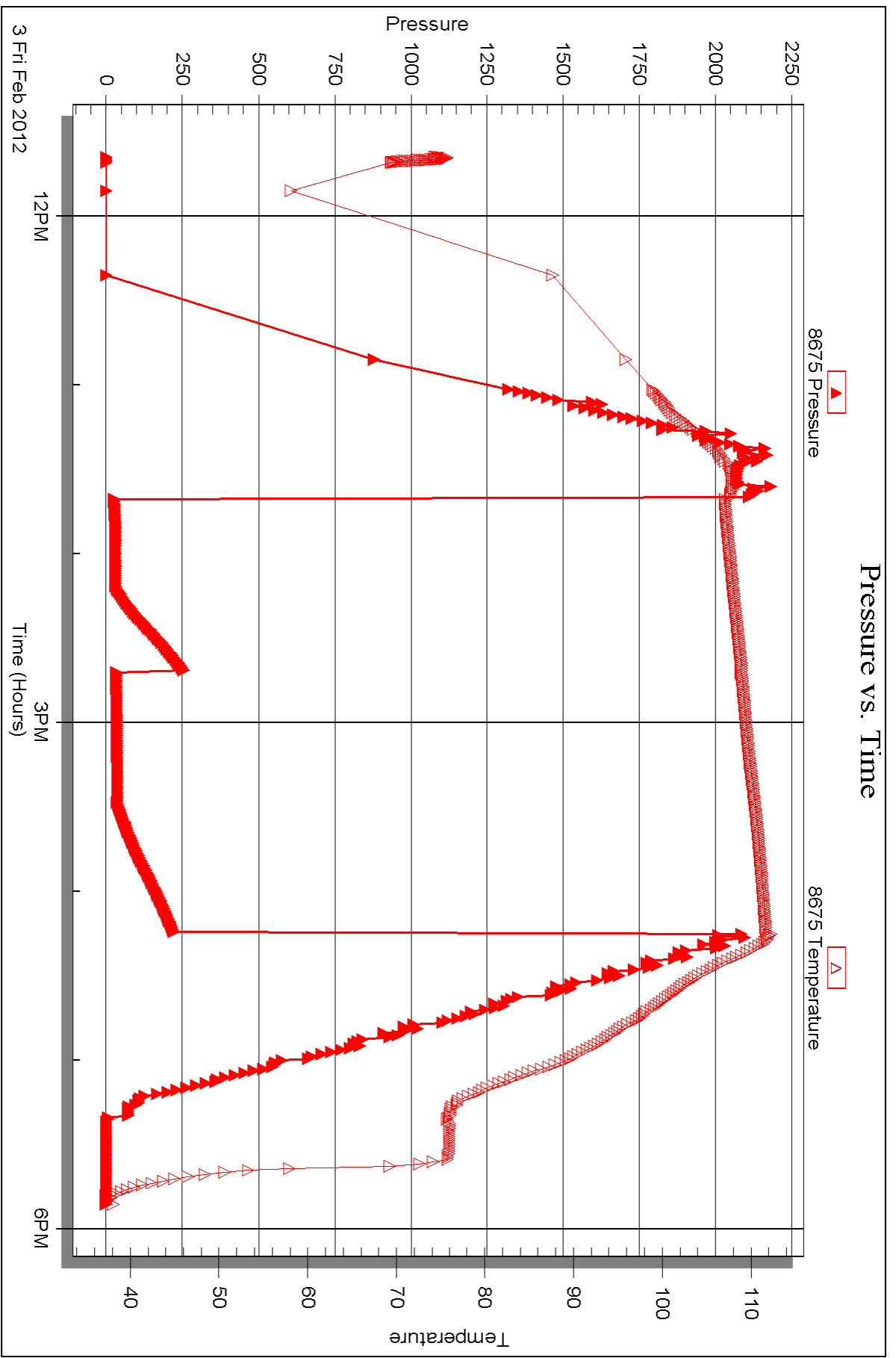
Serial #: 8675

Inside

Credo Petroleum Corp.

Riley # 1-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

Riley # 1-22

22-17s-29w Lane,KS

Start Date: 2012.02.04 @ 05:37:00

End Date: 2012.02.04 @ 12:42:44

Job Ticket #: 45127 DST #: 3

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

Printed: 2012.02.08 @ 11:37:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.
 1801 Broadway #900
 Denver CO 80202
 ATTN: Bruce Ard

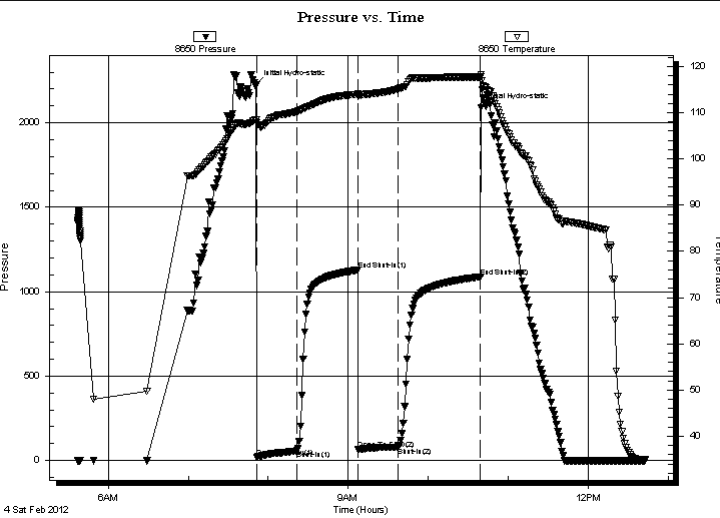
22-17s-29w Lane, KS
Riley # 1-22
 Job Ticket: 45127 **DST#: 3**
 Test Start: 2012.02.04 @ 05:37:00

GENERAL INFORMATION:

Formation: **Altamont - Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:51:14
 Time Test Ended: 12:42:44
 Interval: **4375.00 ft (KB) To 4475.00 ft (KB) (TVD)**
 Total Depth: 4475.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 46
 Reference Elevations: 2805.00 ft (KB)
 2800.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8650 Outside
 Press @ Run Depth: 80.72 psig @ 4379.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.04 End Date: 2012.02.04 Last Calib.: 2012.02.04
 Start Time: 05:37:00 End Time: 12:42:44 Time On Btm: 2012.02.04 @ 07:50:59
 Time Off Btm: 2012.02.04 @ 10:39:29

TEST COMMENT: IF- Weak Surface Blow Built to 2"
 IS- No Blow
 FF- Weak Surface Blow in 9 min
 FS- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.97	108.40	Initial Hydro-static
1	21.01	107.78	Open To Flow (1)
31	58.21	110.24	Shut-In(1)
76	1127.90	113.96	End Shut-In(1)
77	65.13	113.66	Open To Flow (2)
107	80.72	115.12	Shut-In(2)
169	1088.43	117.72	End Shut-In(2)
169	2089.44	118.27	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	100% mud	0.37
0.00	Few Oil Spots in Tool	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.

22-17s-29w Lane, KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45127

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.02.04 @ 05:37:00

GENERAL INFORMATION:

Formation: **Altamont - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:51:14

Time Test Ended: 12:42:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 46

Interval: 4375.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 2805.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

2800.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: psig @ 4379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.04

End Date:

2012.02.04

Last Calib.:

2012.02.04

Start Time: 05:37:01

End Time:

12:42:45

Time On Btm:

Time Off Btm:

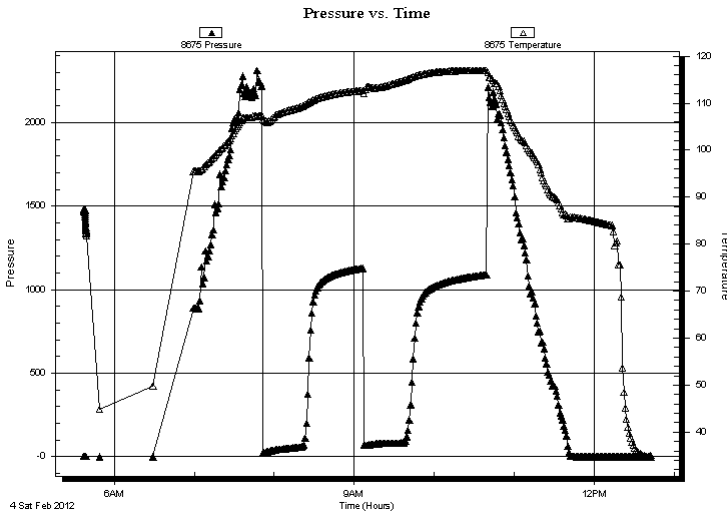
TEST COMMENT: IF- Weak Surface Blow Built to 2"

IS- No Blow

FF- Weak Surface Blow in 9 min

FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100% mud	0.37
0.00	Few Oil Spots in Tool	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.

22-17s-29w Lane,KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45127

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.02.04 @ 05:37:00

Tool Information

Drill Pipe:	Length: 4236.00 ft	Diameter: 3.80 inches	Volume: 59.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 12000.00 lb
			<u>Total Volume: 60.02 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4375.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.50 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			4348.50	
Shut In Tool	5.00			4353.50	
Hydraulic tool	5.00			4358.50	
Jars	5.00			4363.50	
Safety Joint	2.50			4366.00	
Packer	5.00			4371.00	27.50 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Perforations	3.00			4379.00	
Recorder	0.00	8675	Inside	4379.00	
Recorder	0.00	8650	Outside	4379.00	
Perforations	25.00			4404.00	
Change Over Sub	1.00			4405.00	
Drill Pipe	63.00			4468.00	
Change Over Sub	1.00			4469.00	
Perforations	3.00			4472.00	
Bullnose	3.00			4475.00	100.00 Bottom Packers & Anchor
Total Tool Length:	127.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-17s-29w Lane, KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45127

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.02.04 @ 05:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	100% mud	0.369
0.00	Few Oil Spots in Tool	0.000

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

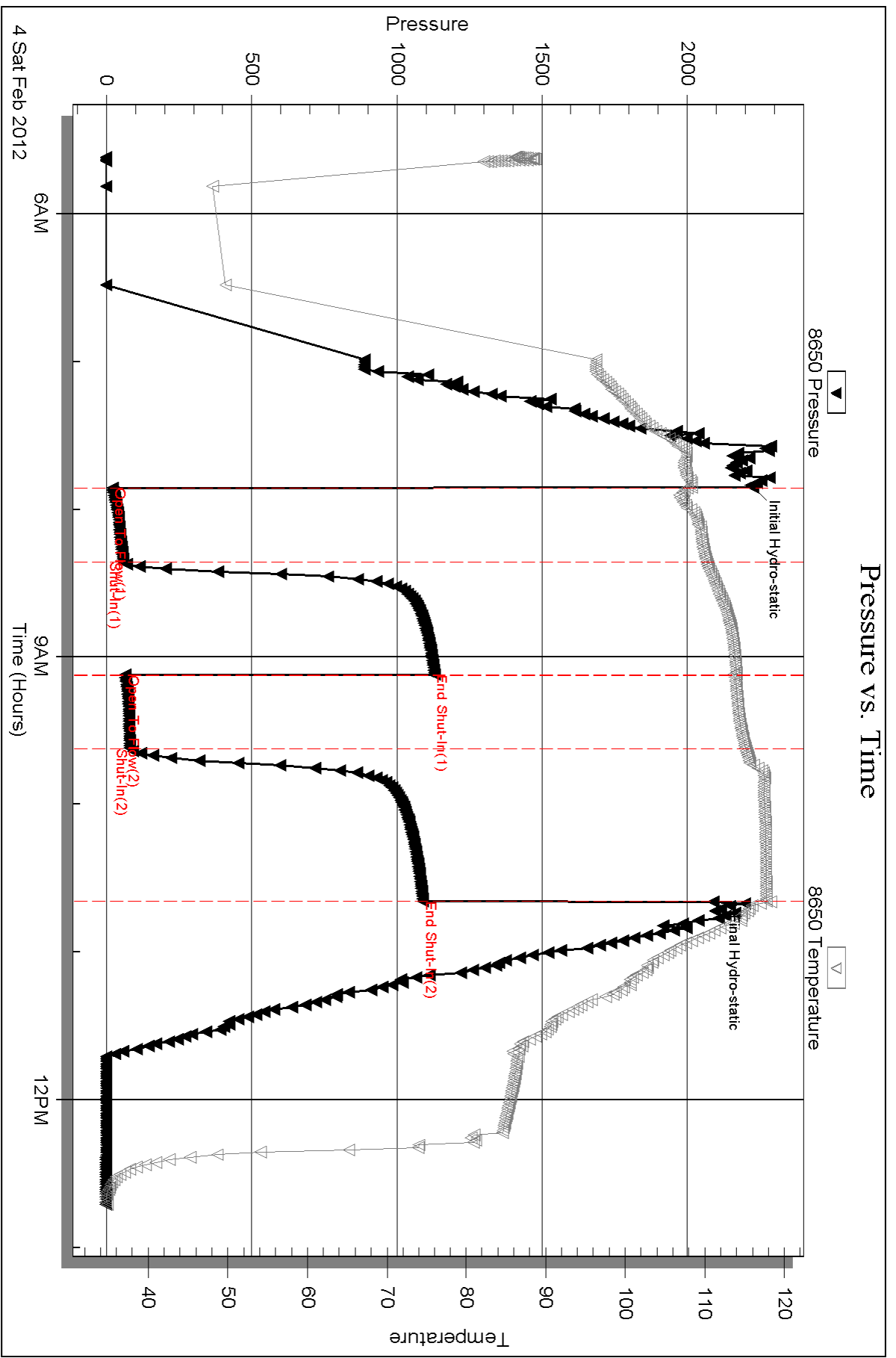
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



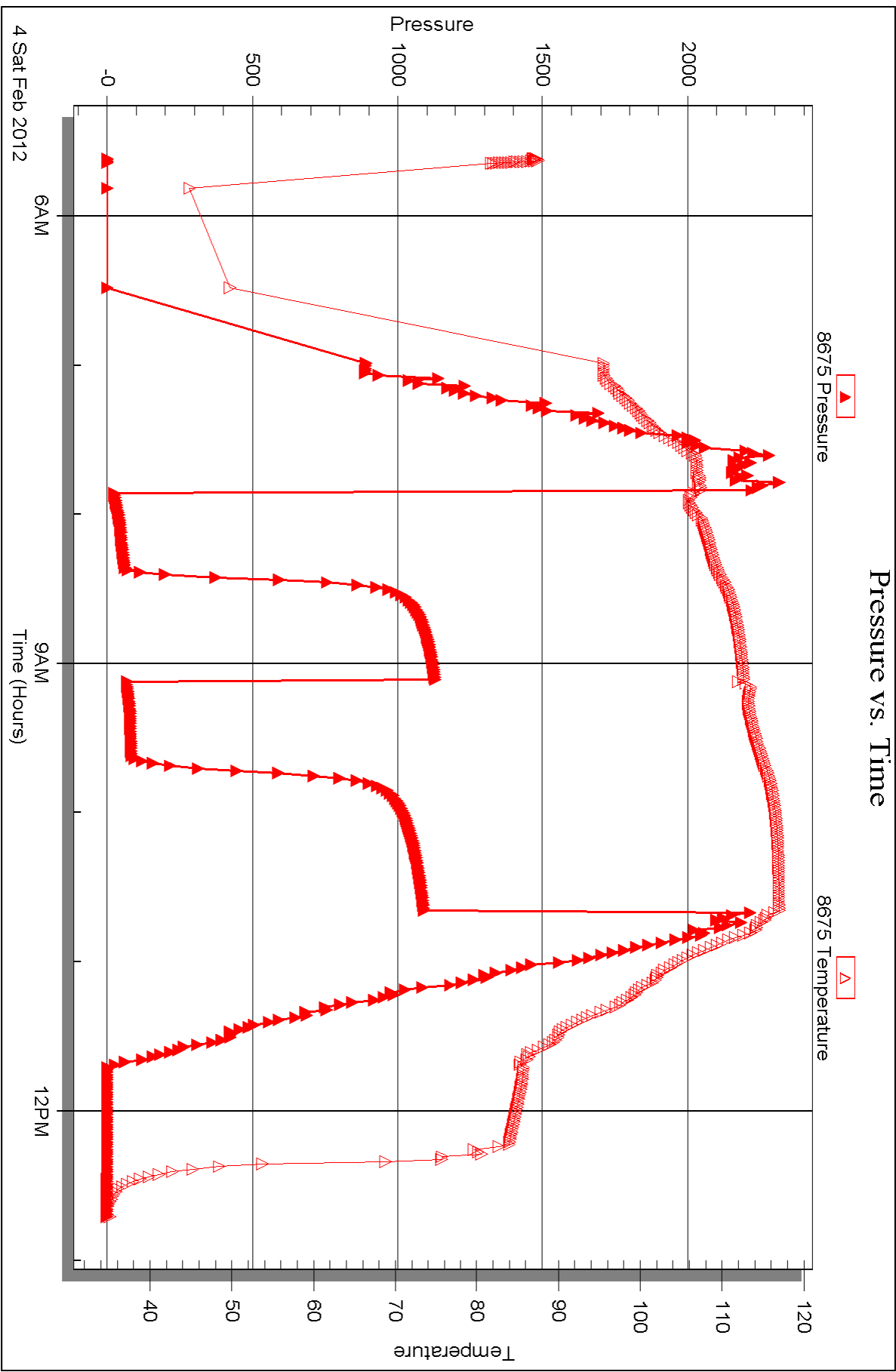
Serial #: 8675

Inside

Credo Petroleum Corp.

Riley # 1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

Riley # 1-22

22-17s-29w Lane,KS

Start Date: 2012.02.05 @ 00:29:00

End Date: 2012.02.05 @ 08:18:29

Job Ticket #: 45128 DST #: 4

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

Printed: 2012.02.08 @ 11:36:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.
 1801 Broadway #900
 Denver CO 80202
 ATTN: Bruce Ard

22-17s-29w Lane, KS

Riley # 1-22

Job Ticket: 45128

DST#: 4

Test Start: 2012.02.05 @ 00:29:00

GENERAL INFORMATION:

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:30:59

Time Test Ended: 08:18:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 46

Interval: 4476.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 2805.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

2800.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 96.76 psig @ 4480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.05

End Date:

2012.02.05

Last Calib.:

2012.02.05

Start Time: 00:29:00

End Time:

08:18:29

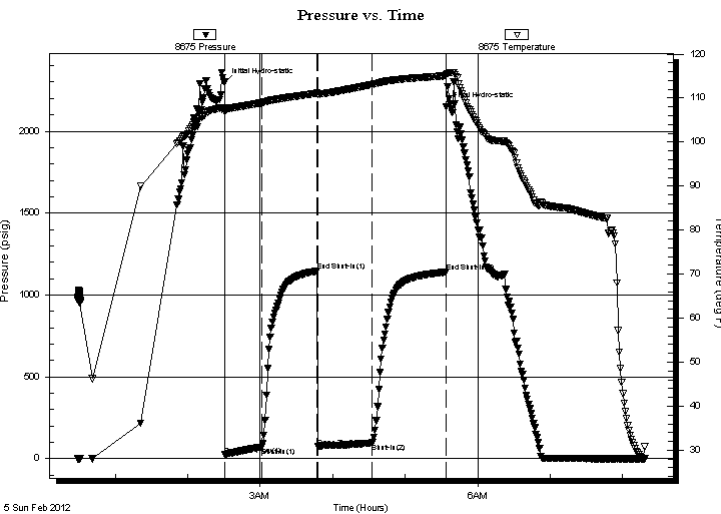
Time On Btm:

2012.02.05 @ 02:30:44

Time Off Btm:

2012.02.05 @ 05:34:14

TEST COMMENT: IF- Weak Surface Blow Built to 3 1/4"
 IS- No Blow
 FF- Weak Surface Blow Built to 2 1/2"
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.89	107.77	Initial Hydro-static
1	24.51	106.93	Open To Flow (1)
31	71.88	108.95	Shut-In(1)
77	1146.17	111.09	End Shut-In(1)
78	72.91	110.82	Open To Flow (2)
123	96.76	113.07	Shut-In(2)
183	1139.93	115.07	End Shut-In(2)
184	2148.23	115.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGCM 5%oil 15%g 80%m	0.59
50.00	OGCM 2%oil 5%g 93%m	0.68
0.00	63' of GIP	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.

22-17s-29w Lane, KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45128

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.02.05 @ 00:29:00

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 61.38 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4476.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.50 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			4449.50	
Shut In Tool	5.00			4454.50	
Hydraulic tool	5.00			4459.50	
Jars	5.00			4464.50	
Safety Joint	2.50			4467.00	
Packer	5.00			4472.00	27.50 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Perforations	3.00			4480.00	
Recorder	0.00	8675	Inside	4480.00	
Recorder	0.00	8650	Outside	4480.00	
Perforations	10.00			4490.00	
Change Over Sub	1.00			4491.00	
Drill Pipe	62.00			4553.00	
Change Over Sub	1.00			4554.00	
Perforations	3.00			4557.00	
Bullnose	3.00			4560.00	84.00 Bottom Packers & Anchor
Total Tool Length:	111.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-17s-29w Lane,KS

1801 Broadway #900
Denver CO 80202

Riley # 1-22

Job Ticket: 45128

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.02.05 @ 00:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OGCM 5%oil 15%g 80%m	0.590
50.00	OGCM 2%oil 5%g 93%m	0.683
0.00	63' of GIP	0.000

Total Length: 170.00 ft

Total Volume: 1.273 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

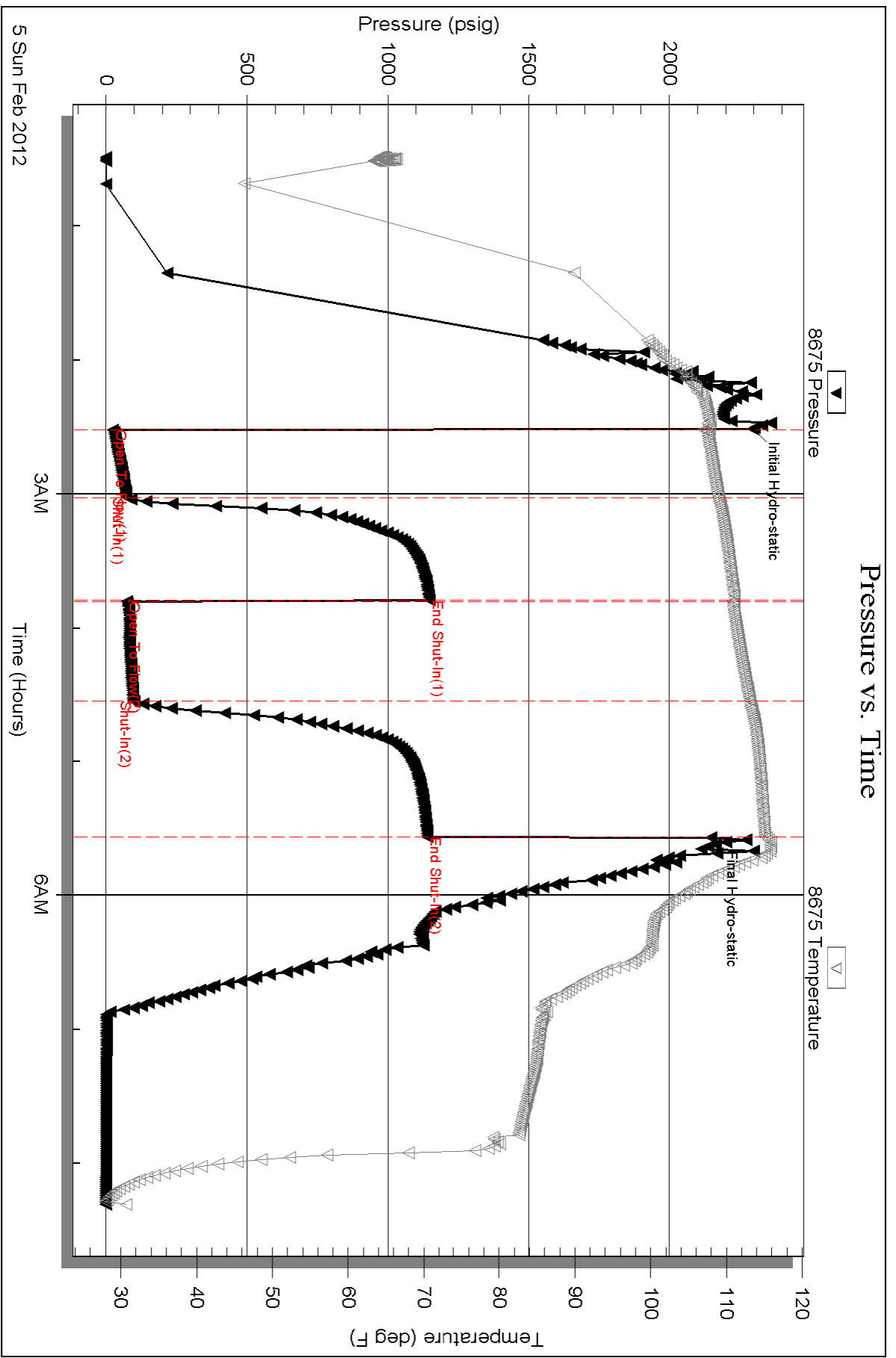
Serial #: 8675

Inside

Crede Petroleum Corp.

Riley #1-22

DST Test Number: 4



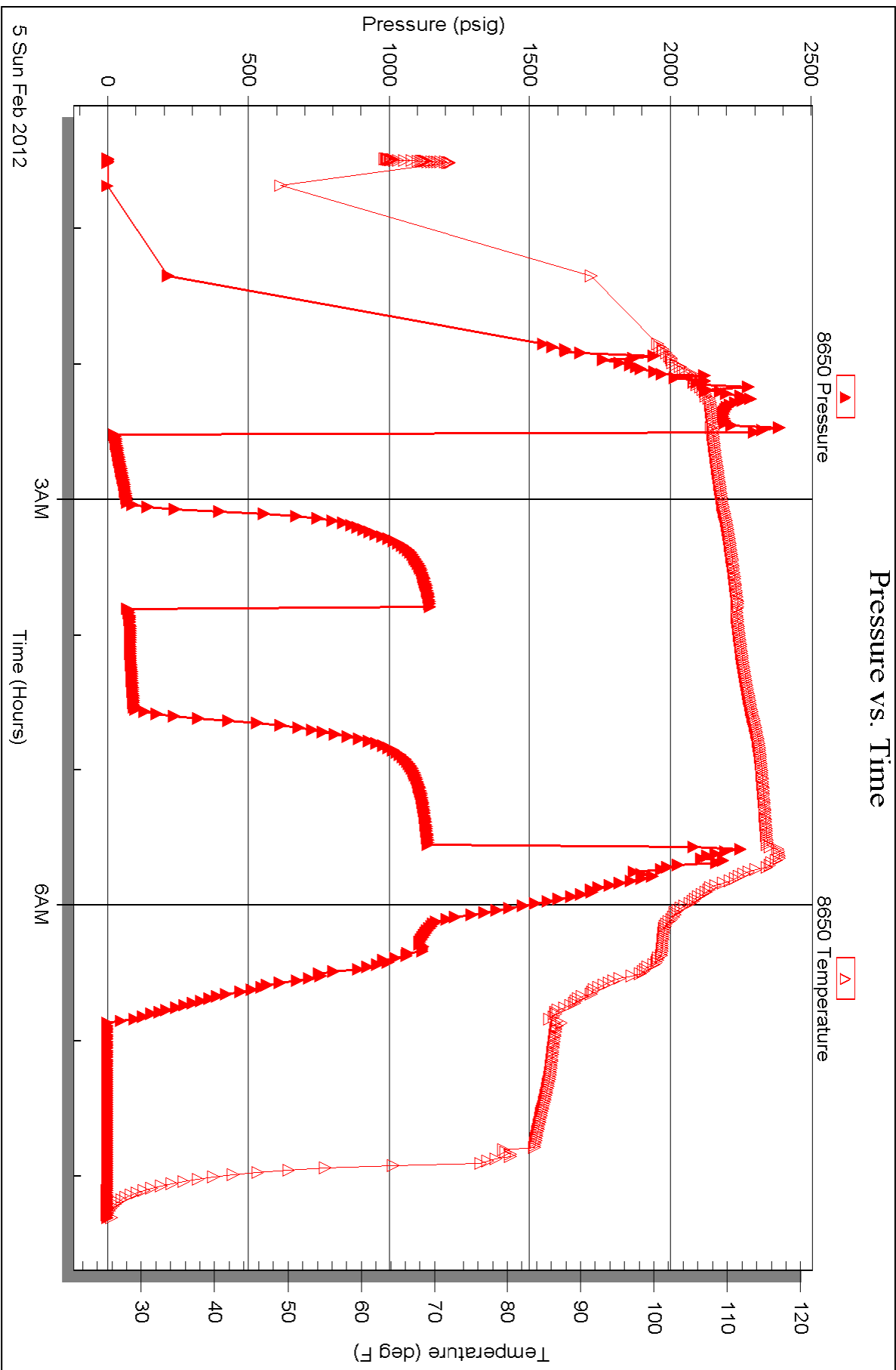
Serial #: 8650

Outside

Credo Petroleum Corp.

Riley # 1-22

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 08 2012
BY: _____

Test Ticket

NO. 45000

Well Name & No. Riley # 1-22 Test No. DST #1 Date 2-2-12
 Company Credo Petroleum Corp Elevation 2805 KB 2800 GL
 Address 1801 Broadway #900 Denver CO. 80202
 Co. Rep / Geo. Bruce Ard Rig WW Rig #10
 Location: Sec. 22 Twp. 17s Rge. 29w Co. Lane State KS

Interval Tested 4124-4260 Zone Tested Lansing H-K
 Anchor Length 136 Drill Pipe Run 3984 Mud Wt. 9.4
 Top Packer Depth 4120 Drill Collars Run 122 Vis 54
 Bottom Packer Depth 4124 Wt. Pipe Run 0 WL 5.6
 Total Depth 4260 Chlorides 2000 ppm System LCM 316

Blow Description IF - Surface Blow Built to BOB in 20 1/2 min
ISI - No Blow
FF - Surface Blow Built to BOB in 29 min
FSI - Weak Surface Blow in 12 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>OGMCW</u>	<u>3</u>	<u>2</u>	<u>70</u>	<u>25</u>
<u>63</u>	<u>GOWCM</u>	<u>5</u>	<u>5</u>	<u>30</u>	<u>60</u>
<u>63</u>	<u>WGO CM</u>	<u>10</u>	<u>30</u>	<u>5</u>	<u>55</u>
<u>48</u>	<u>GOCM</u>	<u>15</u>	<u>15</u>		<u>70</u>
<u>45</u>	<u>GO</u>	<u>10</u>	<u>90</u>		

Rec Total 339 BHT 117 Gravity 38 API RW 0.43 @ 47 °F Chlorides 23000 ppm

(A) Initial Hydrostatic 2050 Test 1225 T-On Location 8:54
 (B) First Initial Flow 28 Jars 250 T-Started 10:40
 (C) First Final Flow 107 Safety Joint 75 T-Open 12:33
 (D) Initial Shut-In 1031 Circ Sub NIC T-Pulled 15:36
 (E) Second Initial Flow 112 Hourly Standby _____ T-Out 18:12
 (F) Second Final Flow 162 Mileage 64 R/T 8960 Comments 189' of G-IP
 (G) Final Shut-In 1016 Sampler _____ API is 37 @ 50 f = 38
 (H) Final Hydrostatic 2006 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 11639.60
 Total 11639.60
 MP/DST Disc't _____

Approved By Bruce Ard 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 08 2012

Test Ticket

NO. 45126

Well Name & No. Riley #1-22 Test No. DST #2 Date 2-3-12
 Company Credo Petroleum Corp. Elevation 2805 KB 2800 GL
 Address 1801 Broadway #900 Denver CO. 80202
 Co. Rep / Geo. Bruce Ard Rig WW Rig #10
 Location: Sec. 22 Twp. 17s Rge. 29w Co. Lane State KS

Interval Tested 4258-4384 Zone Tested L + Marmaton
 Anchor Length 126 Drill Pipe Run 4112 Mud Wt. 9.3
 Top Packer Depth 4254 Drill Collars Run 122 Vis 53
 Bottom Packer Depth 4258 Wt. Pipe Run 0 WL 7.2
 Total Depth 4384 Chlorides 2300 ppm System LCM 216

Blow Description IF - Surface Blow 1/2"
ISI - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 110 Gravity 1225 API RW 250 @ 75 °F Chlorides N/C ppm
 (A) Initial Hydrostatic 2114 Test
 (B) First Initial Flow 22 Jars
 (C) First Final Flow 28 Safety Joint
 (D) Initial Shut-In 254 Circ Sub
 (E) Second Initial Flow 31 Hourly Standby
 (F) Second Final Flow 34 Mileage 64 R/T 8960
 (G) Final Shut-In 218 Sampler
 (H) Final Hydrostatic 2069 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

T-On Location 9:40 AM
 T-Started 11:39 AM
 T-Open 13:40
 T-Pulled 16:15
 T-Out 17:51

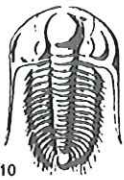
Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 11039.60
 MP/DST Disc't _____

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

Sub Total 11039.60

Approved By [Signature] Our Representative [Signature]

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P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 08 2012
BY: _____

Test Ticket

NO. 45127

Well Name & No. Riley #1-22 Test No. DST #3 Date 2-4-12
 Company Credo Petroleum Corp. Elevation 2805 KB 2800 GL
 Address 1801 Broadway #900 Denver CO 80202
 Co. Rep / Geo. Bruce Ard Rig WW Rig #10
 Location: Sec. 22 Twp. 17s Rge. 29w Co. Lane State KS

Interval Tested 4375 - 4475 Zone Tested Altamont - Ft. Scott
 Anchor Length 100 Drill Pipe Run 4236 Mud Wt. 9.3
 Top Packer Depth 4371 Drill Collars Run 122 Vis 53
 Bottom Packer Depth 4375 Wt. Pipe Run 0 WL 7.2
 Total Depth 4475 Chlorides 2300 ppm System LCM 21b
 Blow Description IF-Weak Surface Blow Built to 2"
ISI- No Blow
FF- Weak Surface in 9 min
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>Mod</u>			<u>100</u>	
	<u>Few Oil Spots in tool</u>				

Rec Total 75 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2226</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>4:59 AM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>5:37 AM</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>7:51</u>
(D) Initial Shut-In <u>1127</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:40 AM</u>
(E) Second Initial Flow <u>65</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:42</u>
(F) Second Final Flow <u>80</u>	<input checked="" type="checkbox"/> Mileage <u>64 R/T 89(0)</u>	Comments _____
(G) Final Shut-In <u>1088</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2089</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 11639.60

Total 11639.60
 MP/DST Disc't _____

Approved By Just Hill Our Representative Will Mar

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 08 2012
BY: _____

Test Ticket

NO. 45128

Well Name & No. Riley # 1-22 Test No. DST #4 Date 2-4-12
 Company Credo Petroleum Corp Elevation 2805 KB 2800 GL
 Address 1801 Broadway #900 Denver CO. 80202
 Co. Rep / Geo. Bruce Ard Rig Ww Rig #10
 Location: Sec. 22 Twp. 17s Rge. 29w Co. Lane State KS

Interval Tested 4476-4560 Zone Tested Cherokee - Johnson
 Anchor Length 84 Drill Pipe Run 4333 Mud Wt. 9.4
 Top Packer Depth 4472 Drill Collars Run 122 Vis 50
 Bottom Packer Depth 4476 Wt. Pipe Run 0 WL 8.0
 Total Depth 4560 Chlorides 2500 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Built to 3 1/4"
ISI - No Blow
FF - Weak Surface Blow Built to 2 1/2"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>OGCM</u>	<u>5</u>	<u>2</u>	<u>93</u>	
<u>120</u>	<u>OGCM</u>	<u>15</u>	<u>5</u>	<u>80</u>	
<u>63'</u>	<u>of GIP</u>				

Rec Total 170 BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2296 Test 1225' T-On Location 23:54
 (B) First Initial Flow 24 Jars 255 T-Started 0:29 AM
 (C) First Final Flow 71 Safety Joint 75 T-Open 2:30 AM
 (D) Initial Shut-In 1146 Circ Sub 50' T-Pulled 5:35 AM
 (E) Second Initial Flow 72 Hourly Standby _____ T-Out 8:18 AM
 (F) Second Final Flow 96 Mileage 64 R/T 8960 Comments _____
 (G) Final Shut-In 1139 Sampler _____
 (H) Final Hydrostatic 2148 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320-
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 320-
 Day Standby _____ Total 2009.60
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 1689.60

Approved By [Signature] Our Representative [Signature]

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**Borehole Compensated
Sonic Log**

DIGITAL LOG (785) 625-3858

API No. 15-101-22344-00-00	Company Credo Petroleum Corporation	Location 2310' FNL / 2600' FEL	Other Services CNL/CDL MEL/DIL
Well Riley #1-22	County Lane Wildcat		
Field Wildcat	State Kansas	Sec: 22 Twp: 17S Rge: 29W	Elevation K.B. 2805 D.F. 2800 G.L. 2800

Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing Kelly Bushing	Elevation 2800 5 Ft. Above Perm. Datum
Date 2/5/2012	Run Number Two	
Type Log BHC Sonic	Depth Driller 4655	
Depth Logger 4657	Bottom Logged Interval 4646	
Top Logged Interval 250	Type Fluid In Hole Chemical	
Salinity, PPM CL 2600	Density 9.5	
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
One	12.25	00	263	8.625	23#	00	263
Two	7.875	263	TD				

<<< 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

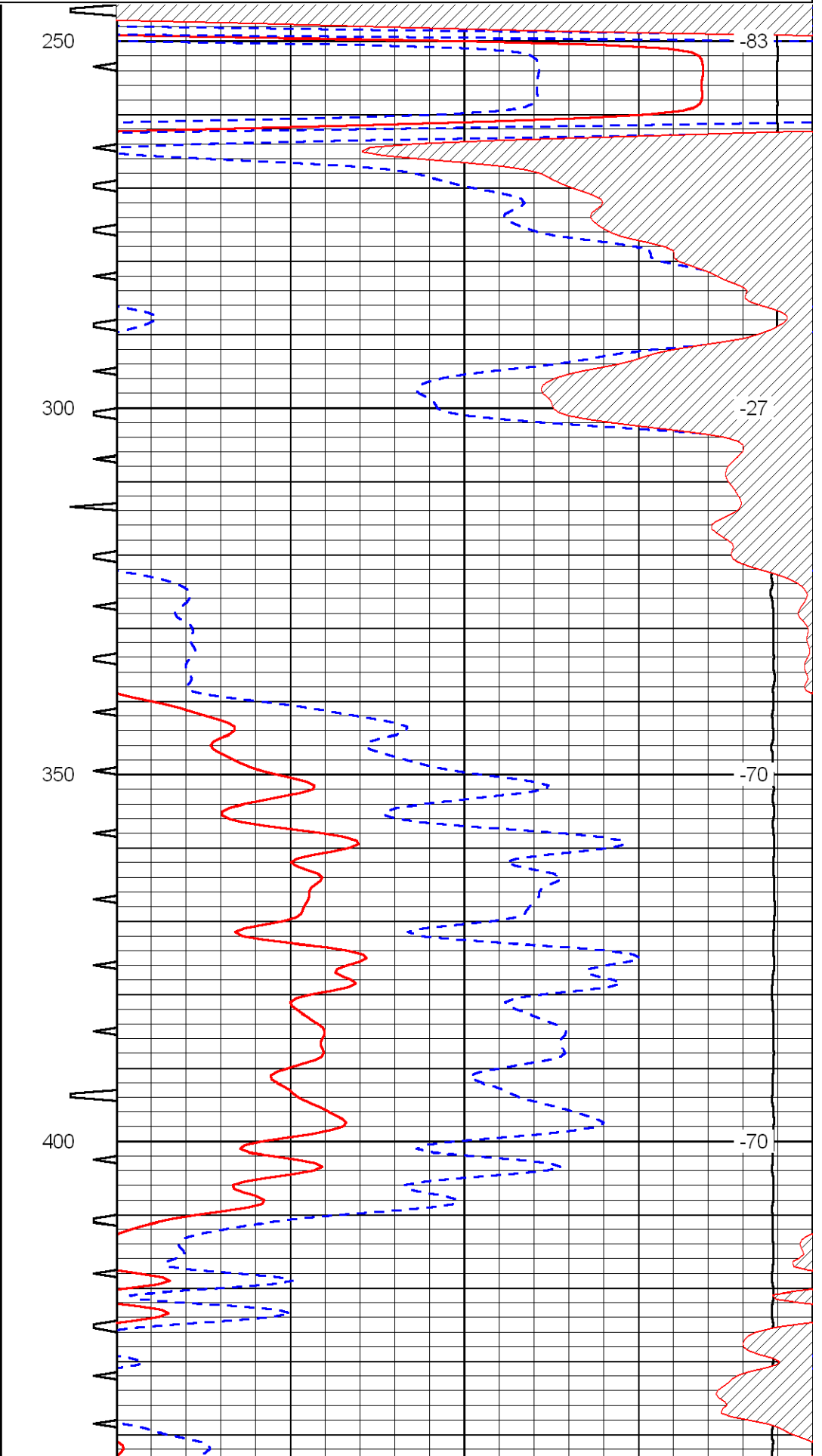
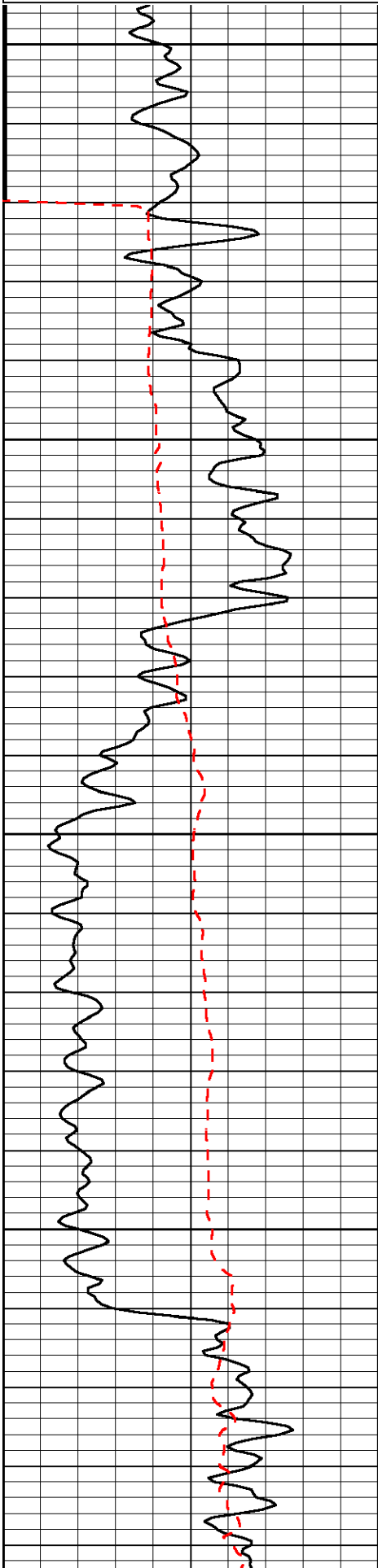
Thank you for using Log-Tech, Inc.
(785) 625-3858

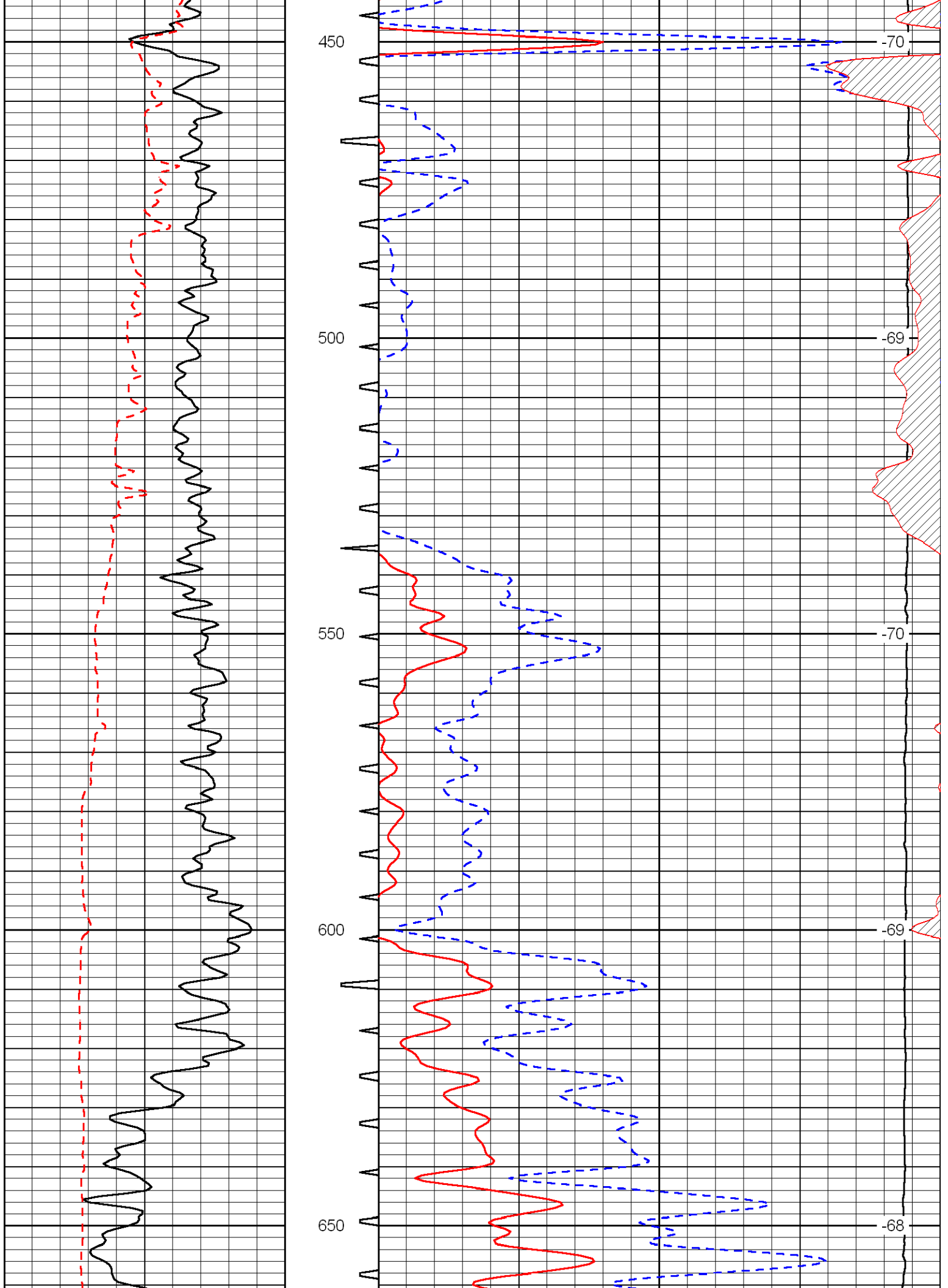
Healy, KS:
5E to Ike Rd., 3S to 210 Rd.
1/2E, S into

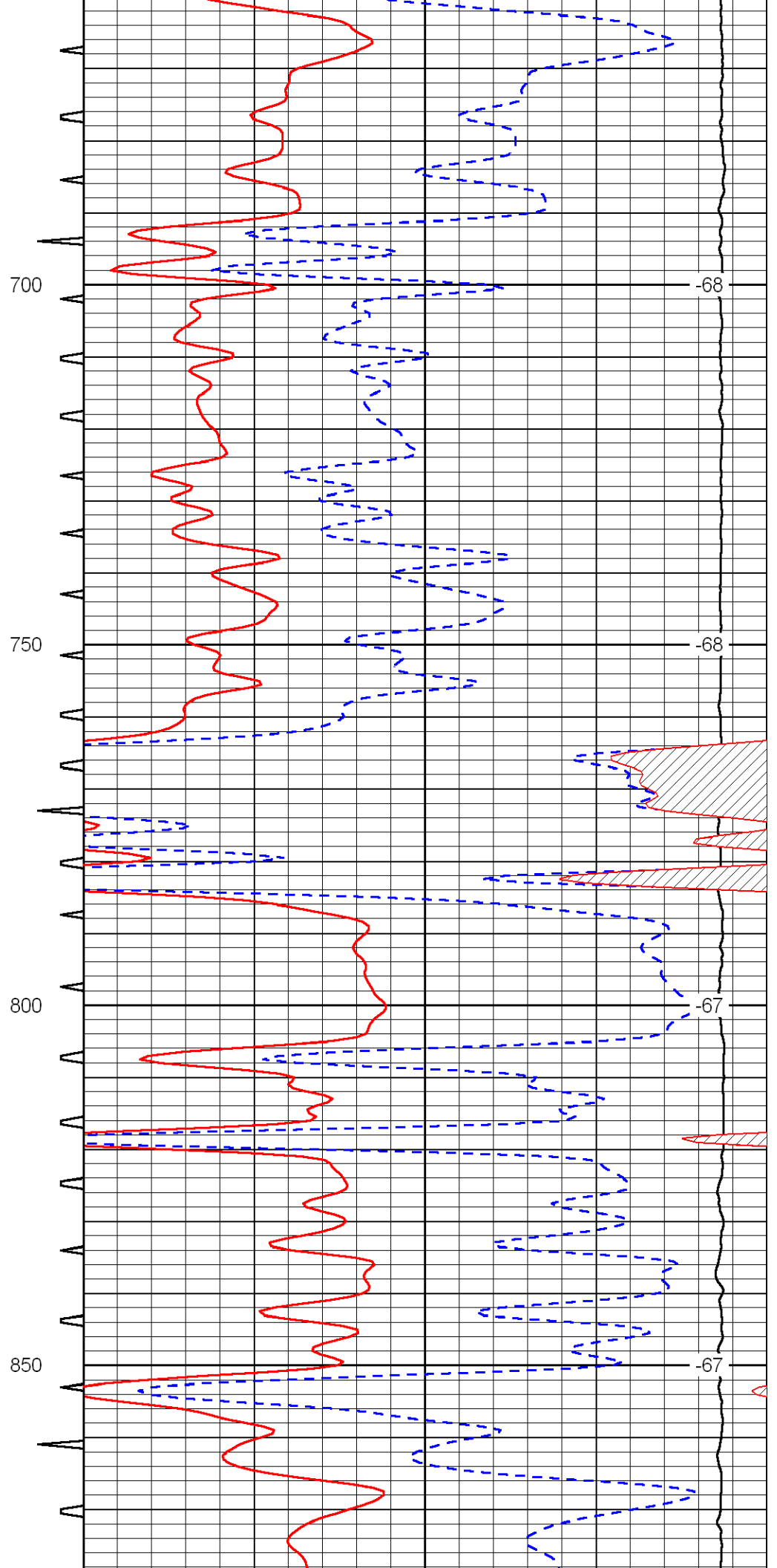
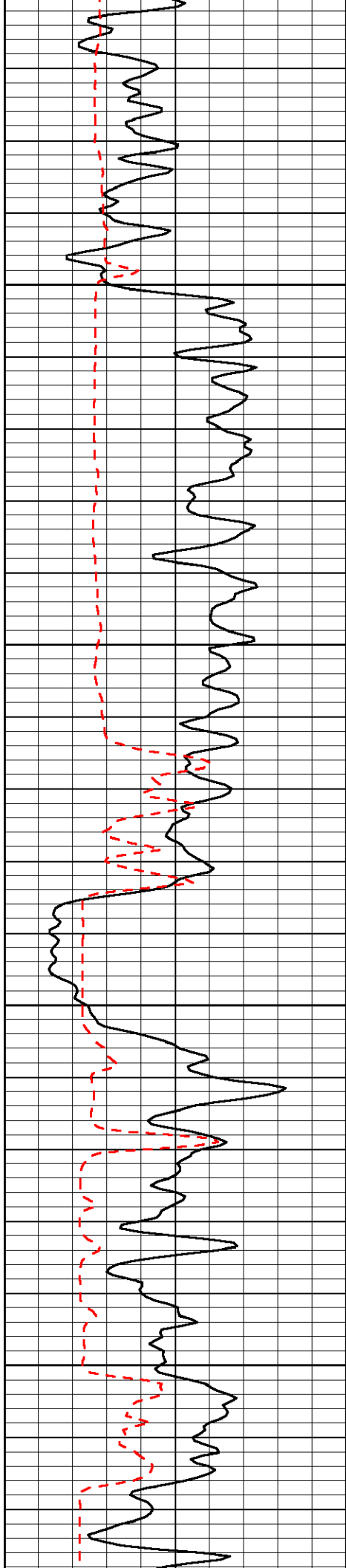
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Presentation Format:	sonic
Dataset Creation:	Sun Feb 05 22:52:54 2012
Charted by:	Depth in Feet scaled 1:240

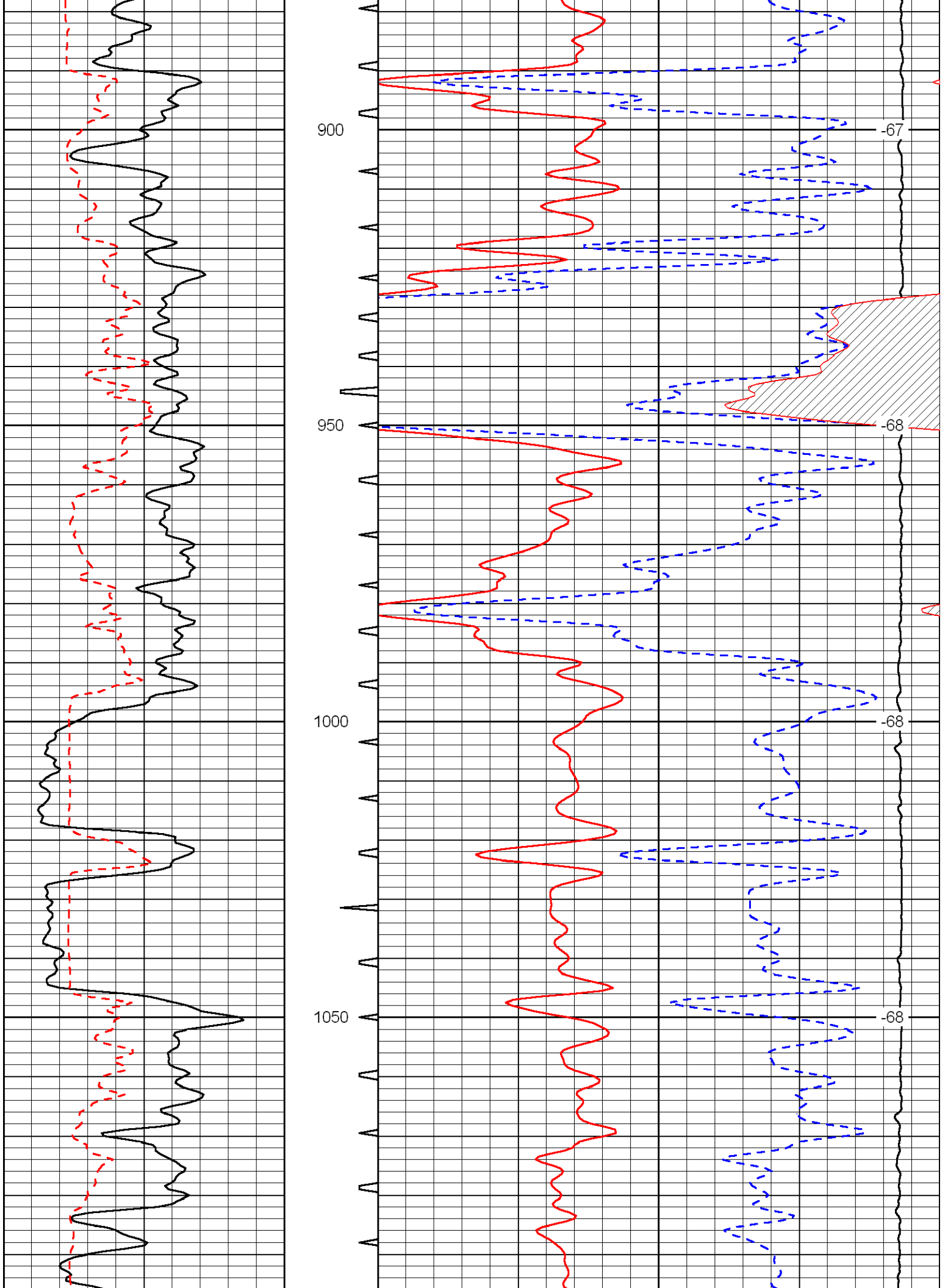
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150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0

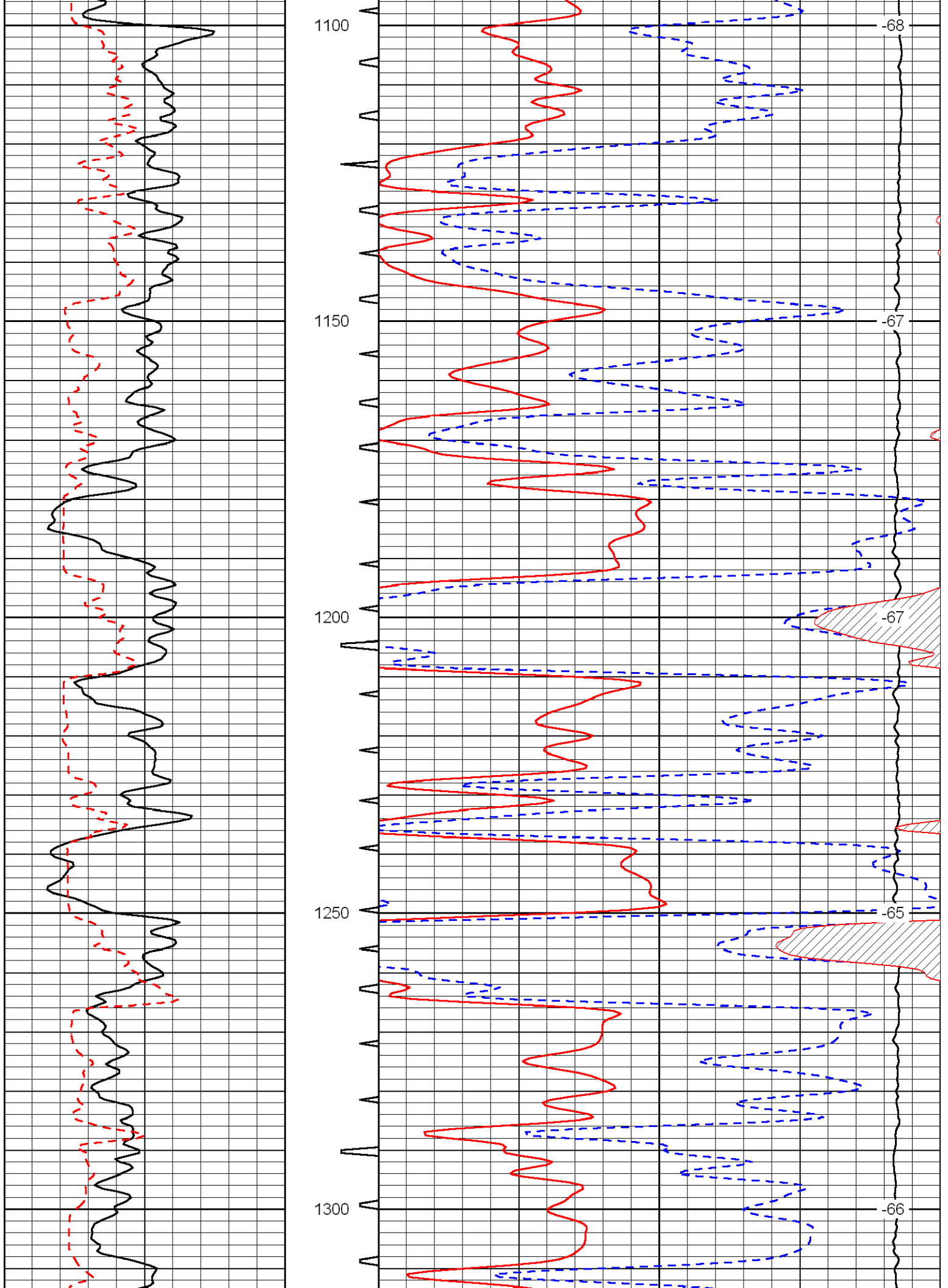
LSPD

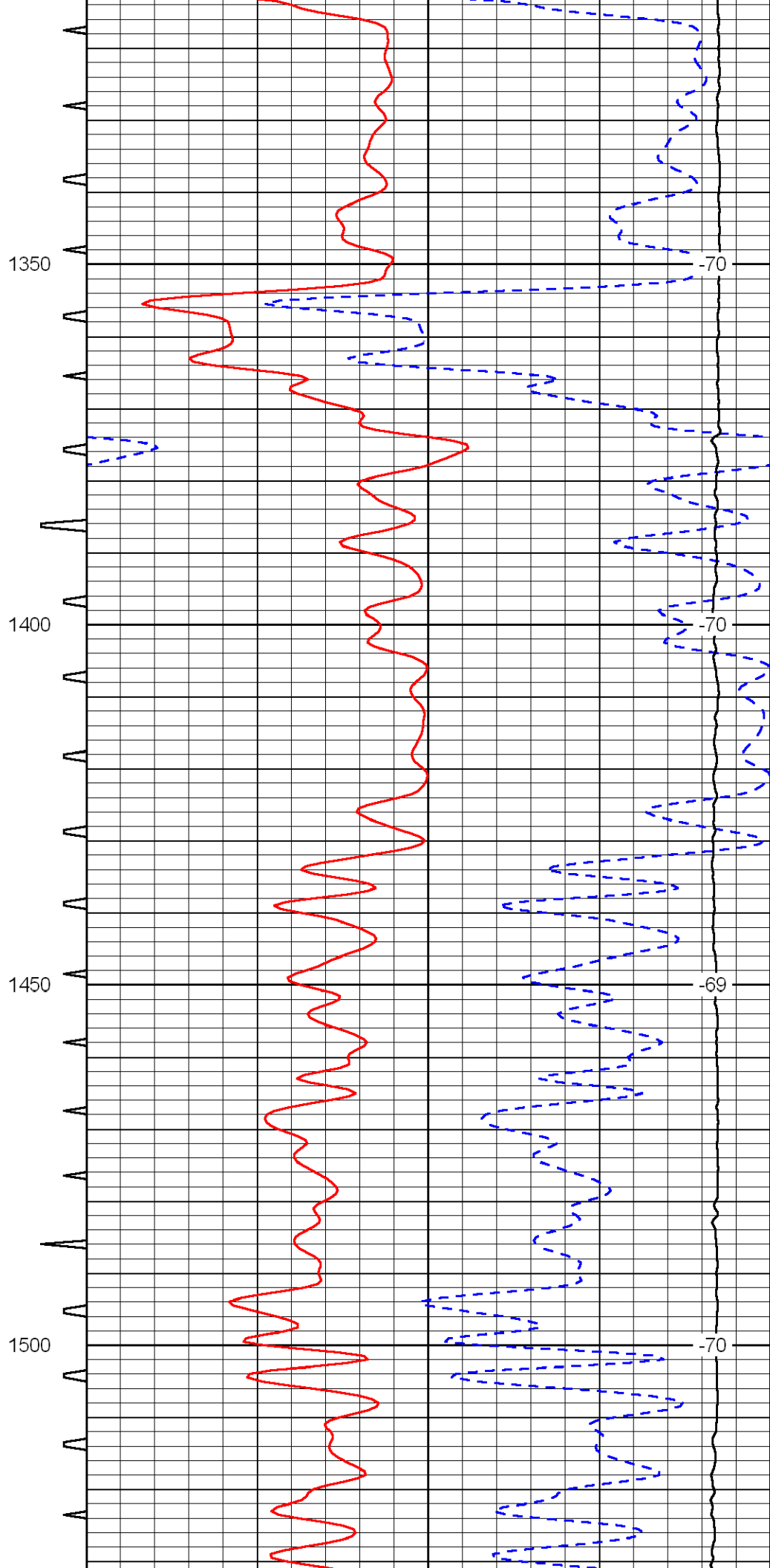
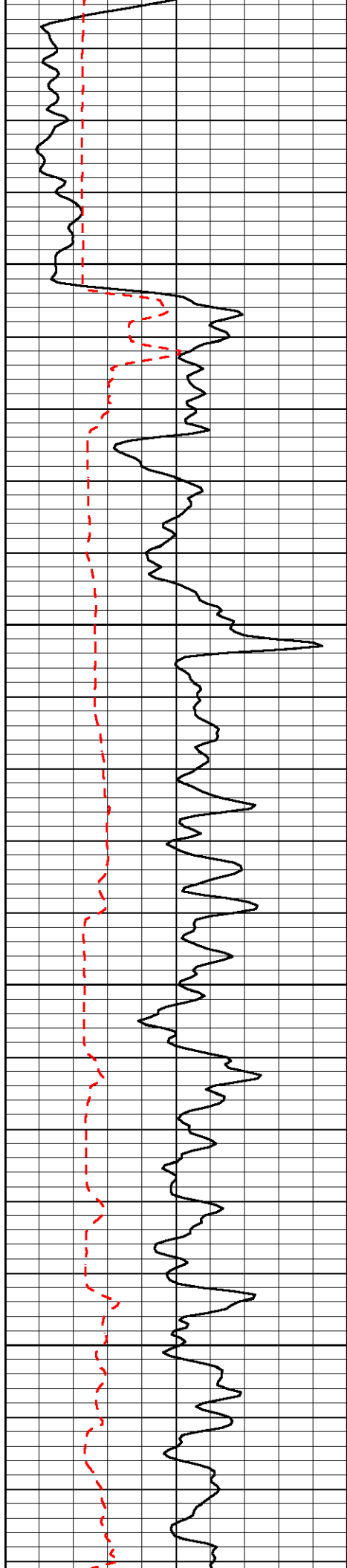


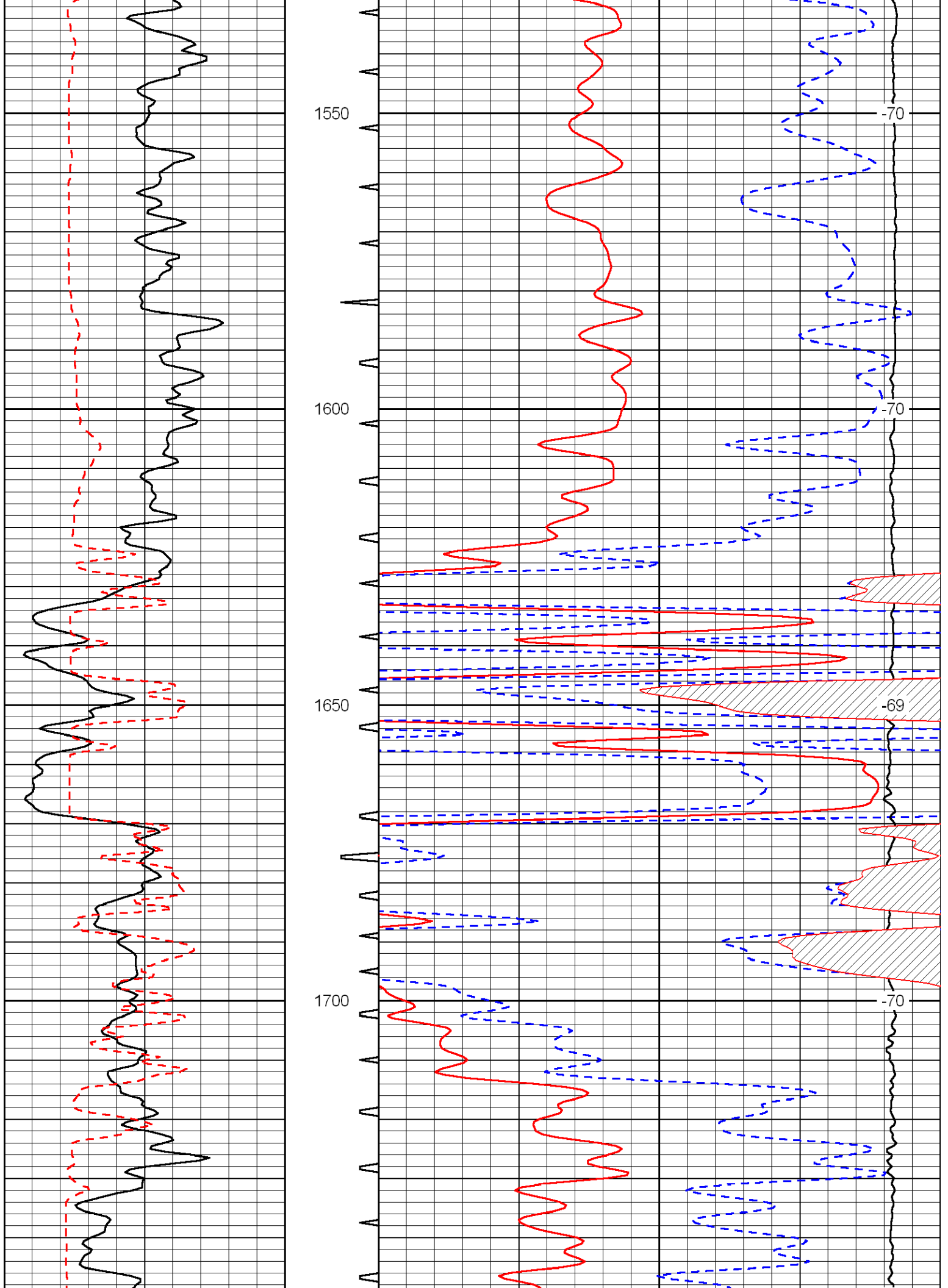


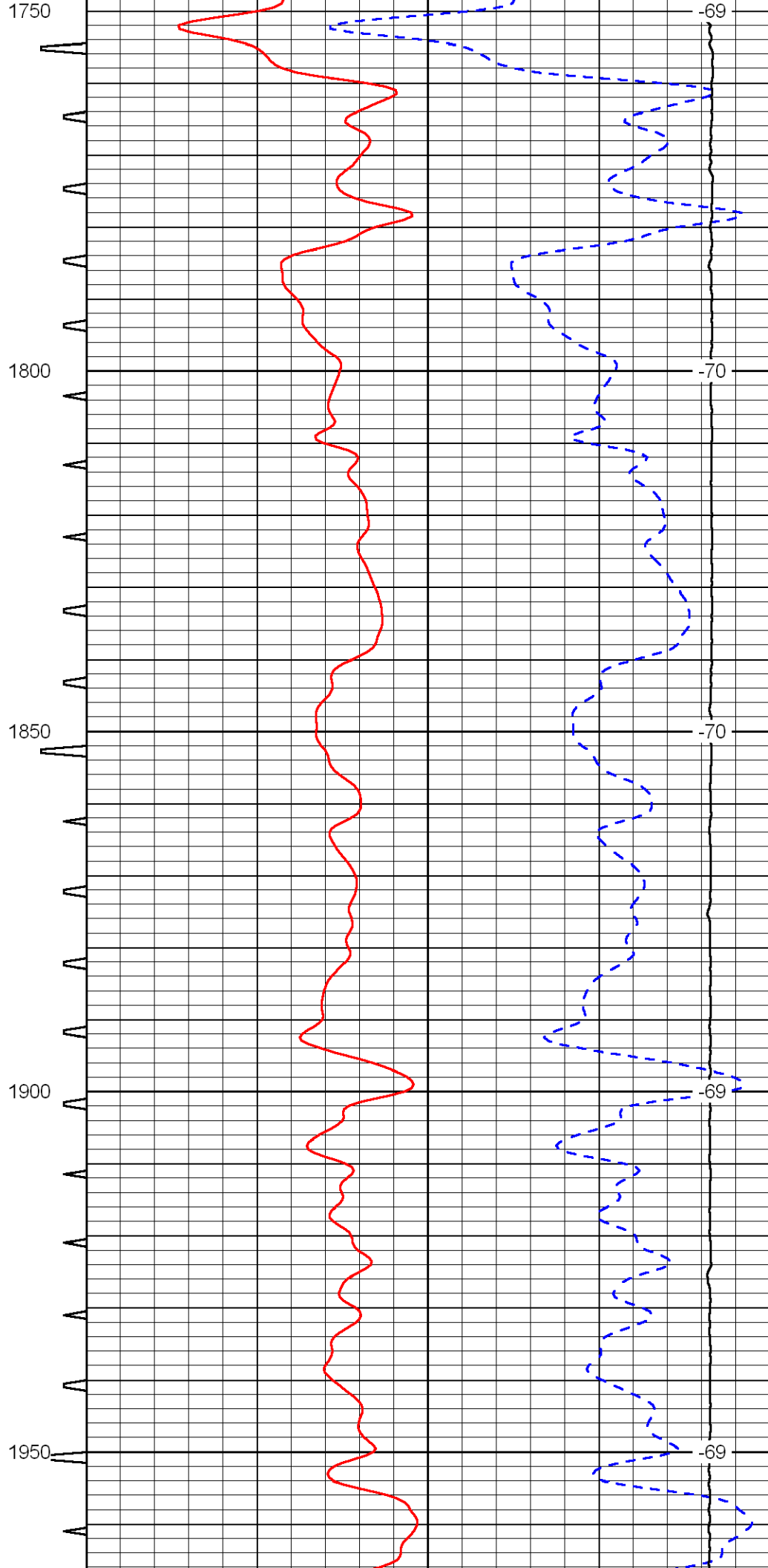
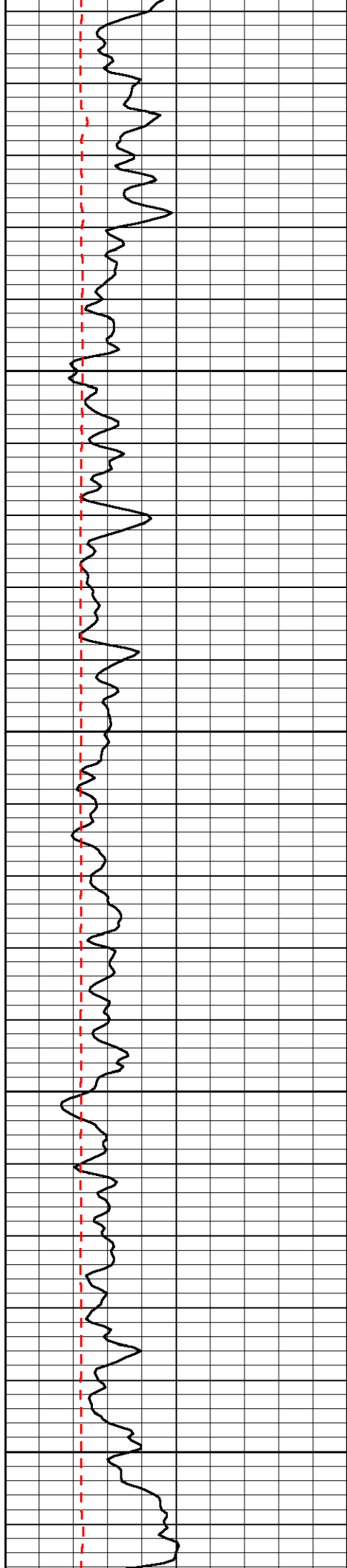


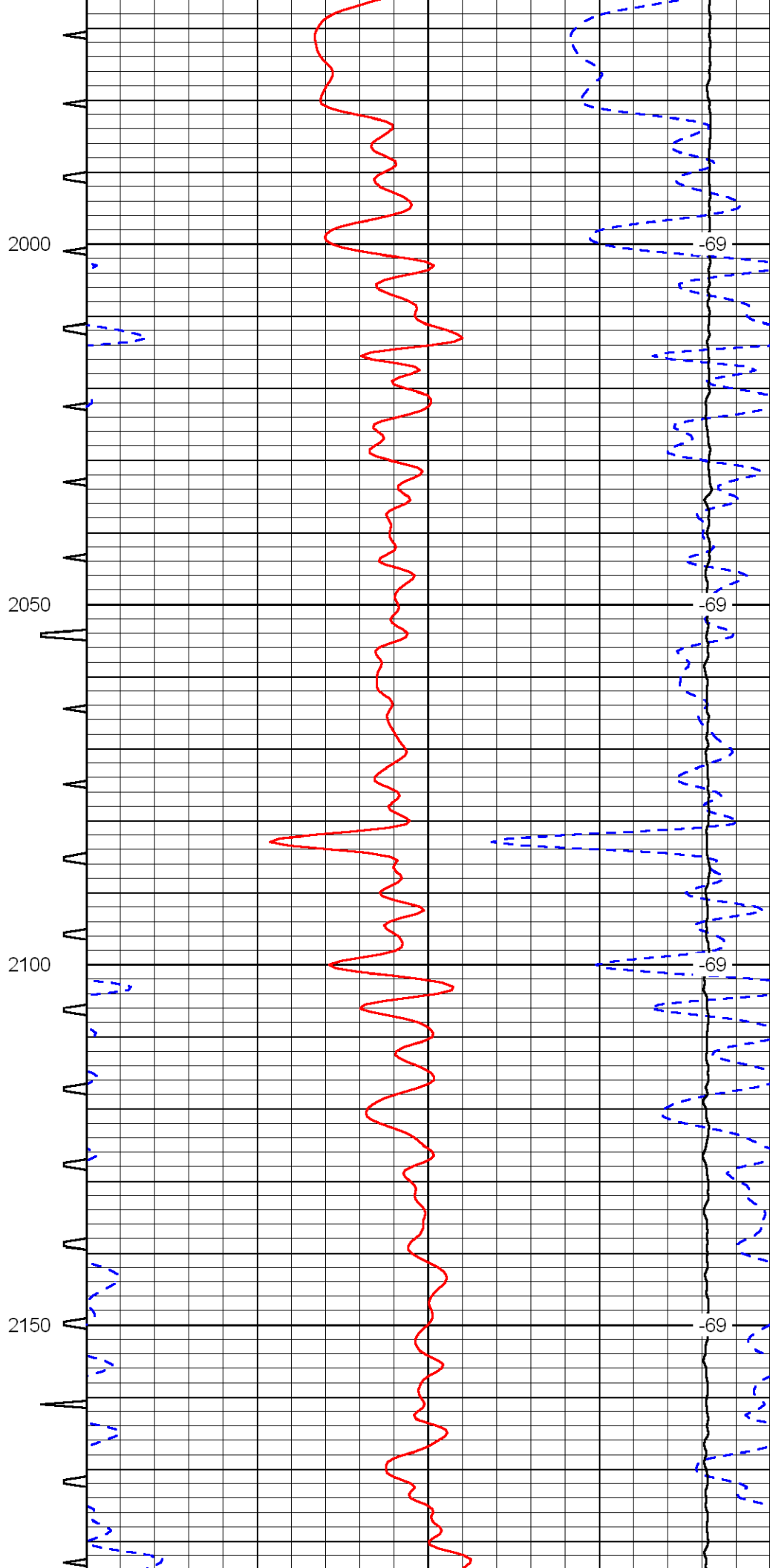
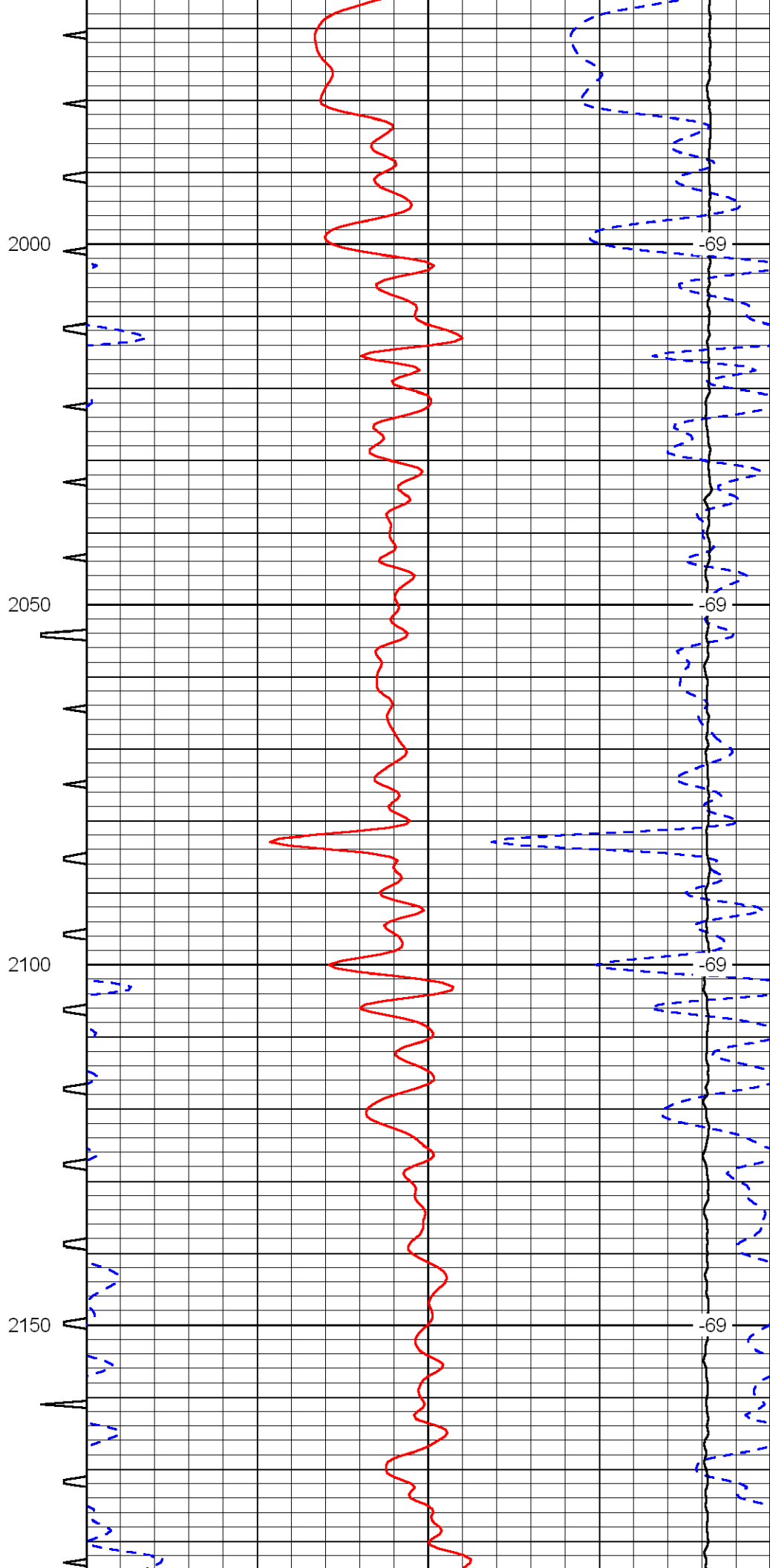
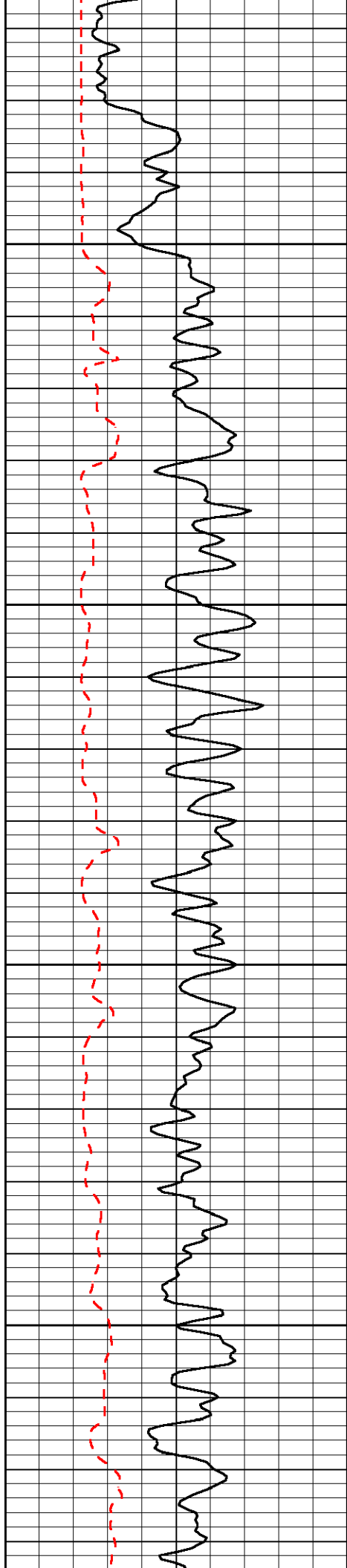


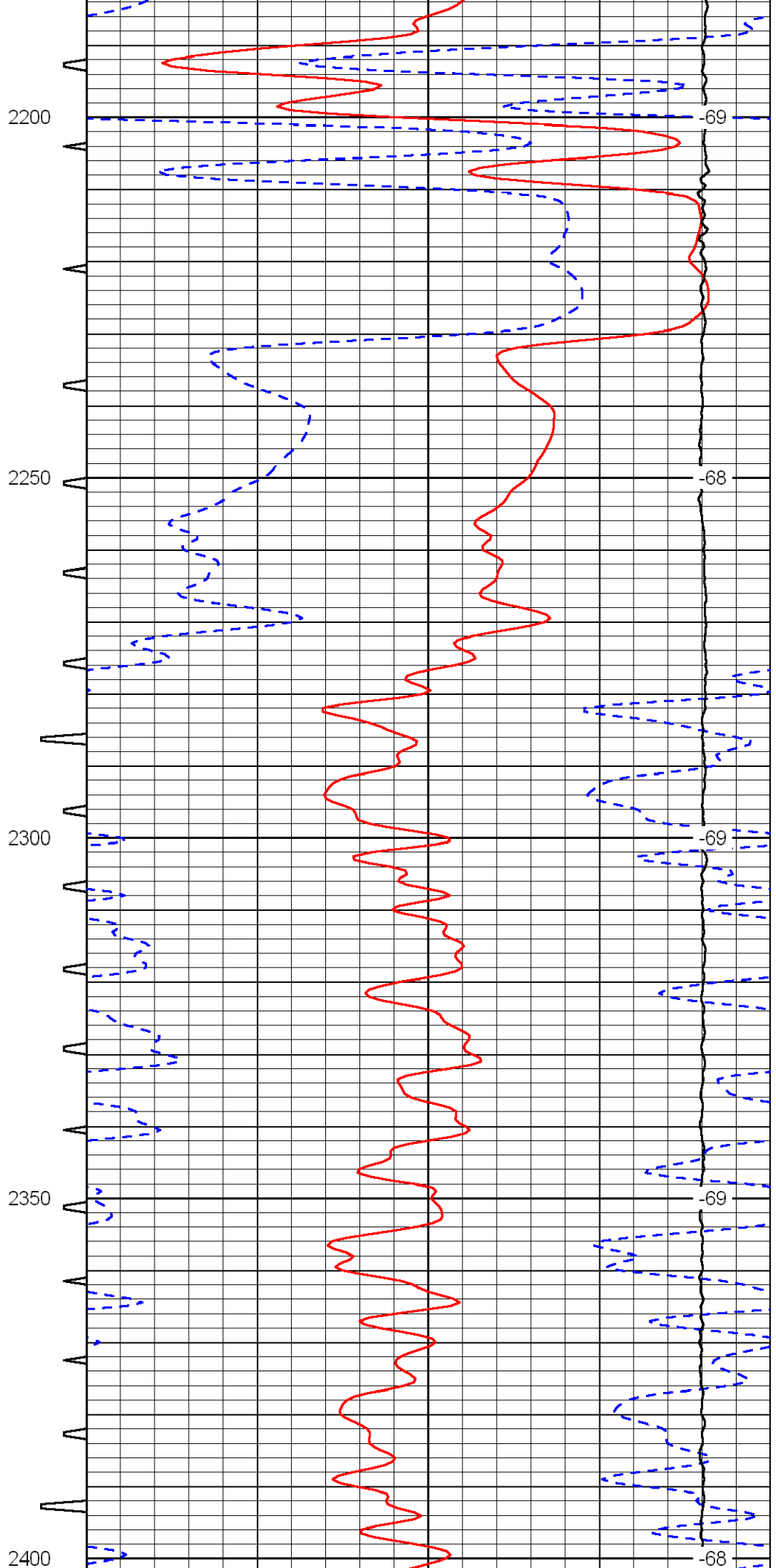
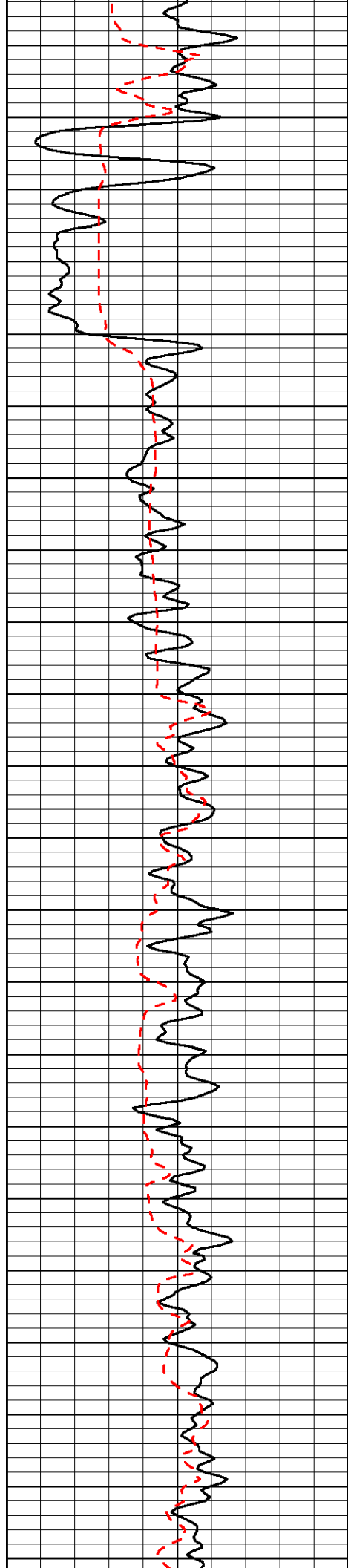


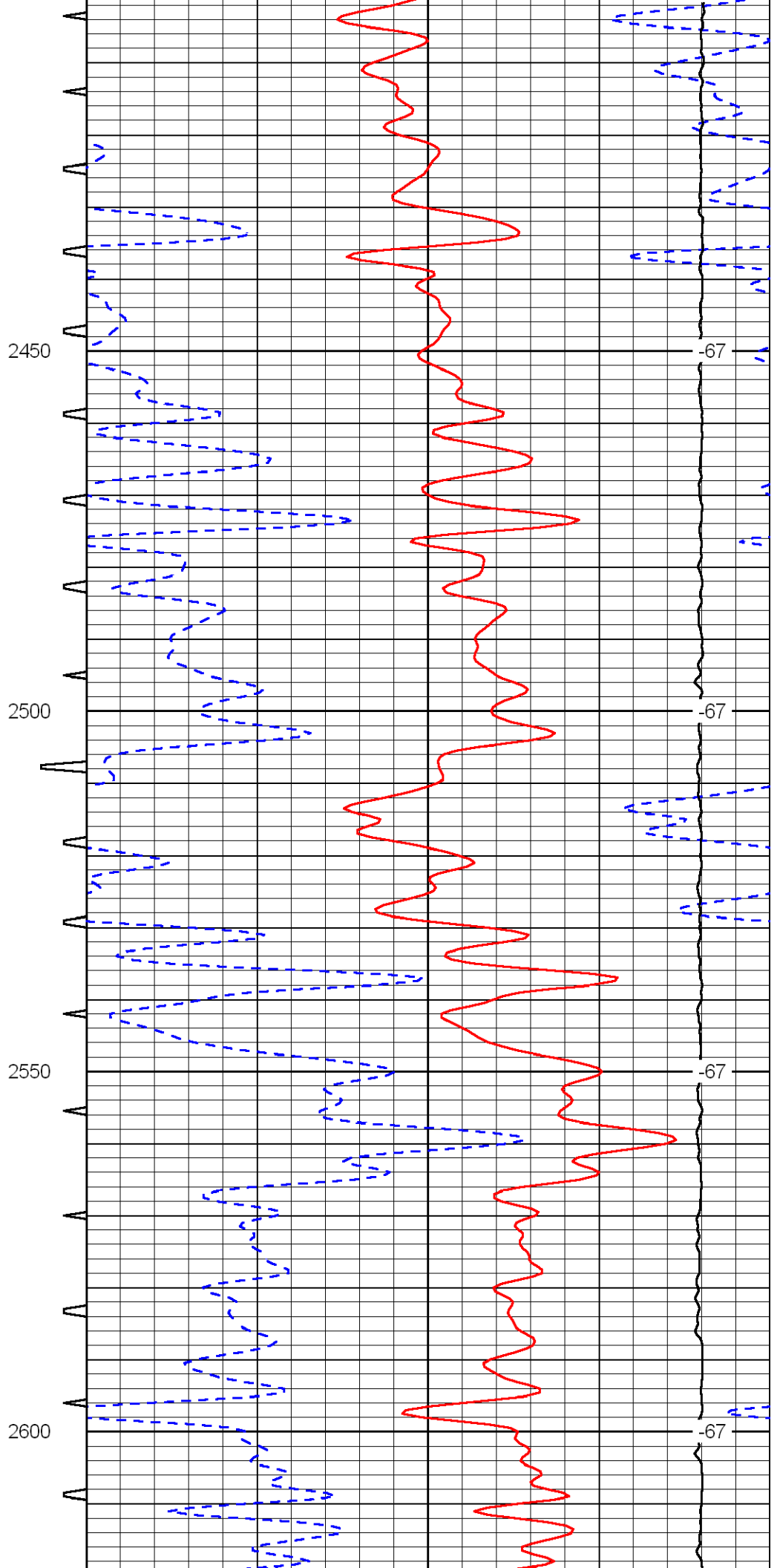
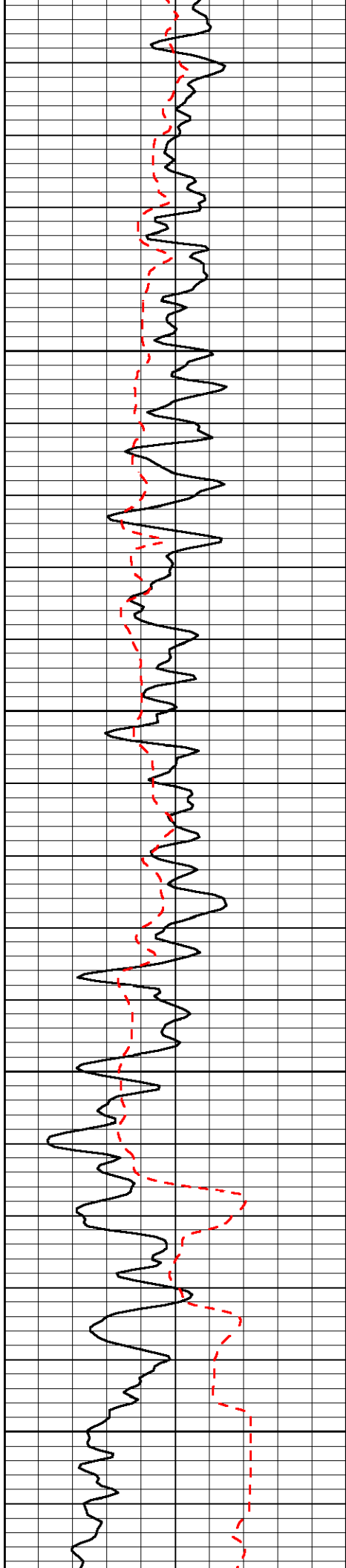


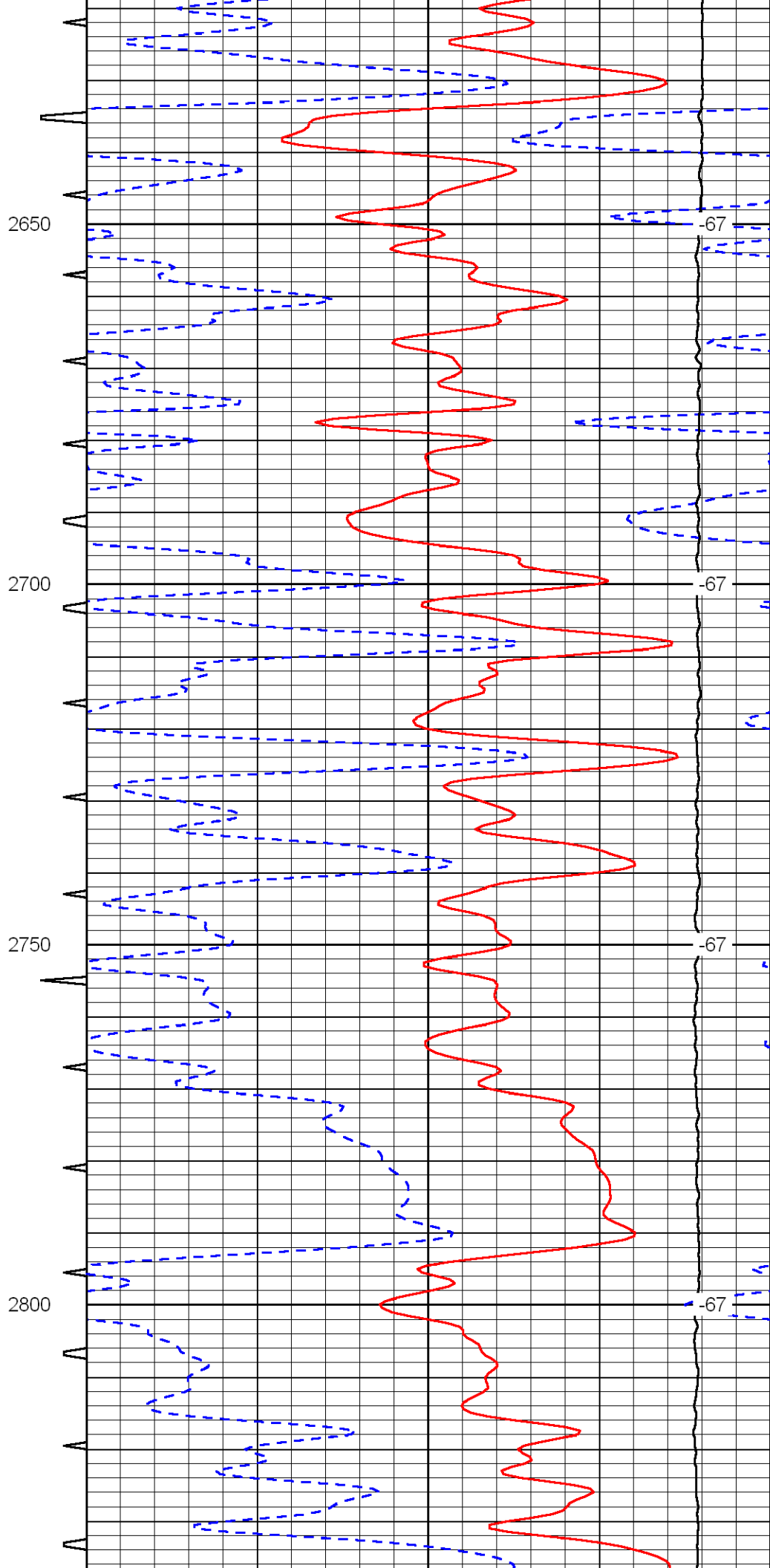
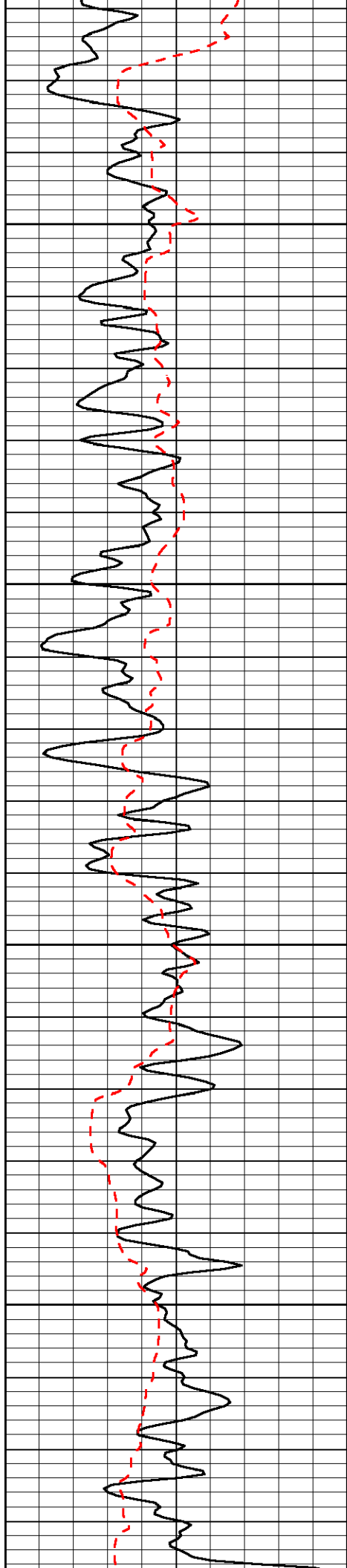


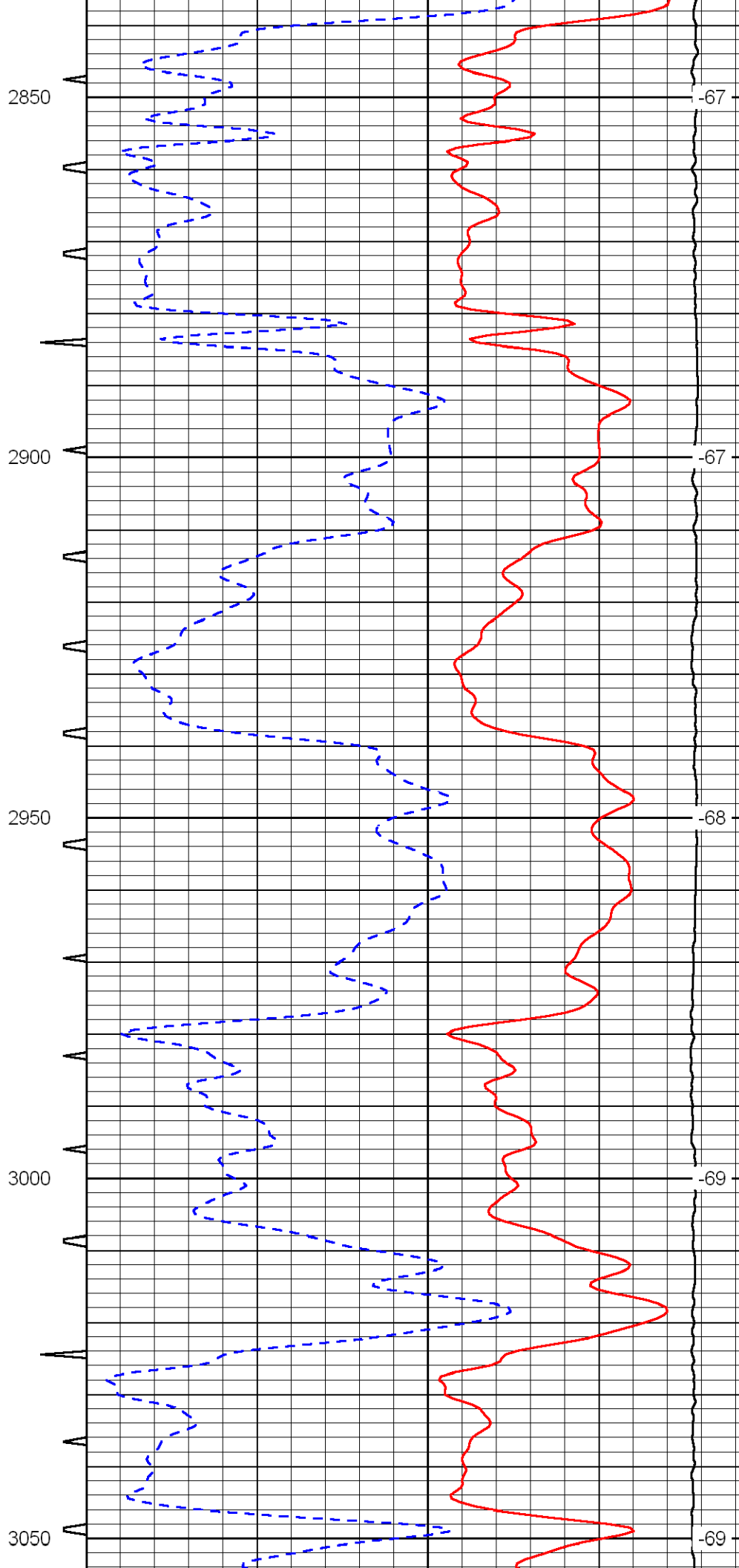
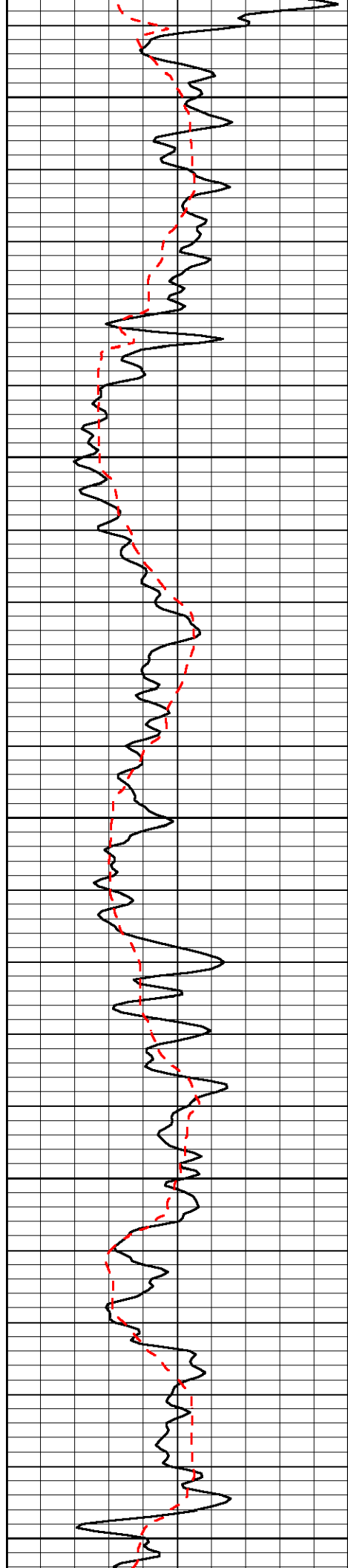












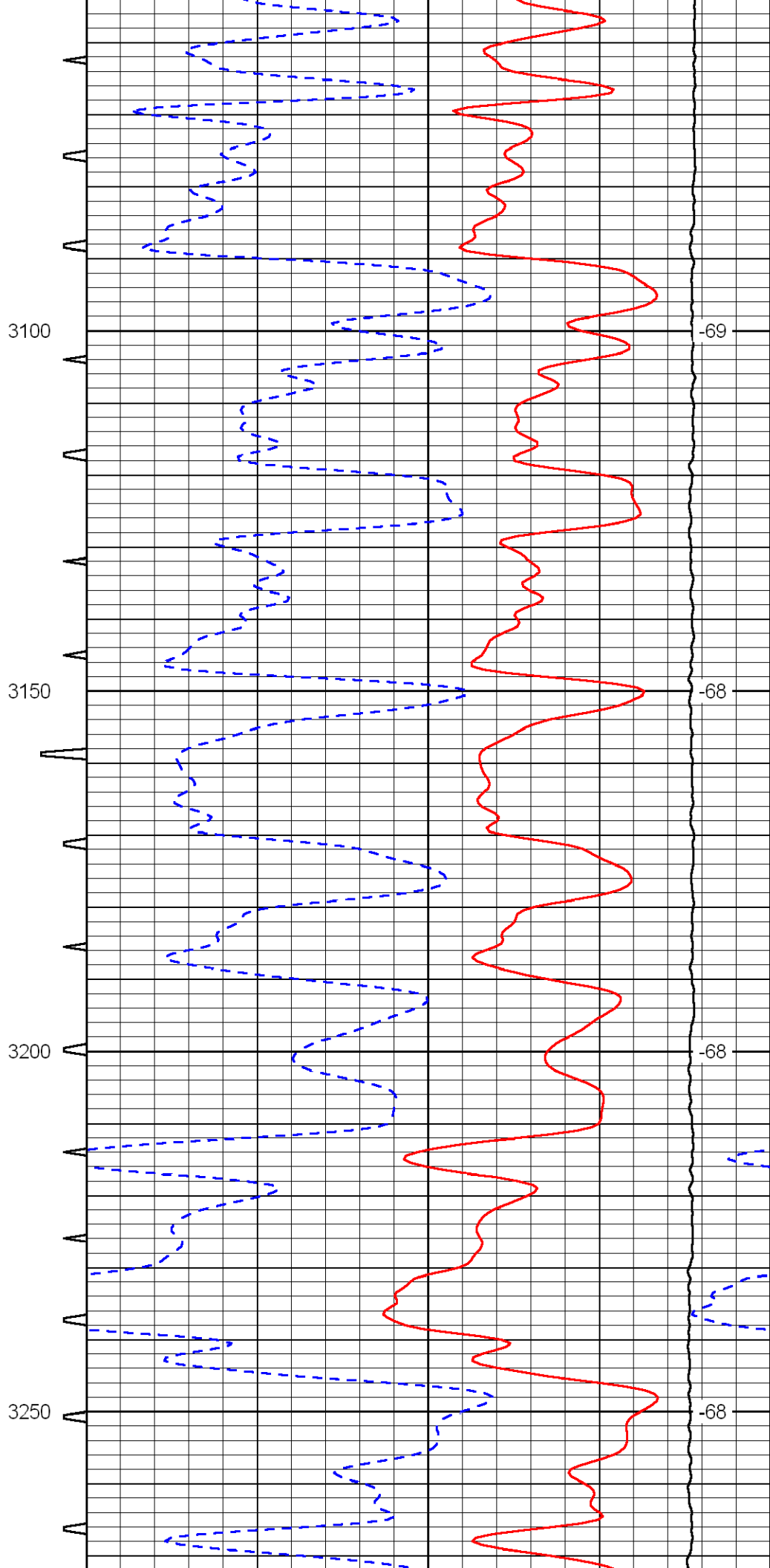
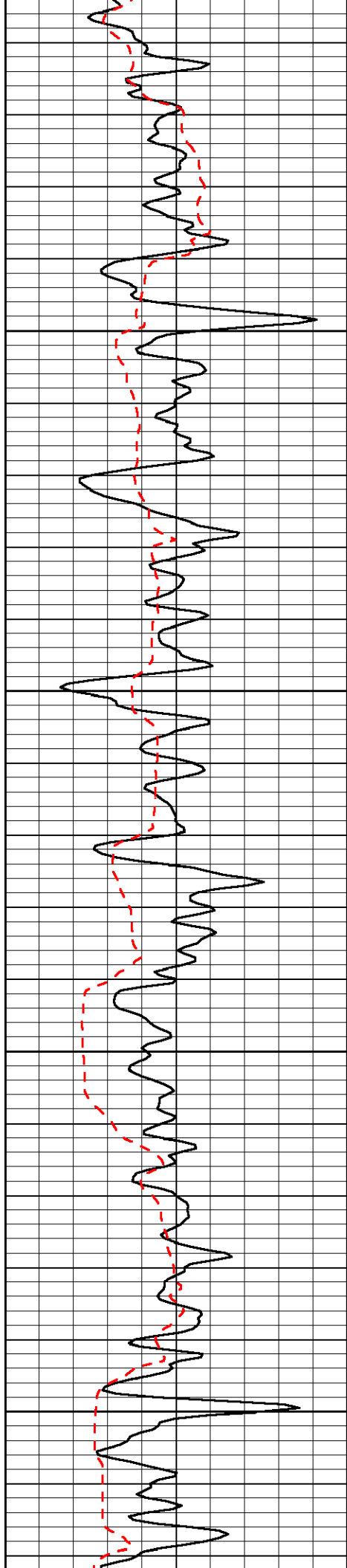
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-69



3100

-69

3150

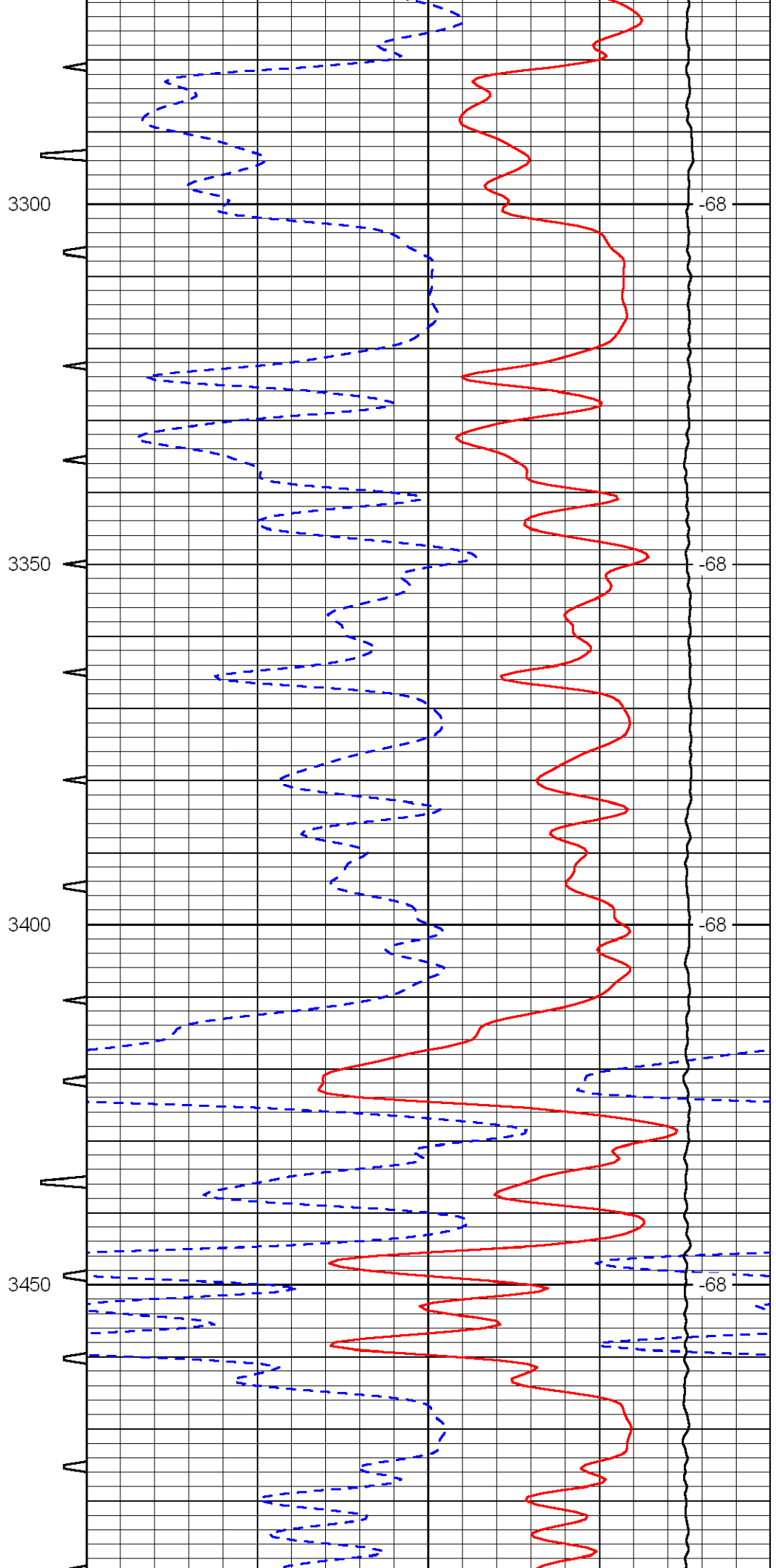
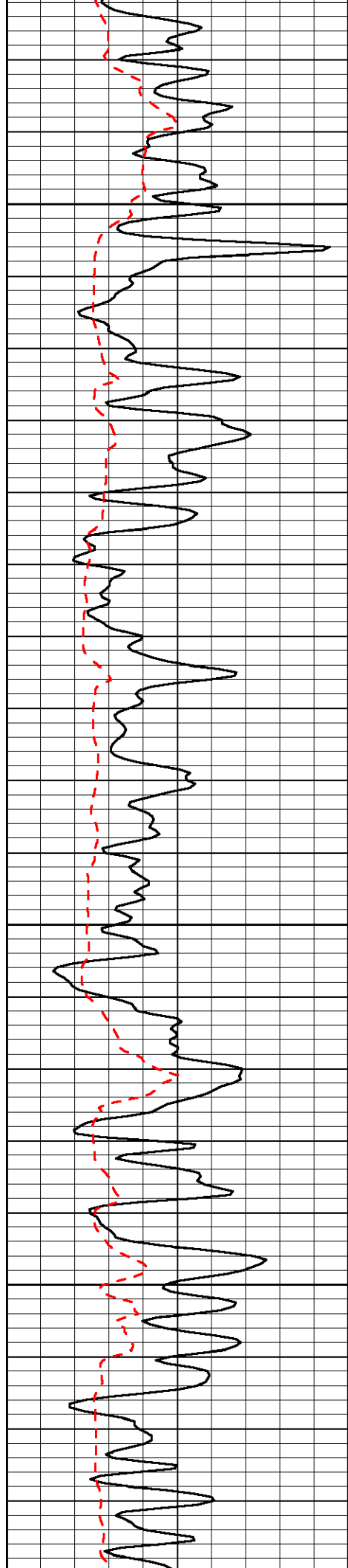
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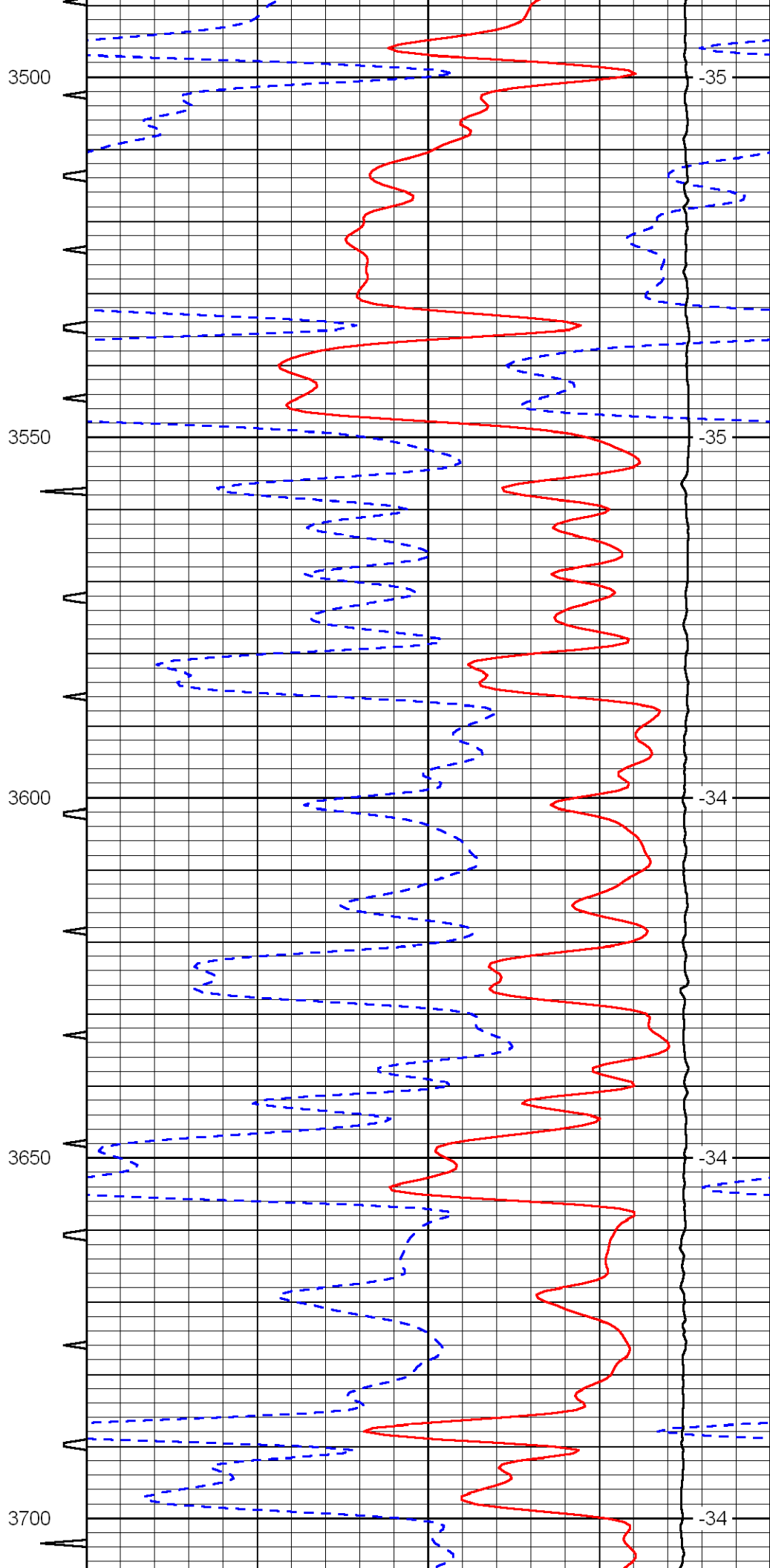
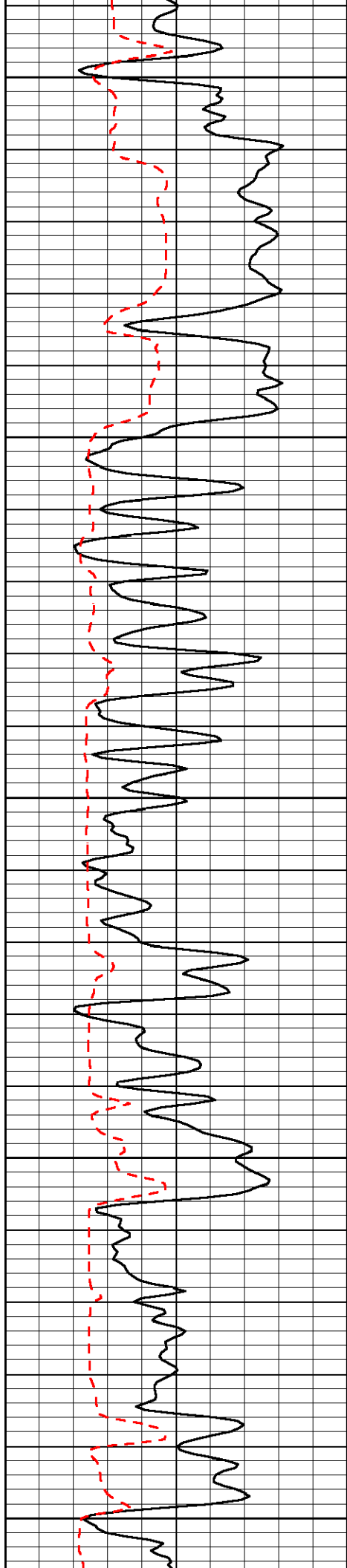
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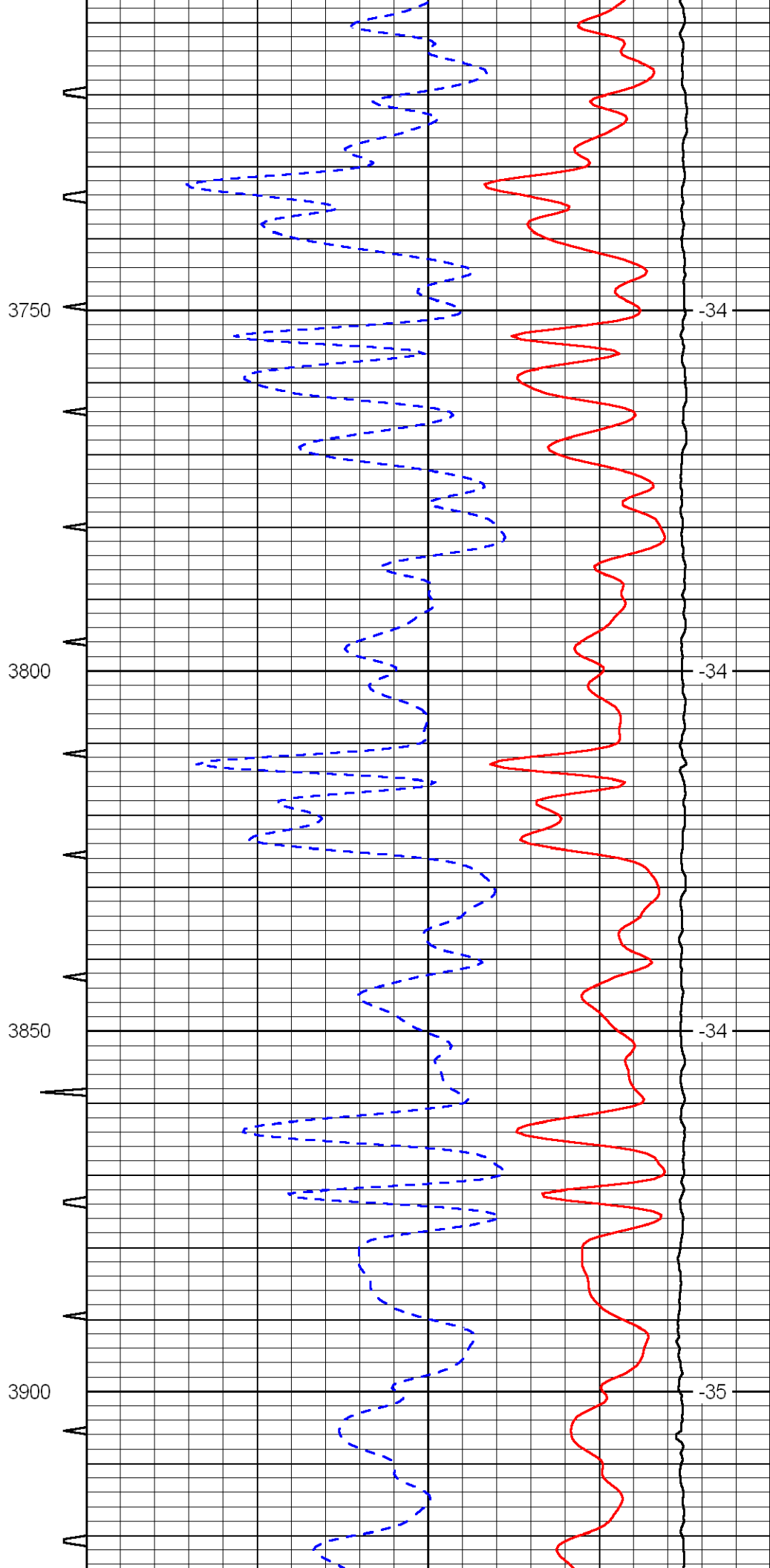
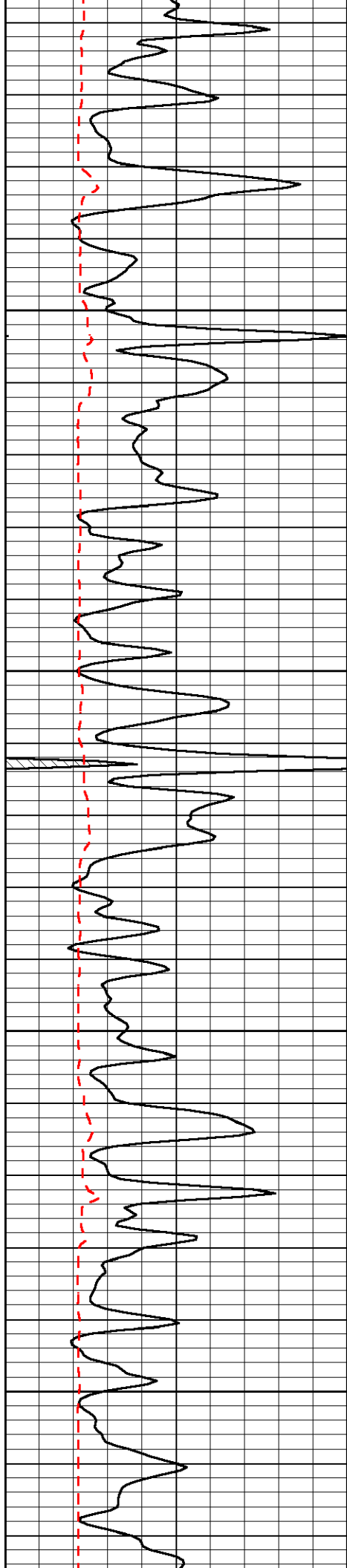
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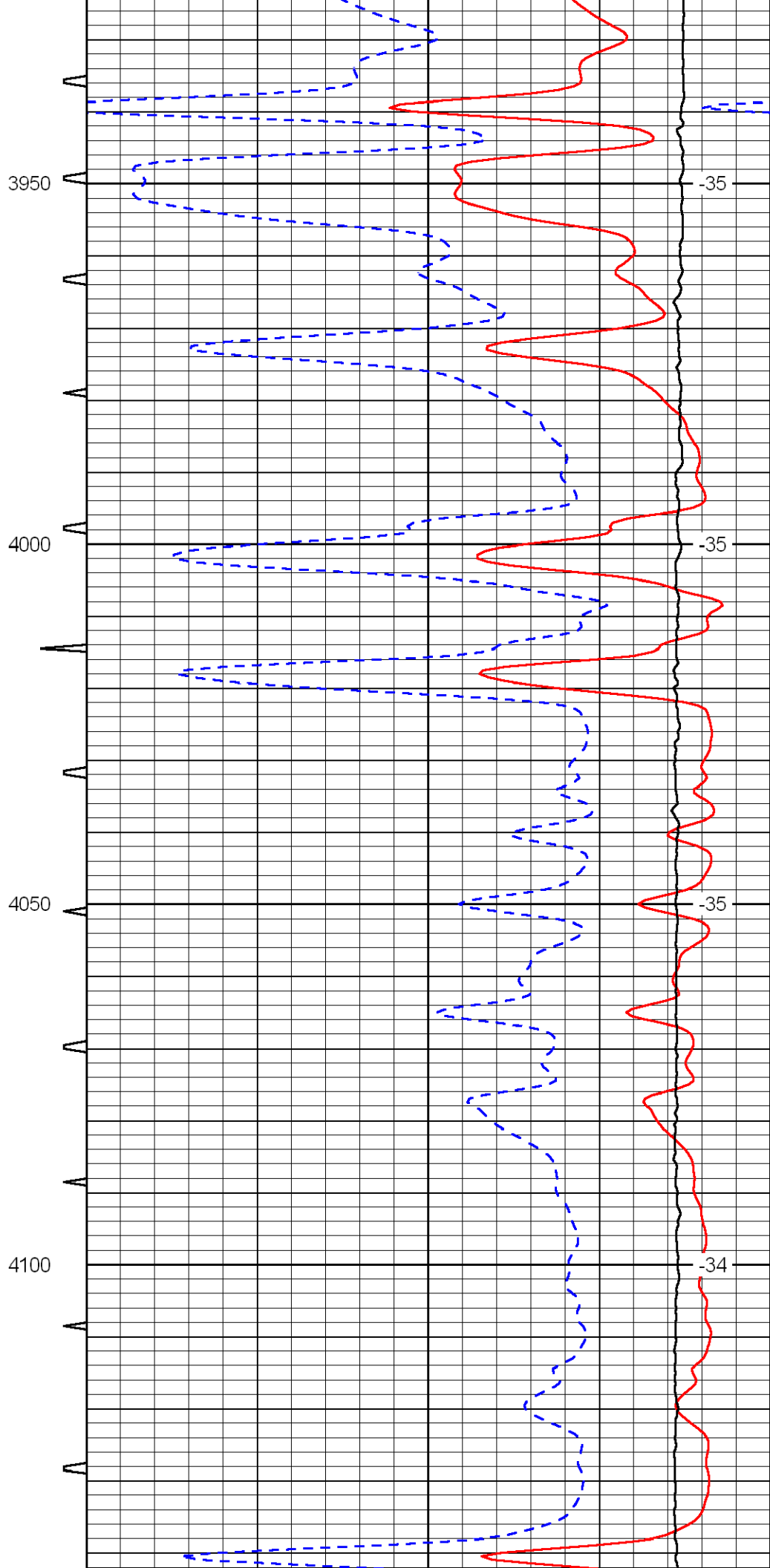
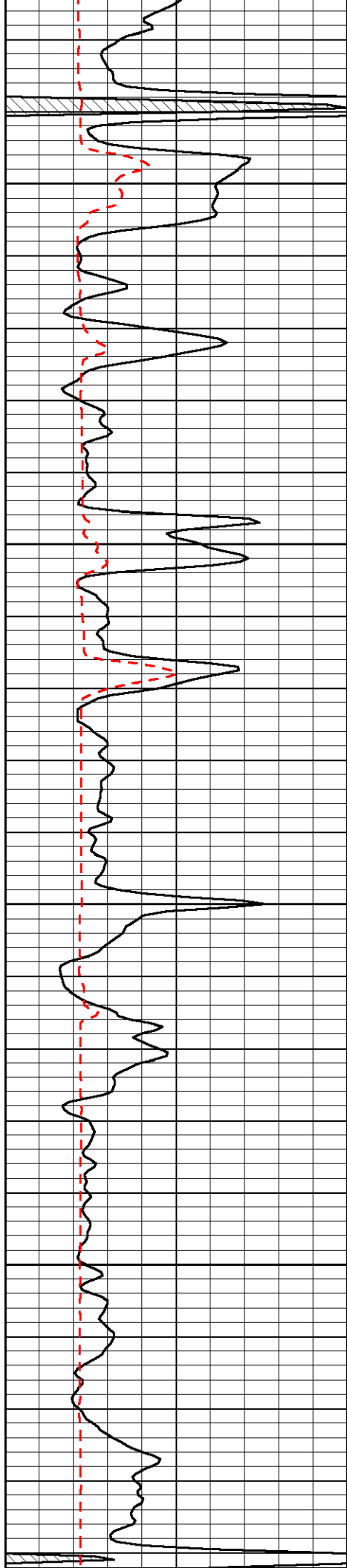
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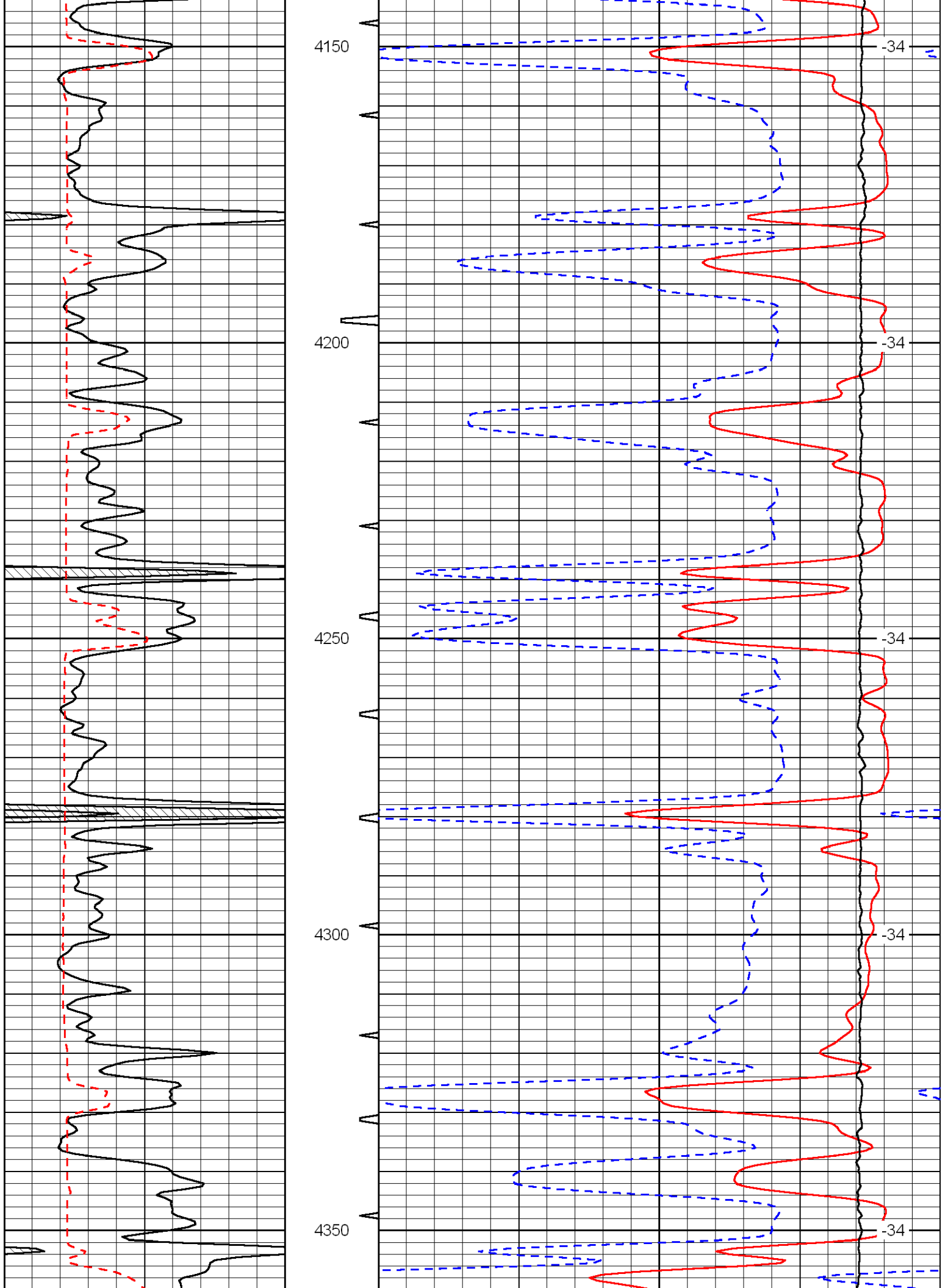
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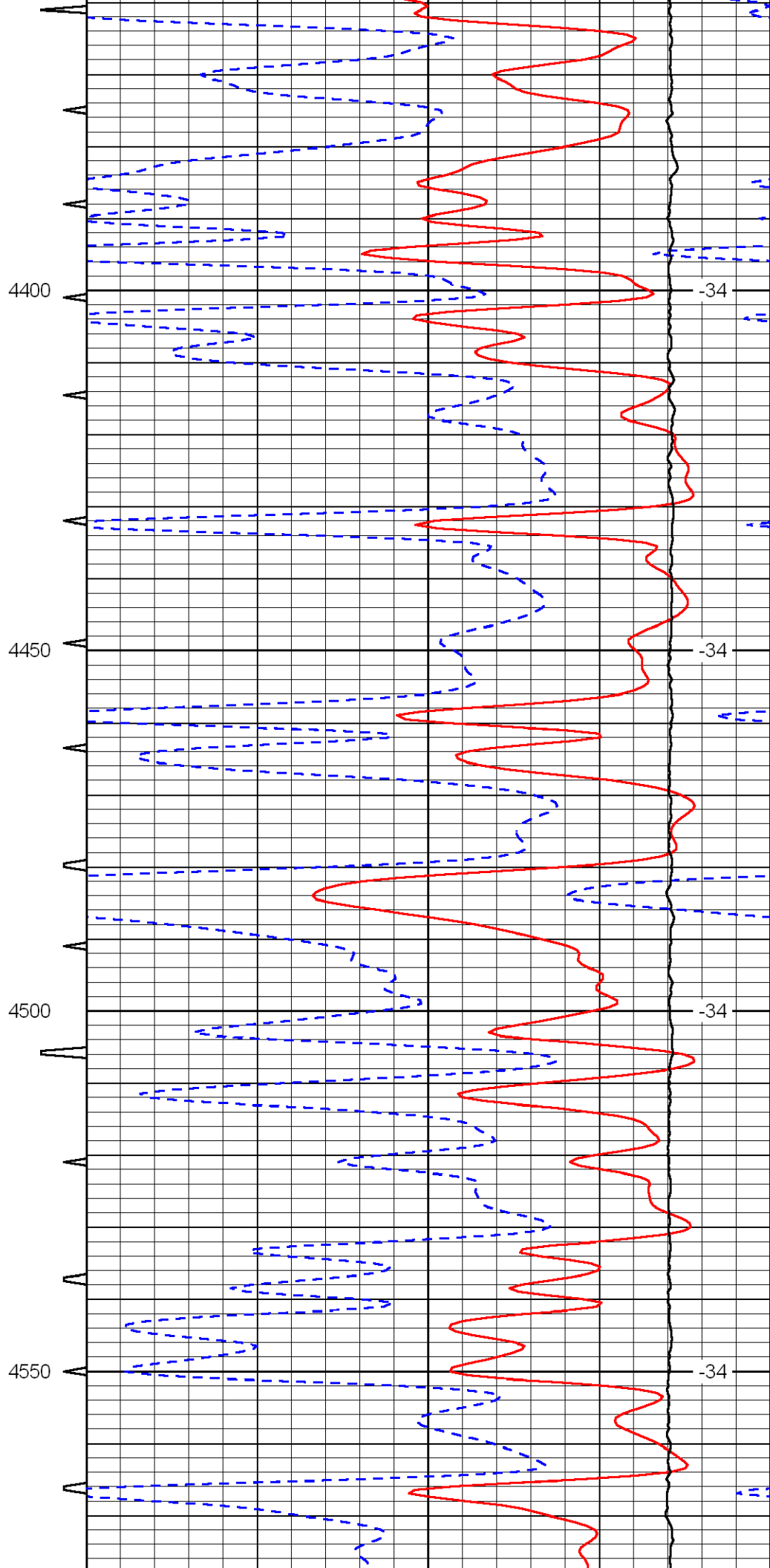
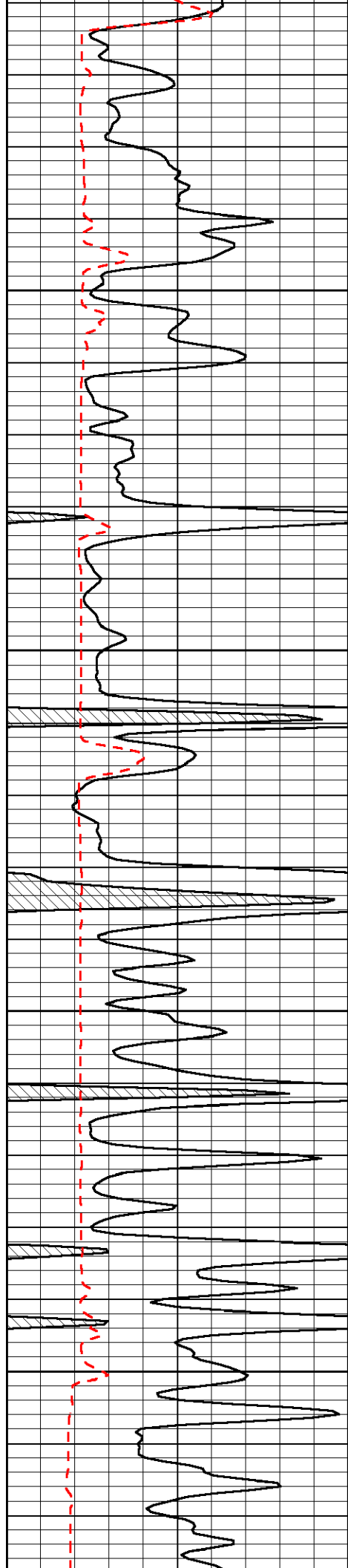


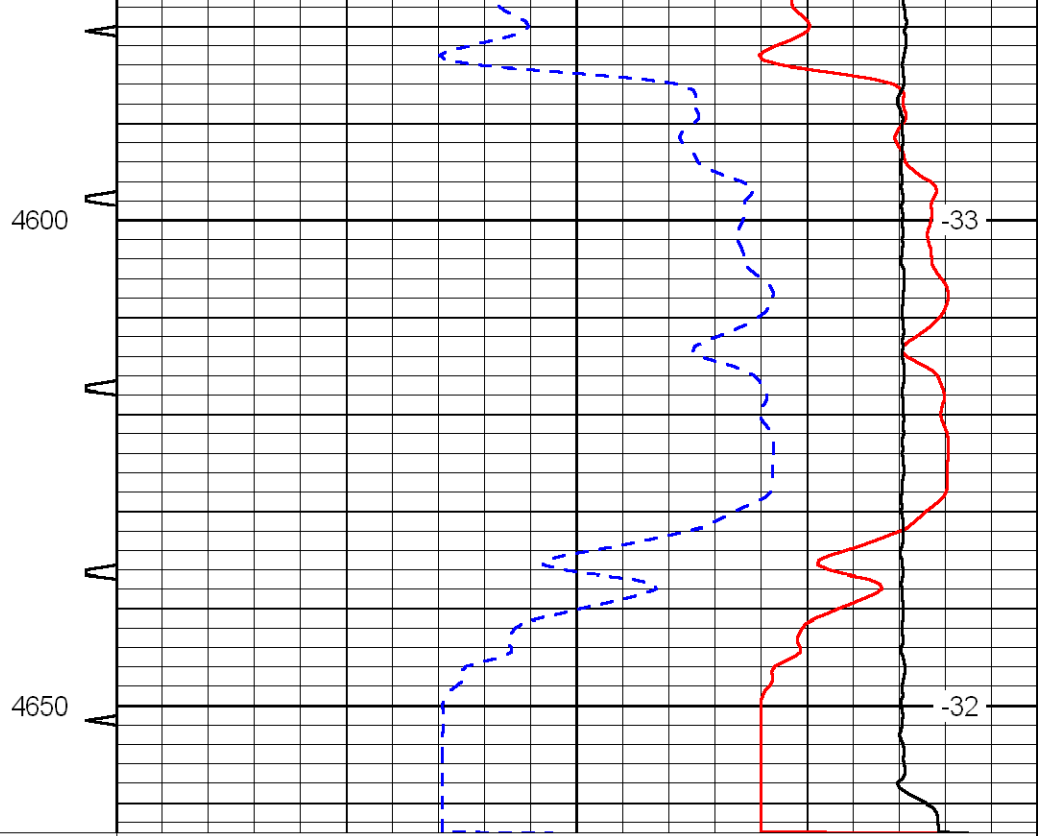
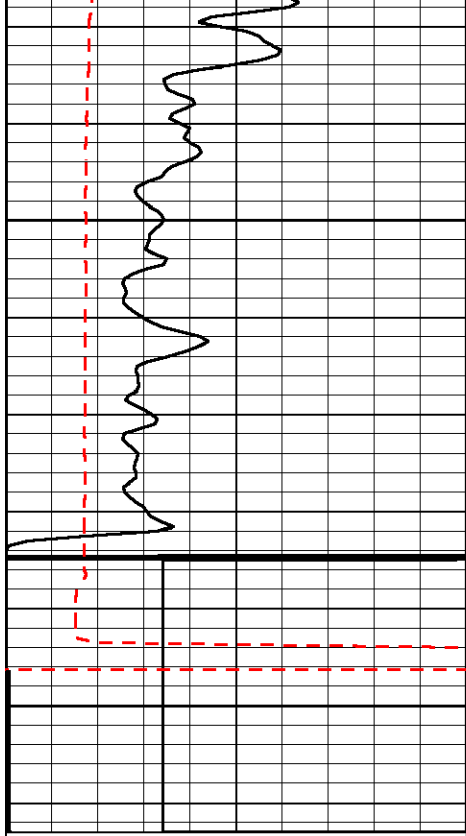












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0

LSPD



Dual Induction Log

DIGITAL LOG (785) 625-3858

15-101-22344-00-00

Company **Credo Petroleum Corporation**

Well **Riley #1-22**

Field **Wildcat**

County **Lane** State **Kansas**

Location **2310' FNL / 2600' FEL**

Sec: **22** Twp: **17S** Rge: **29W**

Other Services
CNL / CDL
MEL / BHCS

Elevation
K.B. 2805
D.F. 2800
G.L. 2800

Permanent Datum Ground Level Elevation 2800
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	2/5/2012
Run Number	One
Depth Driller	4655
Depth Logger	4657
Bottom Logged Interval	4656
Top Log Interval	250
Casing Driller	8.625 @ 263
Casing Logger	261
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2600
Density / Viscosity	9.5 48
pH / Fluid Loss	8.0 10.4
Source of Sample	Flowline
Rm @ Meas. Temp	1.20 @ 55
Rmf @ Meas. Temp	0.90 @ 55
Rmc @ Meas. Temp	1.62 @ 55
Source of Rmf / Rmc	Charts
Rm @ BHT	0.54 @ 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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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:
5E to Ike Rd., 3S to 210 Rd.
1/2E, S into

Database File: credohd.db
Dataset Pathname: dil/cremain
Presentation Format: dil2in
Dataset Creation: Sun Feb 05 22:52:54 2012
Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150
-200 SP 0

0 Shallow Resistivity 50
0 Deep Resistivity 50

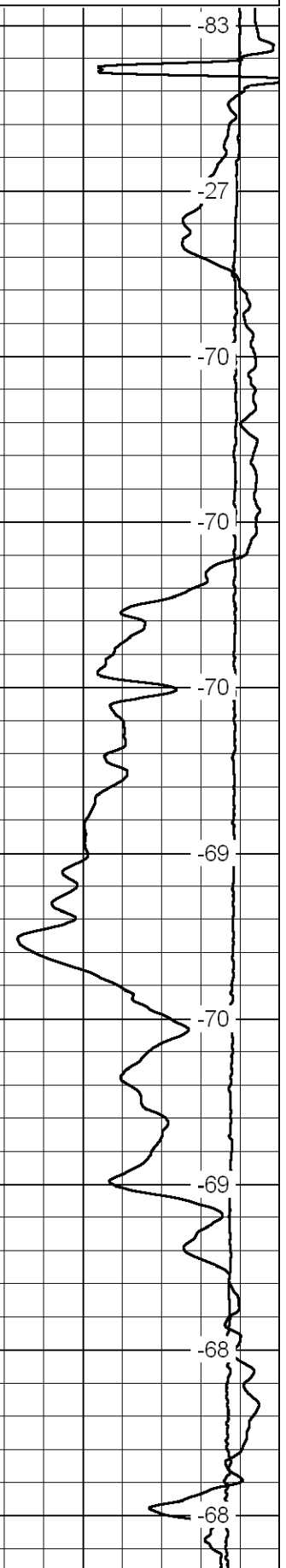
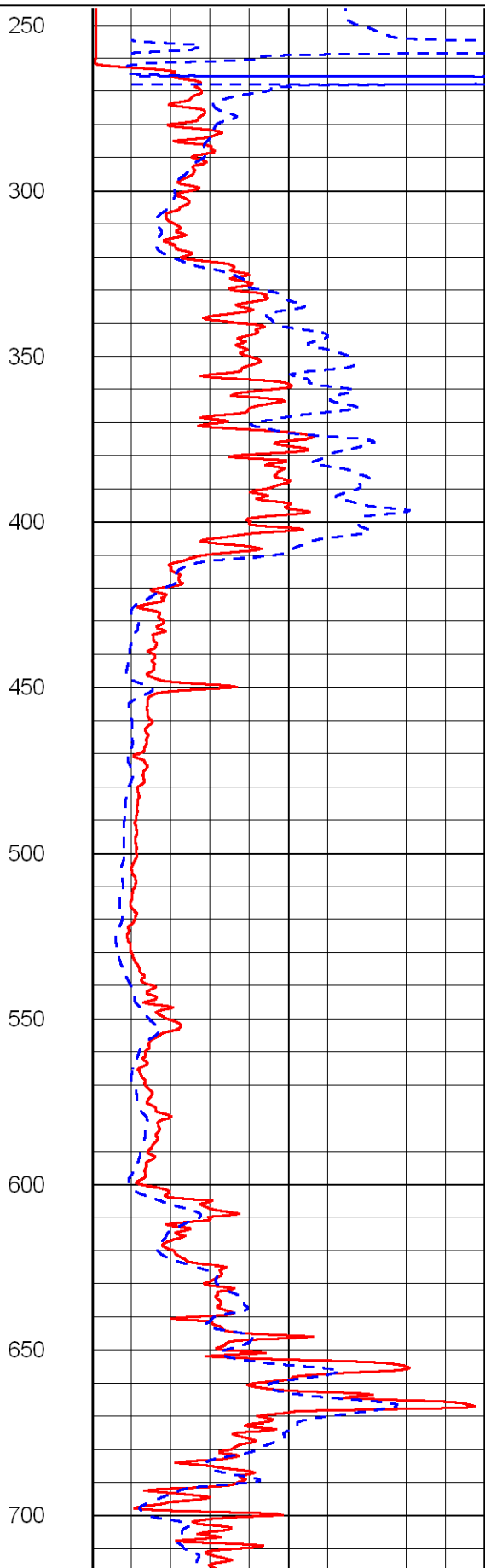
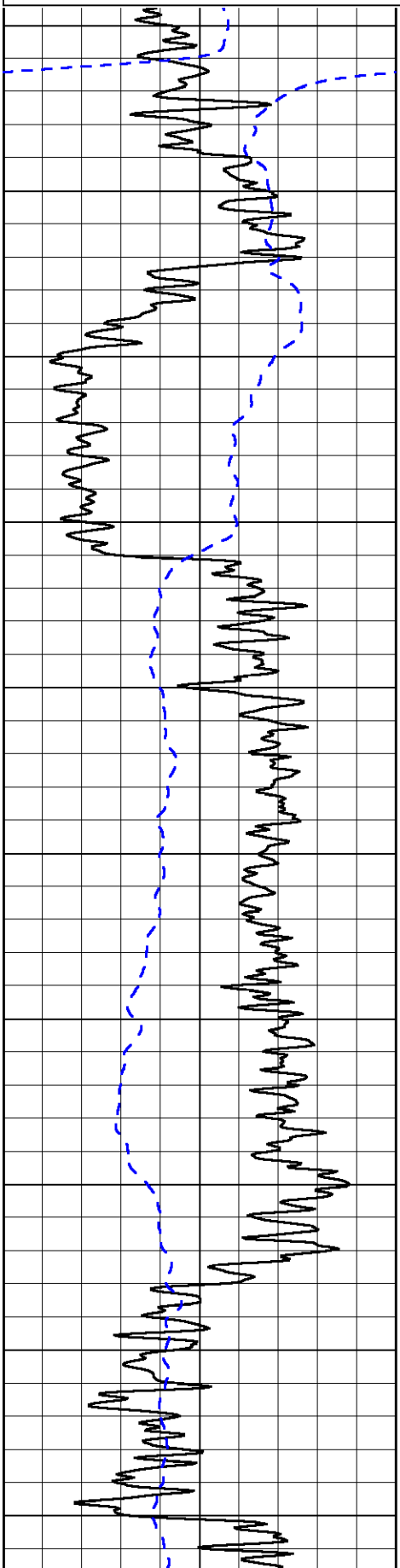
LSPD

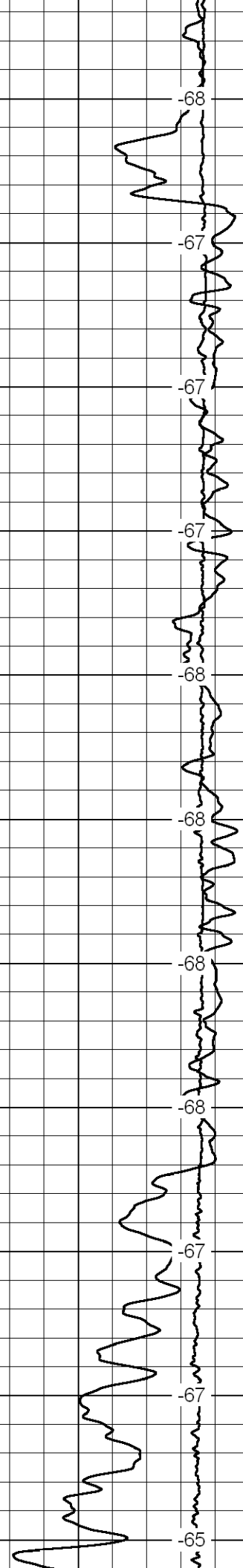
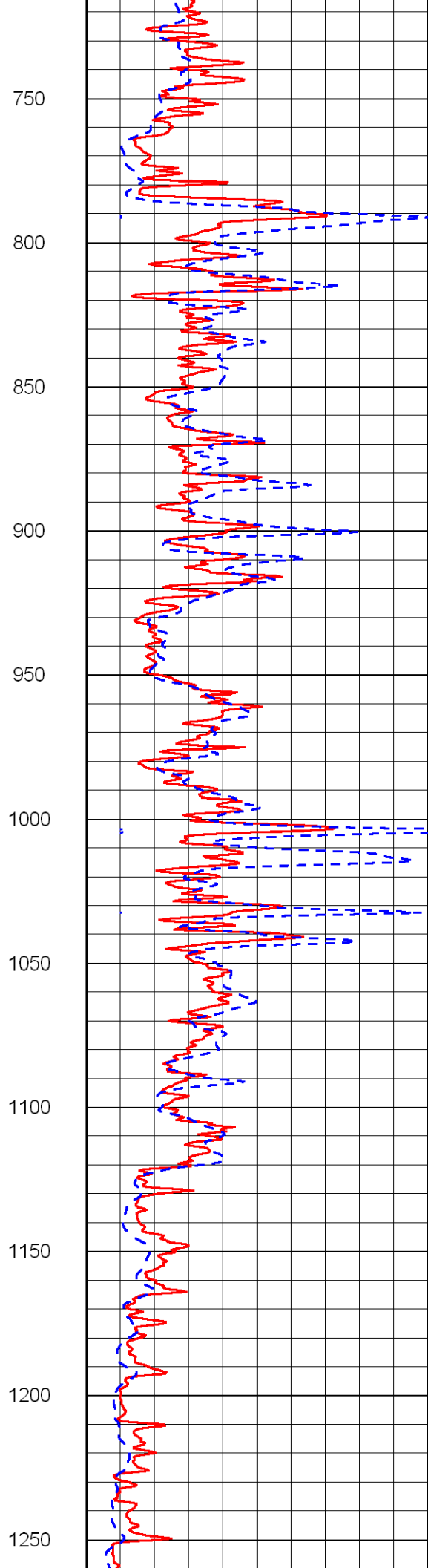
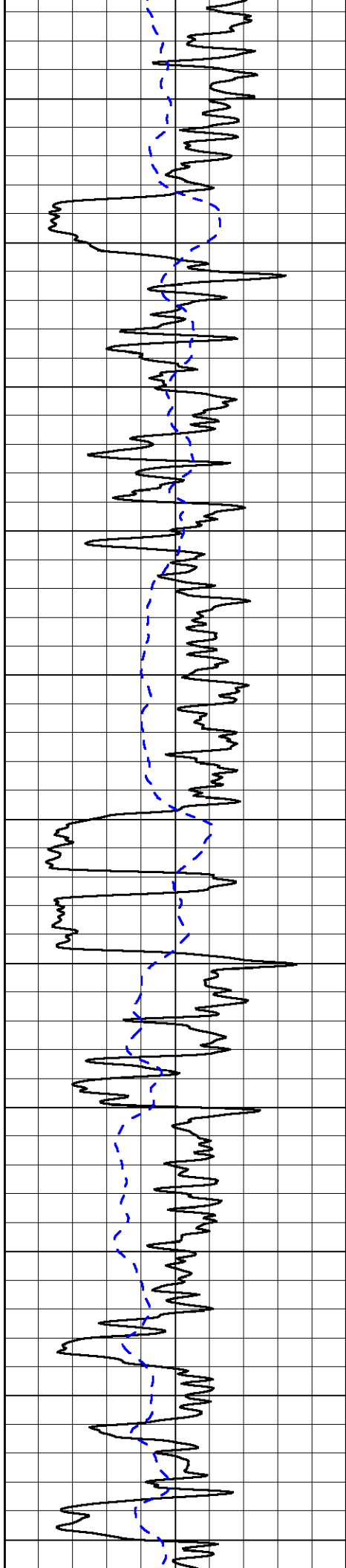
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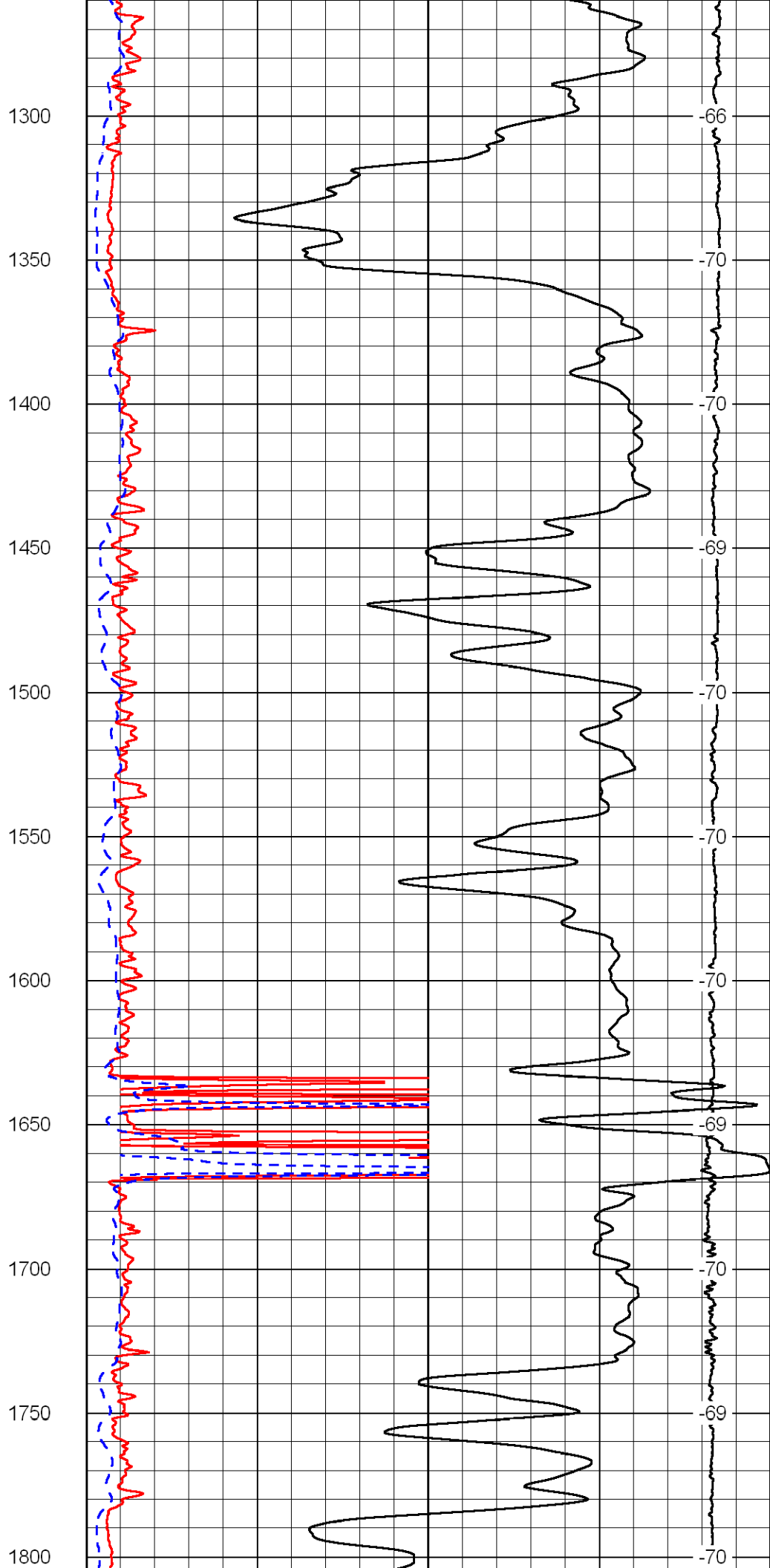
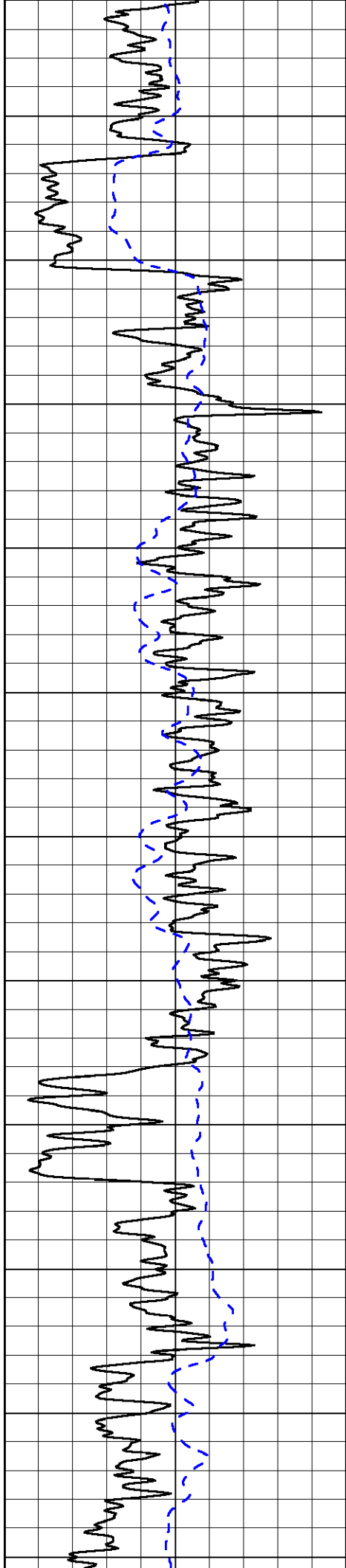
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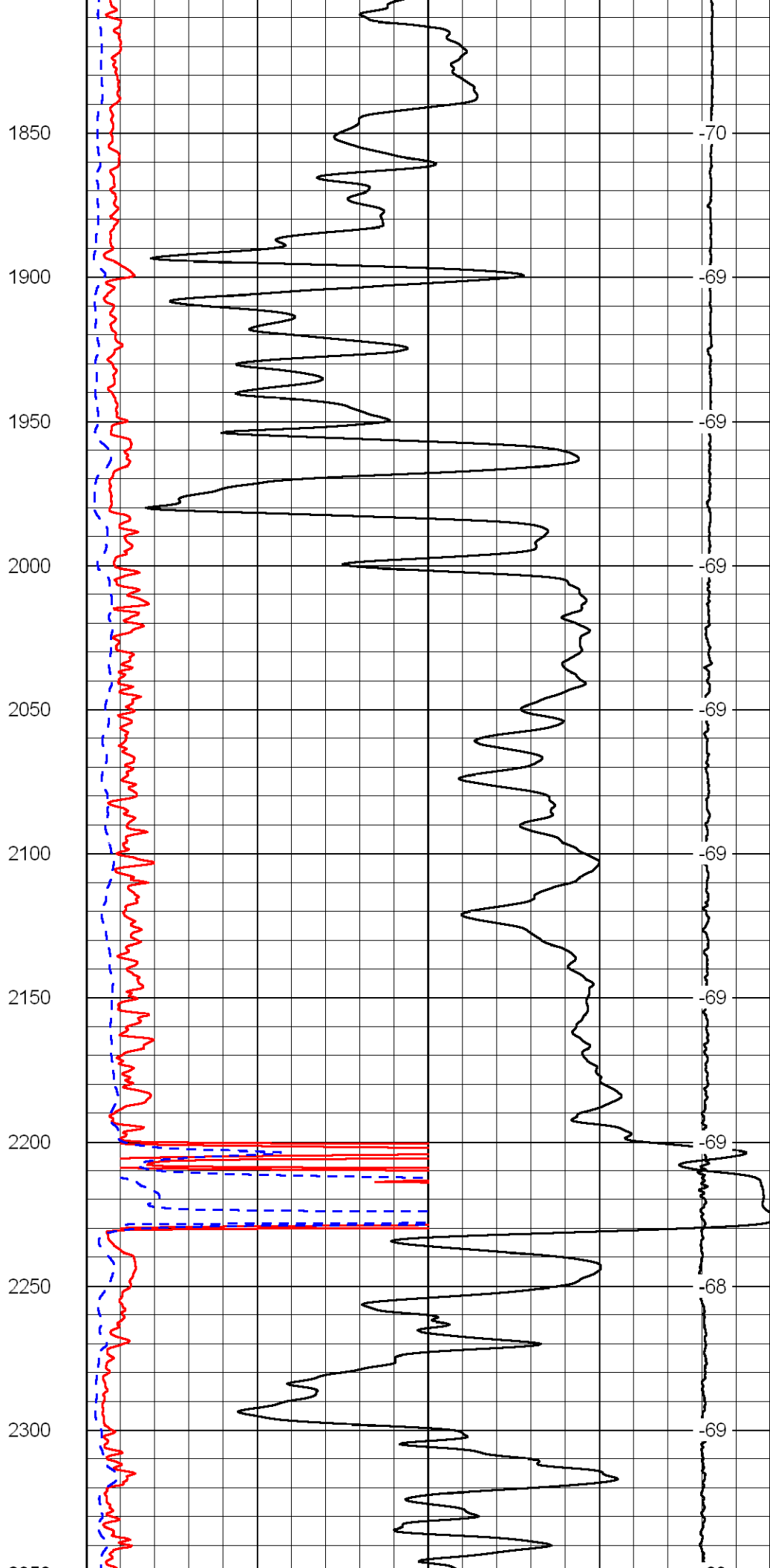
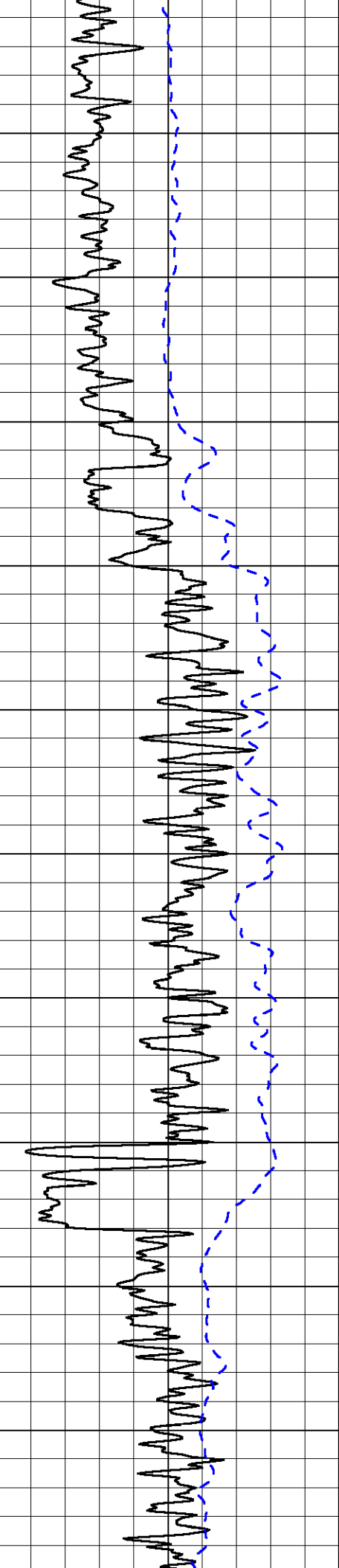
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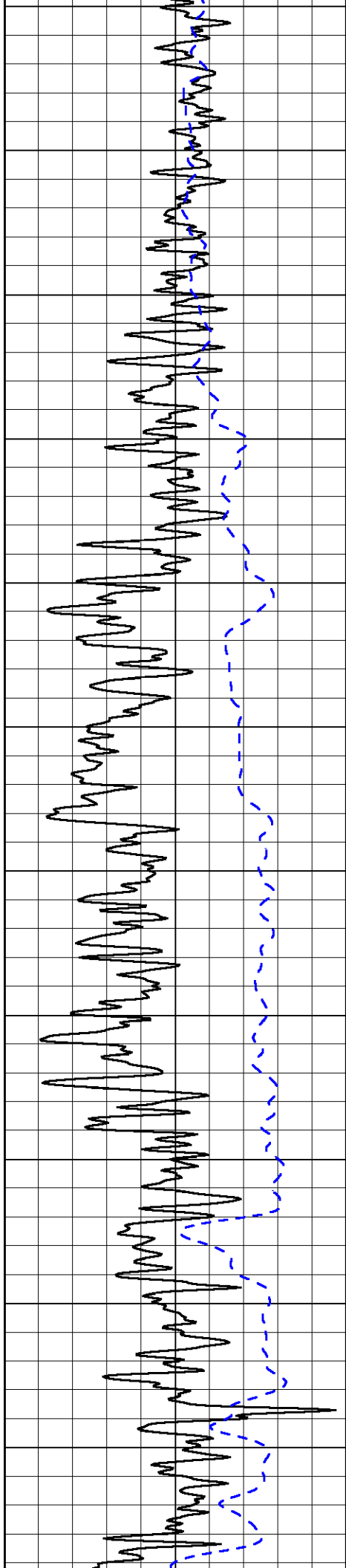
50 Deep Resistivity 500



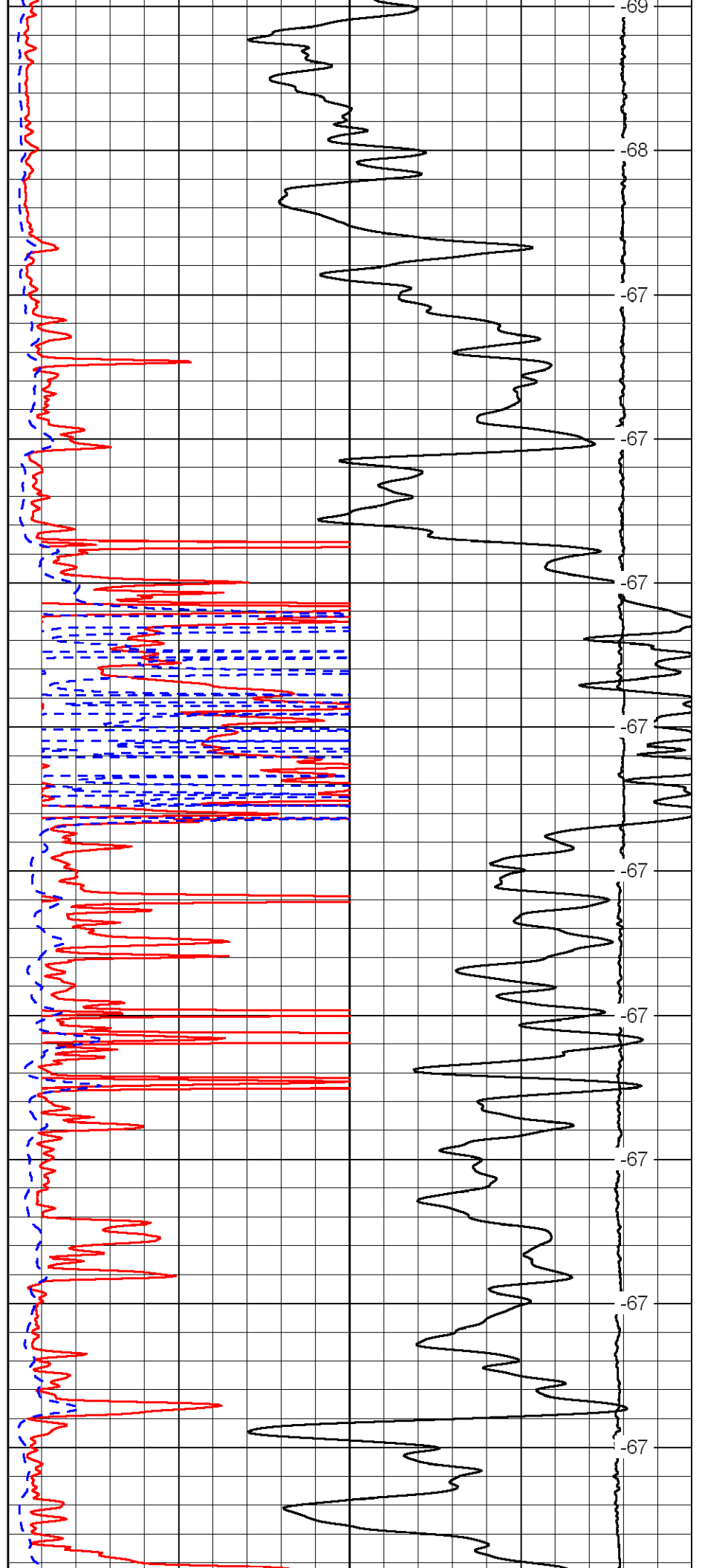




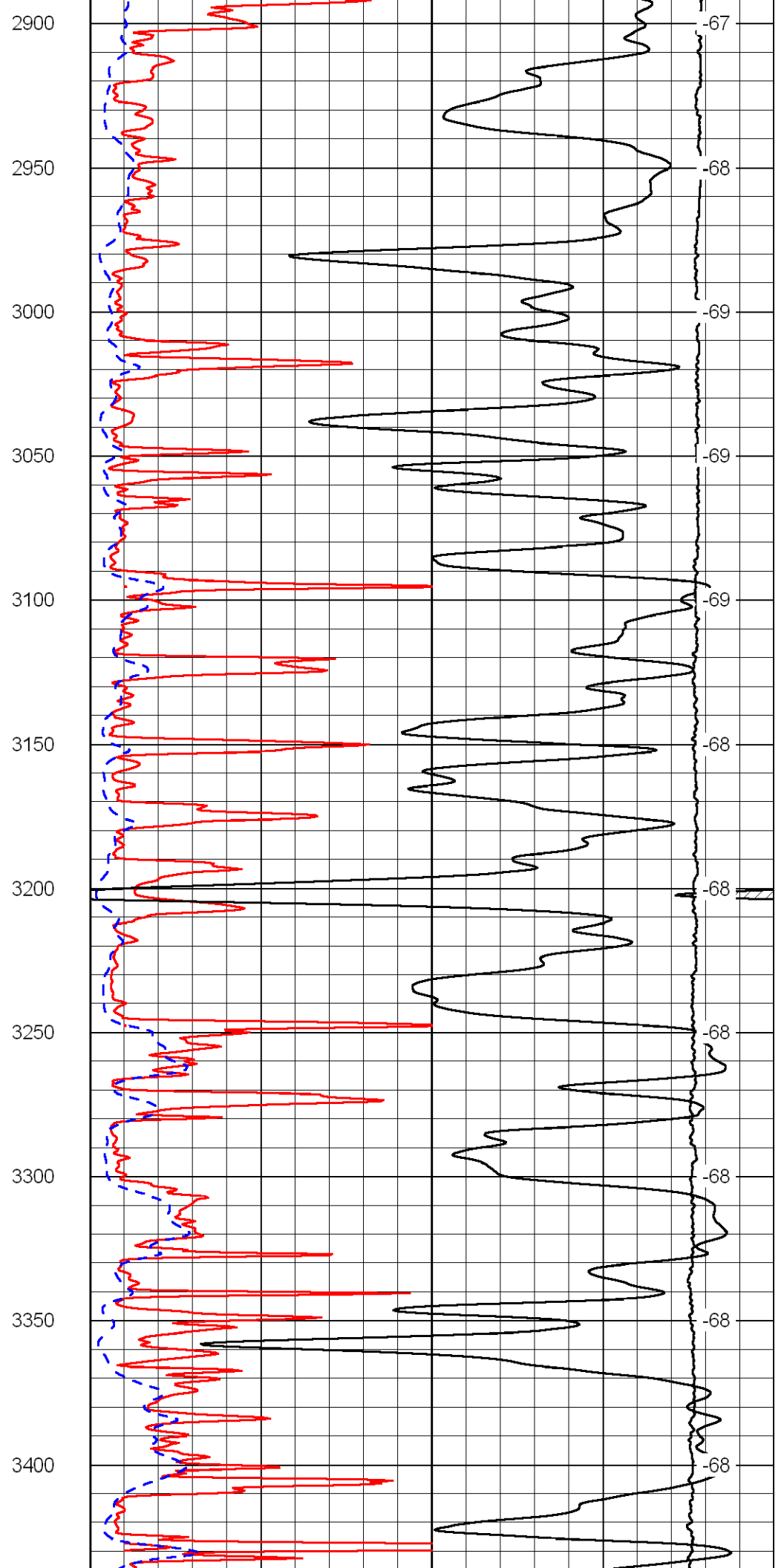
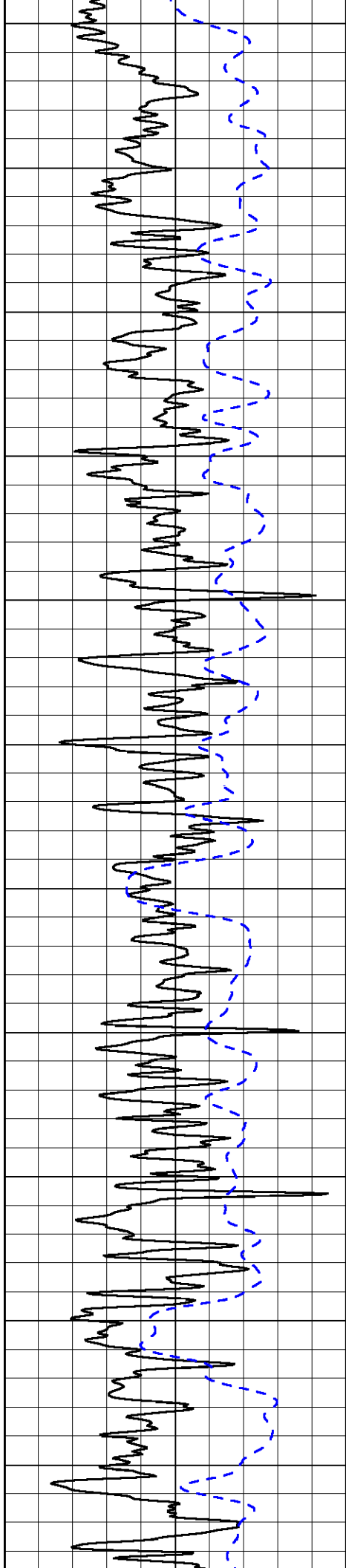


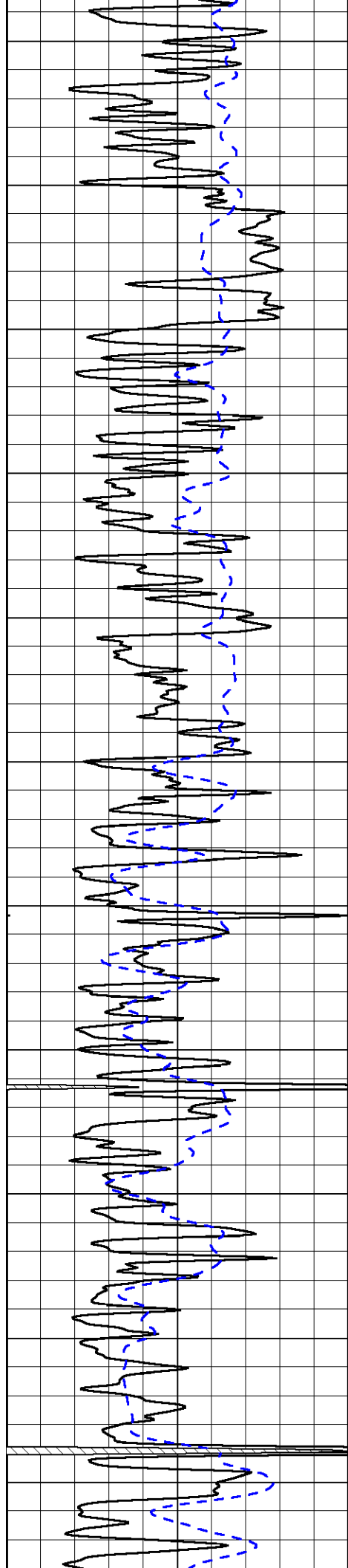


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2800
2850

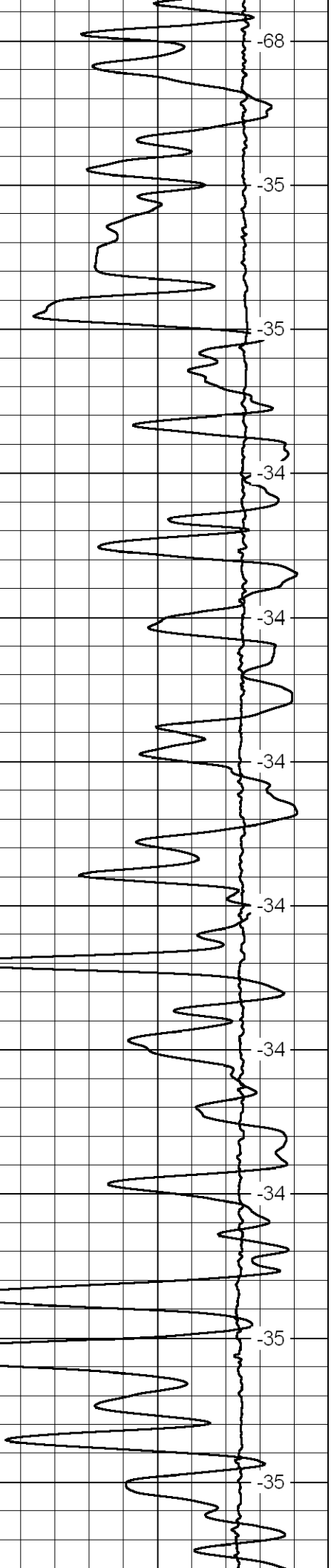
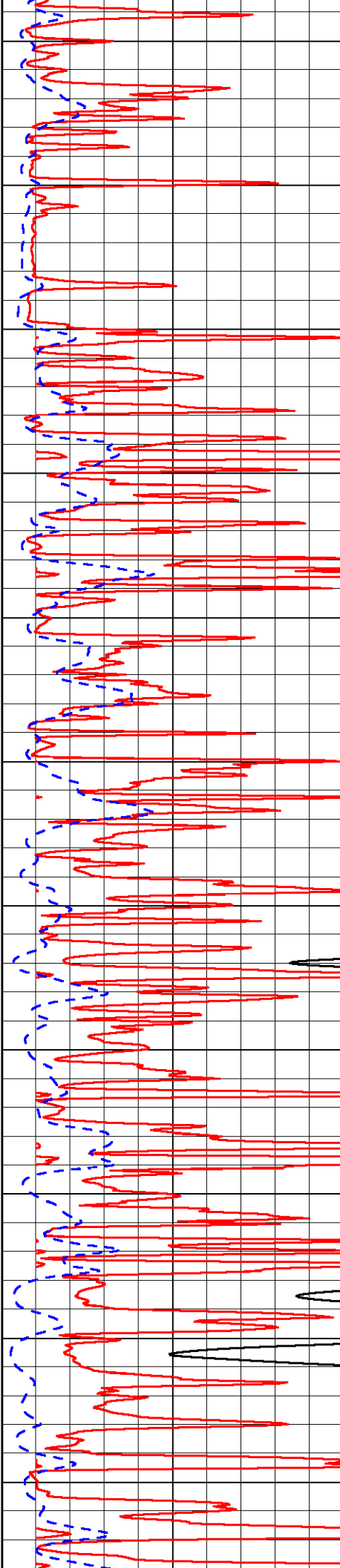


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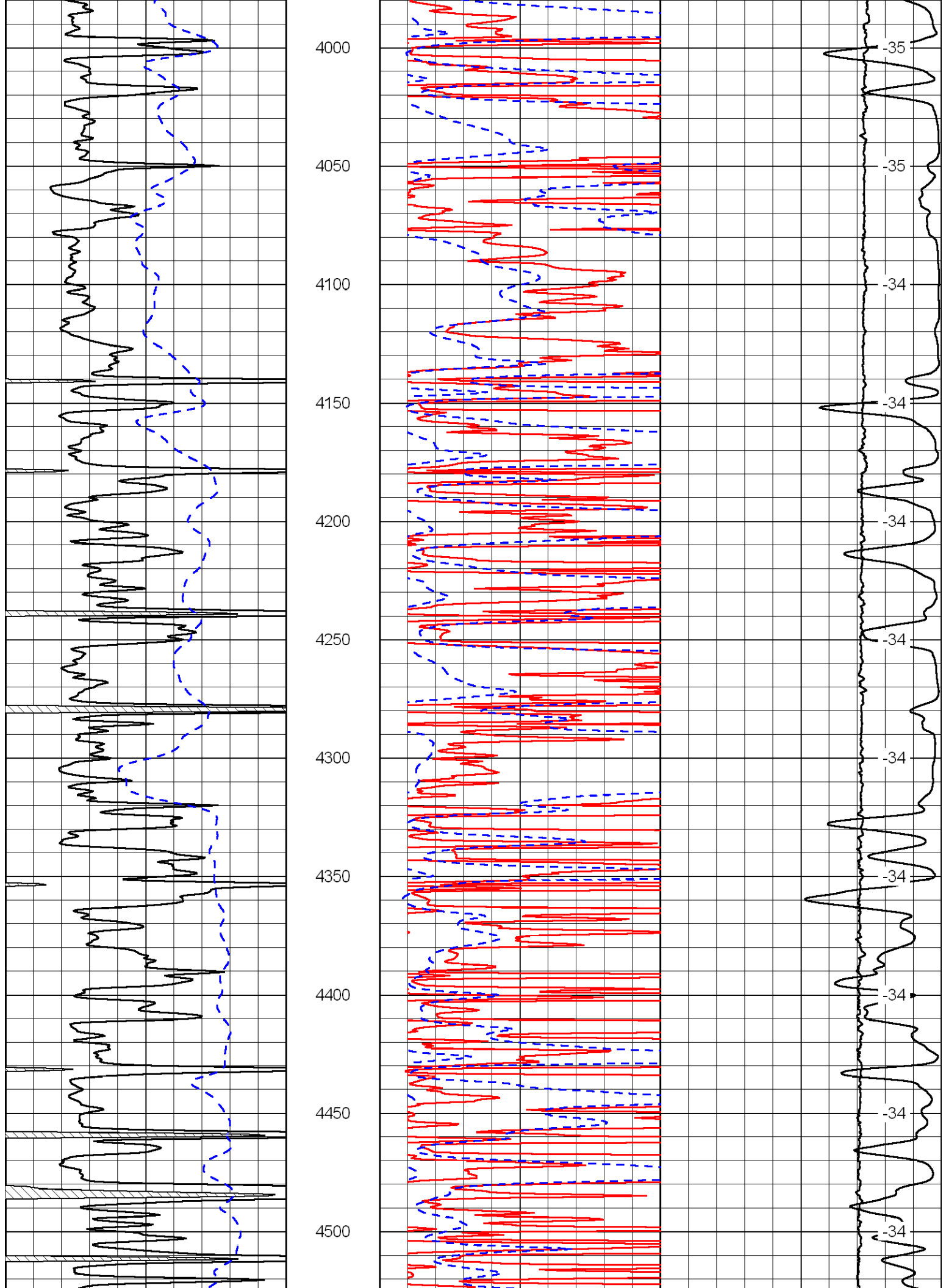


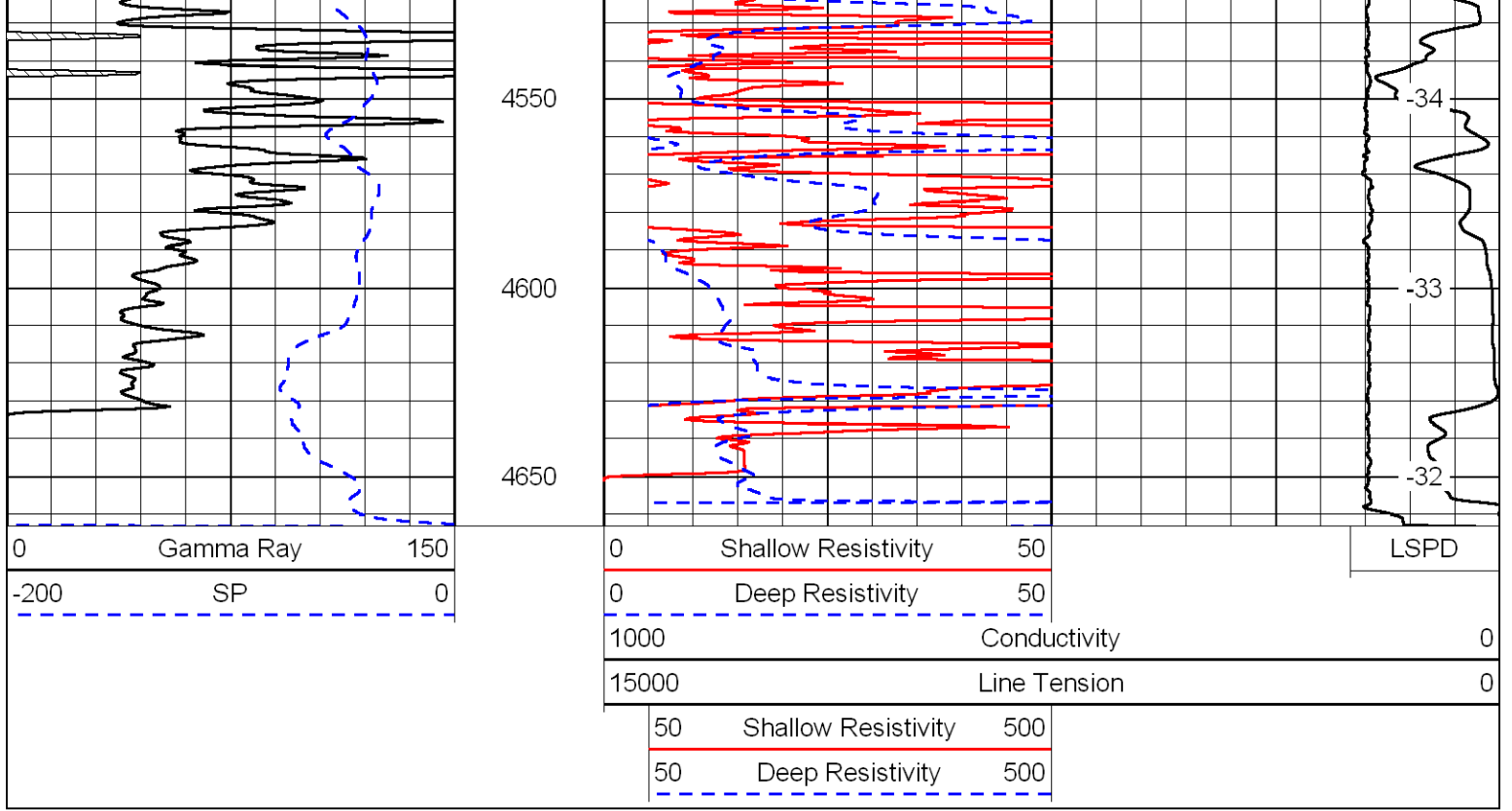


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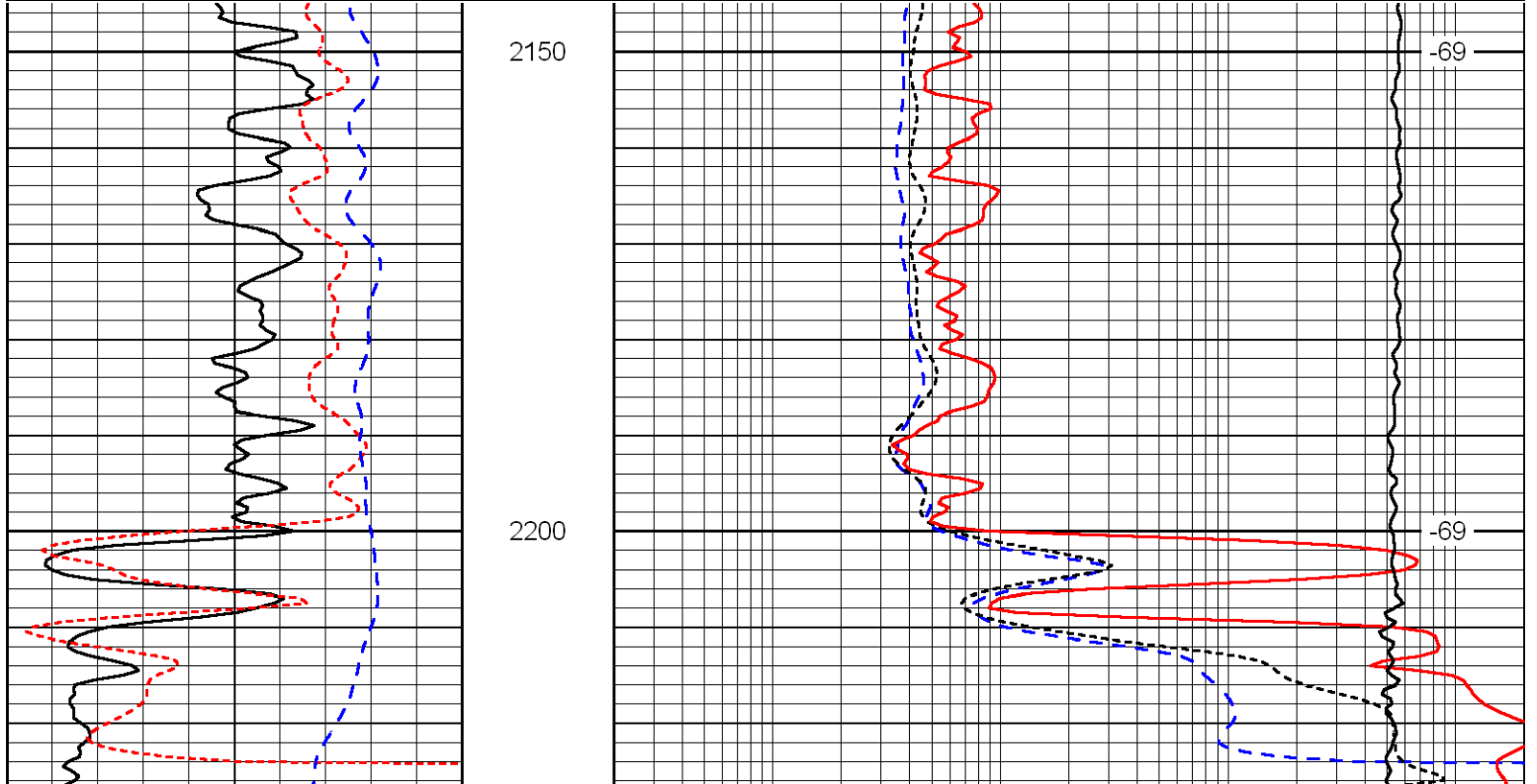
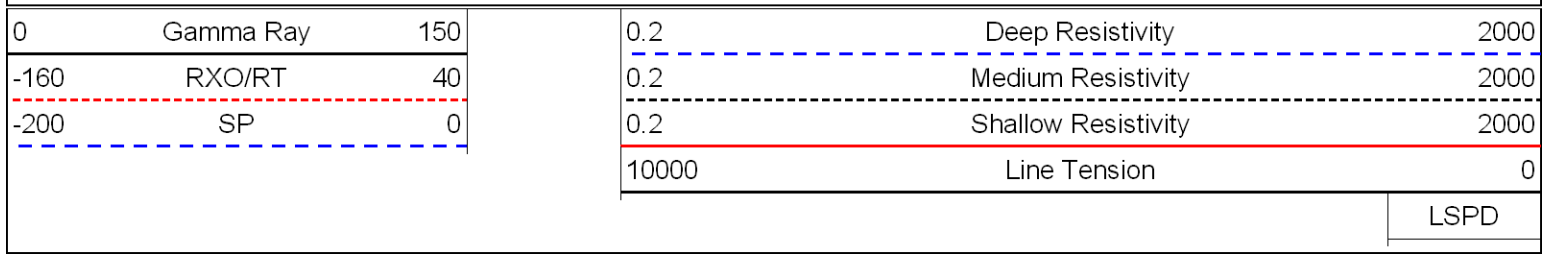


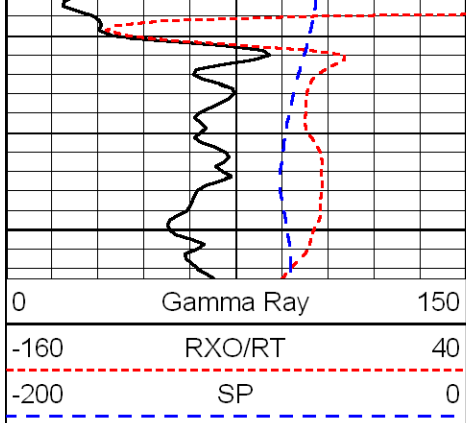
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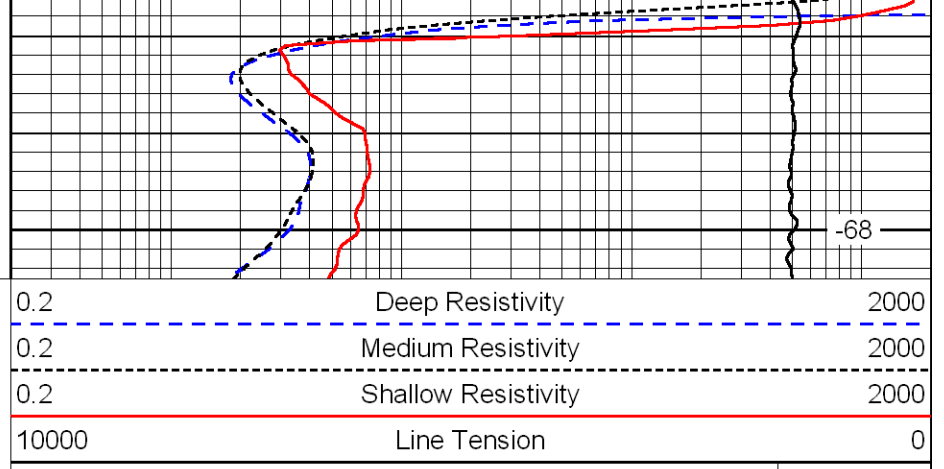
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 Presentation Format: dil
 Dataset Creation: Sun Feb 05 22:52:54 2012
 Charted by: Depth in Feet scaled 1:240





2250

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-68

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

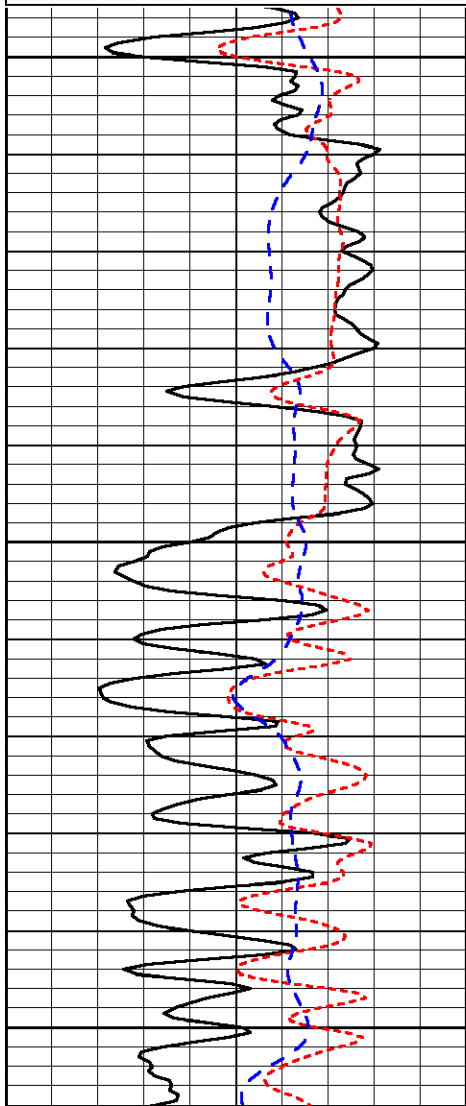
LSPD

Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: dil
 Dataset Creation: Sun Feb 05 22:52:54 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

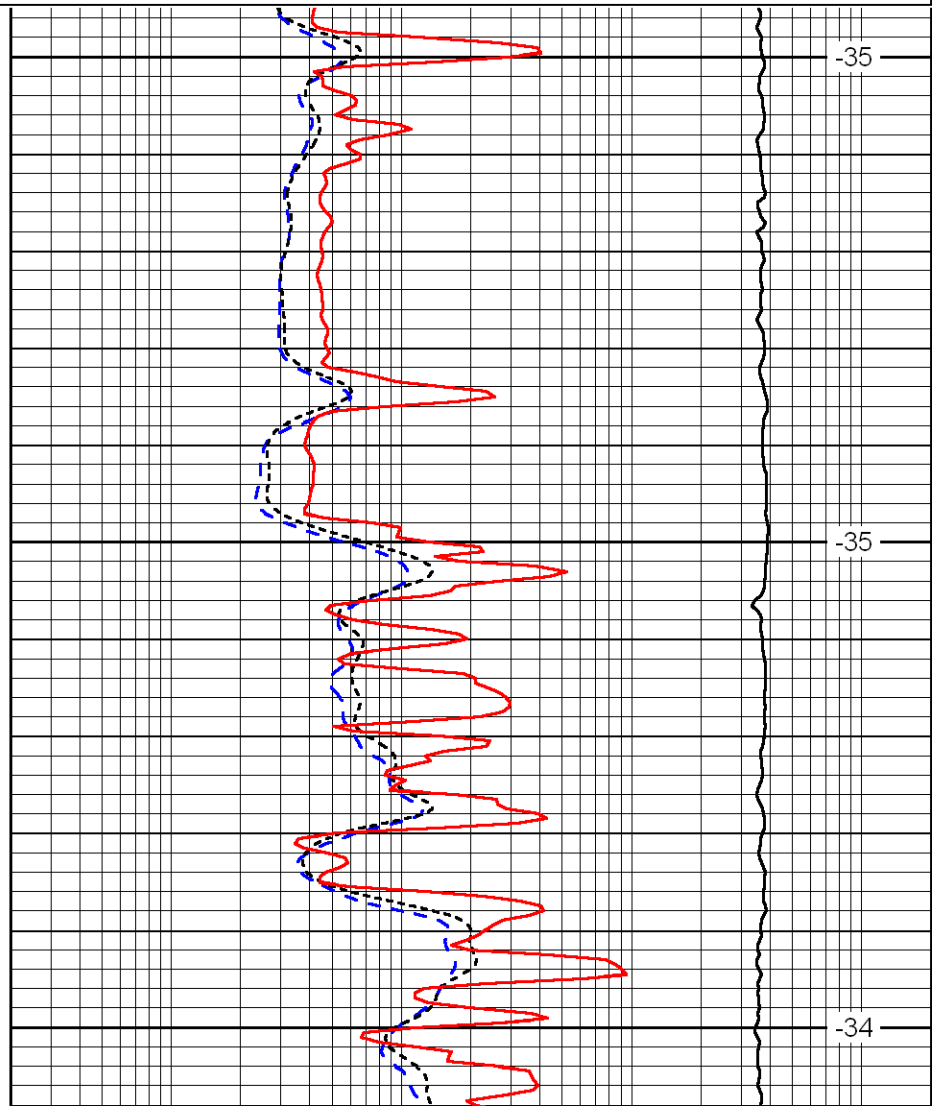
LSPD



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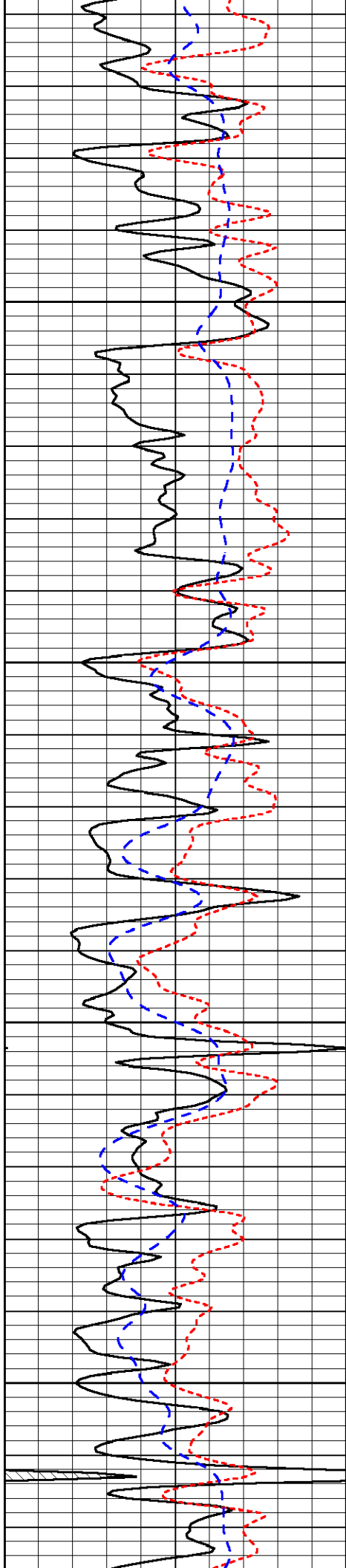
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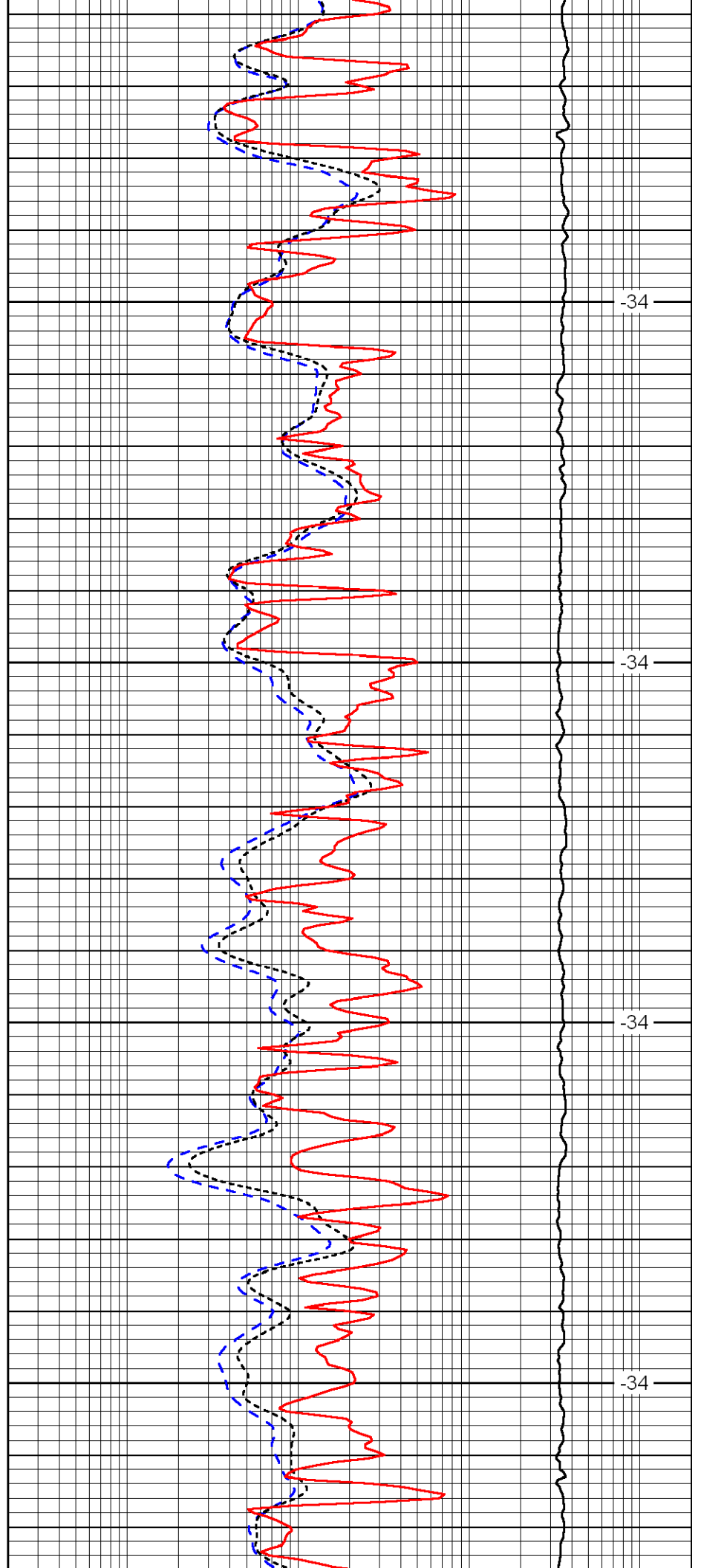


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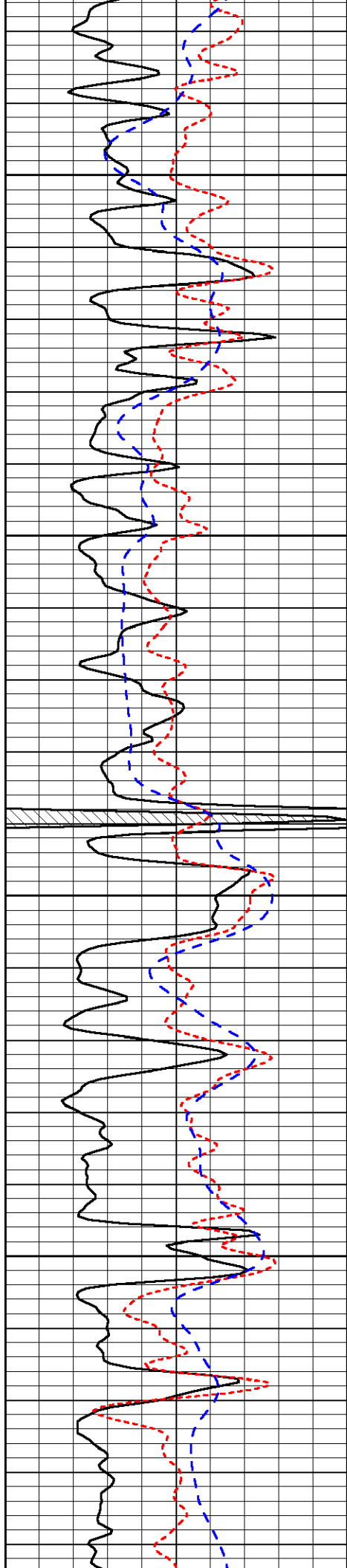


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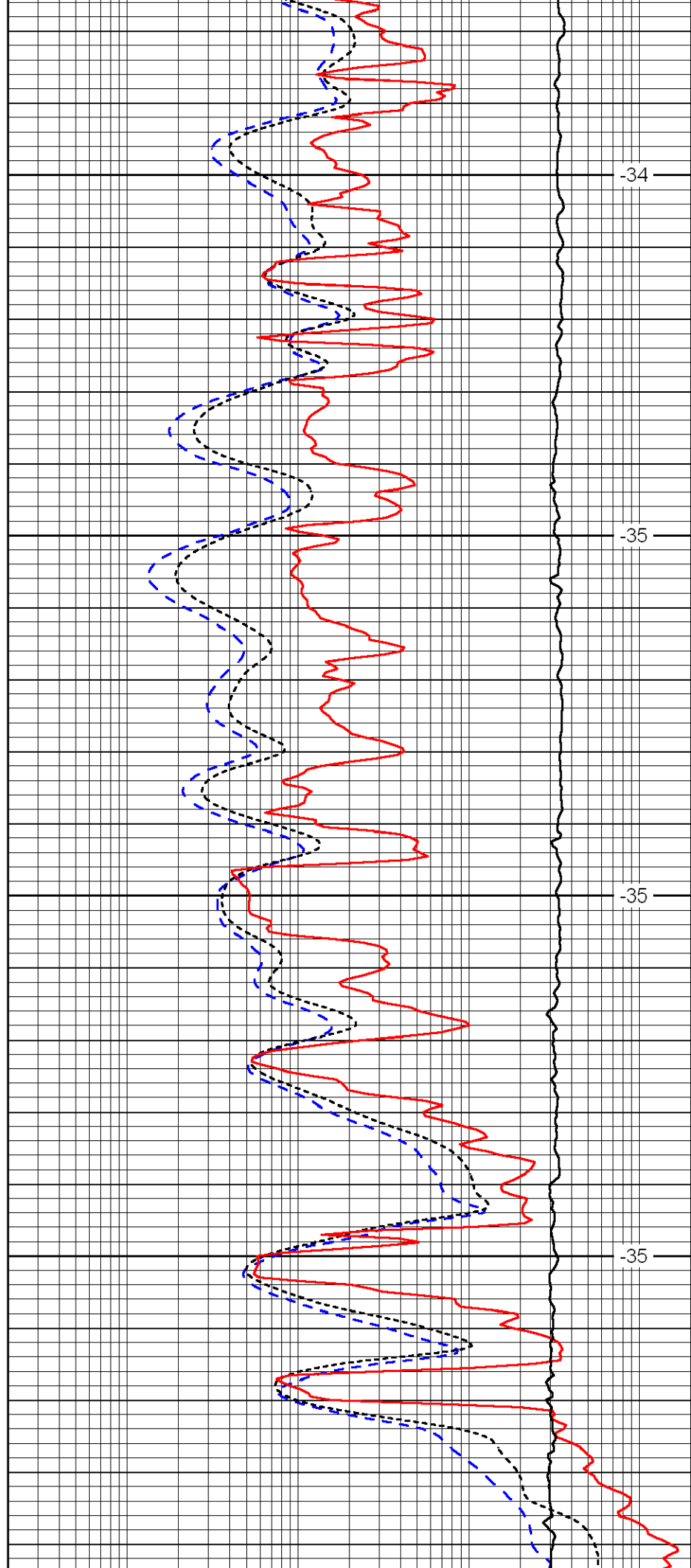


3850

3900

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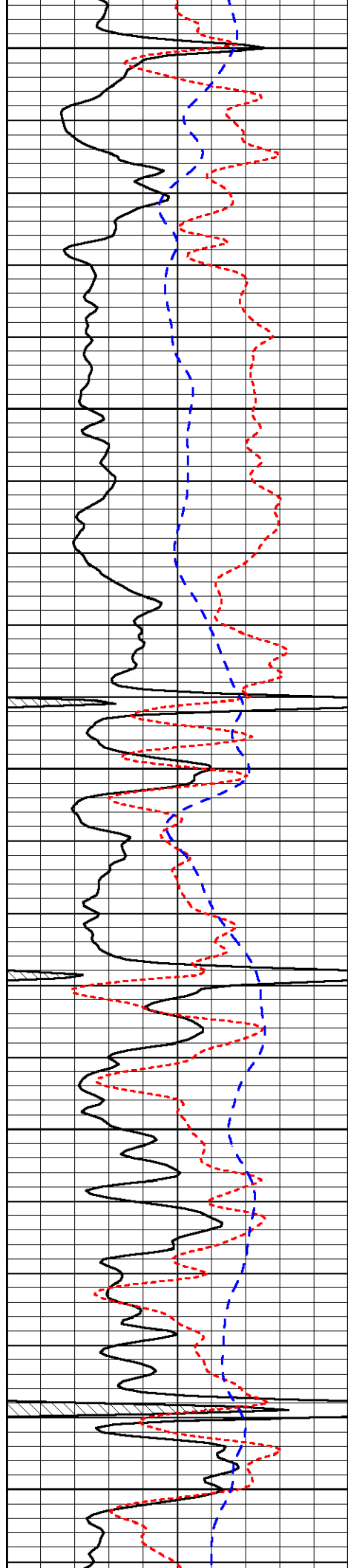


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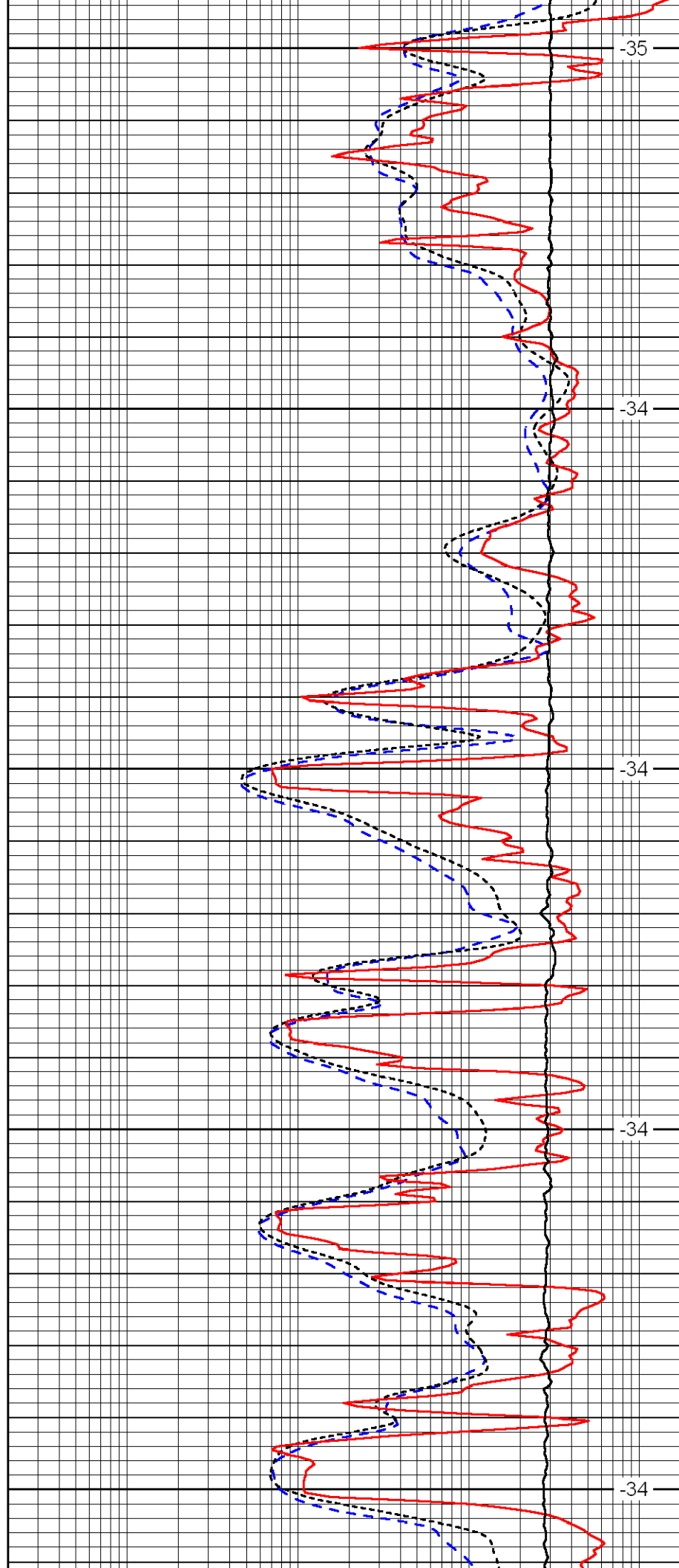
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4100

4150

4200

4250



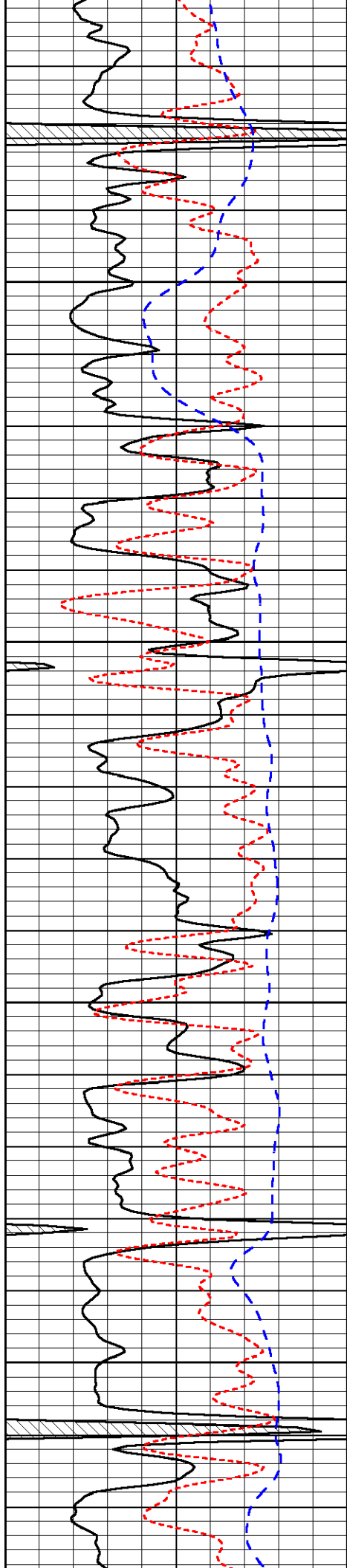
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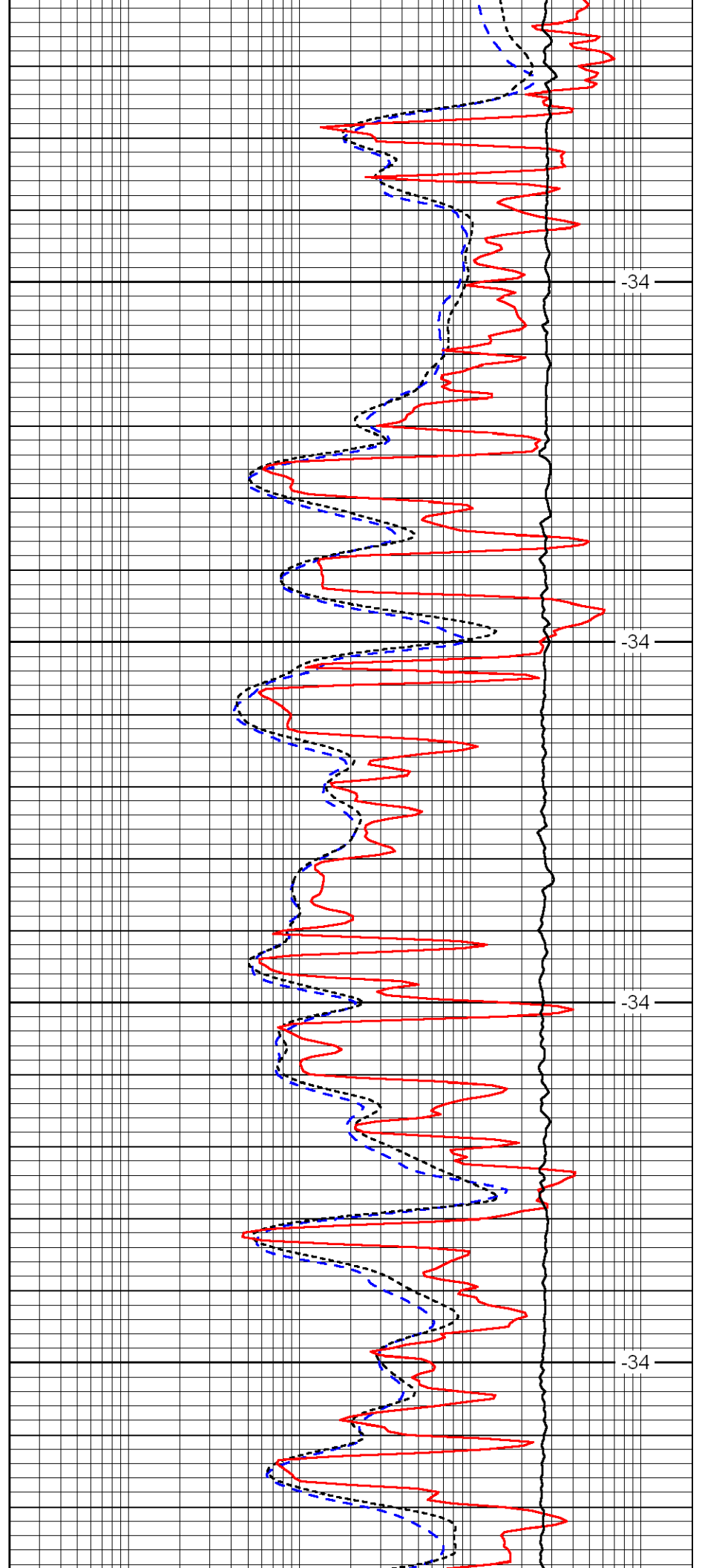


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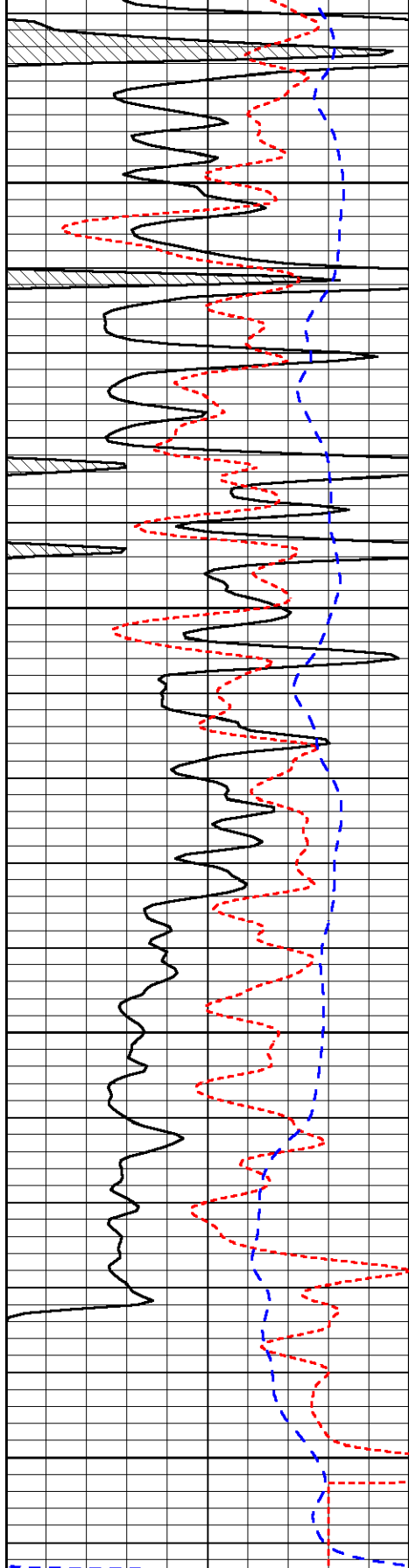


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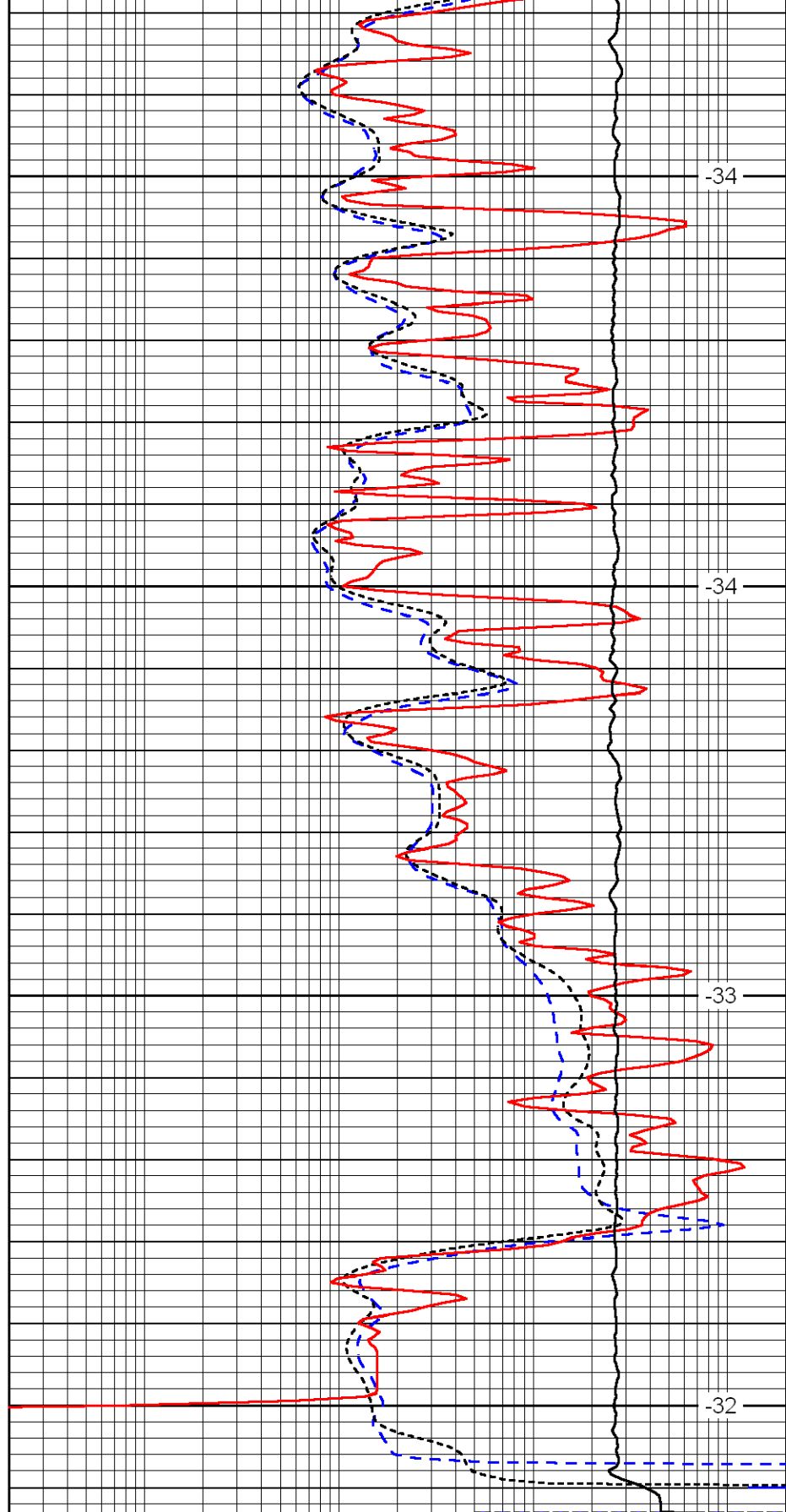
4500

4550

4600

4650

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



-34

-34

-33

-32

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-101-22344-00-00

Company Credo Petroleum Corporation
Well Riley #1-22
Field Wildcat
County Lane
State Kansas

Location 2310' FNL / 2600' FEL
Sec: 22 Twp: 17S Rge: 29W

Other Services
DIL
MEL/BHCS

Permanent Datum Ground Level Elevation 2800
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2805
D.F.
G.L. 2800

Date 2/5/2012

Run Number One

Type Log CNL / CDL

Depth Driller 4655

Depth Logger 4657

Bottom Logged Interval 4636

Top Logged Interval 3500

Type Fluid In Hole Chemical

Salinity, PPM CL 2600

Density 9.5

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	
One	12.25	00	263	8.625	23#	00	263
Two	7.875	263	TD				

<<< 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

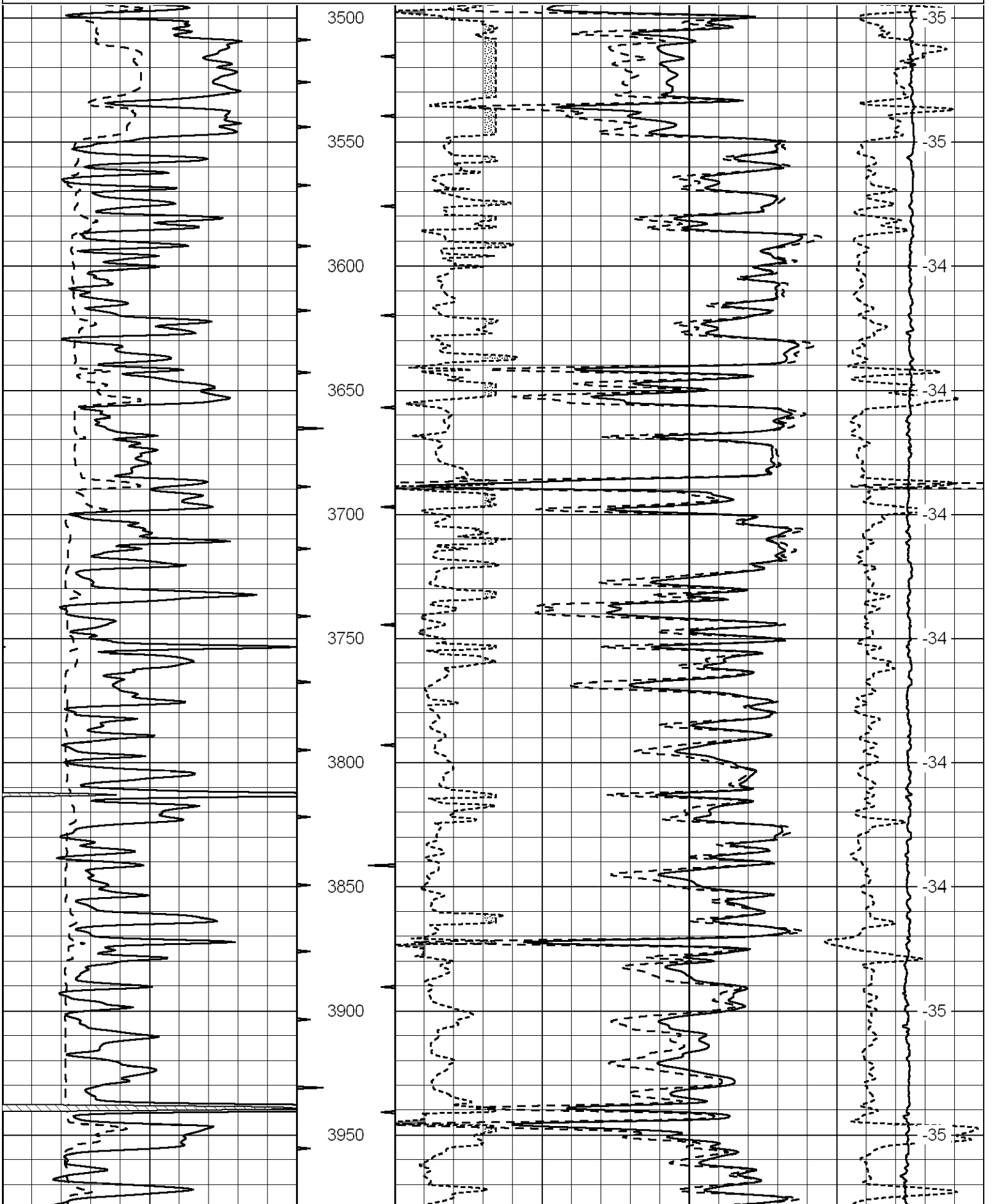
Thank you for using Log-Tech, Inc.
(785) 625-3858

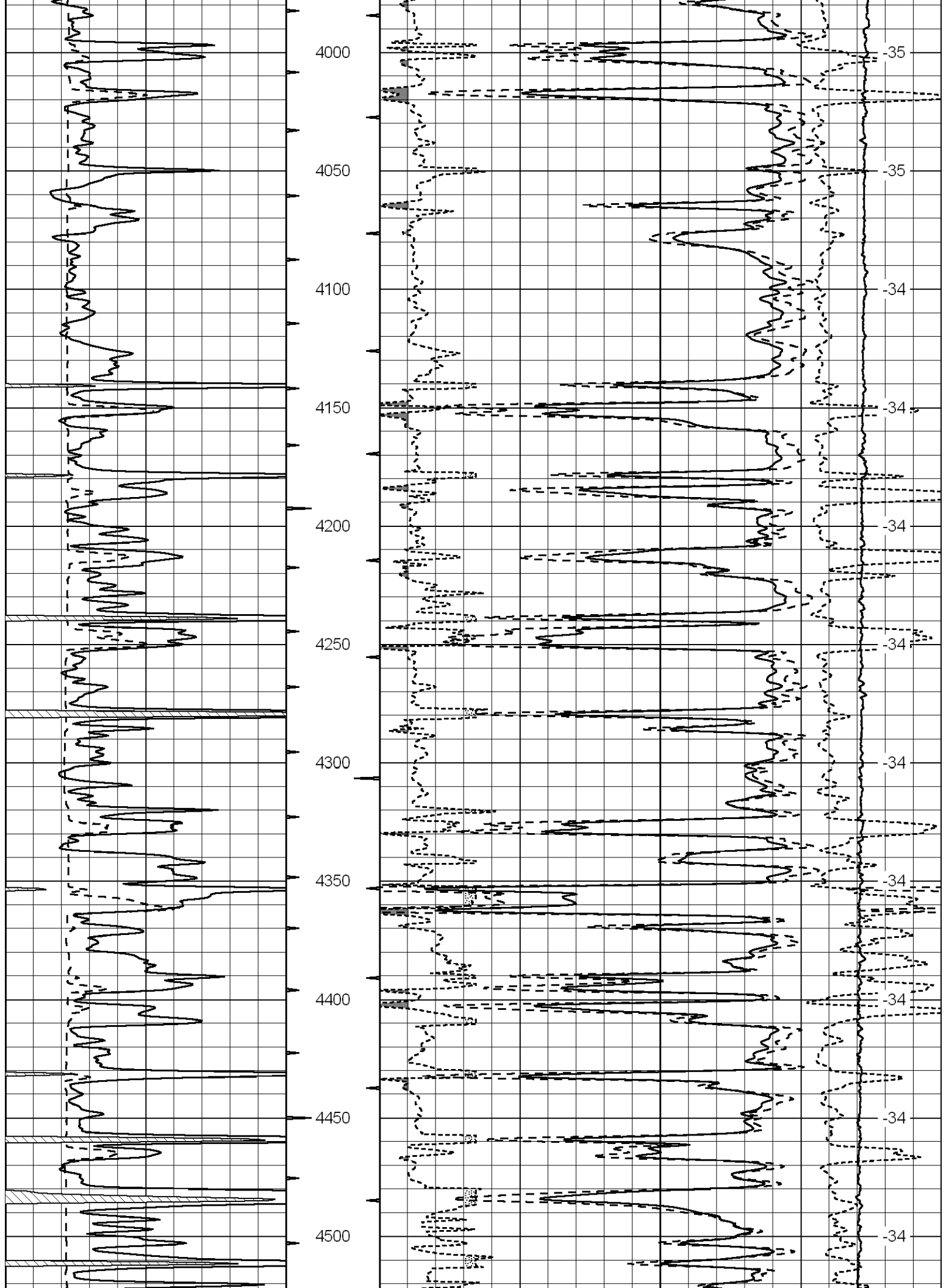
Healy, KS:
5E to Ike Rd., 3S to 210 Rd.
1/2E, S into

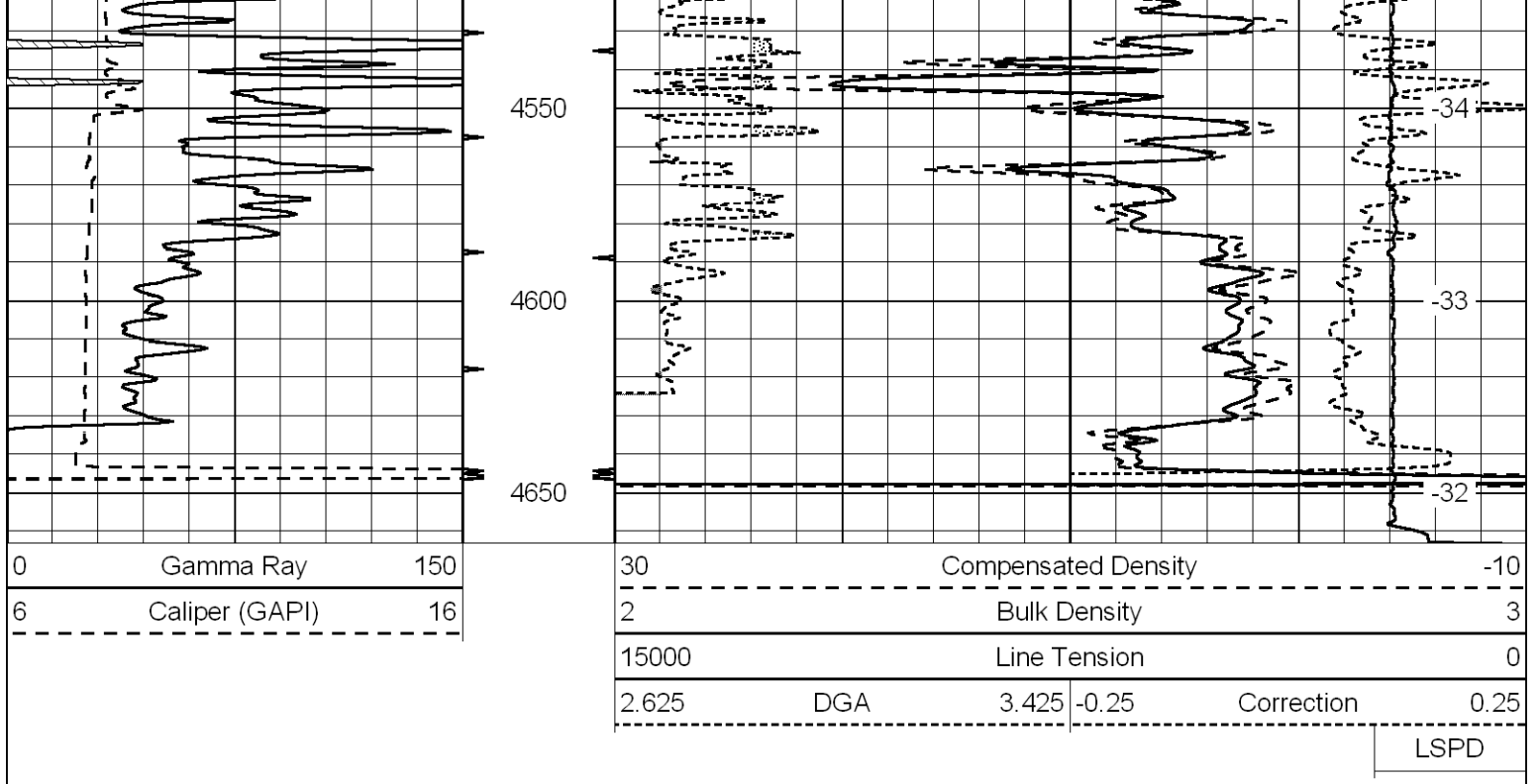
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Dataset Pathname: dil/cremain
Presentation Format: cdl
Dataset Creation: Sun Feb 05 22:52:54 2012
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

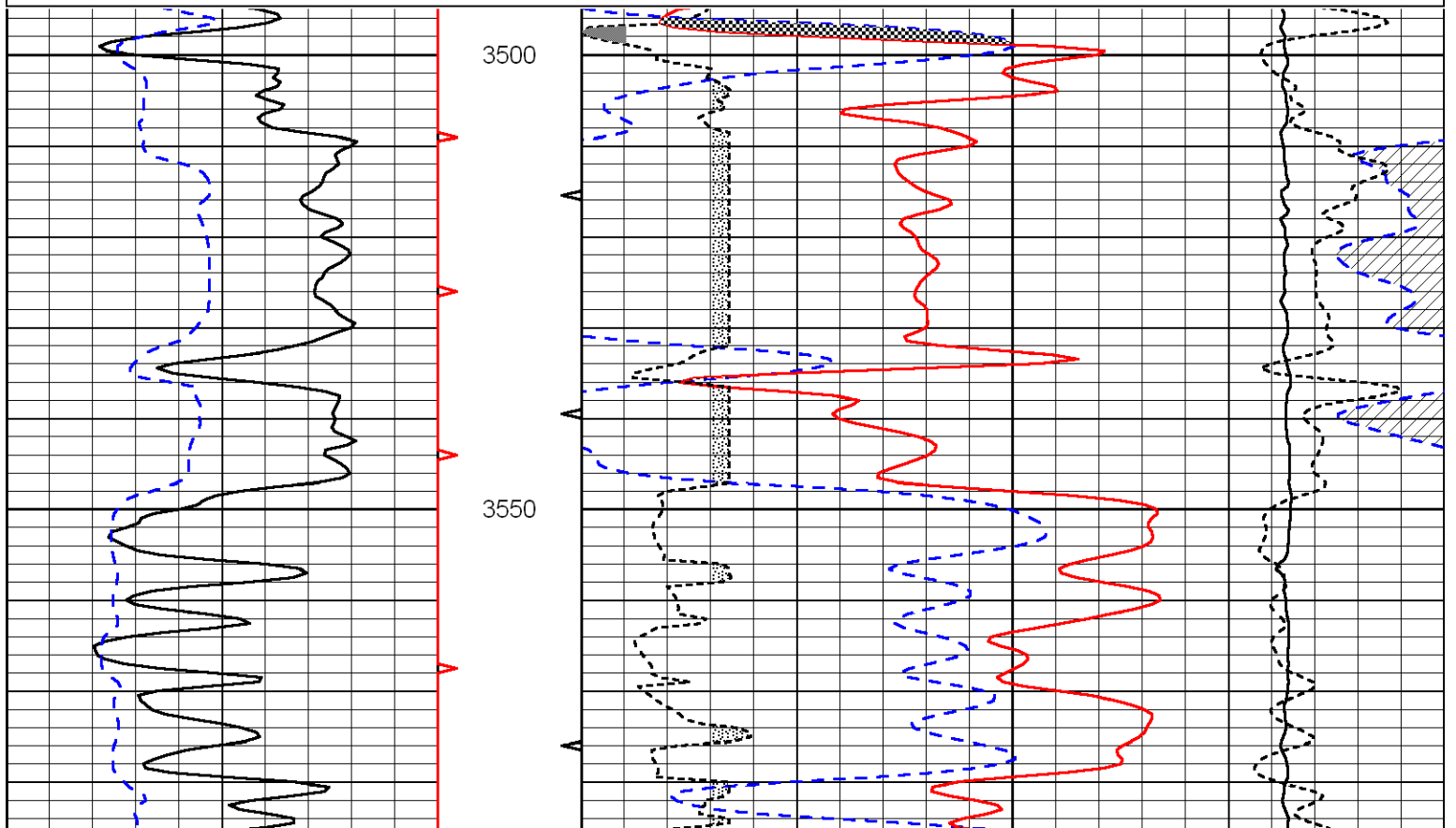
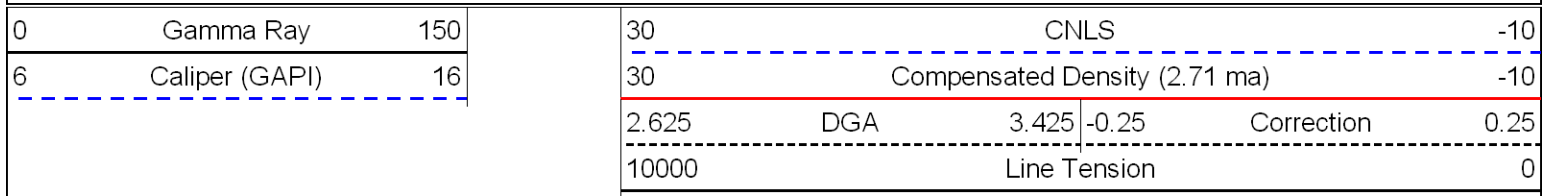
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

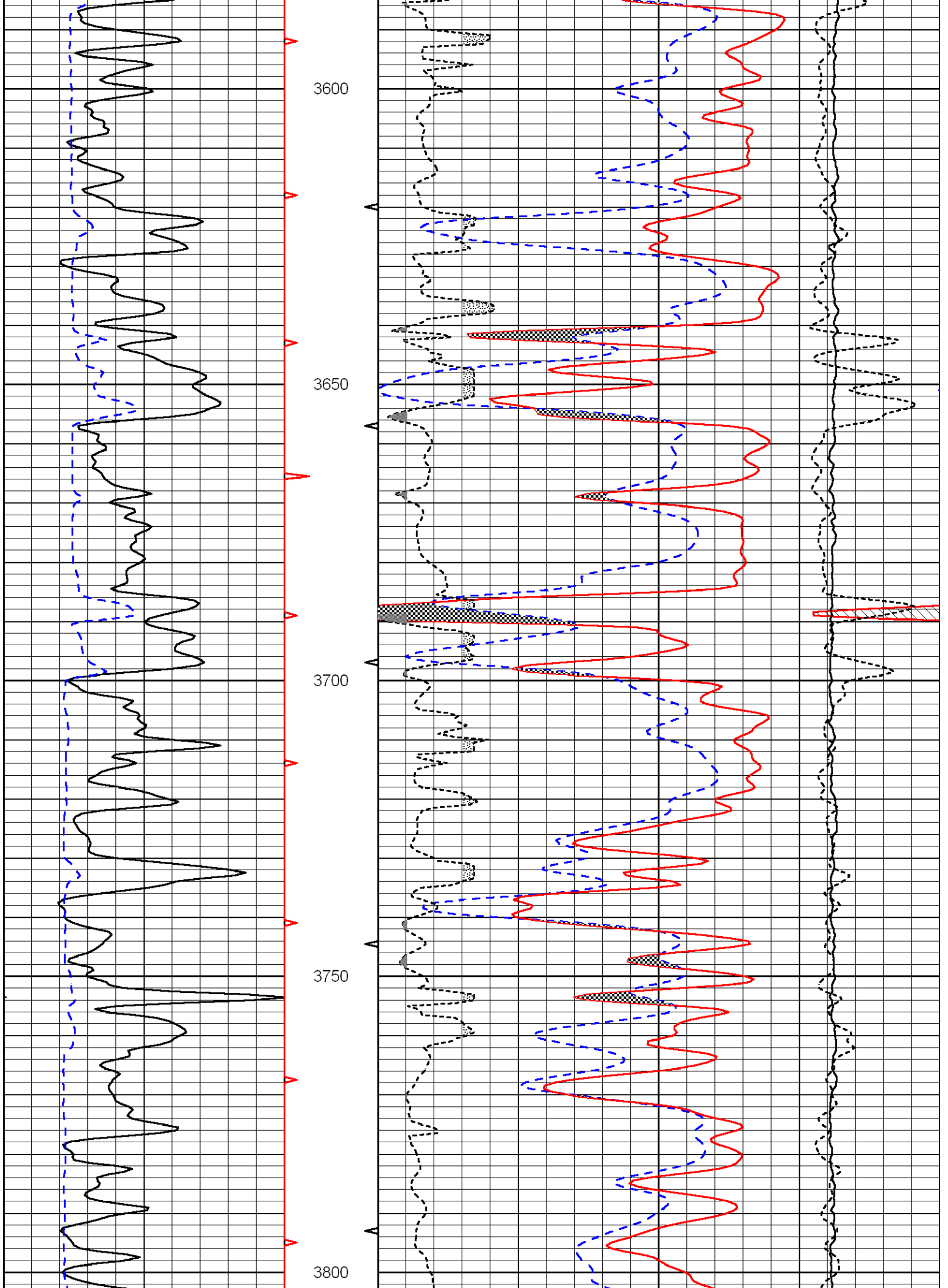


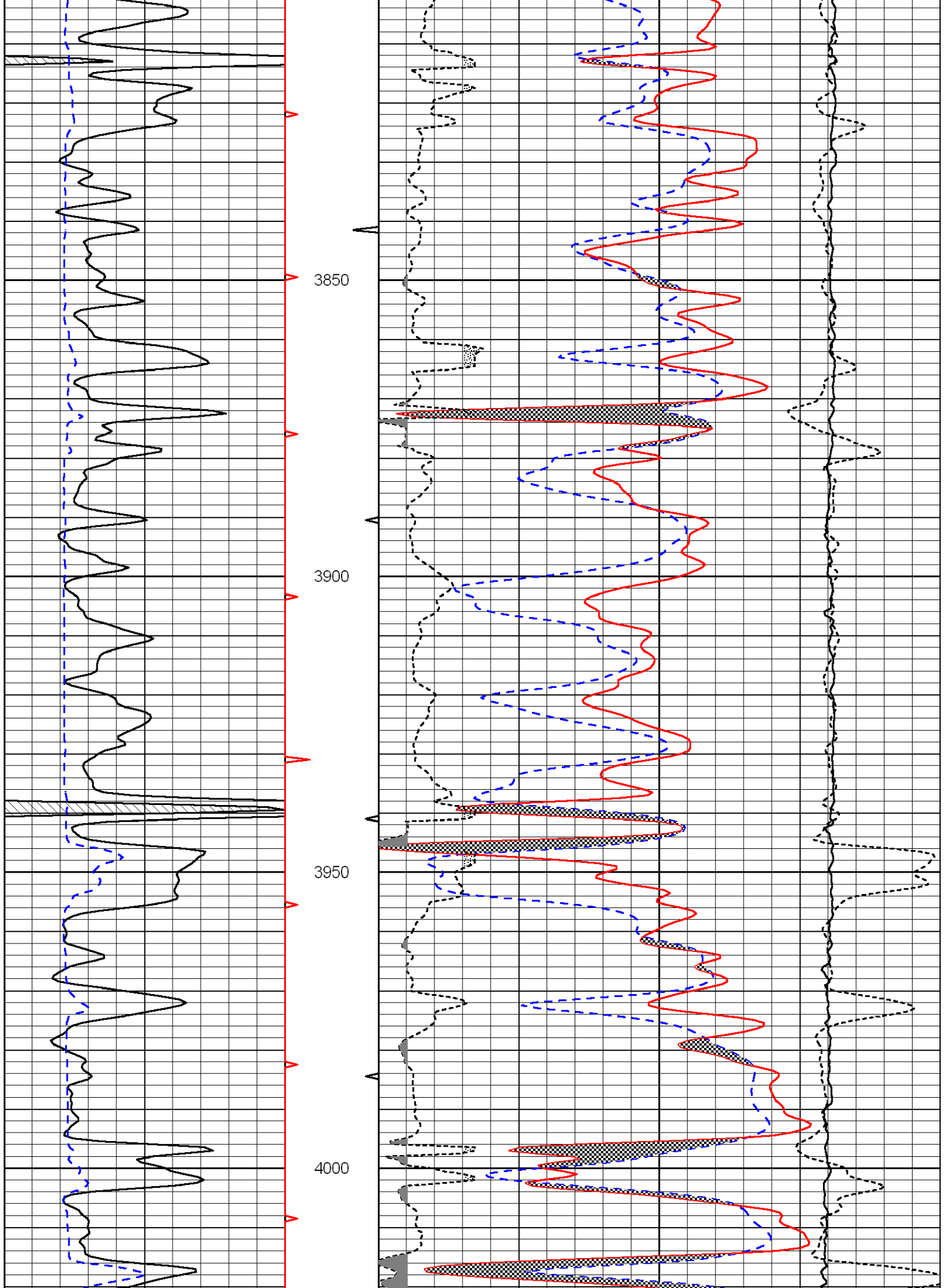


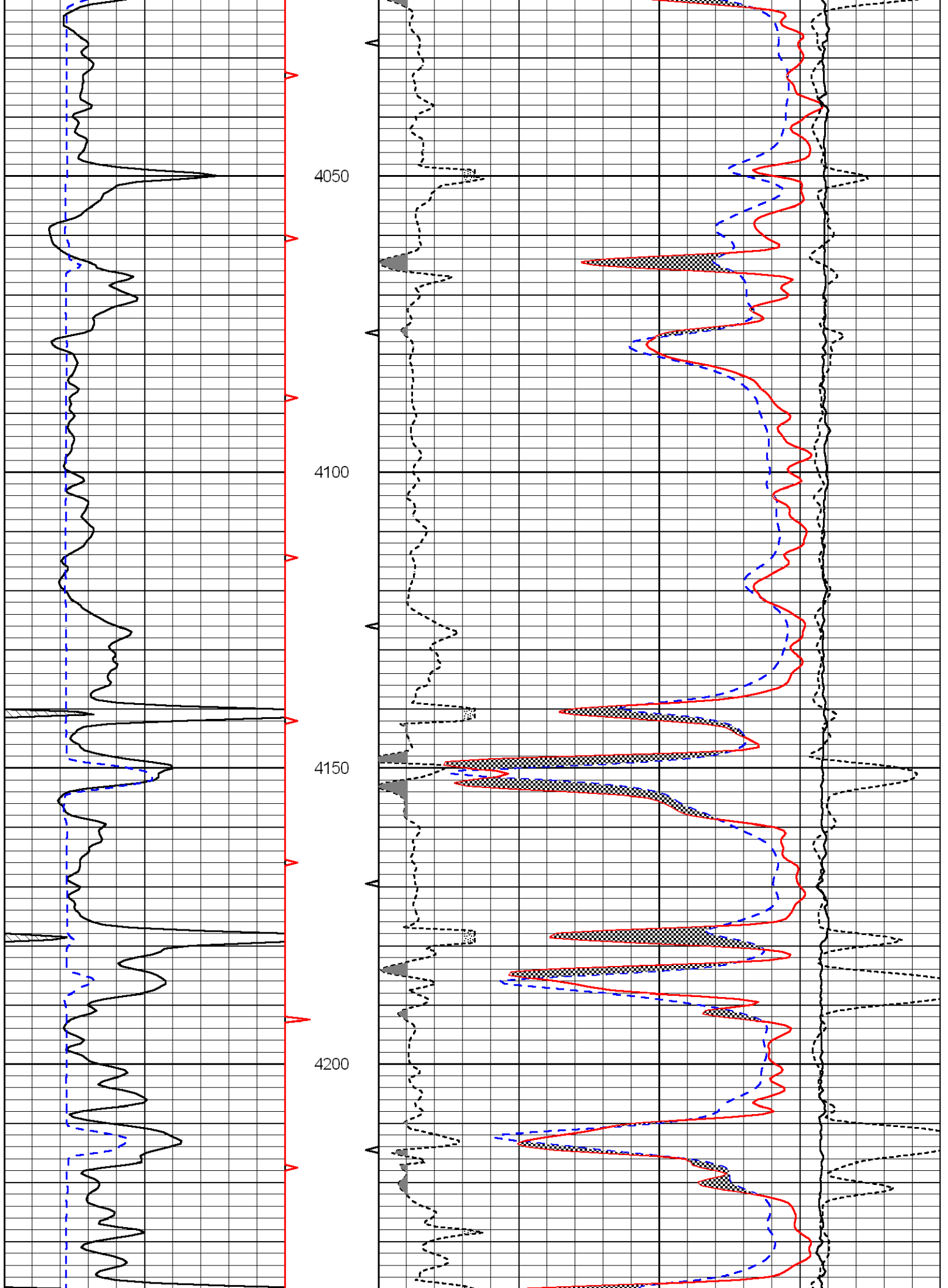


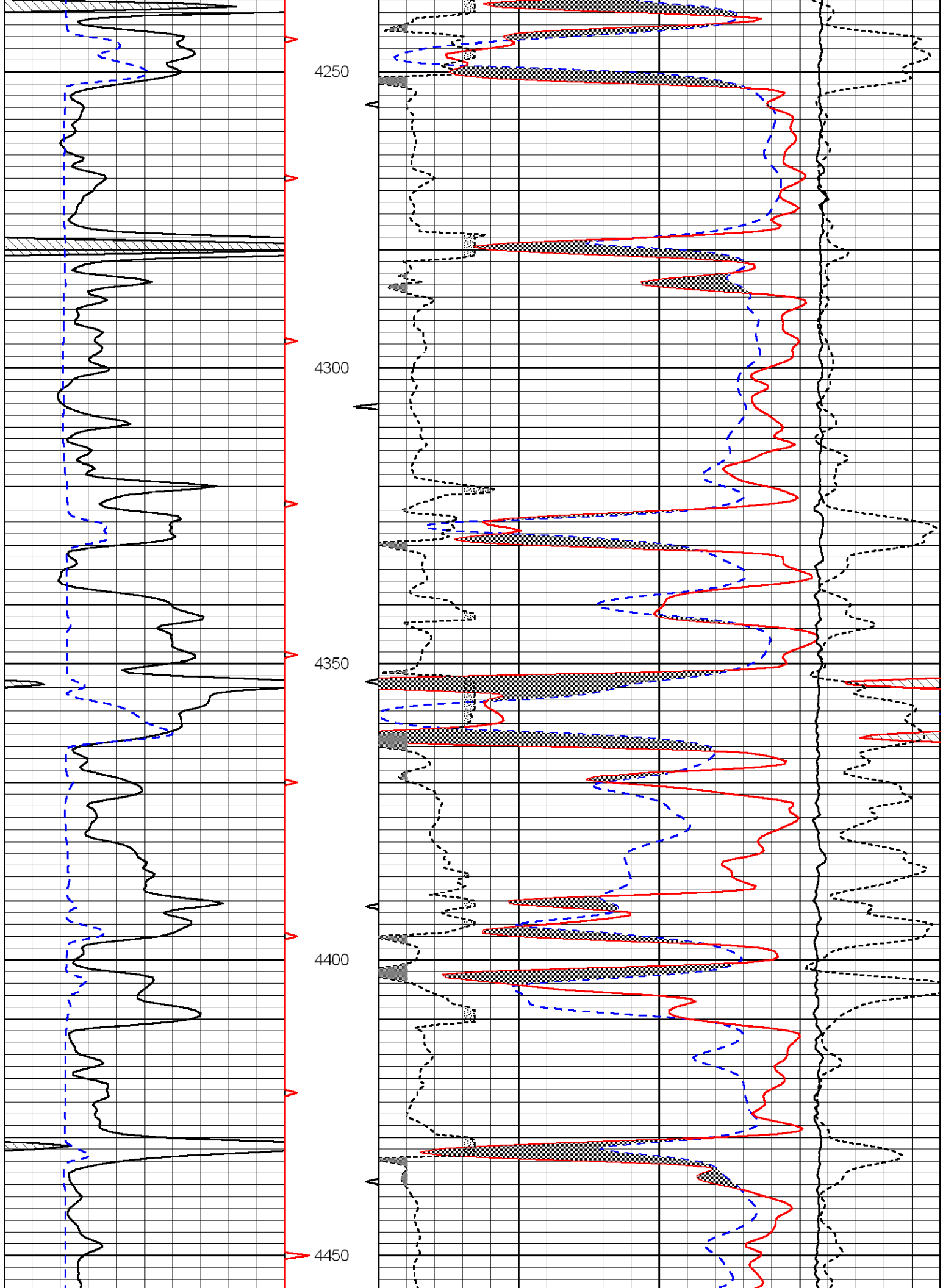
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 Dataset Pathname: dil/cremain
 Presentation Format: cndlspec
 Dataset Creation: Sun Feb 05 22:52:54 2012
 Charted by: Depth in Feet scaled 1:240

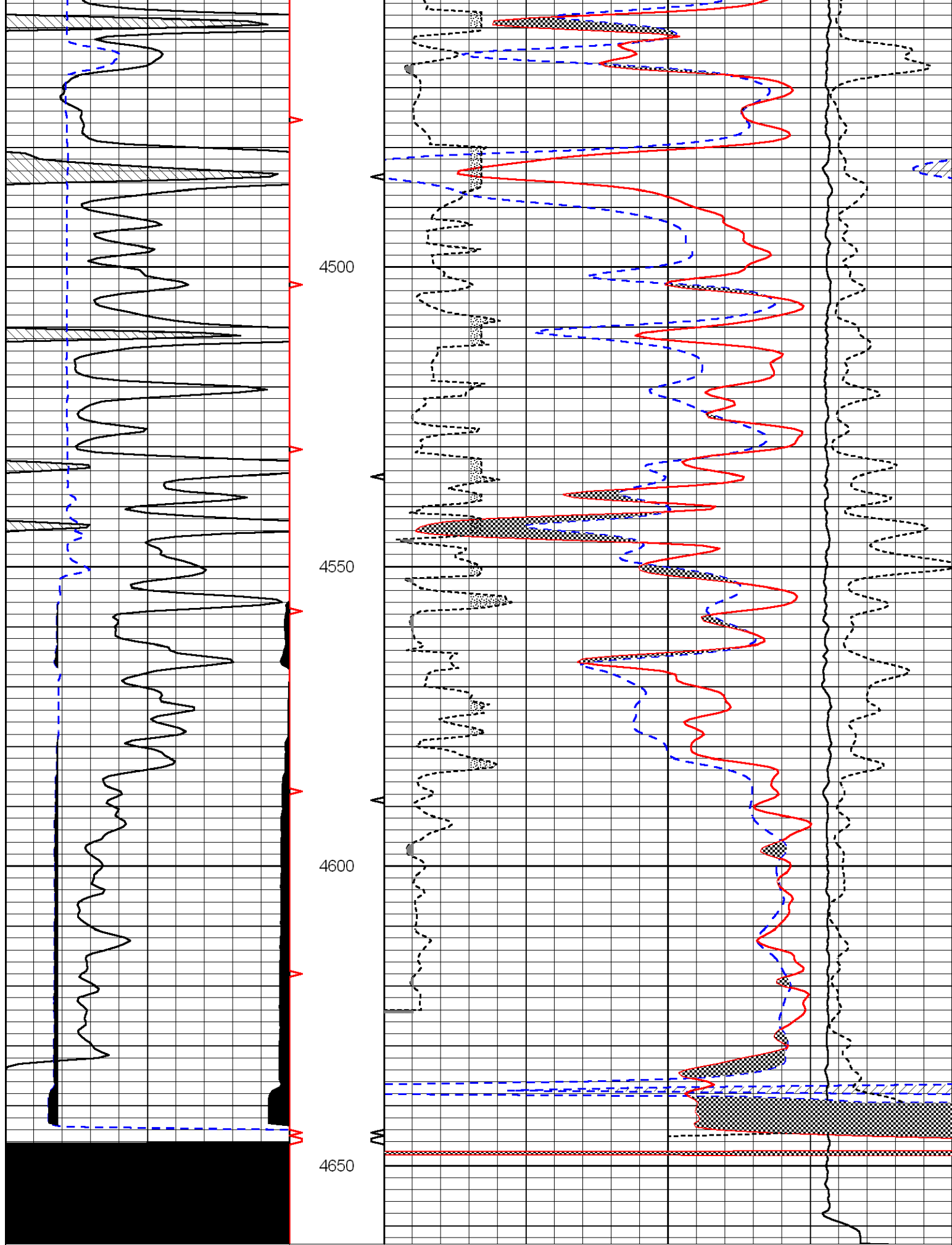












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10

2.625	DGA	3.425	-0.25	Correction	0.25
10000		Line Tension			0



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-101-22344-00-00		
Company	Credo Petroleum Corporation		
Well	Riley #1-22		
Field	Wildcat		
County	Lane	State	Kansas
Location	2310' FNL / 2600' FEL		
Sec: 22	Twp: 17S	Rge: 29W	
Permanent Datum	Ground Level	Elevation 2800	Other Services CNL/CDL DIL/BHCS
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		Elevation K.B. 2805 D.F. 2800 G.L. 2800

Date	2/5/2012
Run Number	Two
Depth Driller	4655
Depth Logger	4657
Bottom Logged Interval	4656
Top Log Interval	3500
Casing Driller	8.625 @ 263
Casing Logger	261
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2600
Density / Viscosity	9.5 48
pH / Fluid Loss	8.0 10.4
Source of Sample	Flowline
Rm @ Meas. Temp	1.20 @ 55
Rmf @ Meas. Temp	0.90 @ 55
Rmc @ Meas. Temp	1.62 @ 55
Source of Rmf / Rmc	Charts
Rm @ BHT	0.54 @ 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

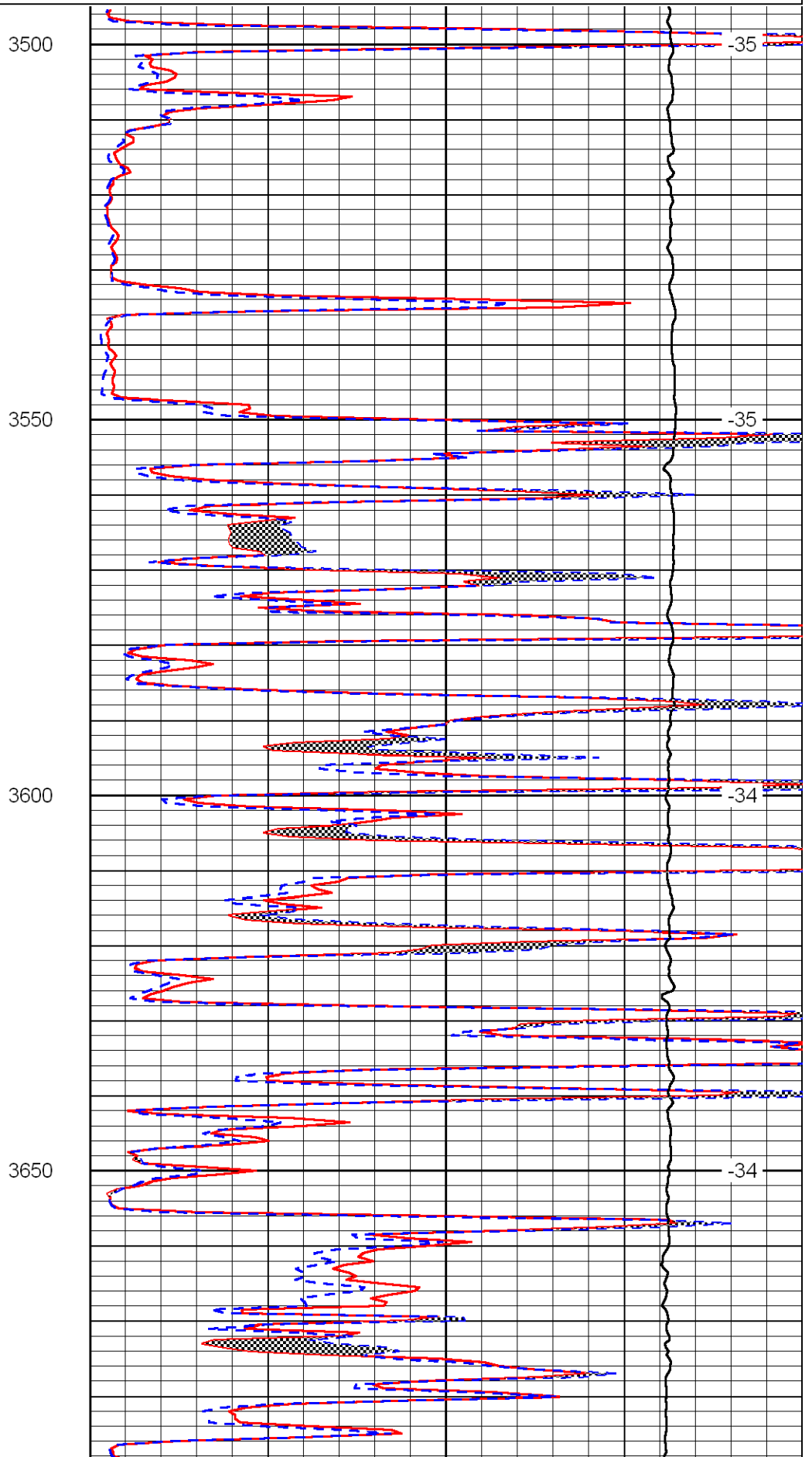
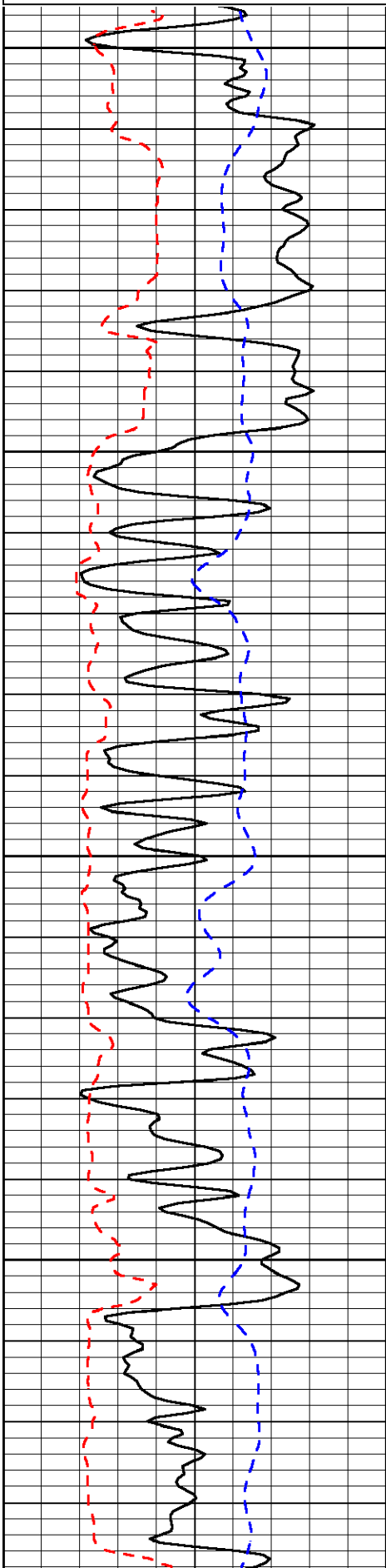
Thank you for using Log-Tech, Inc.
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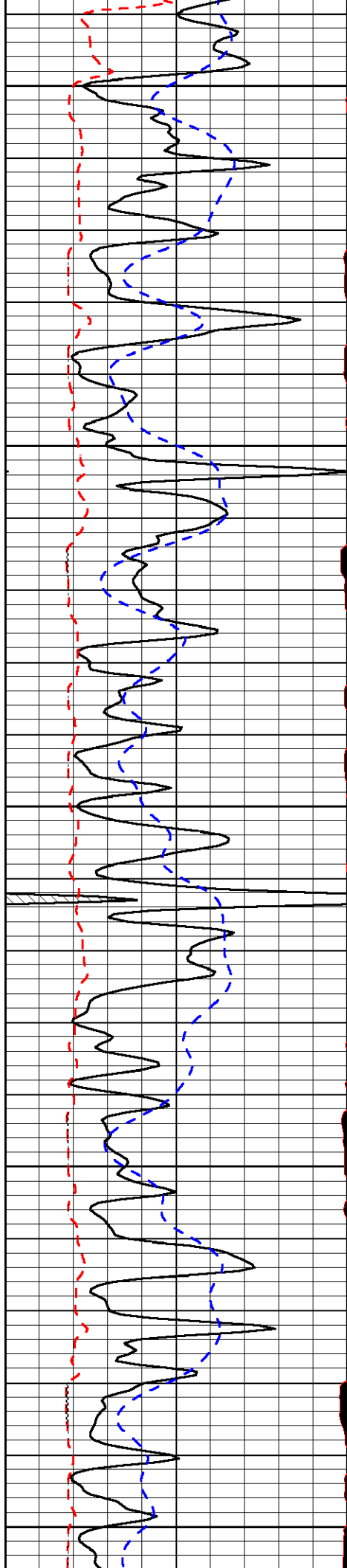
Healy, KS:
5E to Ike Rd., 3S to 210 Rd.
1/2E, S into

Database File: credohd.db
 Dataset Pathname: dil/cremain
 Presentation Format: micro
 Dataset Creation: Sun Feb 05 22:52:54 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD





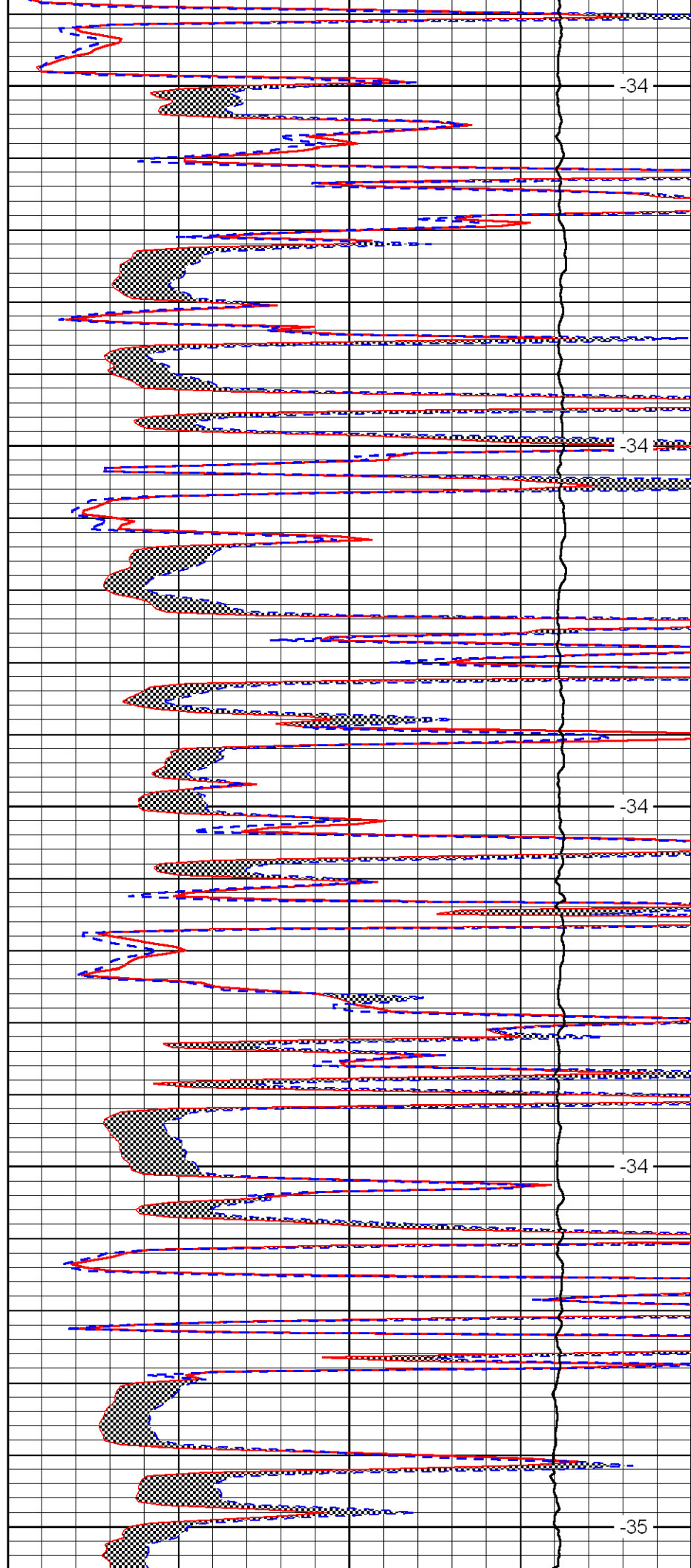
3700

3750

3800

3850

3900



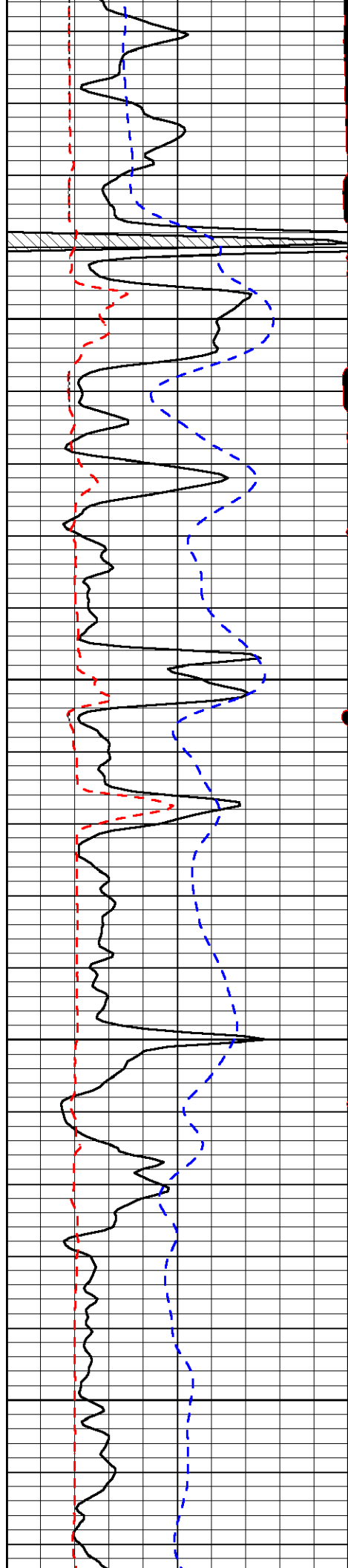
-34

-34

-34

-34

-35

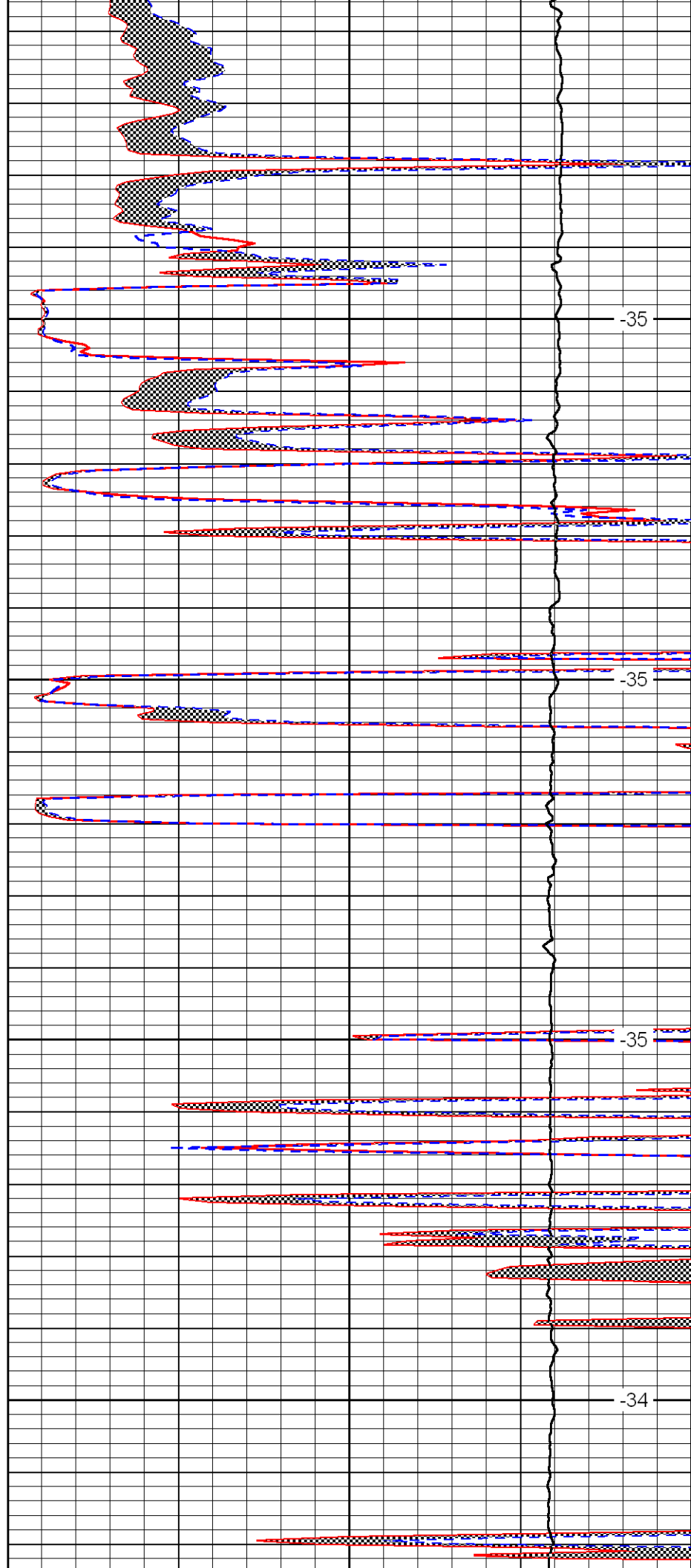


3950

4000

4050

4100

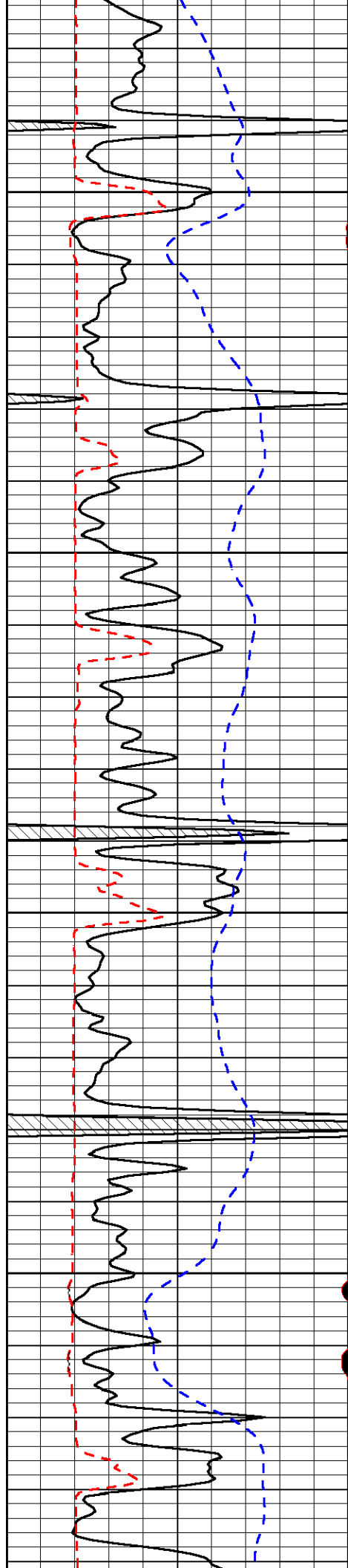


-35

-35

-35

-34

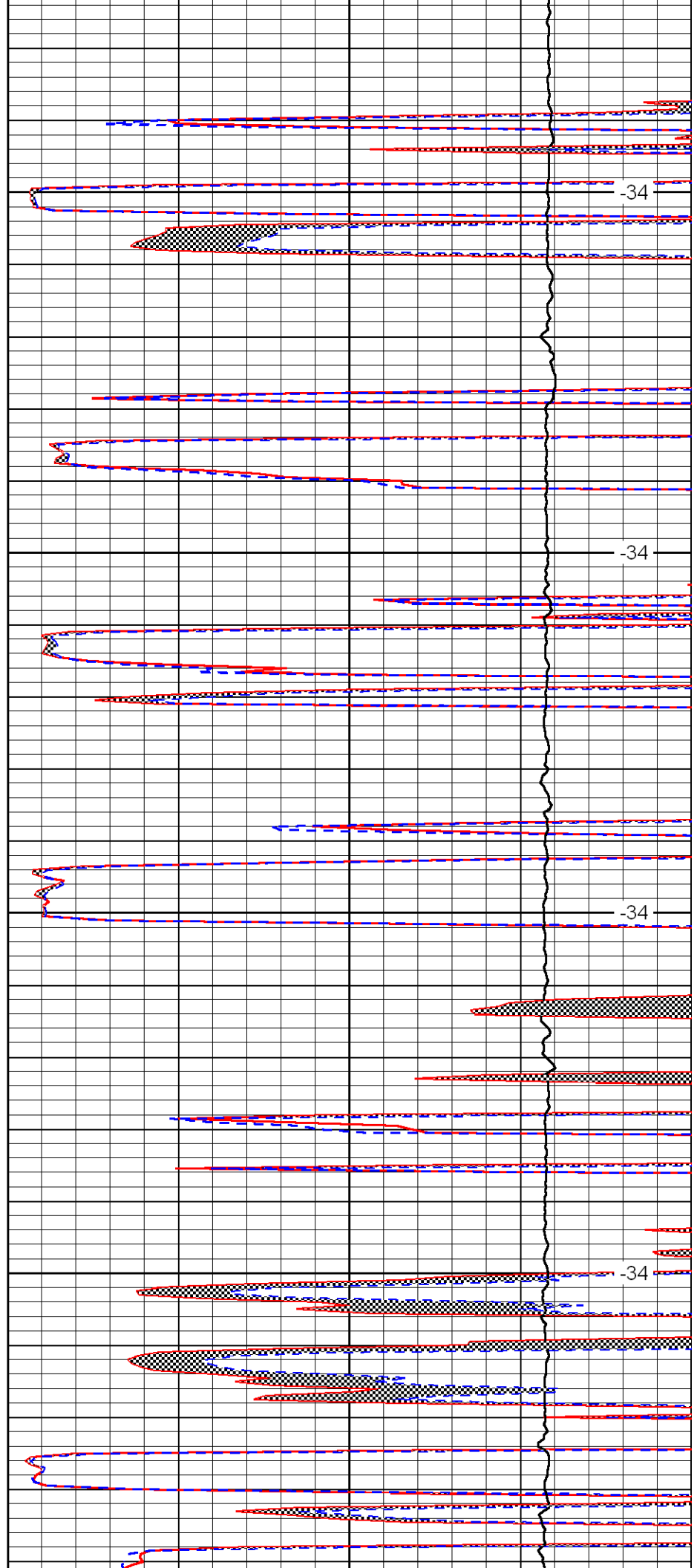


4150

4200

4250

4300

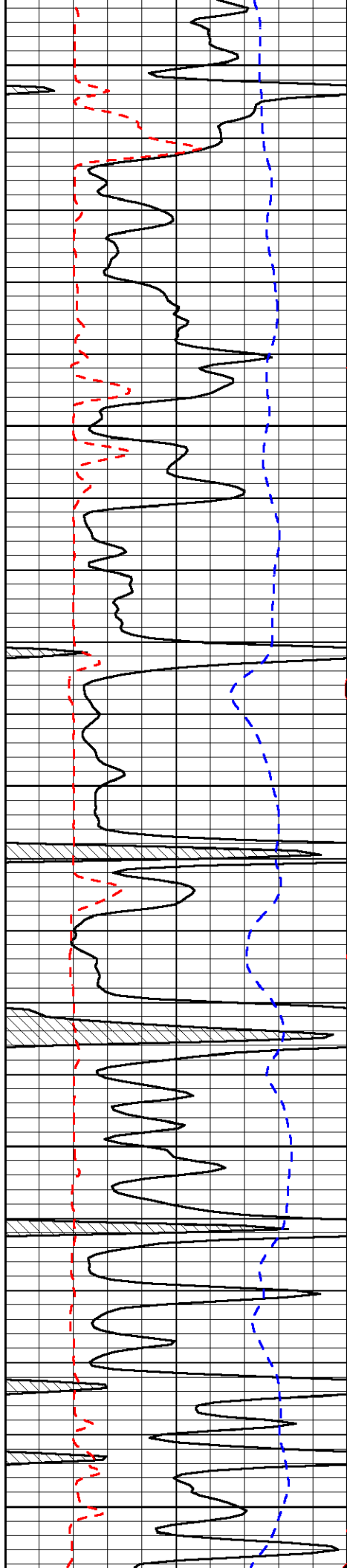


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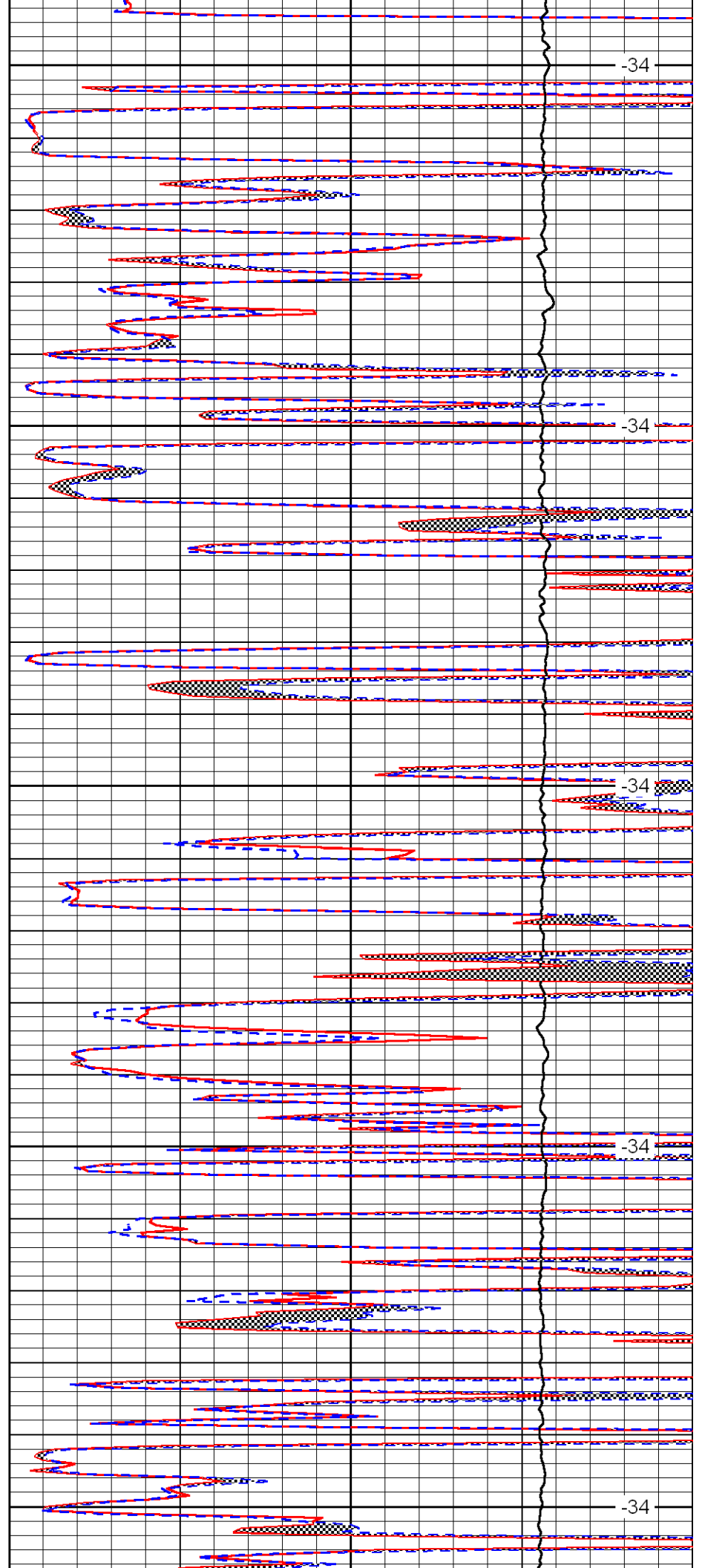
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4400

4450

4500

4550



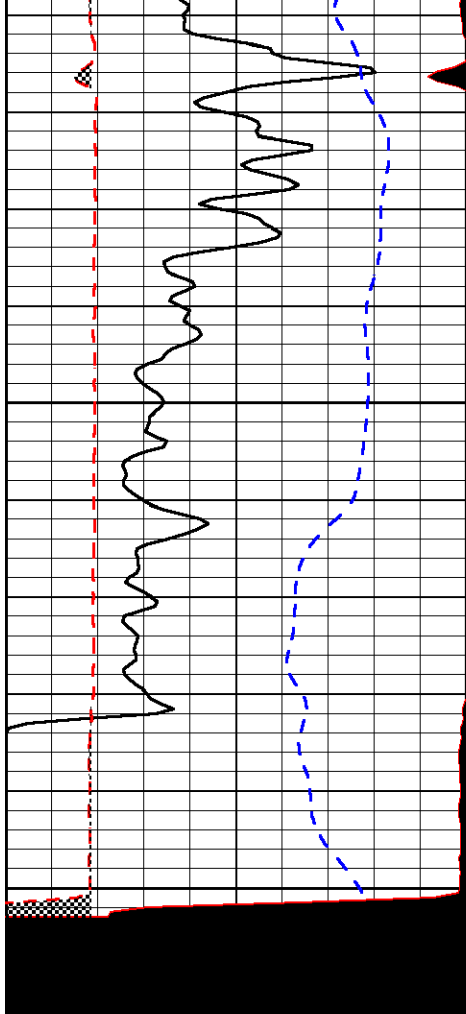
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-34-

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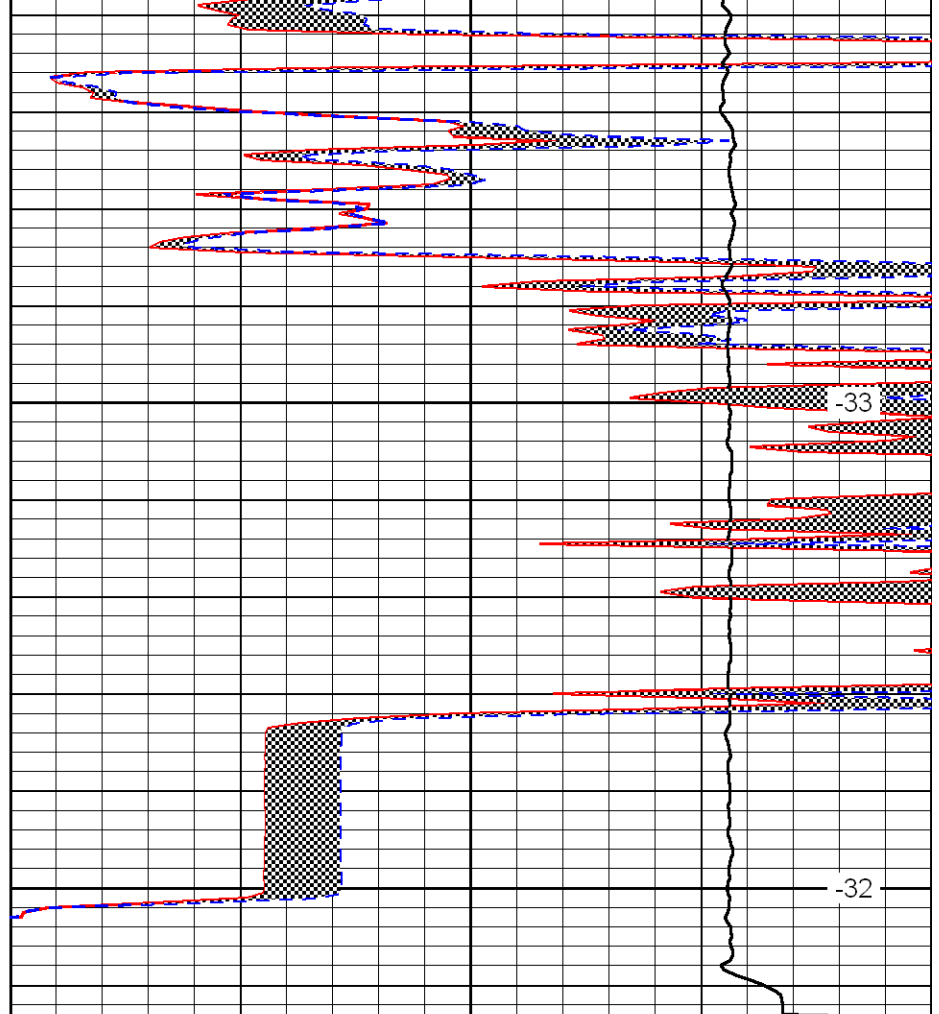
-34-



0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0

4600

4650



0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
10000	Line Weight	0
		LSPD

-33

-32

ALLIED CEMENTING CO., LLC. 035227

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oskey Bottom

DATE 2-6-12	SEC. 22	TWP. 17	RANGE 29	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE RILEY	WELL # 1-22	LOCATION Healy SE 35 1/2 E				COUNTY Lane	STATE KS
OLD OR NEW (Circle one)		s into					

CONTRACTOR *W + W 10* OWNER *same*

TYPE OF JOB *Production*

HOLE SIZE *2 7/8* T.D. *4655'*

CASING SIZE *5 1/2* DEPTH *4656'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *DV TOOL* DEPTH *2308'*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *21.15*

CEMENT LEFT IN CSG. *21.05* TOP

PERFS. *Bottom*

DISPLACEMENT *113.08* EQUIPMENT

56.77 water

56.31 mud

CEMENT

AMOUNT ORDERED *140 SKS ASC 5th Gilsonite*

106skt 28gel 500skt Lite 1/2 Flo-seal

500gel w FR-2

COMMON @

POZMIX @

GEL *3 sks* @ *21.25* ~~63.25~~

CHLORIDE @

ASC *140 SKS* @ *19.00* *2660.00*

Lite 500skt @ *14.50* *7250.00*

Gilsonite 200# @ *.89* *178.00*

S&IT 145skt @ *23.95* *335.30*

Flo-seal 250# @ *7.20* *1800.00*

WFR-2 500ggel @ *1.27* *635.00*

HANDLING *710 SKS* @ *2.25* *1552.50*

MILEAGE *118 sk/mile* @ ~~2.25~~ *248.00*

TOTAL ~~20105.55~~ *20105.55*

REMARKS:

Pump stop w FR-2 followed by 520skt Lite 140

4L wash pump and line clean Release plug

Displace 1100# LiFT 1400 Land Plug. Plot

held open DV TOOL 500#. Plug Ref hole

30 sks mix 420 SKS down shearsing

Wash pump and line clean Release plug

Displace 650# LiFT Land plug

1400# TOOL closed Cement circulated

To cellar but fell back.

Thank you

CHARGE TO: *Credo Petrolex corp*

STREET

CITY STATE ZIP

TOTAL *3485.00*

PLUG & FLOAT EQUIPMENT

5 1/2

1 Affy Guide shoe @ *349.00*

1 Land down plug Assy @ *277.00*

3 Baskets @ *332.00* *1011.00*

7 Centralizers @ *49.00* *343.00*

1 DV TOOL @ *3721.00*

TOTAL *5721.00*

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.

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME *Justin Harlin*

SIGNATURE *Justin Harlin*