



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1078020
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: _____

1078020

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

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

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

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

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

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	MARY 1-22
Doc ID	1078020

All Electric Logs Run

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

April 04, 2012

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

Re: ACO1
API 15-193-20842-00-00
MARY 1-22
SW/4 Sec.22-10S-35W
Thomas 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

Mary #1-22

22-10s-35w Thomas KS

Start Date: 2012.03.07 @ 13:25:00

End Date: 2012.03.07 @ 20:06:15

Job Ticket #: 44512 DST #: 1

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

Printed: 2012.03.14 @ 16:00:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

22-10s-35w Thomas KS

Mary #1-22

Job Ticket: 44512

DST#: 1

Test Start: 2012.03.07 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:59:15

Time Test Ended: 20:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4245.00 ft (KB) To 4280.00 ft (KB) (TVD)

Total Depth: 4280.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3284.00 ft (KB)

3279.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 162.43 psig @ 4247.00 ft (KB)

Start Date: 2012.03.07

End Date:

2012.03.07

Start Time: 13:25:05

End Time:

20:06:14

Capacity: 8000.00 psig

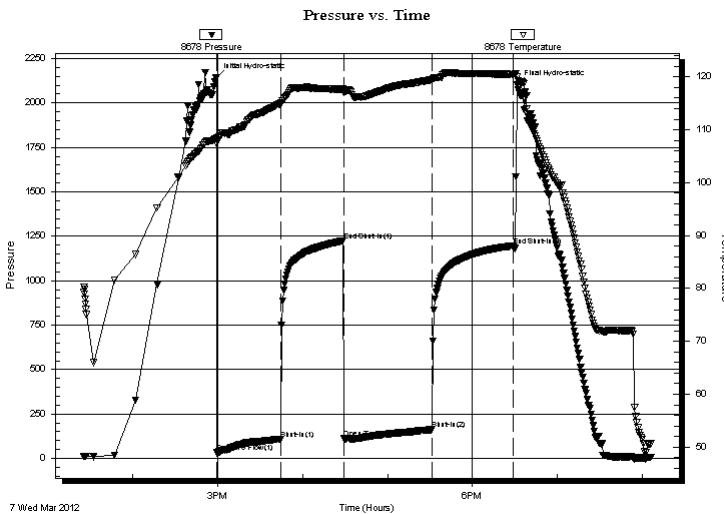
Last Calib.: 2012.03.07

Time On Btm: 2012.03.07 @ 14:59:00

Time Off Btm: 2012.03.07 @ 18:31:30

TEST COMMENT: IF: 6" blow.
IS: No return.
FF: 5 1/2" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.95	108.49	Initial Hydro-static
1	32.48	107.42	Open To Flow (1)
46	107.69	114.83	Shut-In(1)
90	1224.18	117.67	End Shut-In(1)
90	112.17	117.06	Open To Flow (2)
153	162.43	119.51	Shut-In(2)
210	1196.57	120.47	End Shut-In(2)
213	2104.39	119.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	mcw 20m 80w	2.06

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44512

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.03.07 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:59:15

Time Test Ended: 20:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4245.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4247.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.07

End Date:

2012.03.07

Last Calib.:

2012.03.07

Start Time: 13:24:50

End Time:

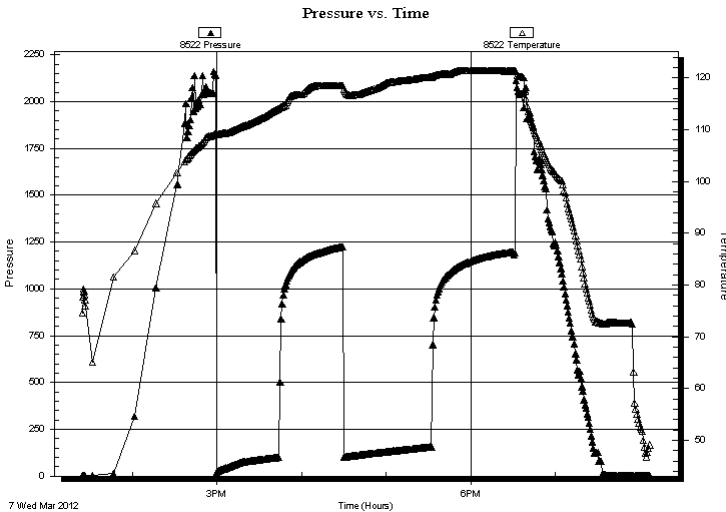
20:06:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 6" blow .
IS: No return.
FF: 5 1/2" blow .
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
270.00	mcw 20m 80w	2.06

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44512

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.03.07 @ 13:25:00

Tool Information

Drill Pipe:	Length: 4107.00 ft	Diameter: 3.20 inches	Volume: 40.85 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 41.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4245.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4219.00	
Shut In Tool	5.00			4224.00	
Hydraulic tool	5.00			4229.00	
Jars	5.00			4234.00	
Safety Joint	2.00			4236.00	
Packer	5.00			4241.00	27.00 Bottom Of Top Packer
Packer	4.00			4245.00	
Stubb	1.00			4246.00	
Perforations	1.00			4247.00	
Recorder	0.00	8678	Inside	4247.00	
Recorder	0.00	8522	Inside	4247.00	
Perforations	30.00			4277.00	
Bullnose	3.00			4280.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44512

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.03.07 @ 13:25:00

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:

61000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.54 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	mcw 20m 80w	2.062

Total Length: 270.00 ft Total Volume: 2.062 bbl

Num Fluid Samples: 0

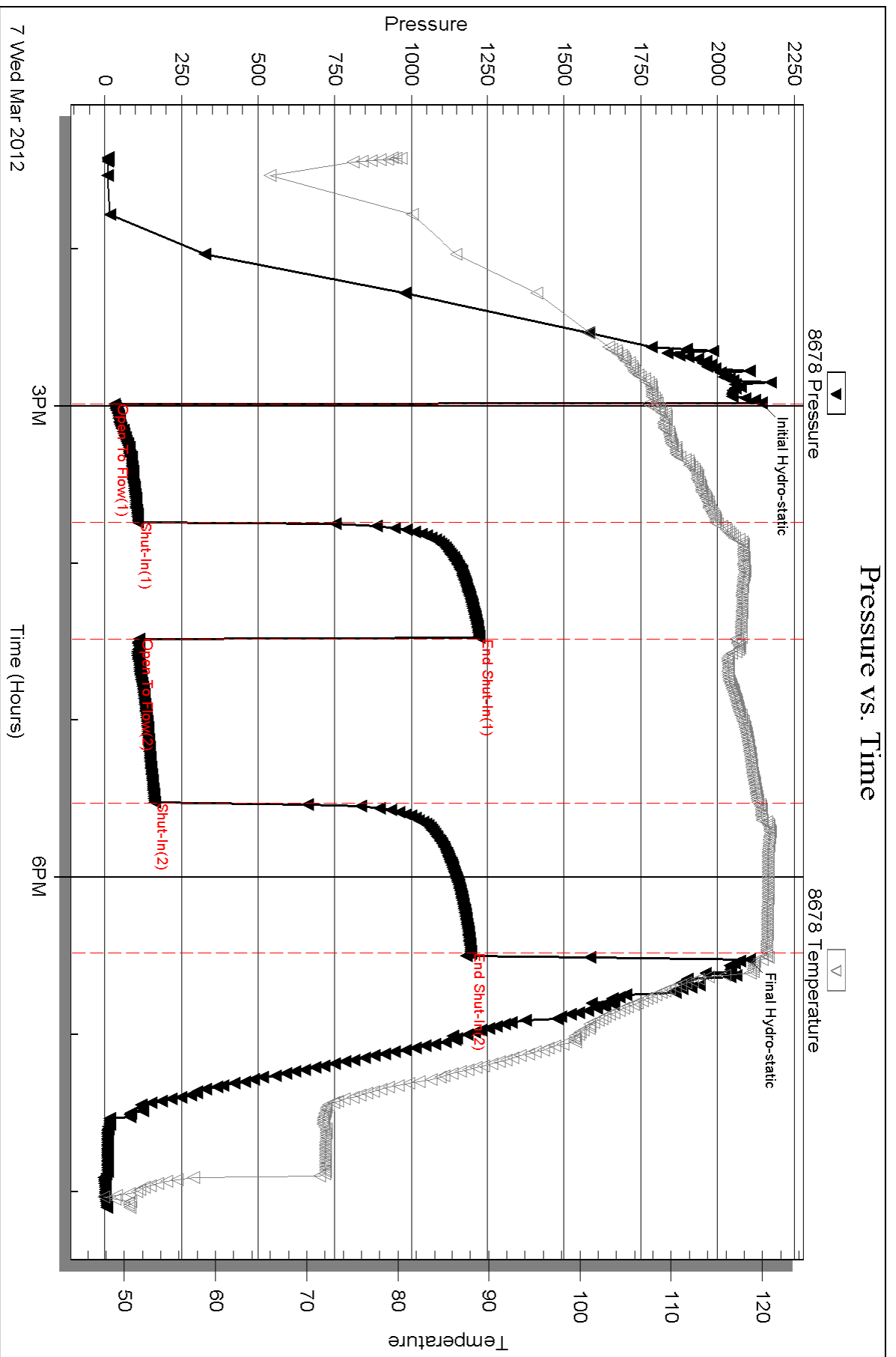
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .180 @ 51F=61000ppm



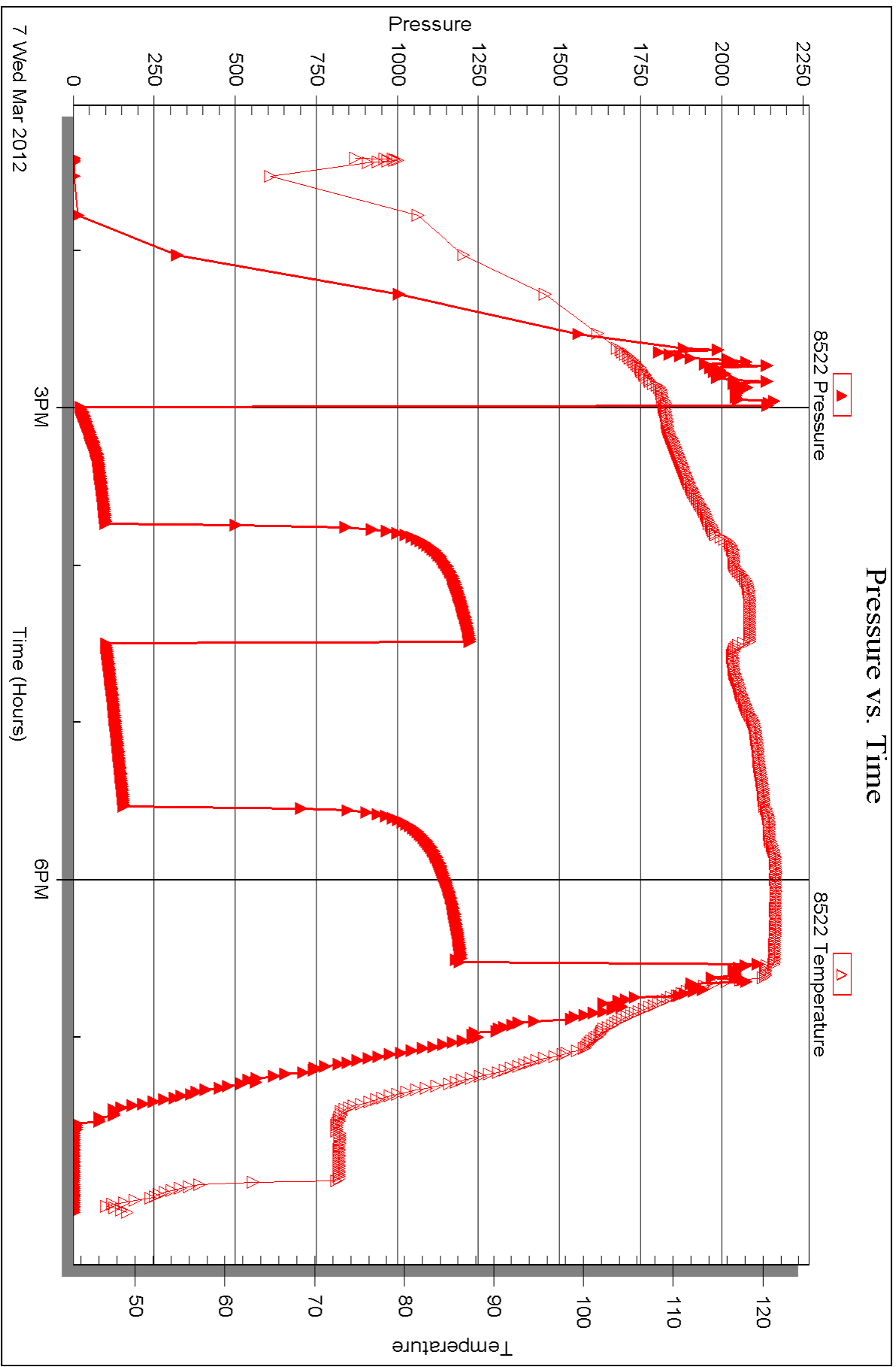
Serial #: 8522

Inside

Crede Petroleum Corp.

May #1-22

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 44512

Printed: 2012.03.14 @ 16:01:01



DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

Mary #1-22

22-10s-35w Thomas KS

Start Date: 2012.03.08 @ 12:24:00

End Date: 2012.03.08 @ 16:16:15

Job Ticket #: 44513 DST #: 2

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

Printed: 2012.03.14 @ 15:59:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44513

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 12:24:00

GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:15

Time Test Ended: 16:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4406.00 ft (KB) To 4440.00 ft (KB) (TVD)

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 37.16 psig @ 4408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.08

End Date:

2012.03.08

Last Calib.:

2012.03.08

Start Time:

12:24:05

End Time:

16:16:15

Time On Btm:

2012.03.08 @ 14:08:00

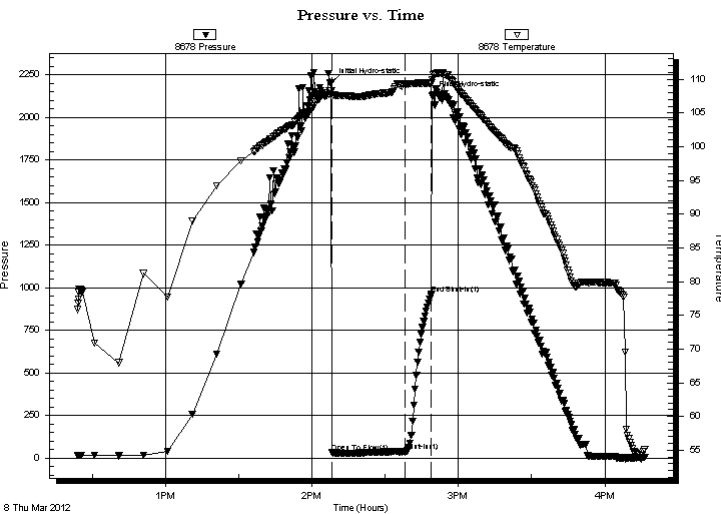
Time Off Btm:

2012.03.08 @ 14:49:15

TEST COMMENT: IF: Surface blow, Died @ 25 min.

IS: No return.

- Pulled test.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.50	108.34	Initial Hydro-static
1	32.35	107.35	Open To Flow (1)
31	37.16	109.28	Shut-In(1)
41	961.12	109.41	End Shut-In(1)
42	2126.25	109.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m (Oil spots)	0.05
0.00	oil puddle on top	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.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

ATTN: Bruce Ard

Job Ticket: 44513

DST#: 2

Test Start: 2012.03.08 @ 12:24:00

GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:15

Time Test Ended: 16:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4406.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4408.00 ft (KB)

Start Date: 2012.03.08

End Date: 2012.03.08

Capacity: 8000.00 psig

Last Calib.: 2012.03.08

Start Time: 12:23:50

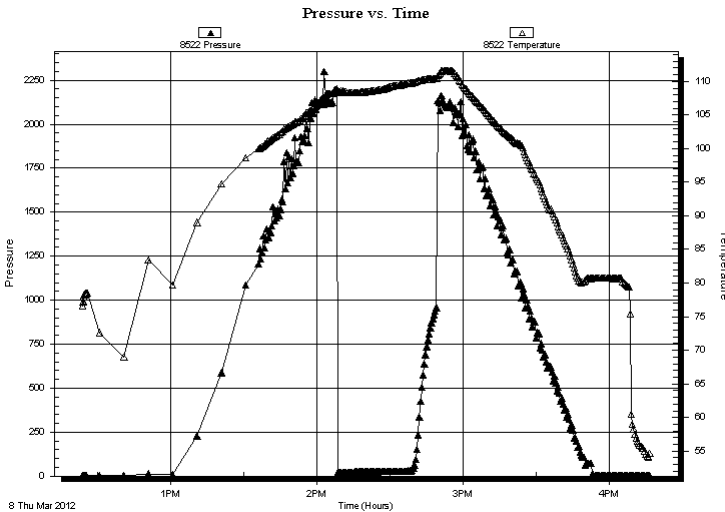
End Time: 16:16:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow , Died @ 25 min.
IS: No return.
- Pulled test.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m (Oil spots)	0.05
0.00	oil puddle on top	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.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44513

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 12:24:00

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.20 inches	Volume: 42.43 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4406.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			4380.00	
Shut In Tool	5.00			4385.00	
Hydraulic tool	5.00			4390.00	
Jars	5.00			4395.00	
Safety Joint	2.00			4397.00	
Packer	5.00			4402.00	27.00 Bottom Of Top Packer
Packer	4.00			4406.00	
Stubb	1.00			4407.00	
Perforations	1.00			4408.00	
Recorder	0.00	8678	Inside	4408.00	
Recorder	0.00	8522	Inside	4408.00	
Perforations	29.00			4437.00	
Bullnose	3.00			4440.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44513

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 12:24:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	mud 100m (Oil spots)	0.049
0.00	oil puddle on top	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

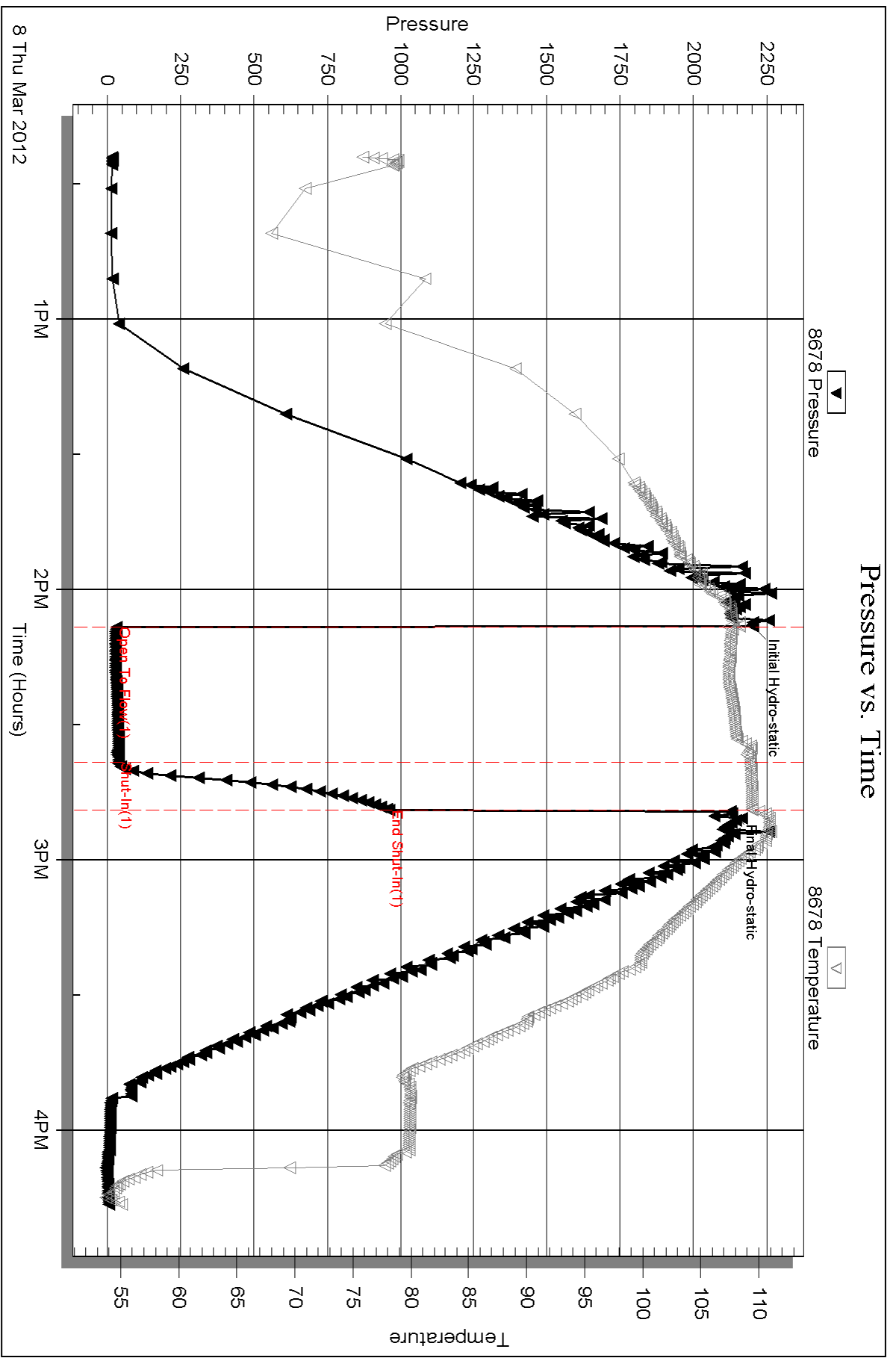
Serial #: 8678

Inside

Crede Petroleum Corp.

May #1-22

DST Test Number: 2



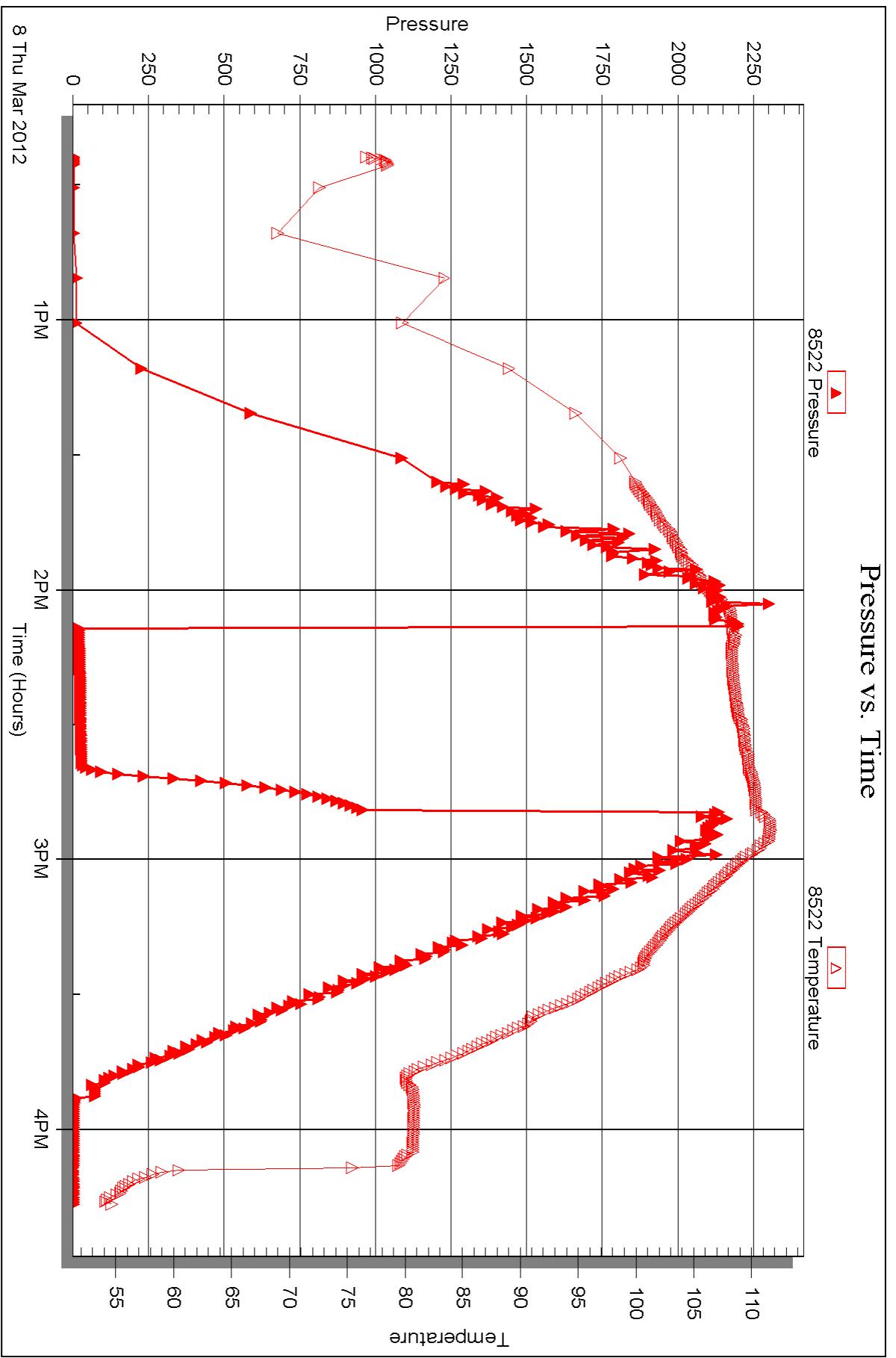
Serial #: 8522

Inside

Credo Petroleum Corp.

May #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 44513

Printed: 2012.03.14 @ 15:59:40



DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

Mary #1-22

22-10s-35w Thomas KS

Start Date: 2012.03.08 @ 16:36:00

End Date: 2012.03.08 @ 23:19:30

Job Ticket #: 44514 DST #: 3

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

Printed: 2012.03.14 @ 15:56:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44514

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 16:36:00

GENERAL INFORMATION:

Formation: **LKC H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:01:00

Time Test Ended: 23:19:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4310.00 ft (KB) To 4440.00 ft (KB) (TVD)

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 112.45 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.08

End Date:

2012.03.08

Last Calib.: 2012.03.08

Start Time: 16:36:05

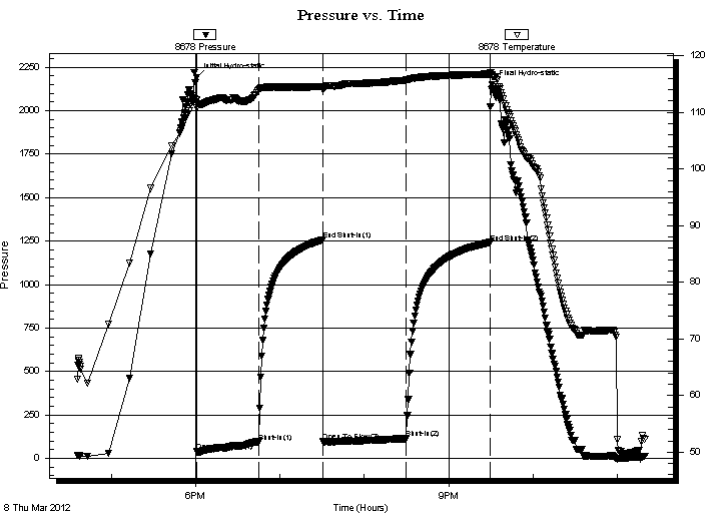
End Time:

23:19:29

Time On Btm: 2012.03.08 @ 18:00:45

Time Off Btm: 2012.03.08 @ 21:30:45

TEST COMMENT: IF: 3 1/2" blow .
IS: No return.
FF: 1" blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.39	112.19	Initial Hydro-static
1	40.57	110.82	Open To Flow (1)
44	93.85	113.94	Shut-In(1)
90	1257.11	114.56	End Shut-In(1)
90	95.80	113.91	Open To Flow (2)
149	112.45	115.68	Shut-In(2)
209	1238.16	116.78	End Shut-In(2)
210	2151.92	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	w cm 25w 75m (oil spots)	1.17

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

22-10s-35w Thomas KS

Mary #1-22

Job Ticket: 44514

DST#: 3

Test Start: 2012.03.08 @ 16:36:00

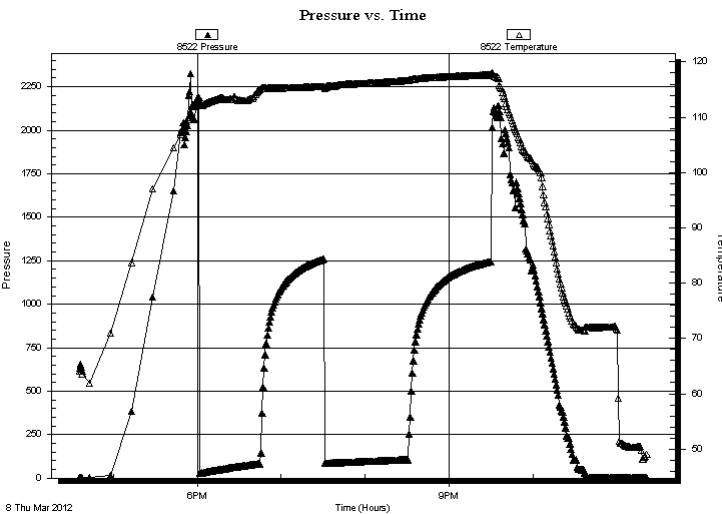
GENERAL INFORMATION:

Formation: **LKC H - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:01:00
 Time Test Ended: 23:19:30
 Interval: **4310.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3284.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4311.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.08 End Date: 2012.03.08 Last Calib.: 2012.03.08
 Start Time: 16:36:05 End Time: 23:20:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 3 1/2" blow .
 IS: No return.
 FF: 1" blow .
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	w cm 25w 75m (oil spots)	1.17

* 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.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44514

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 16:36:00

Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.20 inches	Volume: 41.48 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 42.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4310.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.00 ft			
Tool Length:	157.00 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			4284.00	
Shut In Tool	5.00			4289.00	
Hydraulic tool	5.00			4294.00	
Jars	5.00			4299.00	
Safety Joint	2.00			4301.00	
Packer	5.00			4306.00	27.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	8678	Inside	4311.00	
Recorder	0.00	8522	Inside	4311.00	
Perforations	29.00			4340.00	
Change Over Sub	1.00			4341.00	
Drill Pipe	95.00			4436.00	
Change Over Sub	1.00			4437.00	
Bullnose	3.00			4440.00	130.00 Bottom Packers & Anchor

Total Tool Length: 157.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44514

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.03.08 @ 16:36:00

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:

28000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	w cm 25w 75m (oil spots)	1.167

Total Length: 180.00 ft Total Volume: 1.167 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .380 @ 48F = 27,000ppm

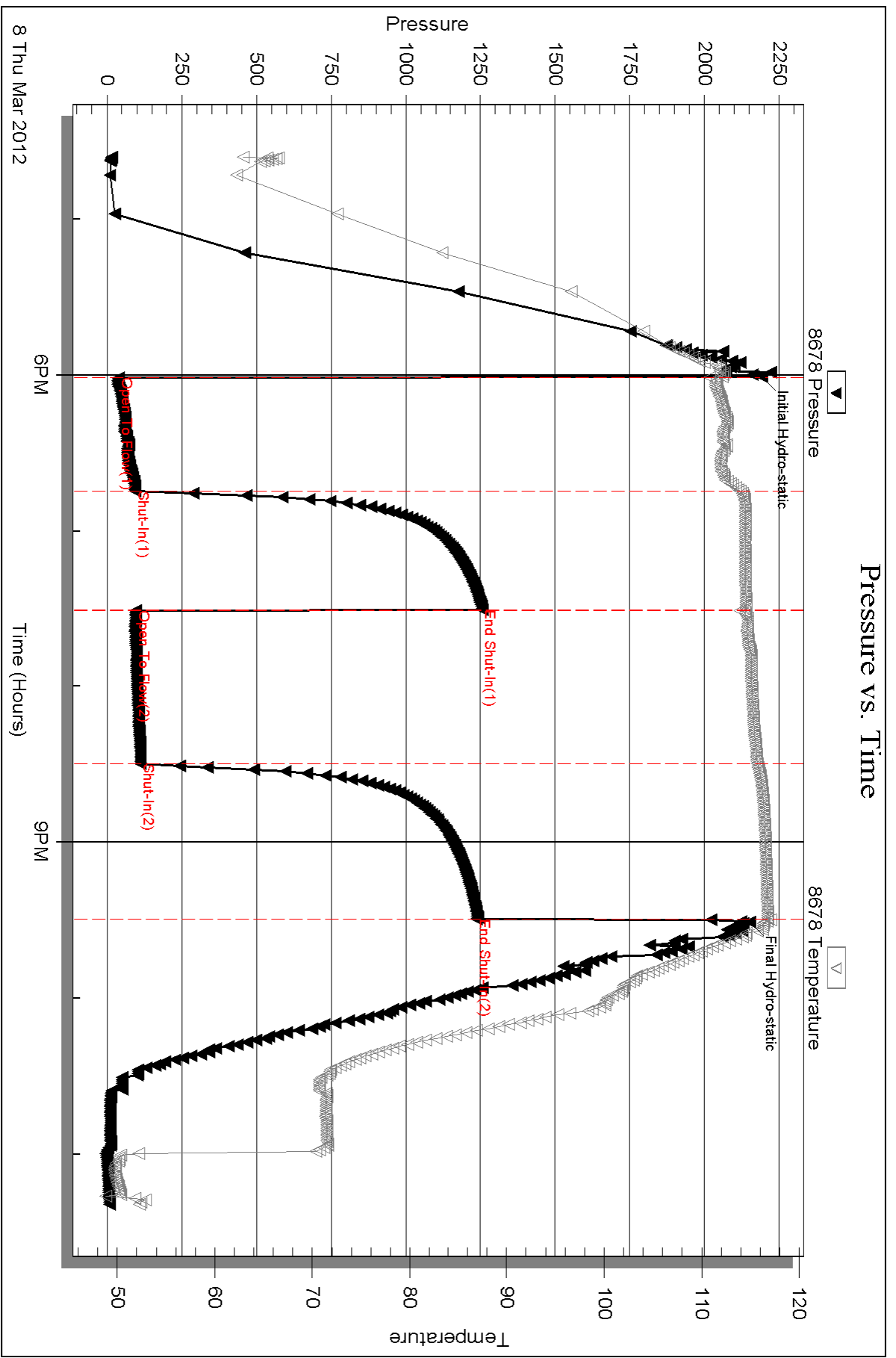
Serial #: 8678

Inside

Crede Petroleum Corp.

May #1-22

DST Test Number: 3



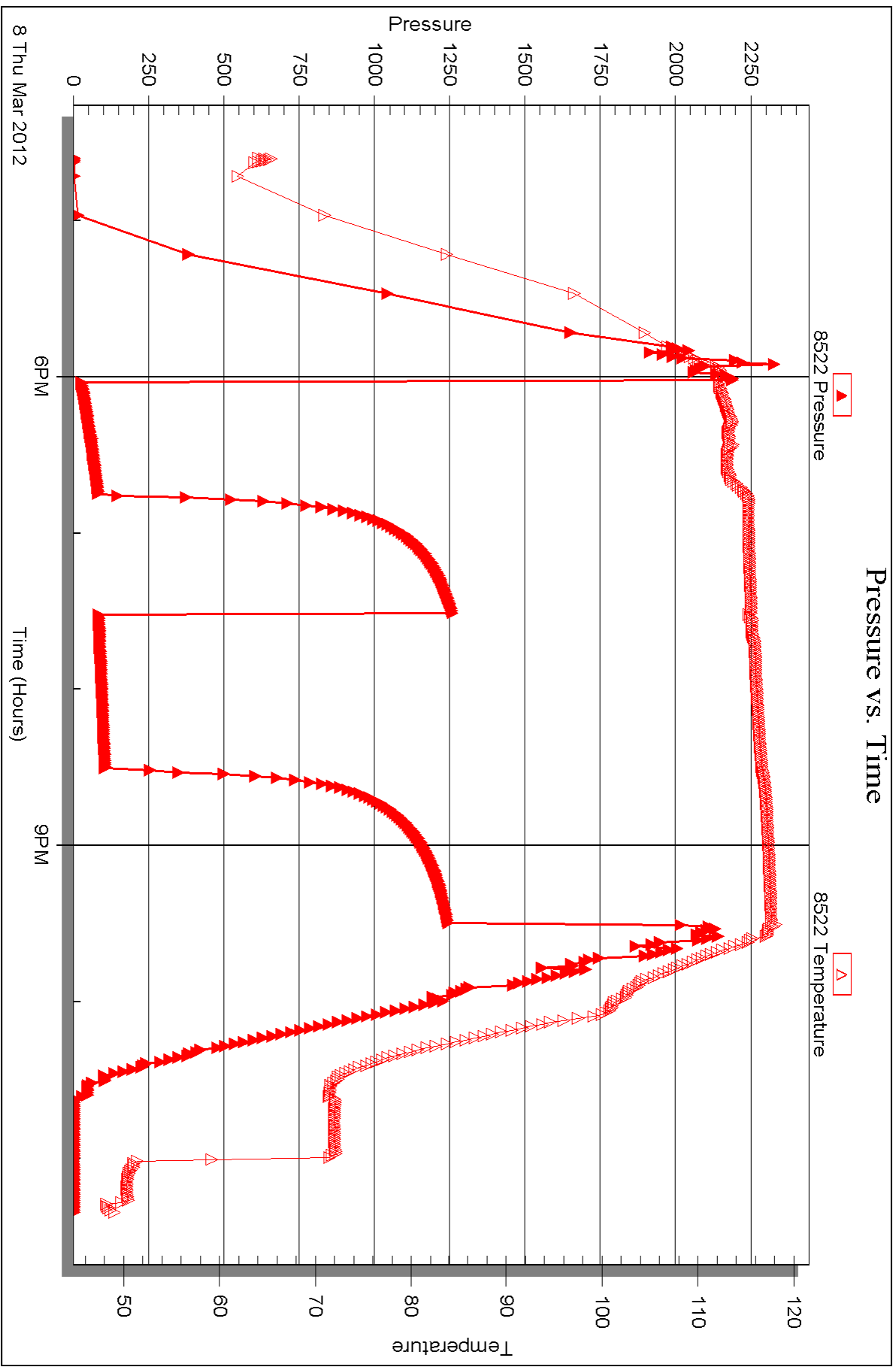
Serial #: 8522

Inside

Crede Petroleum Corp.

Mary #1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

Mary #1-22

22-10s-35w Thomas KS

Start Date: 2012.03.09 @ 19:02:00

End Date: 2012.03.10 @ 01:56:15

Job Ticket #: 44515 DST #: 4

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

Printed: 2012.03.14 @ 15:55:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

22-10s-35w Thomas KS

Mary #1-22

Job Ticket: 44515

DST#: 4

Test Start: 2012.03.09 @ 19:02:00

GENERAL INFORMATION:

Formation: **LKC L - Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:45:15
 Time Test Ended: 01:56:15
 Interval: **4429.00 ft (KB) To 4655.00 ft (KB) (TVD)**
 Total Depth: 4665.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3284.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 5.00 ft

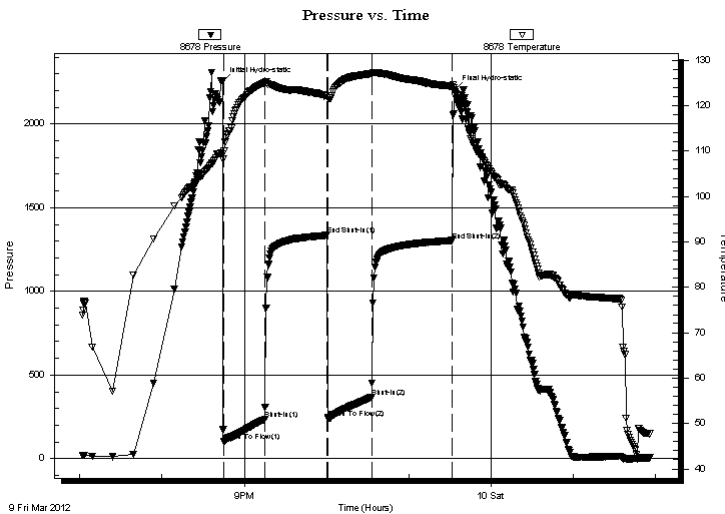
Serial #: 8678

Inside

Press @ Run Depth: 368.95 psig @ 4430.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.09 End Date: 2012.03.10 Last Calib.: 2012.03.10
 Start Time: 19:02:05 End Time: 01:56:14 Time On Btm: 2012.03.09 @ 20:44:00
 Time Off Btm: 2012.03.09 @ 23:33:45

TEST COMMENT: IF:BOB @ 7 min.
 IS:No return.
 FF:BOB @ 11 min.
 FS:No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.83	109.35	Initial Hydro-static
2	102.24	109.95	Open To Flow (1)
31	234.21	125.00	Shut-In(1)
77	1335.94	122.19	End Shut-In(1)
78	243.34	121.78	Open To Flow (2)
109	368.95	127.05	Shut-In(2)
168	1304.29	124.21	End Shut-In(2)
170	2206.22	123.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
820.00	mcw 10m 90w	7.53

* 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.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44515

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.03.09 @ 19:02:00

Tool Information

Drill Pipe:	Length: 4295.00 ft	Diameter: 3.20 inches	Volume: 42.72 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 43.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4429.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	226.00 ft			
Tool Length:	253.00 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			4403.00	
Shut In Tool	5.00			4408.00	
Hydraulic tool	5.00			4413.00	
Jars	5.00			4418.00	
Safety Joint	2.00			4420.00	
Packer	5.00			4425.00	27.00 Bottom Of Top Packer
Packer	4.00			4429.00	
Stubb	1.00			4430.00	
Recorder	0.00	8678	Inside	4430.00	
Recorder	0.00	8522	Inside	4430.00	
Perforations	31.00			4461.00	
Change Over Sub	1.00			4462.00	
Drill Pipe	189.00			4651.00	
Change Over Sub	1.00			4652.00	
Bullnose	3.00			4655.00	226.00 Bottom Packers & Anchor

Total Tool Length: 253.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44515

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.03.09 @ 19:02:00

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:

64000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
820.00	mcw 10m 90w	7.533

Total Length: 820.00 ft Total Volume: 7.533 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

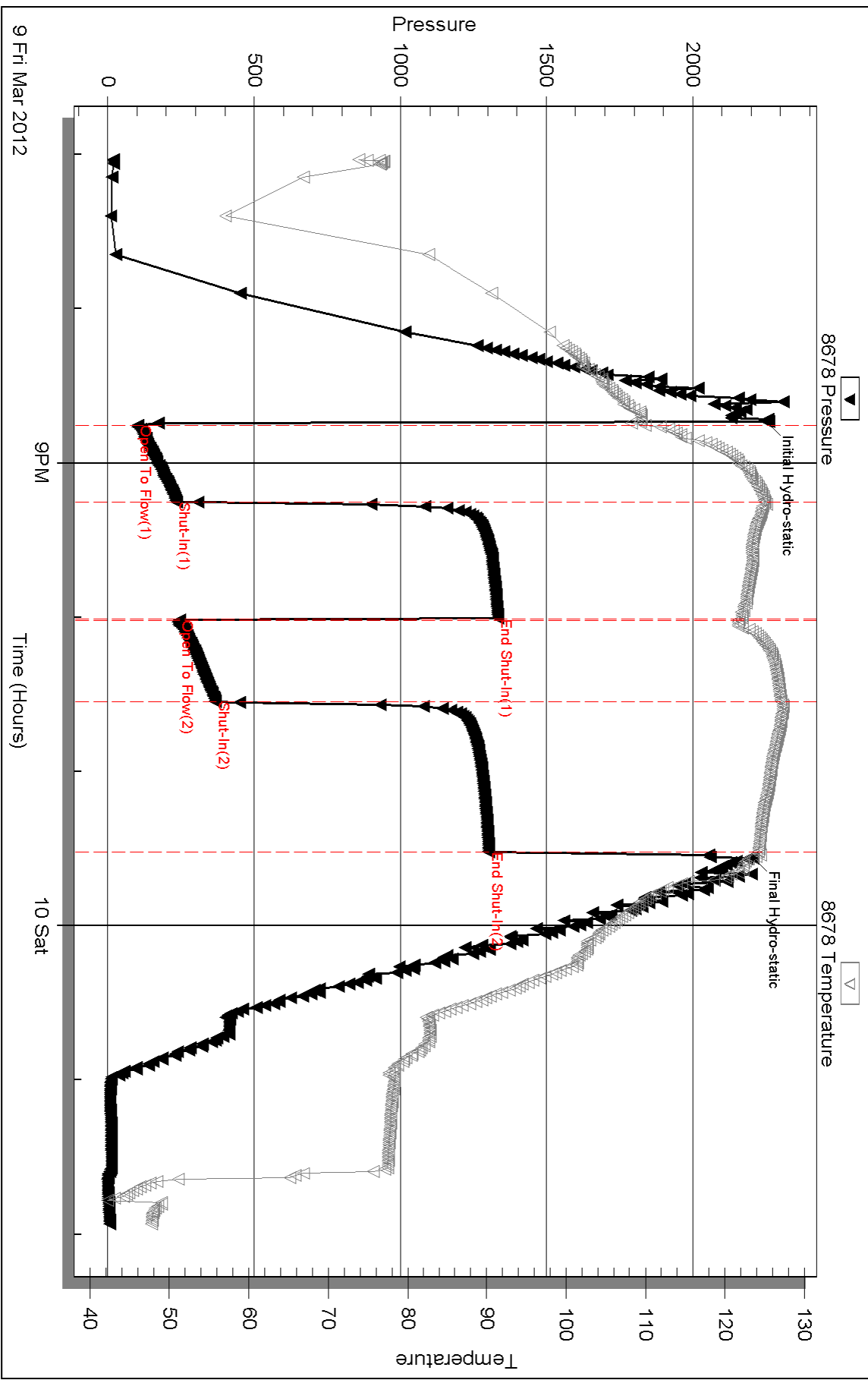
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .180 @ 48F = 64000ppm

Pressure vs. Time



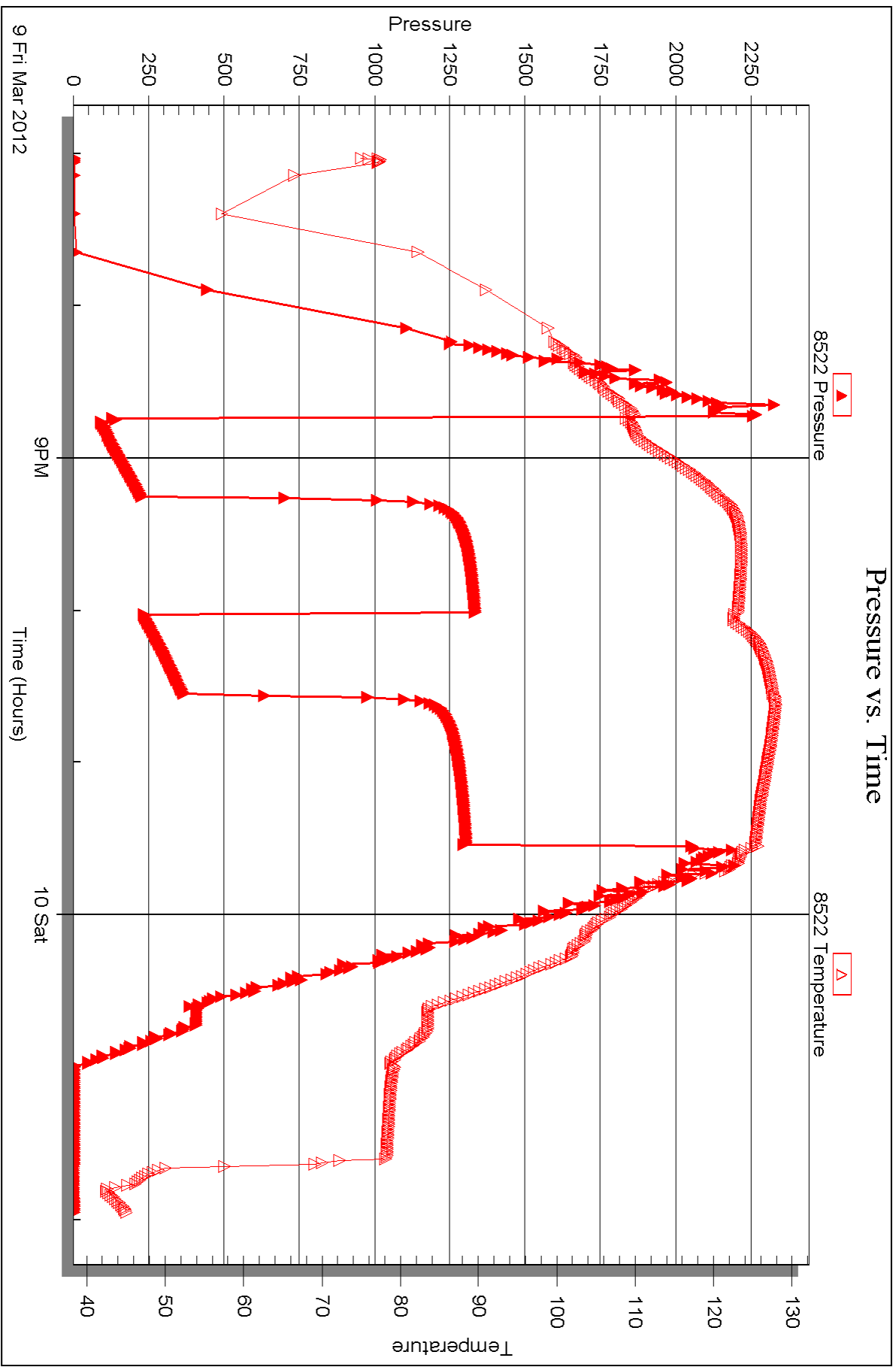
Serial #: 8522

Inside

Crede Petroleum Corp.

Mary #1-22

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

Mary #1-22

22-10s-35w Thomas KS

Start Date: 2012.03.10 @ 22:26:00

End Date: 2012.03.11 @ 05:14:15

Job Ticket #: 44516 DST #: 5

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

Printed: 2012.03.14 @ 15:52:22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44516

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.03.10 @ 22:26:00

GENERAL INFORMATION:

Formation: **Cherokee - Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:45

Time Test Ended: 05:14:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4650.00 ft (KB) To 4820.00 ft (KB) (TVD)**

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4820.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678 Inside

Press @ Run Depth: 137.27 psig @ 4651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.10

End Date:

2012.03.11

Last Calib.: 2012.03.11

Start Time: 22:26:05

End Time:

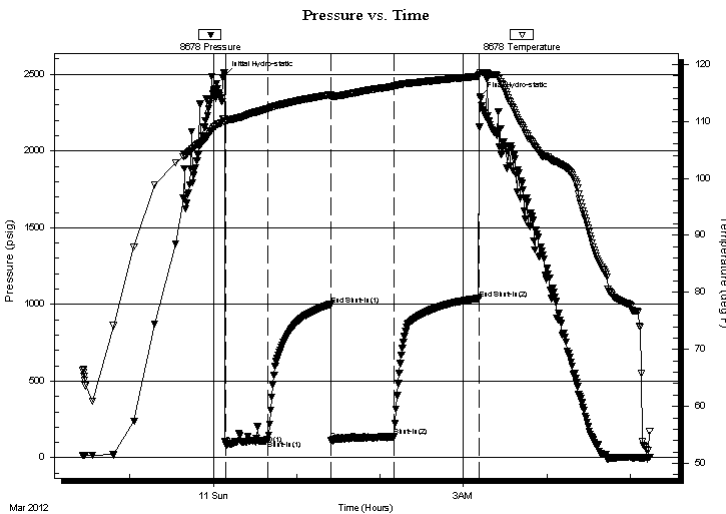
05:14:14

Time On Btm: 2012.03.11 @ 00:08:15

Time Off Btm: 2012.03.11 @ 03:12:00

TEST COMMENT: IF: 6" blow.
IS: No return.
FF: 2" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2490.32	110.49	Initial Hydro-static
1	88.44	109.95	Open To Flow (1)
31	115.75	112.21	Shut-In(1)
77	996.43	114.67	End Shut-In(1)
77	113.29	114.34	Open To Flow (2)
122	137.27	116.17	Shut-In(2)
183	1033.42	117.93	End Shut-In(2)
184	2357.09	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	mud 100%m (heavy)	1.37

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44516

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.03.10 @ 22:26:00

GENERAL INFORMATION:

Formation: **Cherokee - Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:45

Time Test Ended: 05:14:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4650.00 ft (KB) To 4820.00 ft (KB) (TVD)

Reference Elevations: 3284.00 ft (KB)

Total Depth: 4820.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press @ Run Depth: psig @ 4651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.10

End Date: 2012.03.11

Last Calib.: 2012.03.11

Start Time: 22:25:50

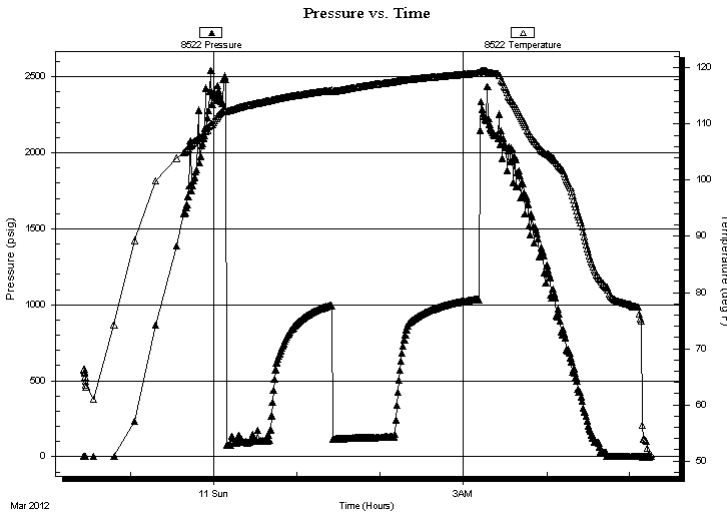
End Time: 05:15:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 6" blow.
IS: No return.
FF: 2" blow.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
200.00	mud 100%m (heavy)	1.37

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44516

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.03.10 @ 22:26:00

Tool Information

Drill Pipe:	Length: 4517.00 ft	Diameter: 3.20 inches	Volume: 44.93 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 45.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4650.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	170.00 ft			
Tool Length:	197.00 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			4624.00	
Shut In Tool	5.00			4629.00	
Hydraulic tool	5.00			4634.00	
Jars	5.00			4639.00	
Safety Joint	2.00			4641.00	
Packer	5.00			4646.00	27.00 Bottom Of Top Packer
Packer	4.00			4650.00	
Stubb	1.00			4651.00	
Recorder	0.00	8678	Inside	4651.00	
Recorder	0.00	8522	Inside	4651.00	
Perforations	7.00			4658.00	
Change Over Sub	1.00			4659.00	
Drill Pipe	157.00			4816.00	
Change Over Sub	1.00			4817.00	
Bullnose	3.00			4820.00	170.00 Bottom Packers & Anchor

Total Tool Length: 197.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

22-10s-35w Thomas KS

1801 Broadway #900
Denver, CO 80202

Mary #1-22

Job Ticket: 44516

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.03.10 @ 22:26:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
200.00	mud 100%m (heavy)	1.366

Total Length: 200.00 ft Total Volume: 1.366 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8678

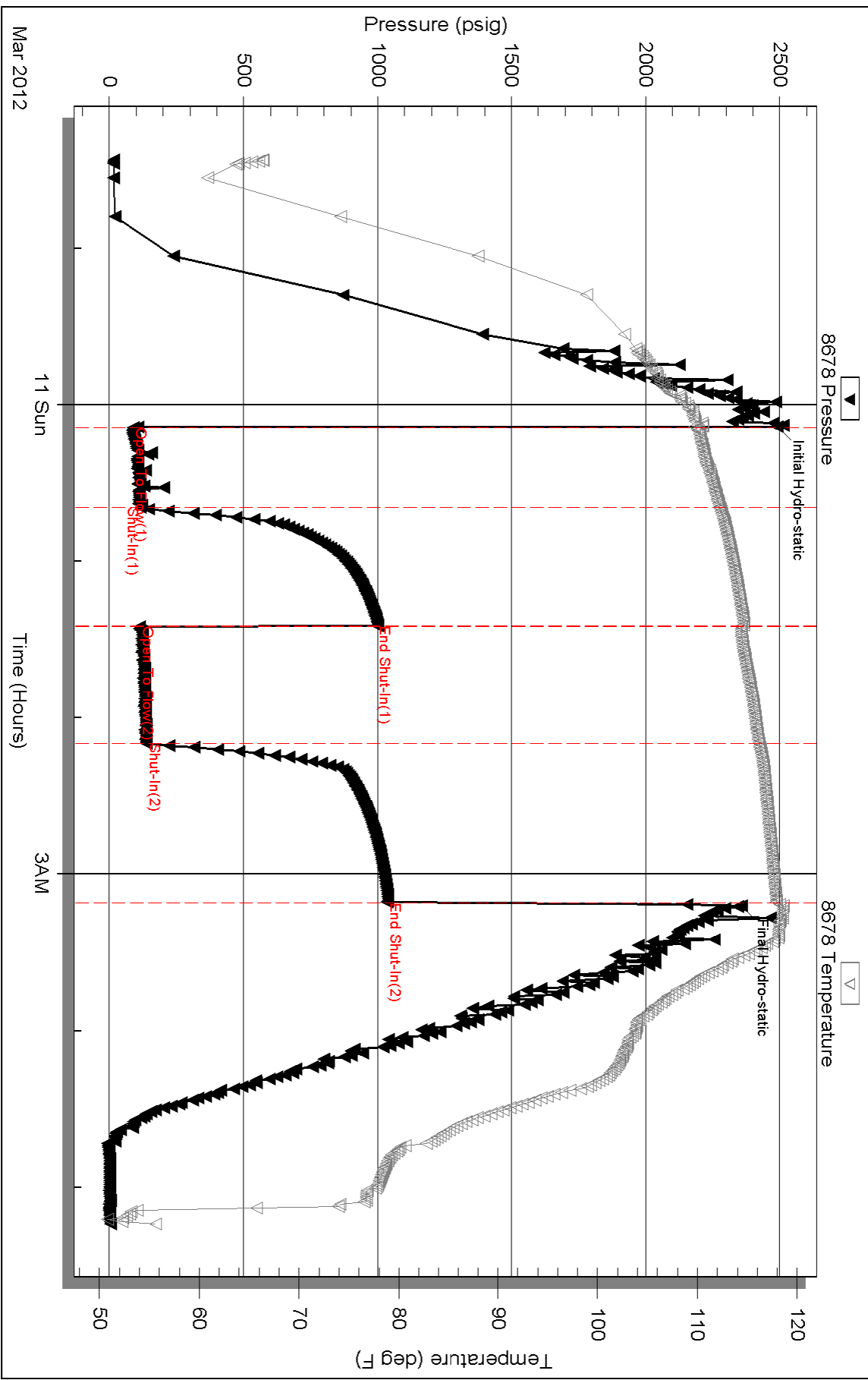
Inside

Crede Petroleum Corp.

May #1-22

DST Test Number: 5

Pressure vs. Time



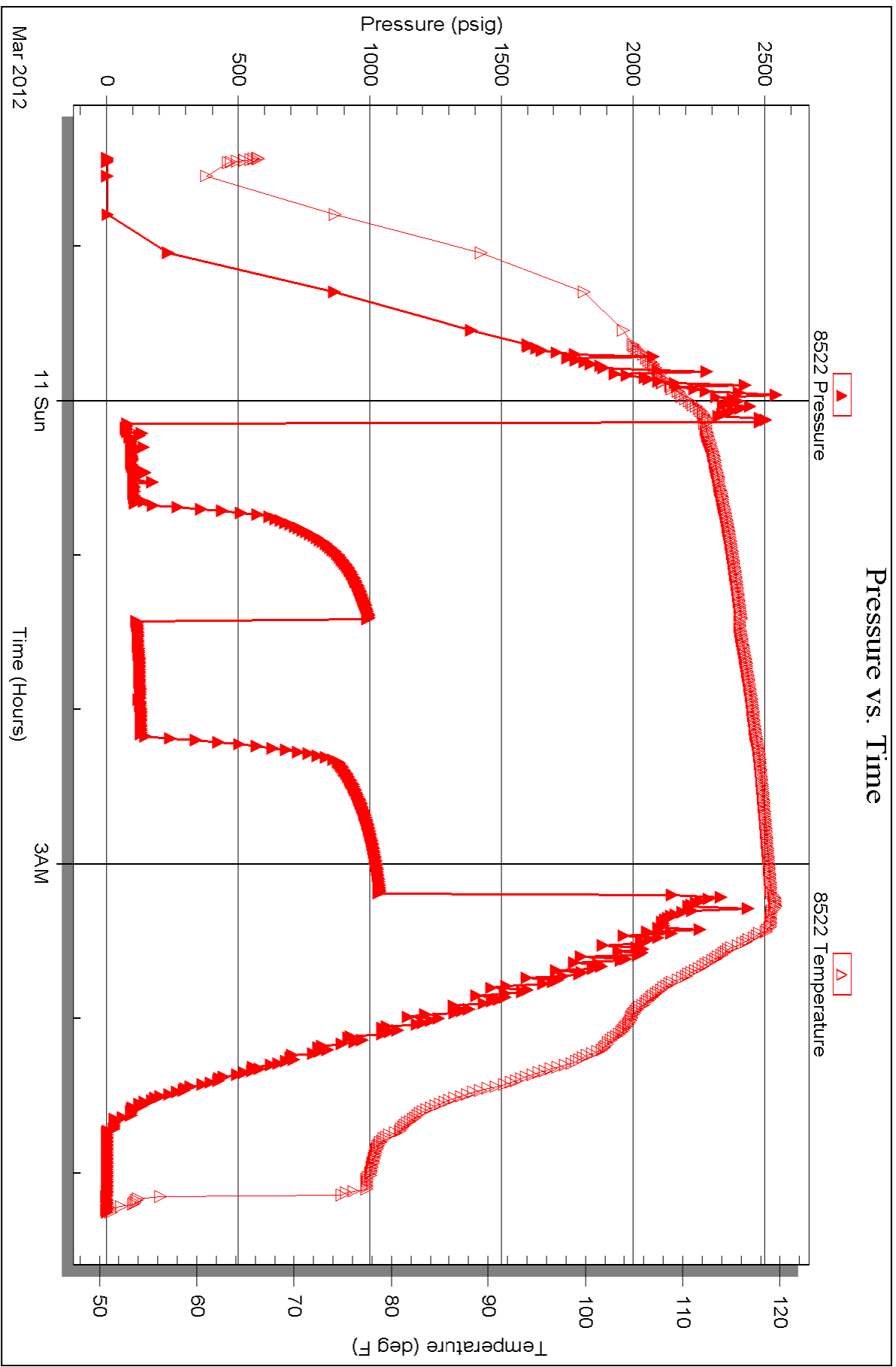
Serial #: 8522

Inside

Crede Petroleum Corp.

Mary #1-22

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 10 2012

Test Ticket

NO. 44512

4/10

BY: _____

Well Name & No. Mary 1-22 Test No. 1 Date 3-7-12
 Company Credo Petroleum Corporation Elevation 3284 KB 3279 GL
 Address 1801 Broadway #900 Denver, Co 80202
 Co. Rep / Geo. Bruce Ard Rig WW #4
 Location: Sec. 22 Twp. 10S Rge. 32W Co. Thomas State Ks

Interval Tested 4245 - 4280 Zone Tested LKC E-F
 Anchor Length 35 Drill Pipe Run 4107 Mud Wt. 9.1
 Top Packer Depth 4240 Drill Collars Run 124 Vis 71
 Bottom Packer Depth 4245 Wt. Pipe Run 0 WL 9.6
 Total Depth 4280 Chlorides 5,000 ppm System LCM 1#
 Blow Description IF! 6" blow.
FSI! No return.
FF! 5 1/2" blow
FSI! No return.

Rec	Feet of	%gas	%oil	%water	%mud
270	MCW		80		20

Rec Total 270 BHT 121 F Gravity — API RW .180 @ 51 °F Chlorides 6,000 ppm

(A) Initial Hydrostatic <u>2144</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>1245</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1325</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1500</u>
(D) Initial Shut-In <u>1224</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1830</u>
(E) Second Initial Flow <u>112</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2007</u>
(F) Second Final Flow <u>162</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT 196</u>	Comments _____
(G) Final Shut-In <u>1196</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2104</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1746</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1746</u>	

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 test 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

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MAR 10 2012
BY: _____

Test Ticket

NO. 44513

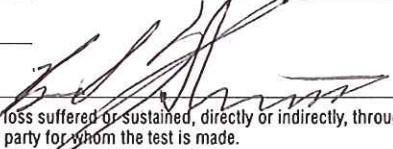
Well Name & No. Mary 1-22 Test No. 2 Date 3-8-12
 Company Credo Petroleum Corporation Elevation 3284 KB 3279 GL
 Address 1801 Broadway #900 Denver CO 80202
 Co. Rep / Geo. Bruce Ard Rig WW#4
 Location: Sec. 22 Twp. 10s Rge. 32w Co. Thomas State Ks

Interval Tested 4406 - 4440 Zone Tested LKC - K
 Anchor Length 34 Drill Pipe Run 4265 Mud Wt. 8.9
 Top Packer Depth 4401 Drill Collars Run 124 Vis 53
 Bottom Packer Depth 4406 Wt. Pipe Run 0 WL 6.4
 Total Depth 4440 Chlorides 4500 ppm System LCM 2#
 Blow Description IF: Surface blow, died @ 25 minutes.
ISI: No return.
- Pulled Test -

Rec	Feet of	Oil Spots	%gas	%oil	%water	%mud
10	MUD	012 SPOTS			100	
		Puddle OIL ON TOP				

Rec Total 10 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2203</u>	<input checked="" type="checkbox"/> Test	<u>1225</u>	T-On Location	_____
(B) First Initial Flow	<u>32</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1224</u>
(C) First Final Flow	<u>37</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1409</u>
(D) Initial Shut-In	<u>961</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>1450</u>
(E) Second Initial Flow	<u>—</u>	<input type="checkbox"/> Hourly Standby	_____	T-Out	<u>16:16</u>
(F) Second Final Flow	<u>—</u>	<input checked="" type="checkbox"/> Mileage	<u>140 R/T 196</u>	Comments	_____
(G) Final Shut-In	<u>—</u>	<input type="checkbox"/> Sampler	_____	_____	_____
(H) Final Hydrostatic	<u>2126</u>	<input type="checkbox"/> Straddle	_____	<input type="checkbox"/> Ruined Shale Packer	_____
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	_____	<input type="checkbox"/> Ruined Packer	_____
Initial Shut-In	<u>11</u>	<input type="checkbox"/> Extra Packer	_____	<input type="checkbox"/> Extra Copies	_____
Final Flow	<u>—</u>	<input type="checkbox"/> Extra Recorder	_____	Sub Total	<u>0</u>
Final Shut-In	<u>—</u>	<input type="checkbox"/> Day Standby	_____	Total	<u>1746</u>
		<input type="checkbox"/> Accessibility	_____	MP/DST Disc't	_____
		Sub Total	<u>1746</u>		

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

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RECEIVED
MAR 10 2012

Test Ticket

NO. 44514

4/10

BY: _____

Well Name & No. Mary 1-22 Test No. 3 Date 3-8-12
 Company Credo Petroleum Cooperation Elevation 5284 KB 3279 GL
 Address 1801 Broadway #900 Denver, Co 80202
 Co. Rep / Geo. Bruce Ard Rig WW#2
 Location: Sec. 22 Twp. 10s Rge. S2W Co. Thomas State Ks

Interval Tested 4310 - 4440 Zone Tested LKC H-K
 Anchor Length 130' Drill Pipe Run 4170 Mud Wt. 8.9
 Top Packer Depth 4305 Drill Collars Run 124 Vis 55
 Bottom Packer Depth 4310 Wt. Pipe Run Ø WL 6.4
 Total Depth 4440 Chlorides 4500 ppm System LCM 2#
 Blow Description IF! 3 1/2" blow
IST! No return.
FF! 1" blow
FST! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>WCM</u>		<u>25</u>	<u>75</u>	
	<u>oil spots</u>				

Rec Total 190 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2191 Test 1225' T-On Location 1600
 (B) First Initial Flow 41 Jars 250' T-Started 1636
 (C) First Final Flow 94 Safety Joint 75' T-Open 1801
 (D) Initial Shut-In 1257 Circ Sub 112 T-Pulled 2131
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 2320
 (F) Second Final Flow 112 Mileage 140 RT 190' Comments _____
 (G) Final Shut-In 1238 Sampler _____
 (H) Final Hydrostatic 2152 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total Ø
 Day Standby _____ Total 1746'
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1746'

Approved By Bruce B. Ard Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 14 2012
BY: _____

Test Ticket

NO. 44515

Well Name & No. Mary 1-22 Test No. 4 Date 3/9/12
 Company Credo Petroleum Corporation Elevation 3284 KB 3279 GL
 Address 1801 Broadway #900 Denver, Co 80202
 Co. Rep / Geo. Bruce Ard Rig WW #24
 Location: Sec. 22 Twp. 10s Rge. 32w Co. Thomas State Ks

Interval Tested 4429 - 4655 Zone Tested LKC'L' - Ft. Scott
 Anchor Length 226' Drill Pipe Run 4295 Mud Wt. 9.3
 Top Packer Depth 4424 Drill Collars Run 124 Vis 55
 Bottom Packer Depth 4429 Wt. Pipe Run 0 WL 8.8
 Total Depth 4655 Chlorides 5500 ppm System LCM 2⁺

Blow Description IF! BOB @ 7 min.
ISI! No return.
FF! BOB @ 11 min.
FSI! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>mcw</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 820 BHT 124 Gravity — API RW 180 @ 48 °F Chlorides 64,000 ppm

(A) Initial Hydrostatic <u>2253</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>1730</u>
(B) First Initial Flow <u>102</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>1902</u>
(C) First Final Flow <u>234</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>2046</u>
(D) Initial Shut-In <u>1336</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2331</u>
(E) Second Initial Flow <u>243</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0157</u>
(F) Second Final Flow <u>369</u>	<input checked="" type="checkbox"/> Mileage <u>140 R/H 196</u>	Comments _____
(G) Final Shut-In <u>1304</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2206</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1746</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1746</u>	

Approved By Bruce B. Ard Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 14 2012
BY: _____

Test Ticket

NO. 44516

Well Name & No. Mary 1-22 Test No. 5 Date 3/10/12
 Company Credo Petroleum Corporation Elevation 3284 KB 3274 GL
 Address 1801 Broadway #900 Denver, Co 80202
 Co. Rep / Geo. Bruce Ard Rig WW#4
 Location: Sec. 22 Twp. 10s Rge. 32w Co. Thomas State Ks

Interval Tested 4650 - 4820 Zone Tested Cherokee - Morrow
 Anchor Length 170' Drill Pipe Run 4517 Mud Wt. 9.2
 Top Packer Depth 4645 Drill Collars Run 124 Vis 57
 Bottom Packer Depth 4650 Wt. Pipe Run 8 WL 8.8
 Total Depth 4820 Chlorides 6400 ppm System LCM 3#
 Blow Description IF: 6" block
ISI: No return.
FF: 2" blow.
FBI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>Mud (Heavy)</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 200 BHT 119 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2490</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>2200</u>
(B) First Initial Flow <u>88</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>2226</u>
(C) First Final Flow <u>116</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>0004</u>
(D) Initial Shut-In <u>996</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0304</u>
(E) Second Initial Flow <u>113</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0515</u>
(F) Second Final Flow <u>137</u>	<input checked="" type="checkbox"/> Mileage <u>140 R/F 1960'</u>	Comments _____
(G) Final Shut-In <u>1833</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2357</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1746'</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1746'</u>	

Approved By Bruce B. Ard Our Representative [Signature]

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DIGITAL LOG (785) 625-3858

Dual Induction Log

15-193-20,842-00-00

API No.

Company **Credo Petroleum Corporation**

Well **Mary No.1-22**

Field **Wildcat**

County **Thomas** State **Kansas**

Location **330' FSL & 2150' FWL**

Other Services
CNL/CDL
MEL/BHCS

Sec: **22** Twp: **10S** Rge: **35W**

Permanent Datum **Ground Level** Elevation **3279**
Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 3284
D.F. 3279
G.L. 3279

Date	3/11/2012	
Run Number	One	
Depth Driller	4920	
Depth Logger	4923	
Bottom Logged Interval	4922	
Top Log Interval	200	
Casing Driller	8.625 @ 238	
Casing Logger	237	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity,ppm CL	7.000	
Density / Viscosity	9.4 59	
pH / Fluid Loss	10.5 8.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	.35 @ 64	
Rmf @ Meas. Temp	.26 @ 64	
Rmc @ Meas. Temp	.47 @ 64	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.18 @ 125	
Operating Rig Time	4 1/2 Hours	
Max Rec. Temp. F	125	
Equipment Number	17	
Location	Hays	
Recorded By	C. Desaiie	
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.
(785) 625-3858

I-70 and Levant Exit,
13 3/4 S, W-S-W Into

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 Charted by: Depth in Feet scaled 1:600

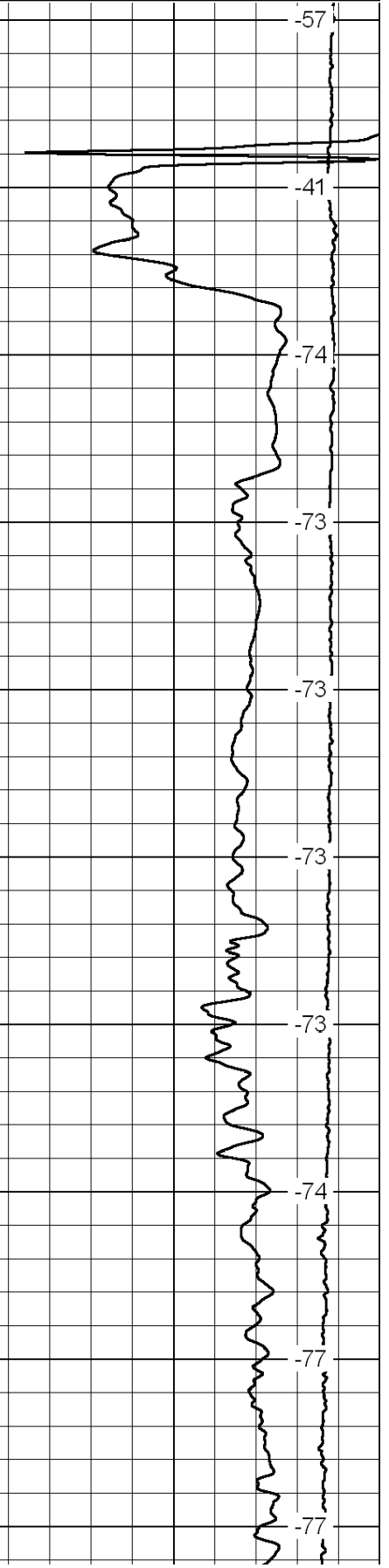
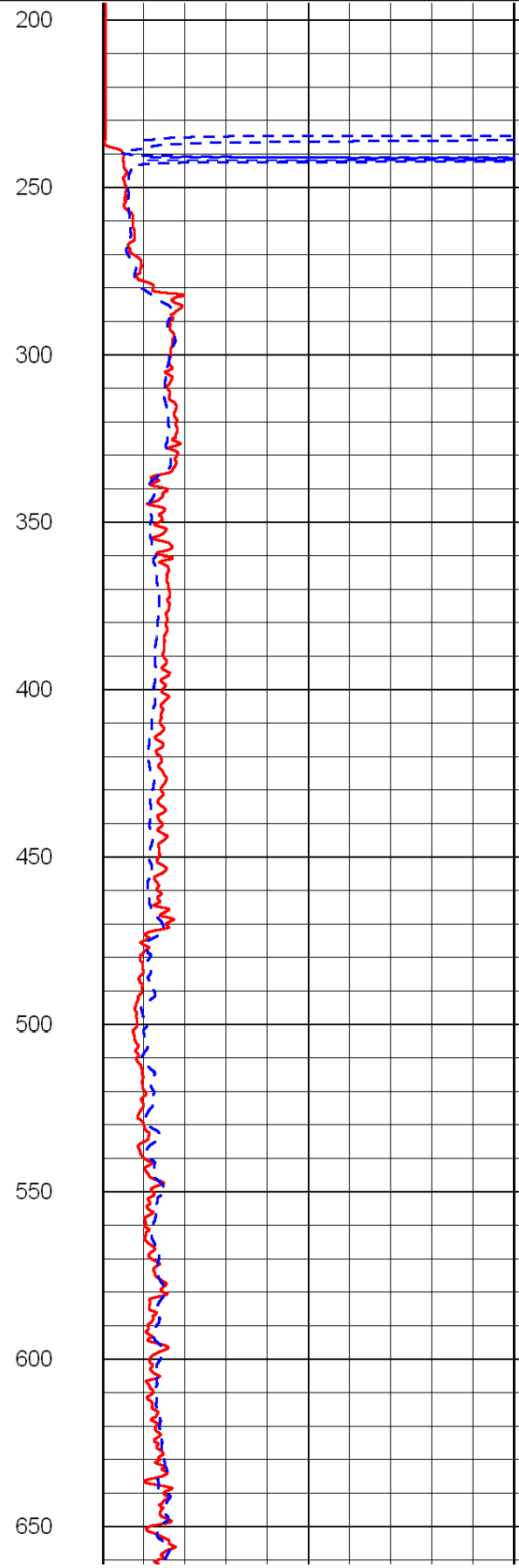
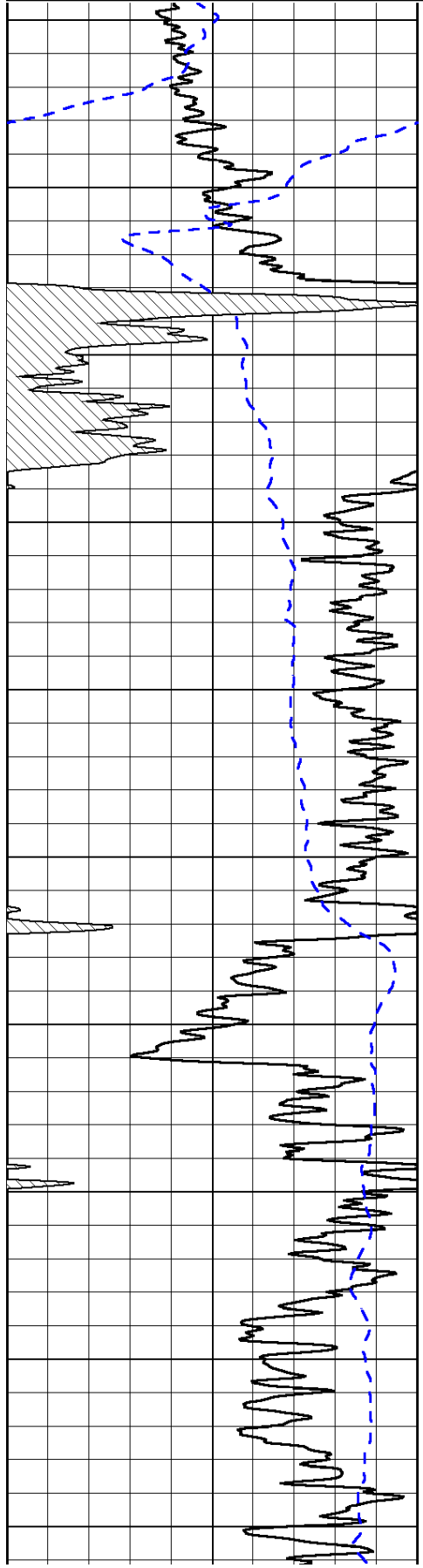
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LSPD

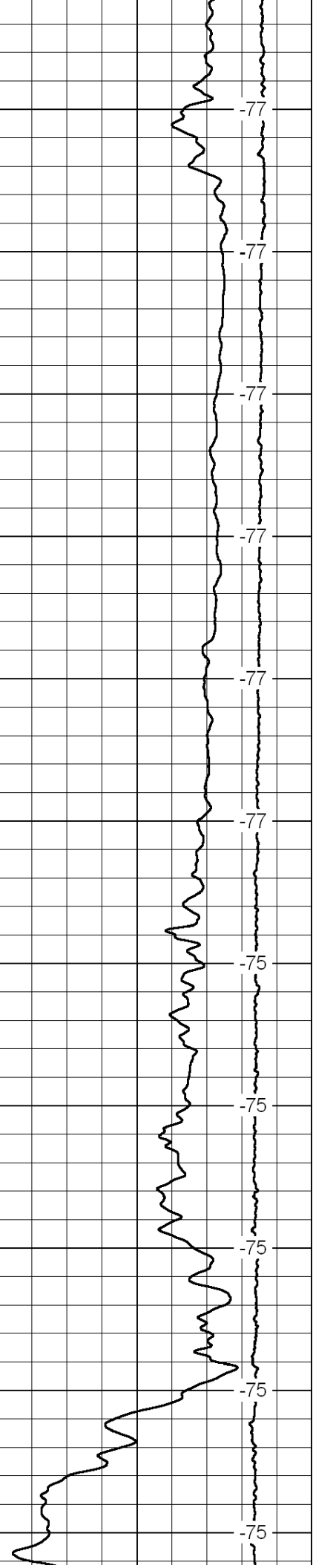
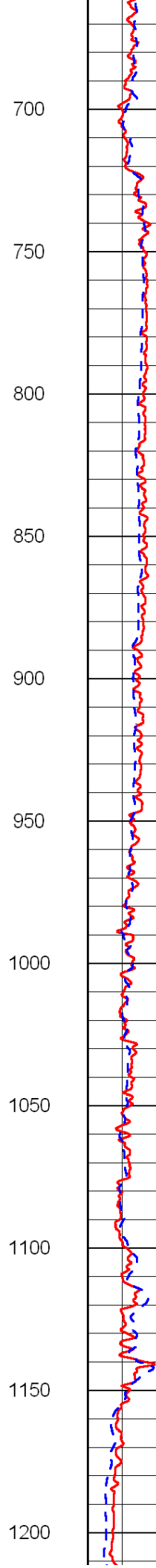
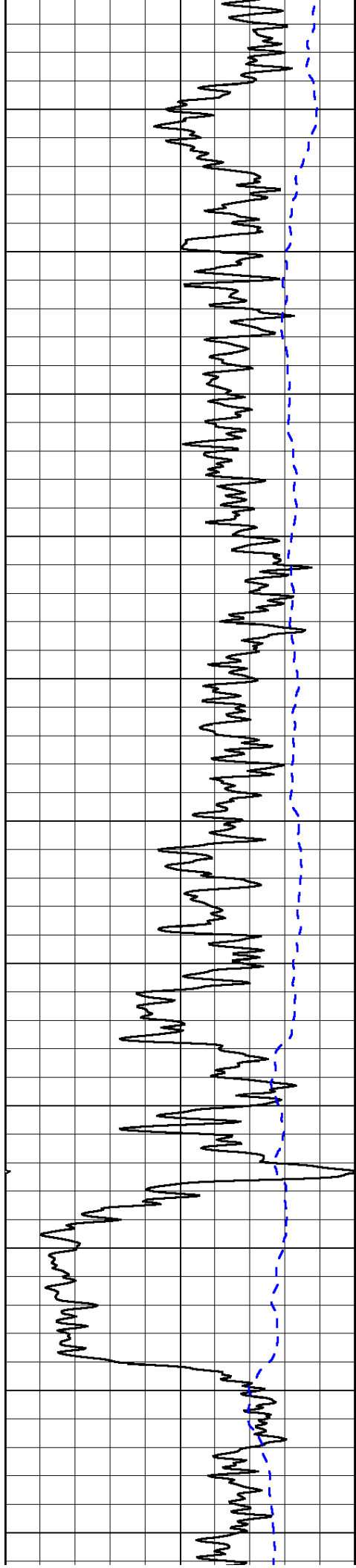
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15000	Line Tension	0

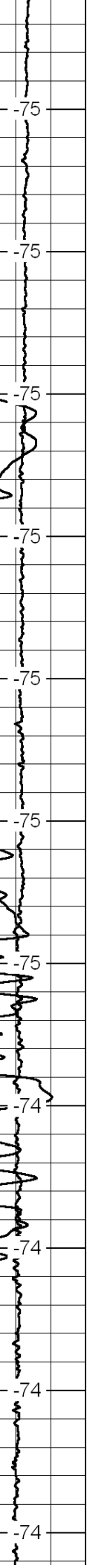
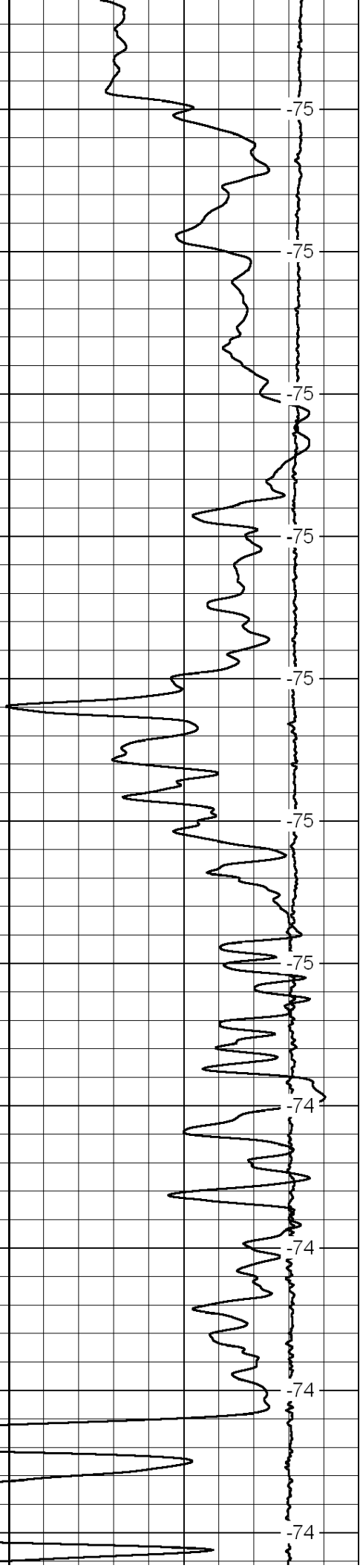
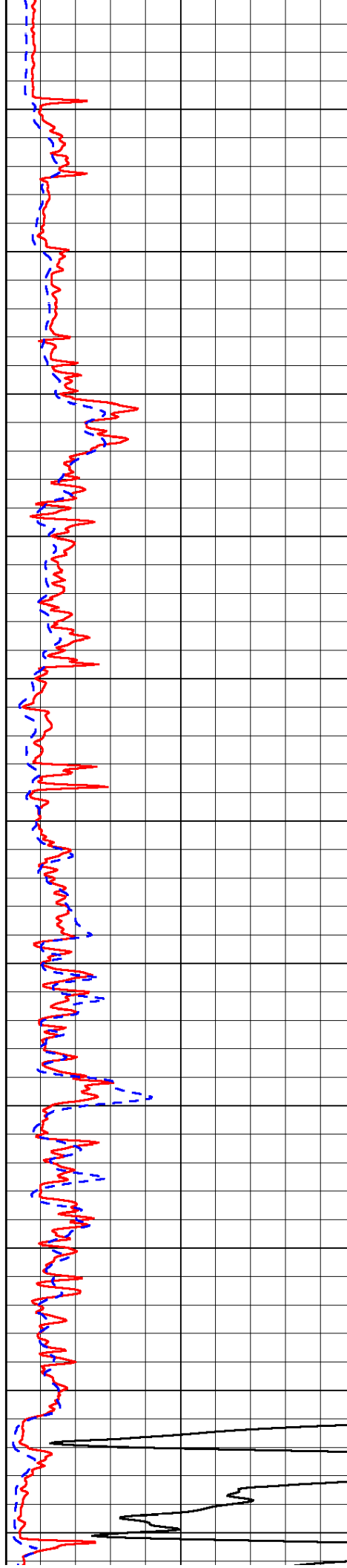
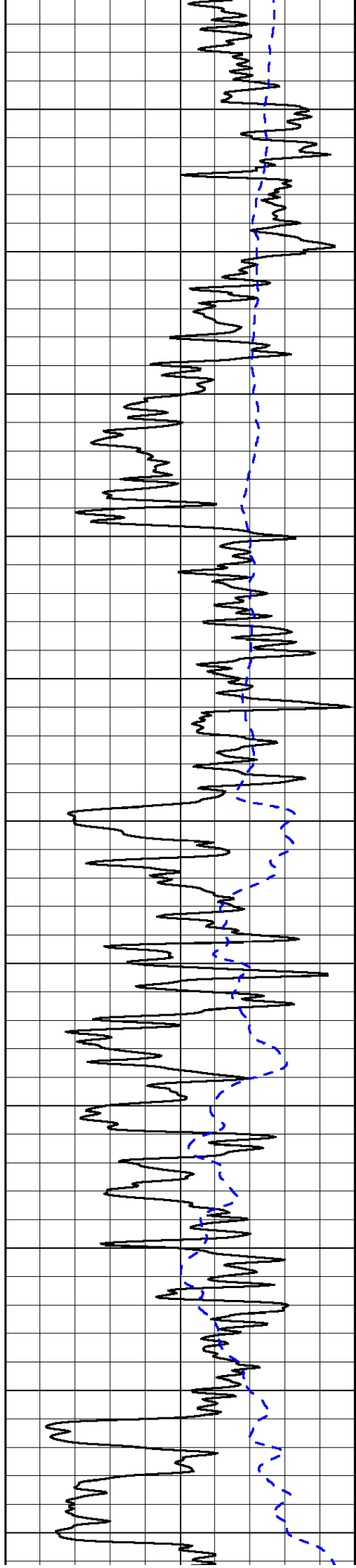
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50	Deep Resistivity	500

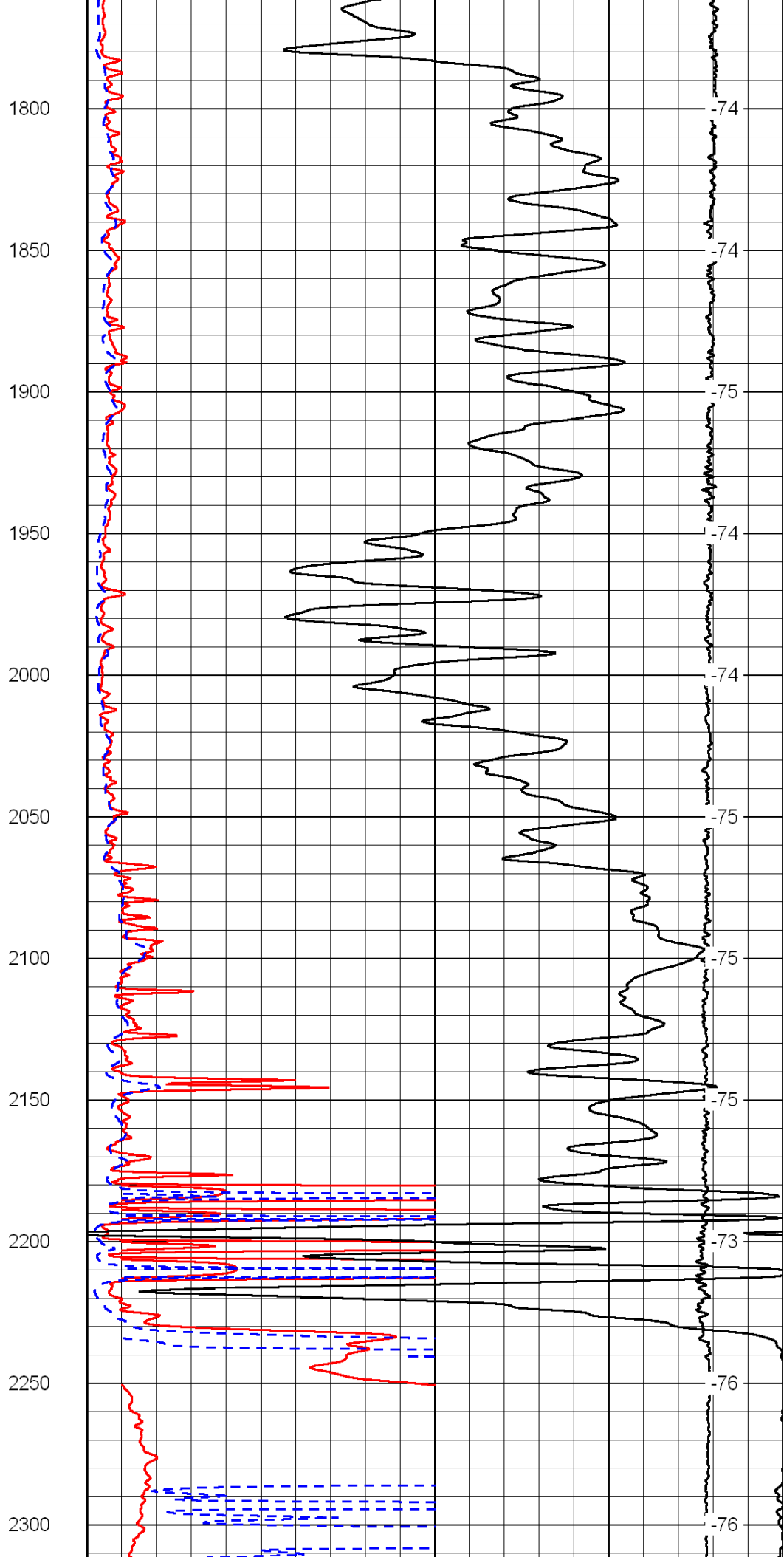
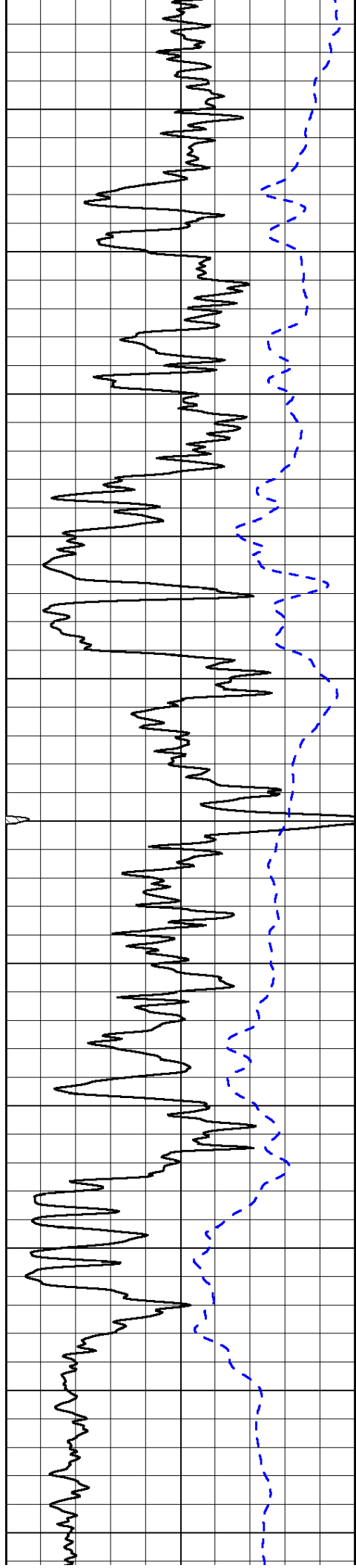


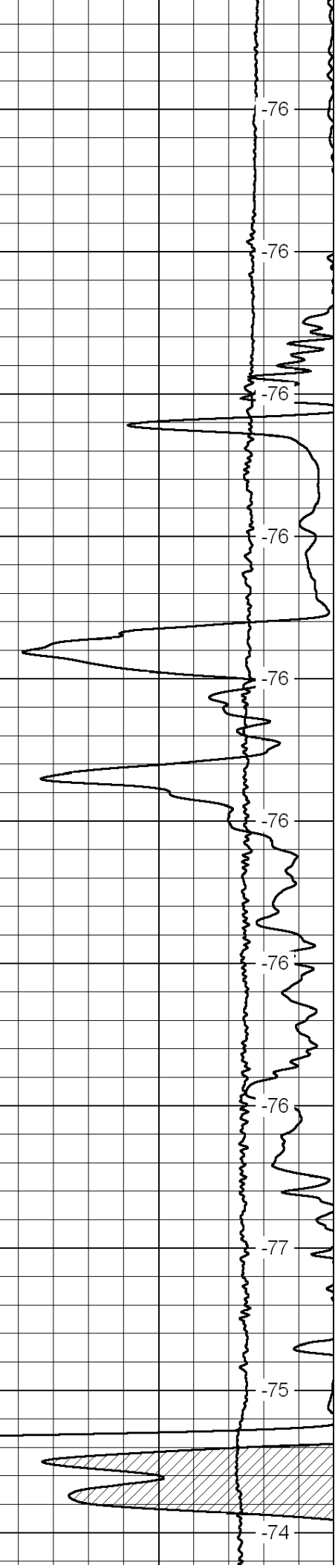
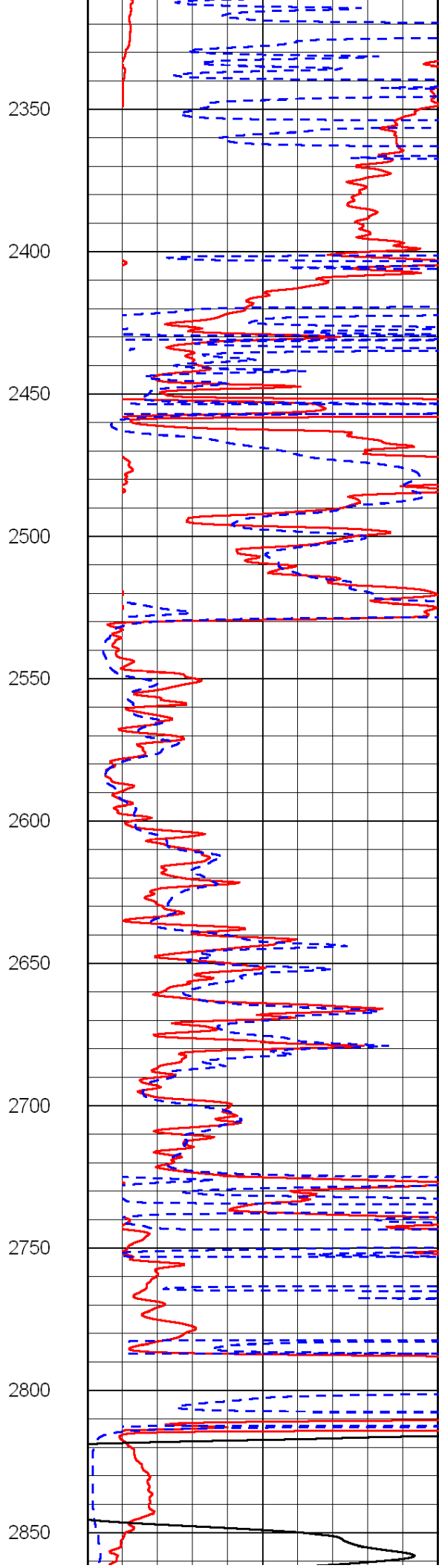
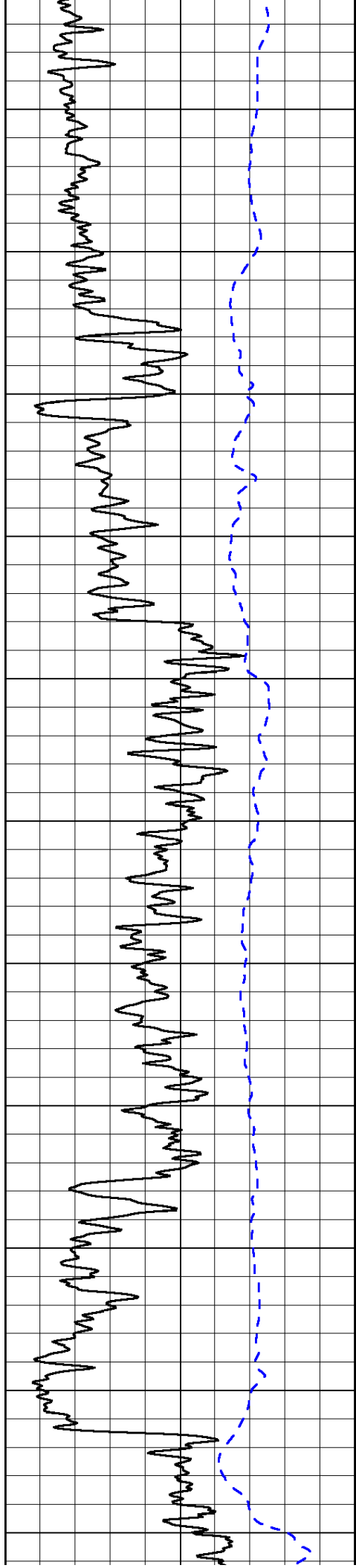
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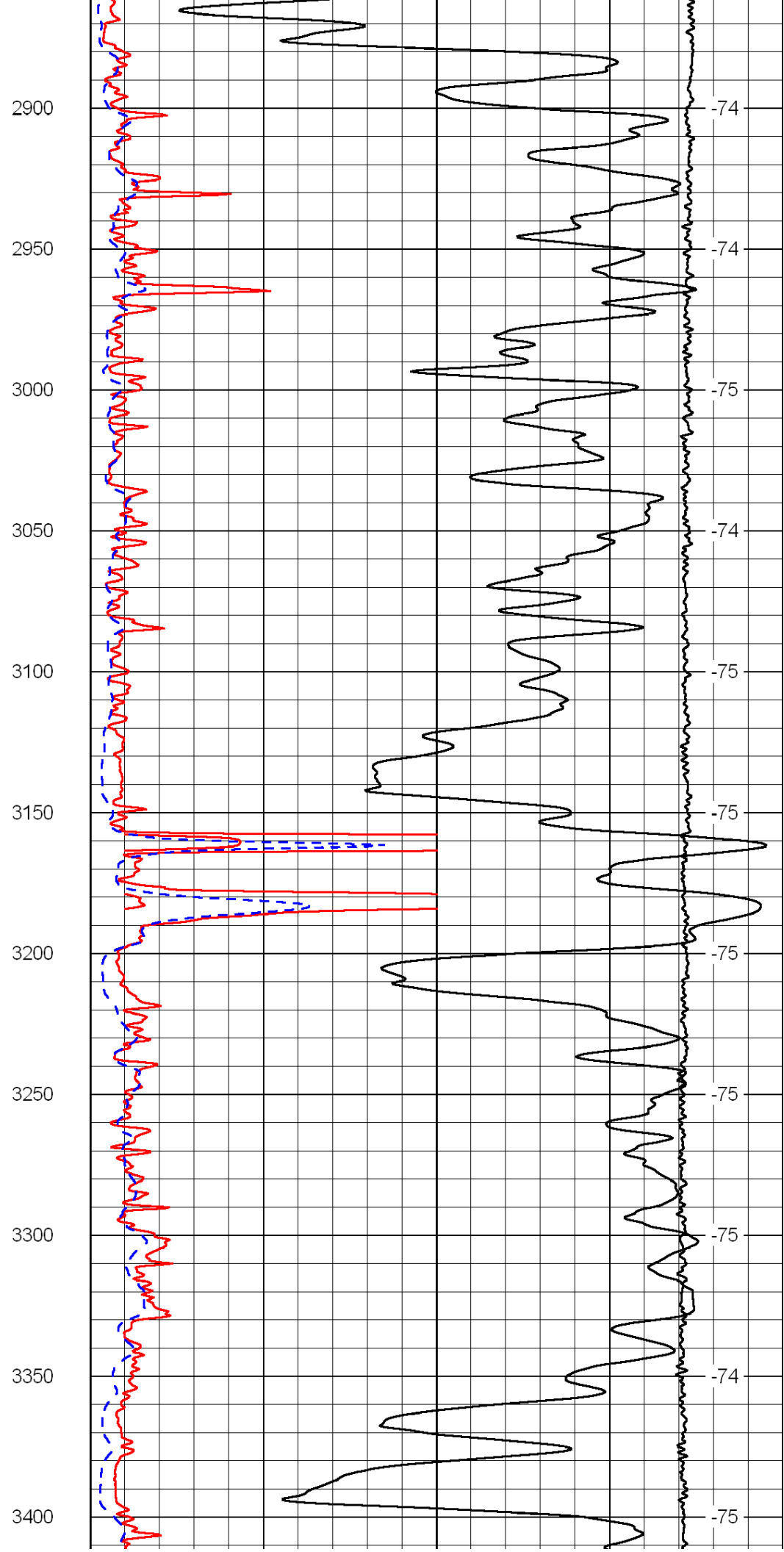
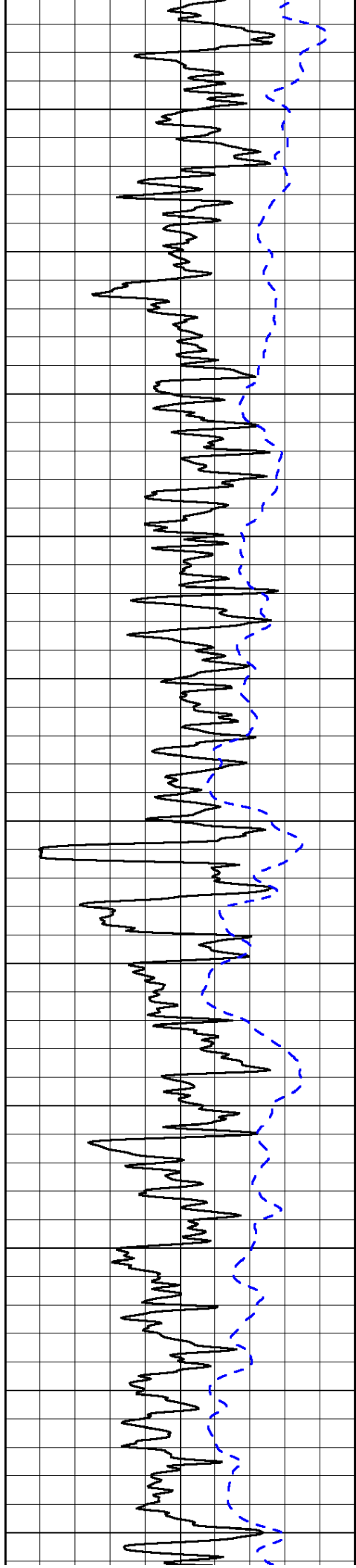
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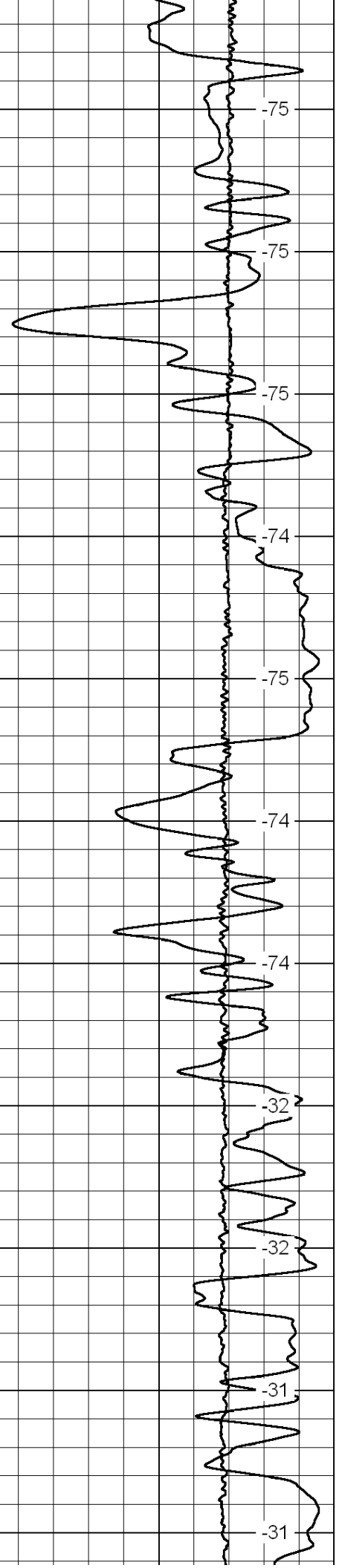
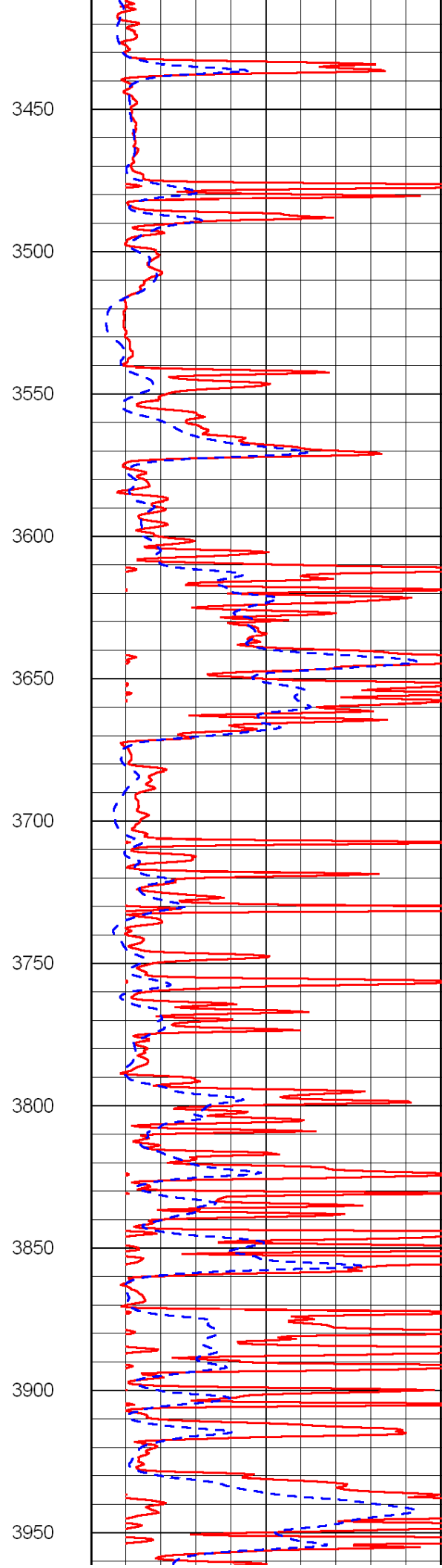
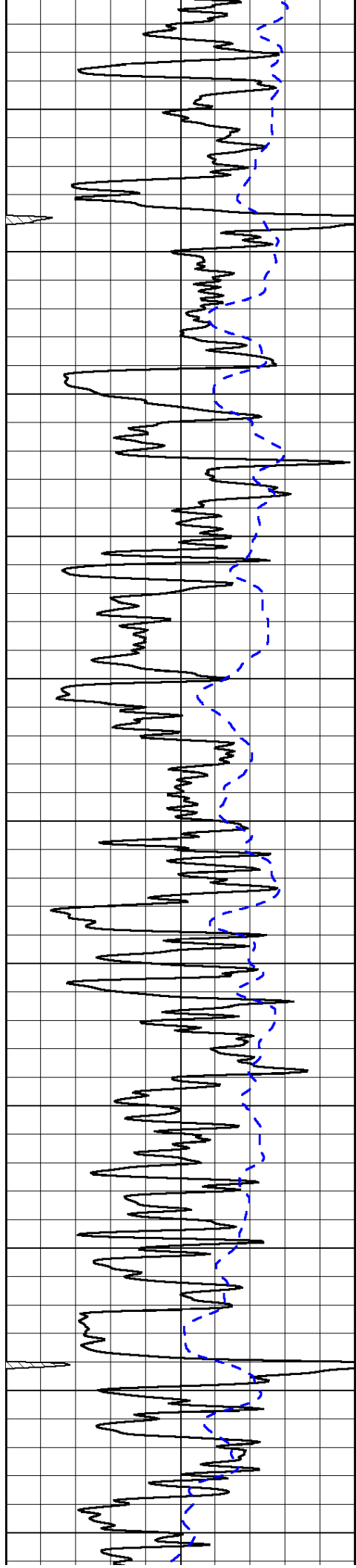


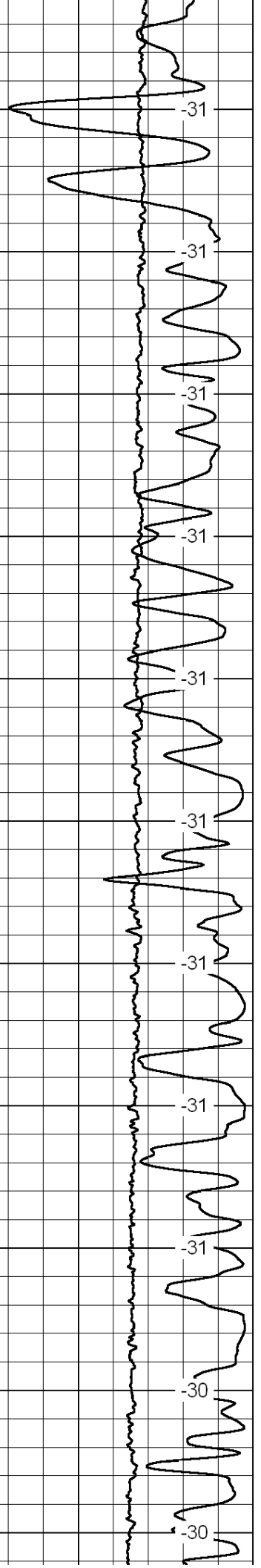
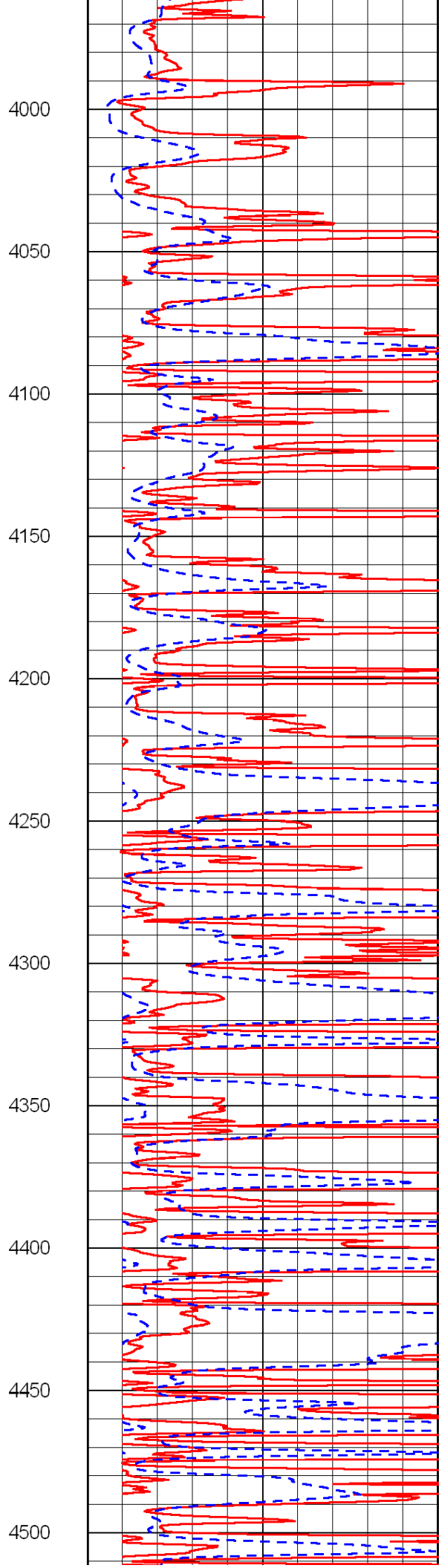
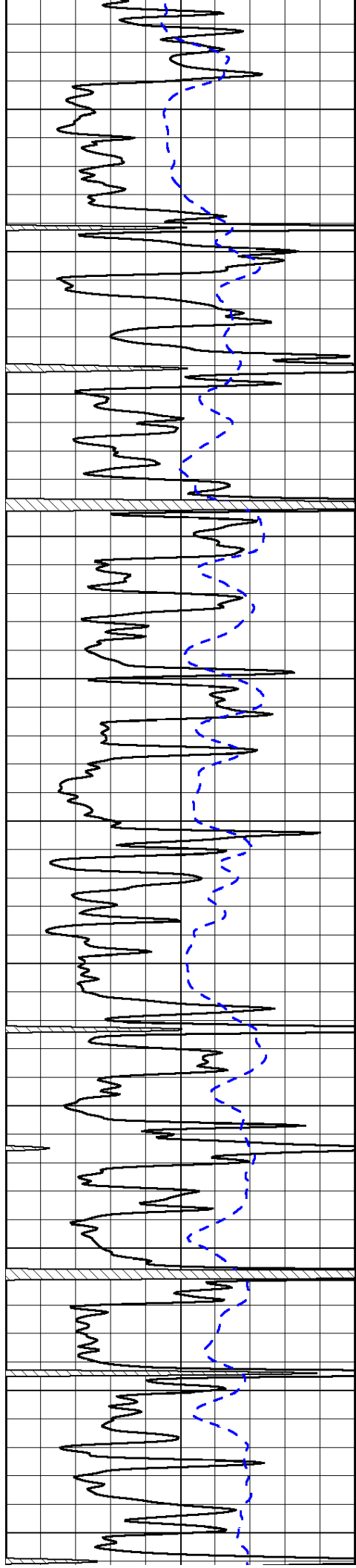


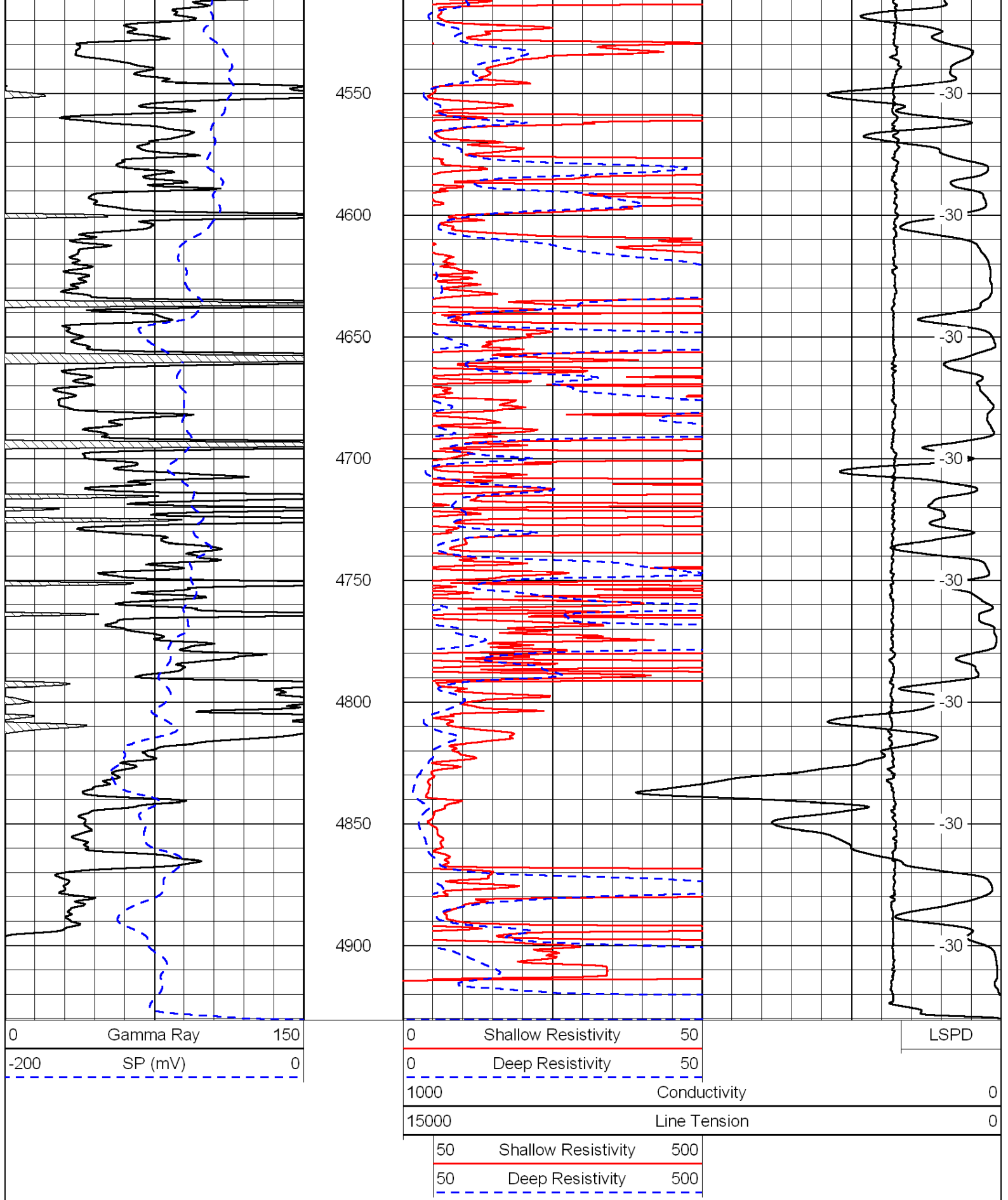










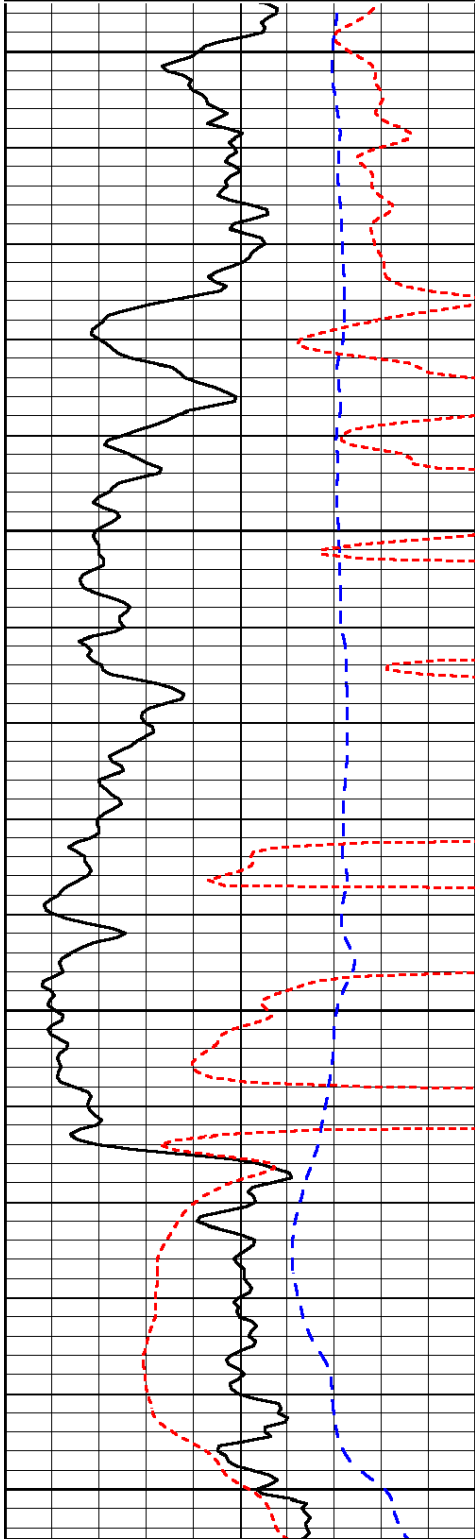


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-200	SP (mV)	0
-160	Rxo / Rt	40

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0.2	Shallow Resistivity	2000
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LSPD

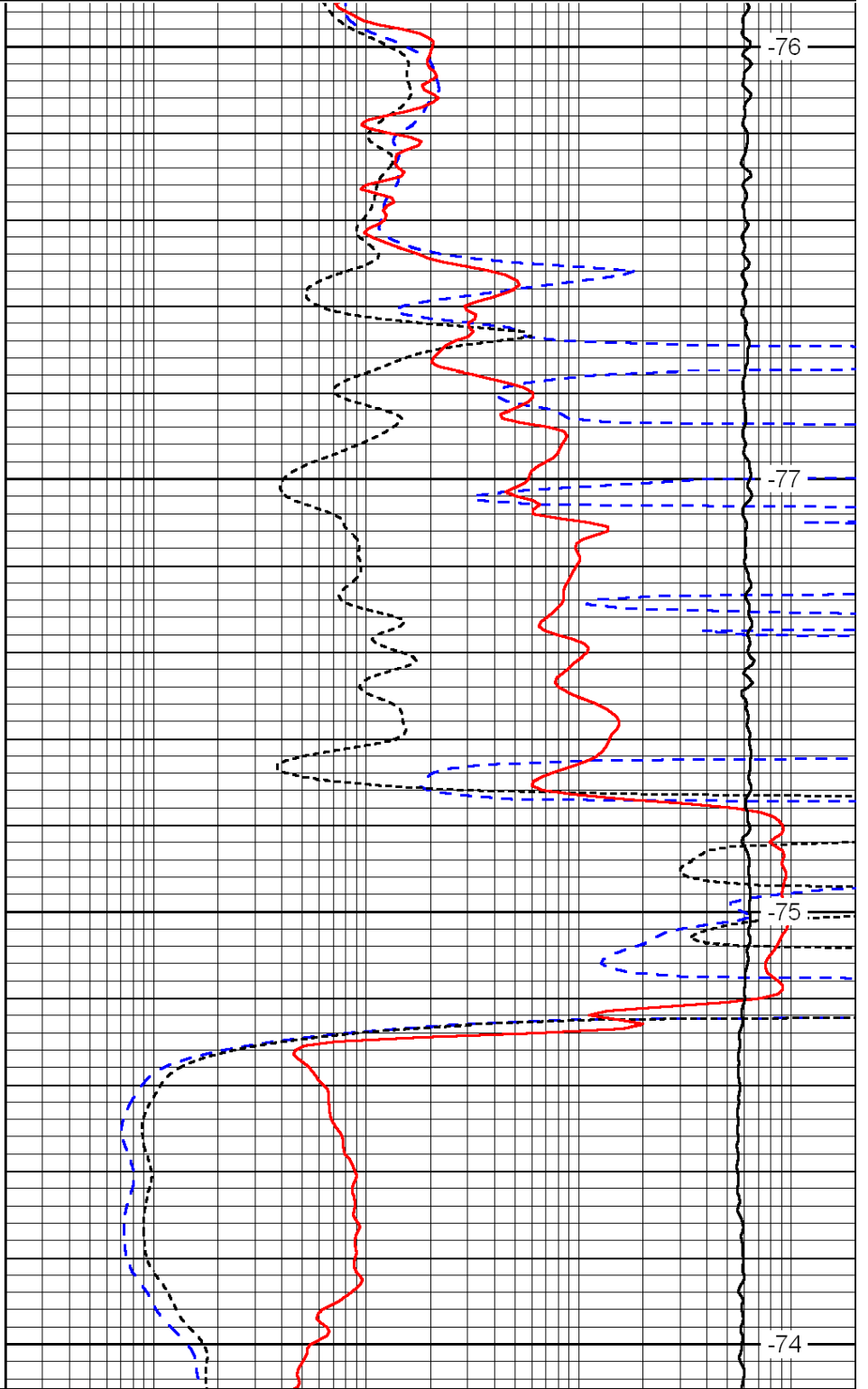


2700

2750

2800

2850



-76

-77

-75

-74

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

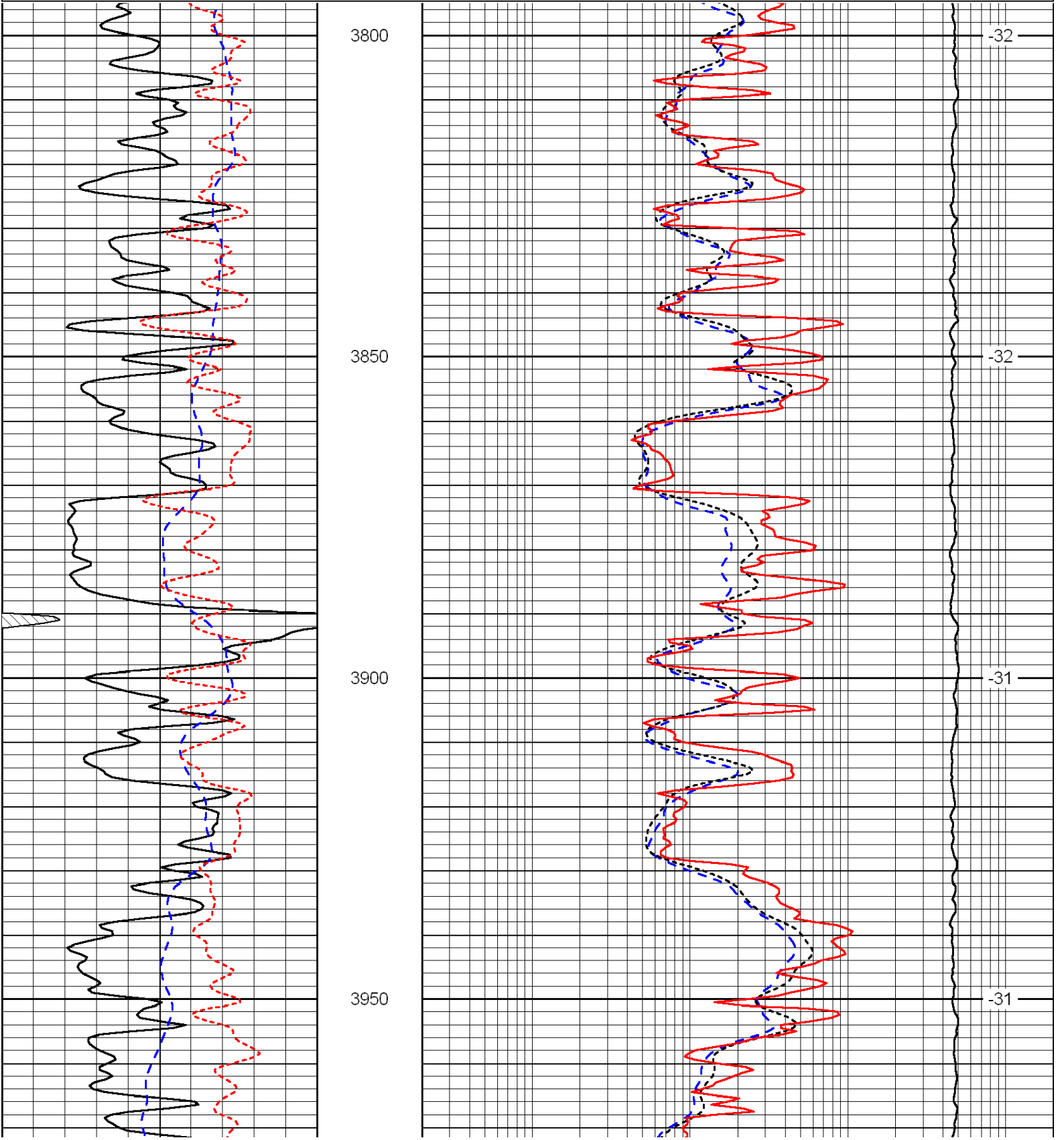
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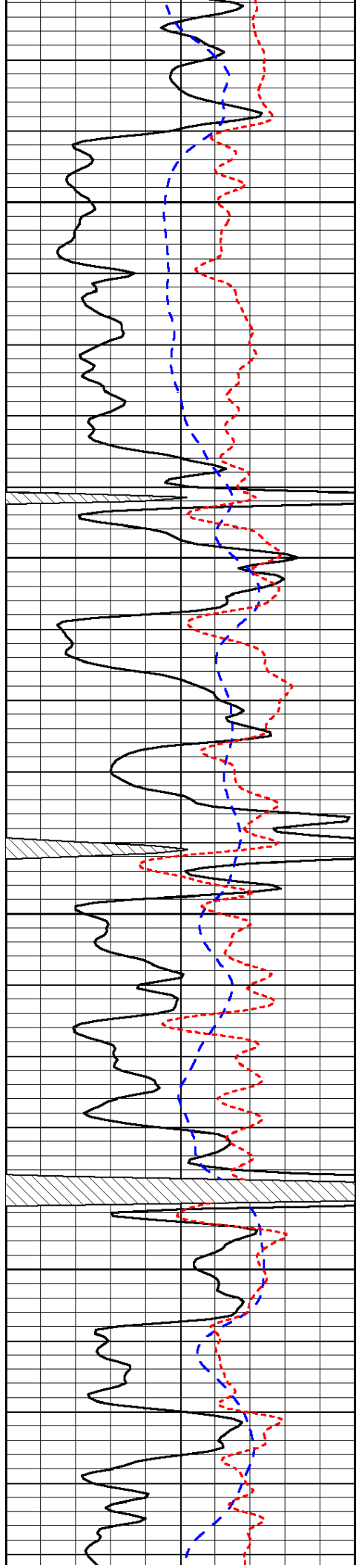
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-200	SP (mV)	0
-160	Rxo / Rt	40

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

LSPD



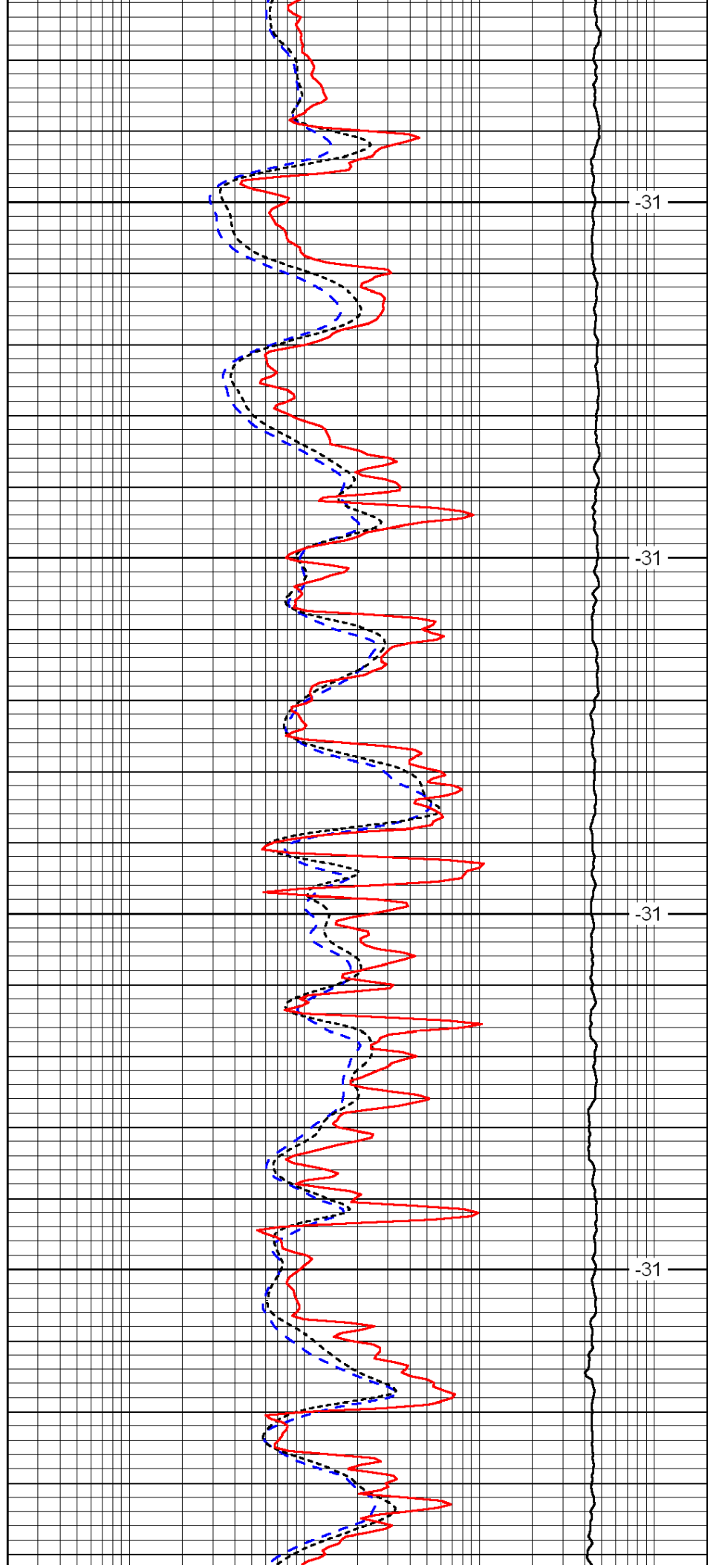


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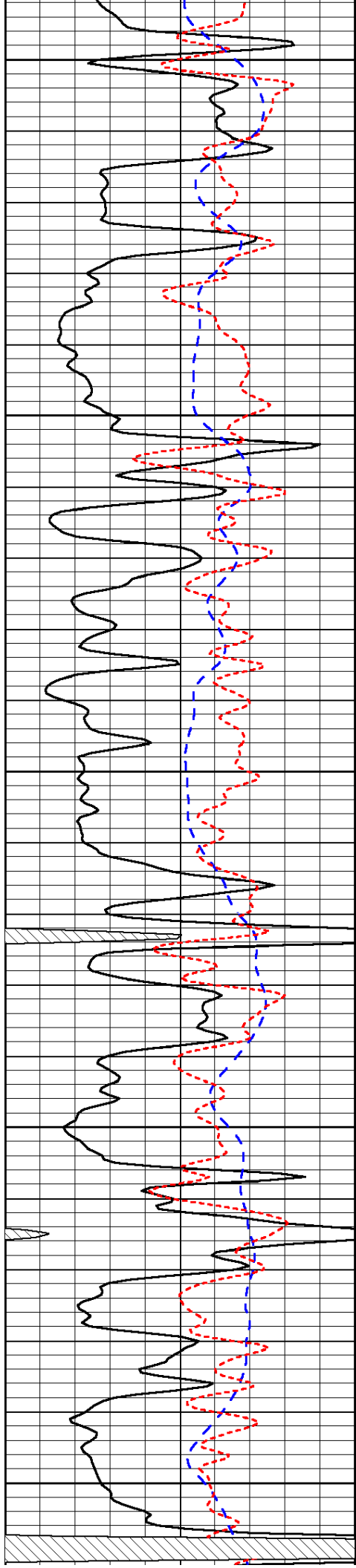


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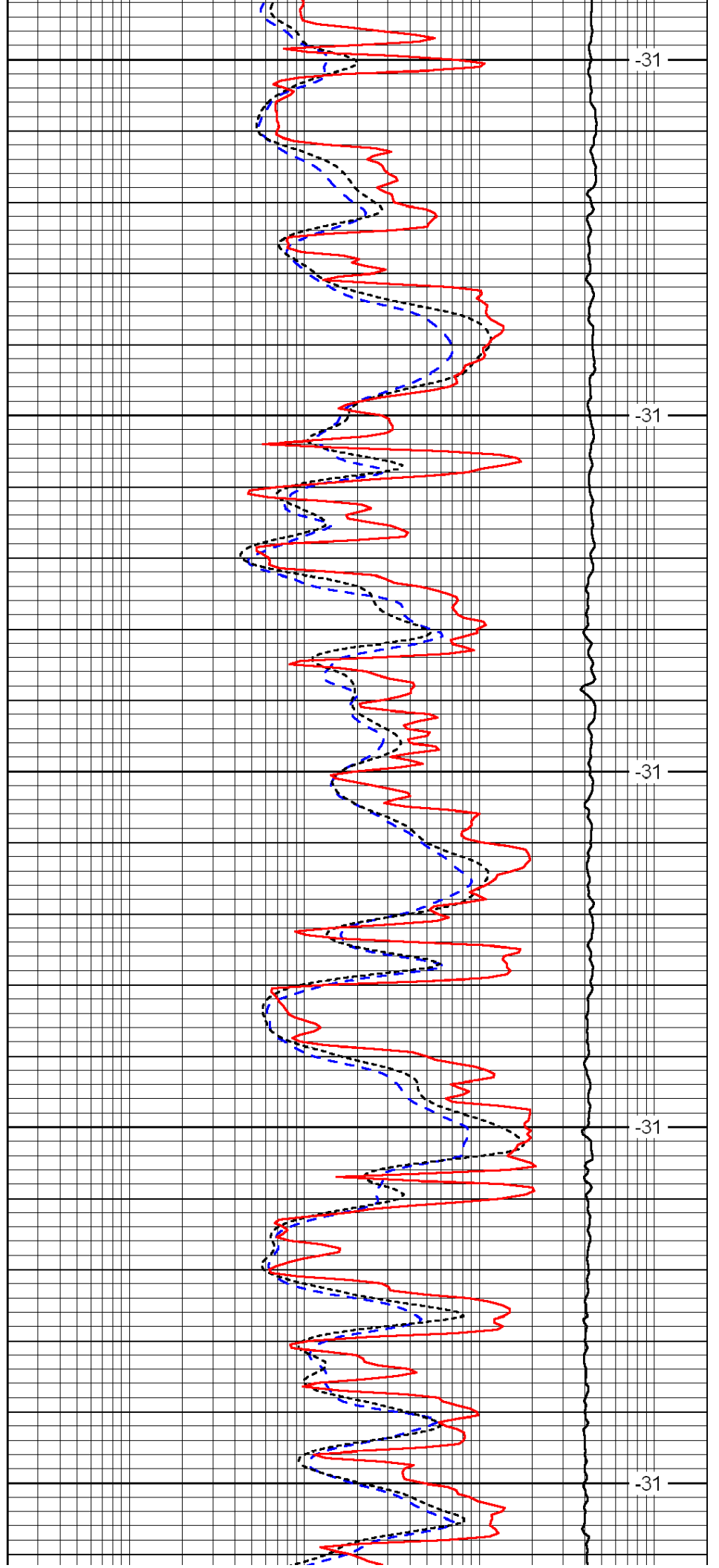
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4300

4350

4400



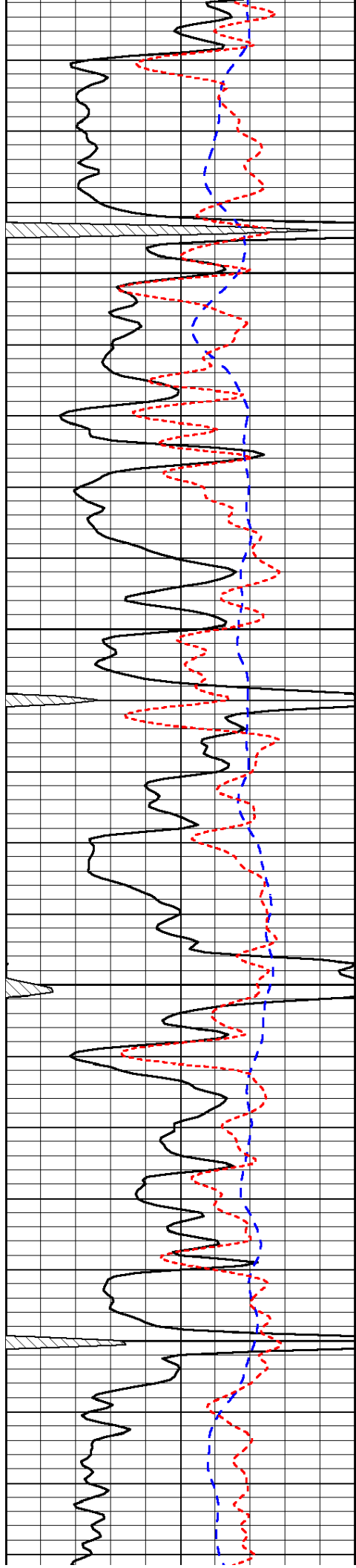
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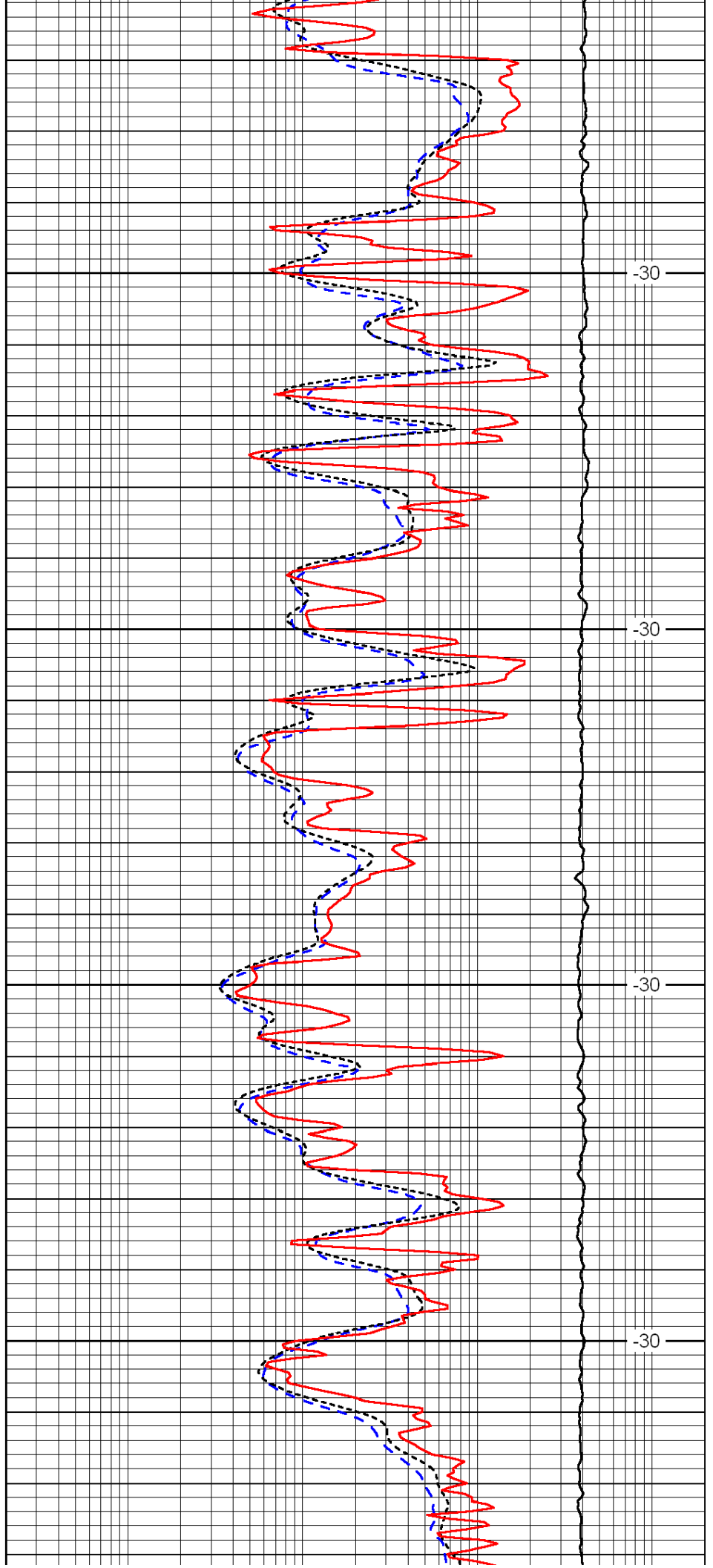


4450

4500

4550

4600

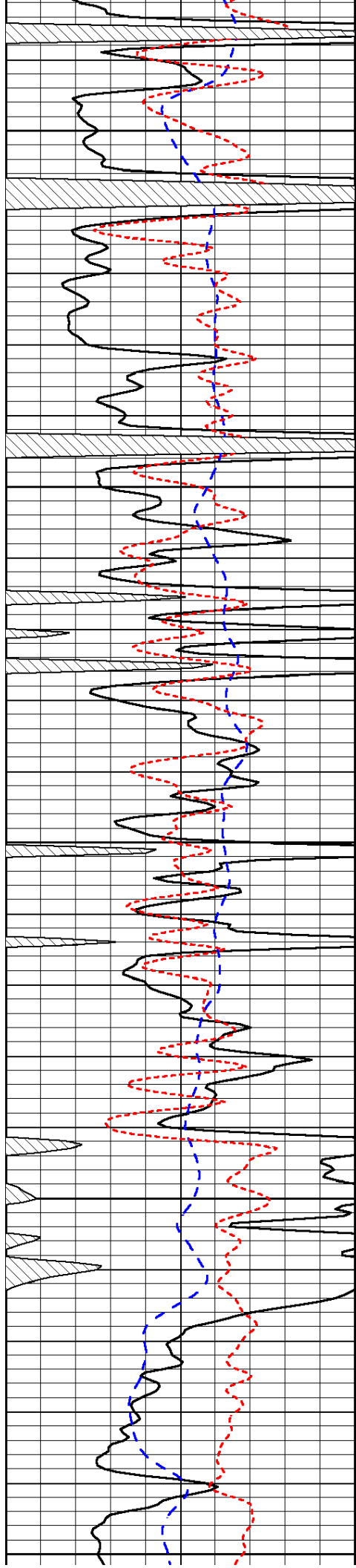


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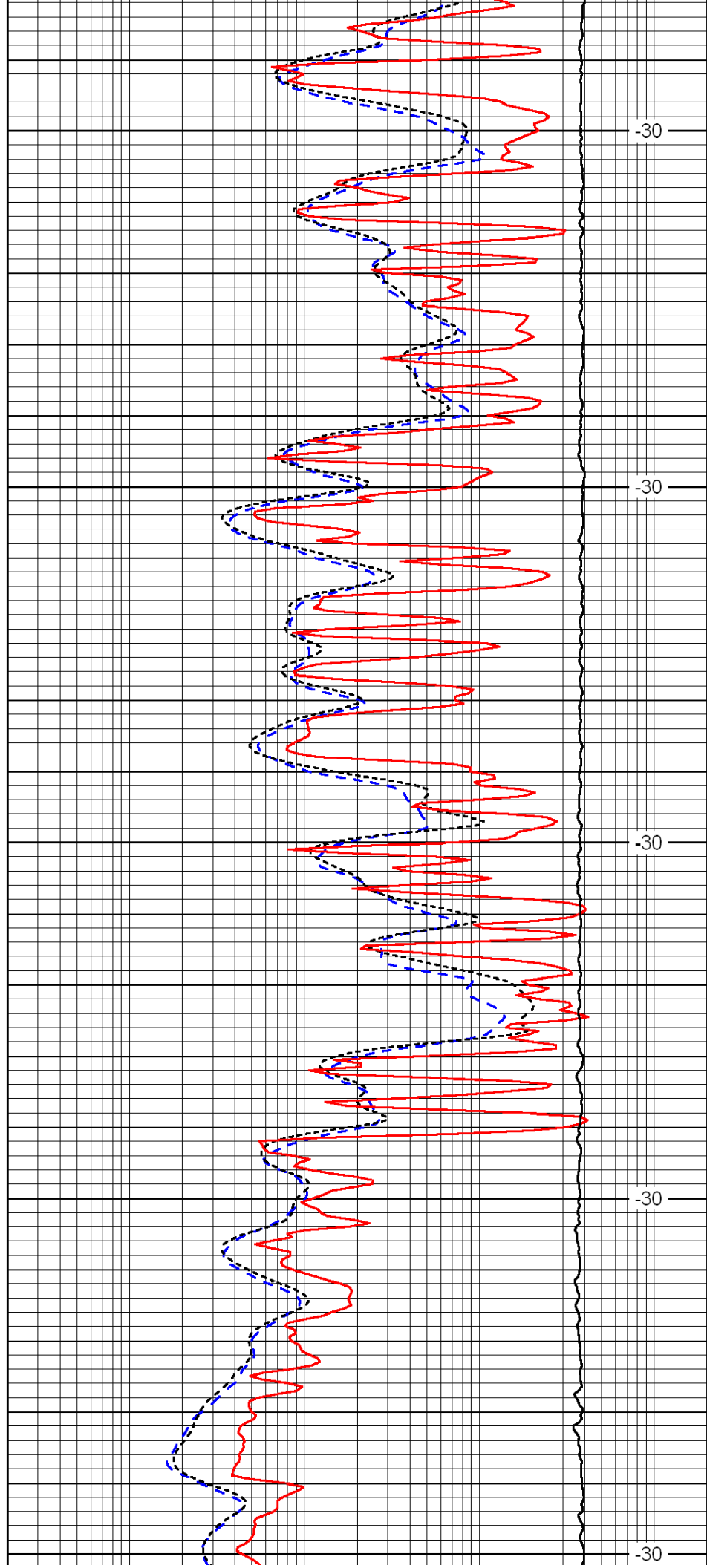
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4700

4750

4800

4850



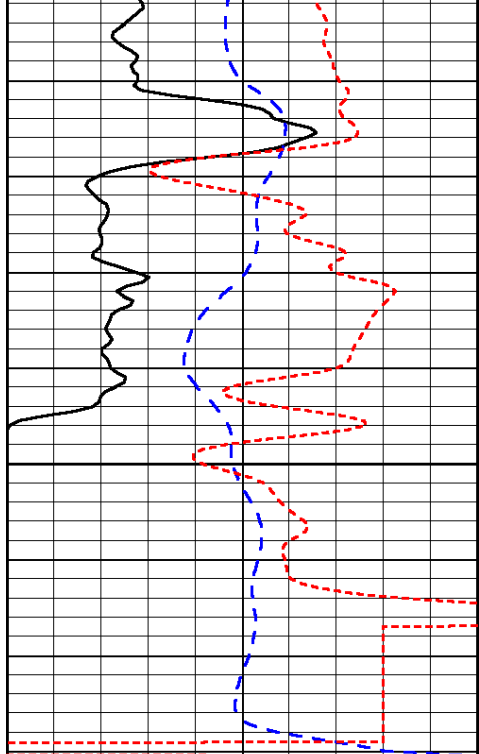
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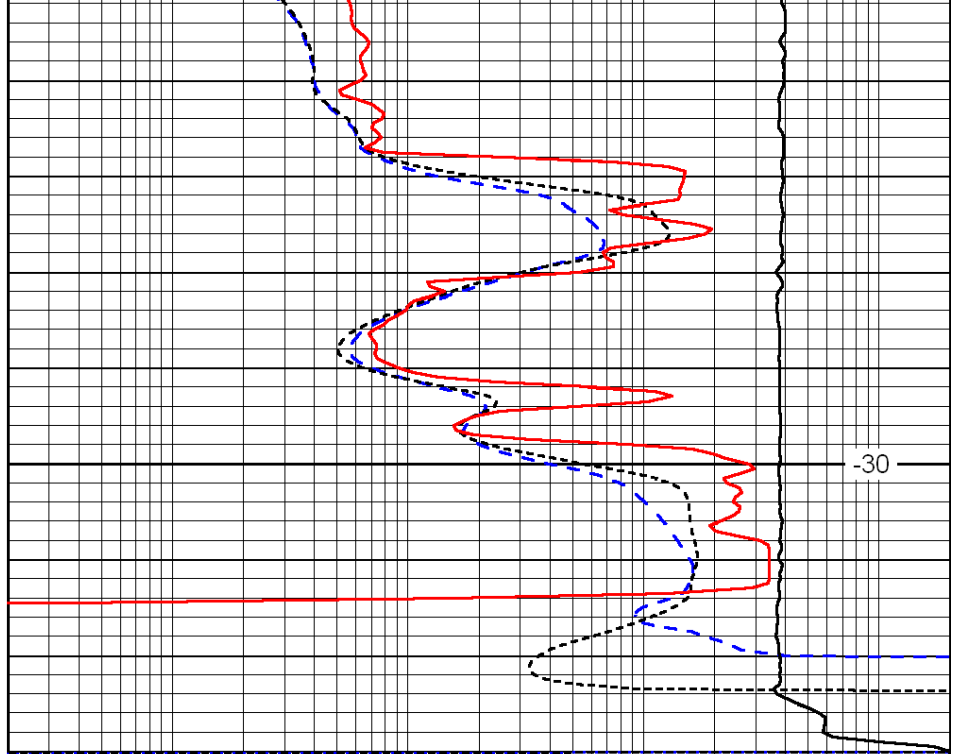
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-30



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

4900



-30

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

LSPD



Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

15-193-20,842-00-00

API No.	Company	Credo Petroleum Corporation
	Well	Mary No.1-22
	Field	Wildcat
	County	Thomas
	State	Kansas
Location	330' FSL & 2150' FWL	
Sec: 22	Twp: 10S	Rge: 35W
Permanent Datum	Ground Level	Elevation 3279
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	3/11/2012	Elevation
Run Number	One	K.B. 3284
Type Log	CNL / CDL	D.F. G.L. 3279
Depth Driller	4920	
Depth Logger	4923	
Bottom Logged Interval	4902	
Top Logged Interval	3800	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	7,000	
Density	9.4	
Level	Full	
Max. Rec. Temp. F	125	
Operating Rig Time	4 1/2 Hours	
Equipment -- Location	17 Hays	
Recorded By	C. Desaire	
Witnessed By	Bruce Ard	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	238	8.625	24#	00	238
2	7.875	238	4920				

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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.

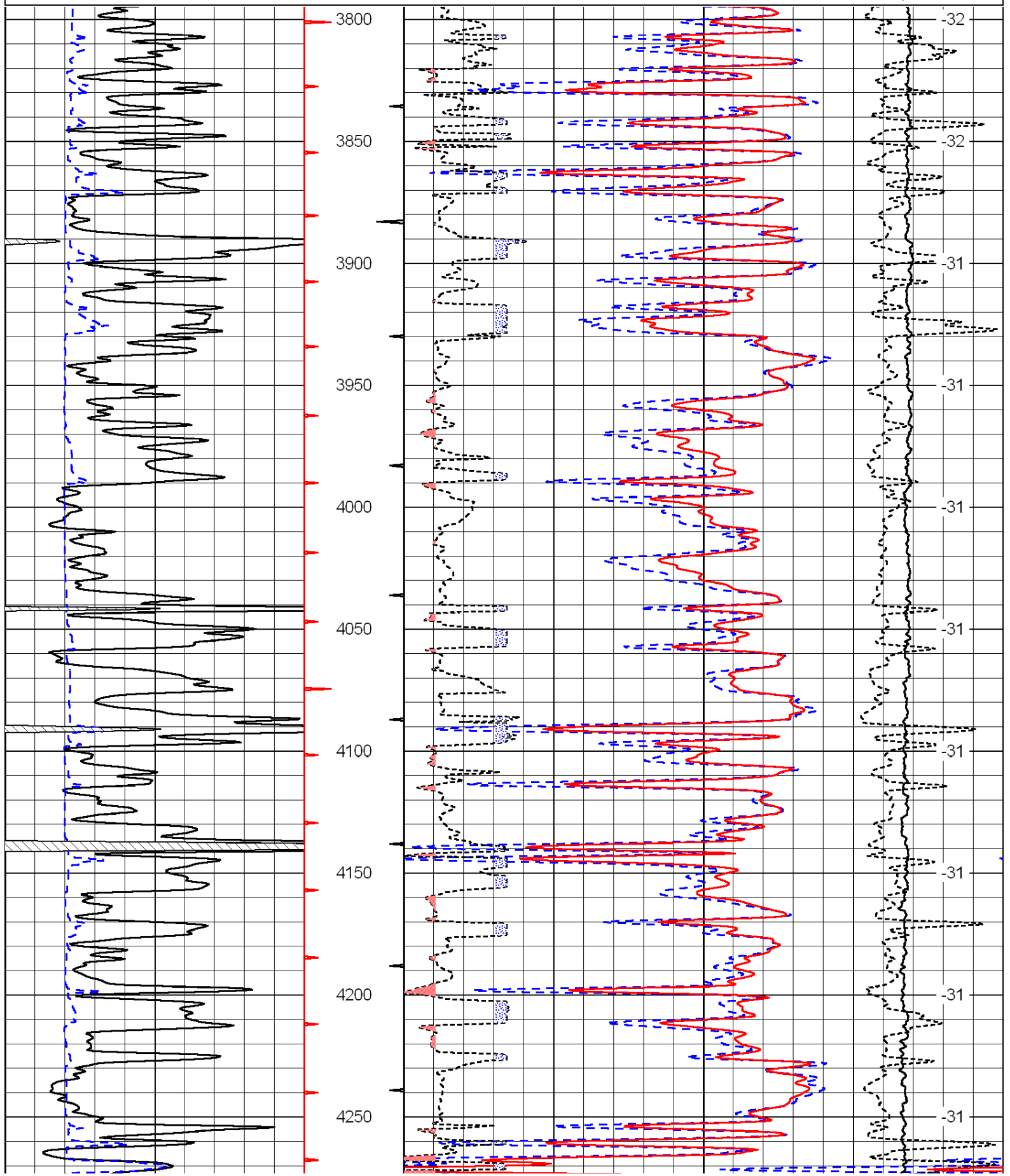
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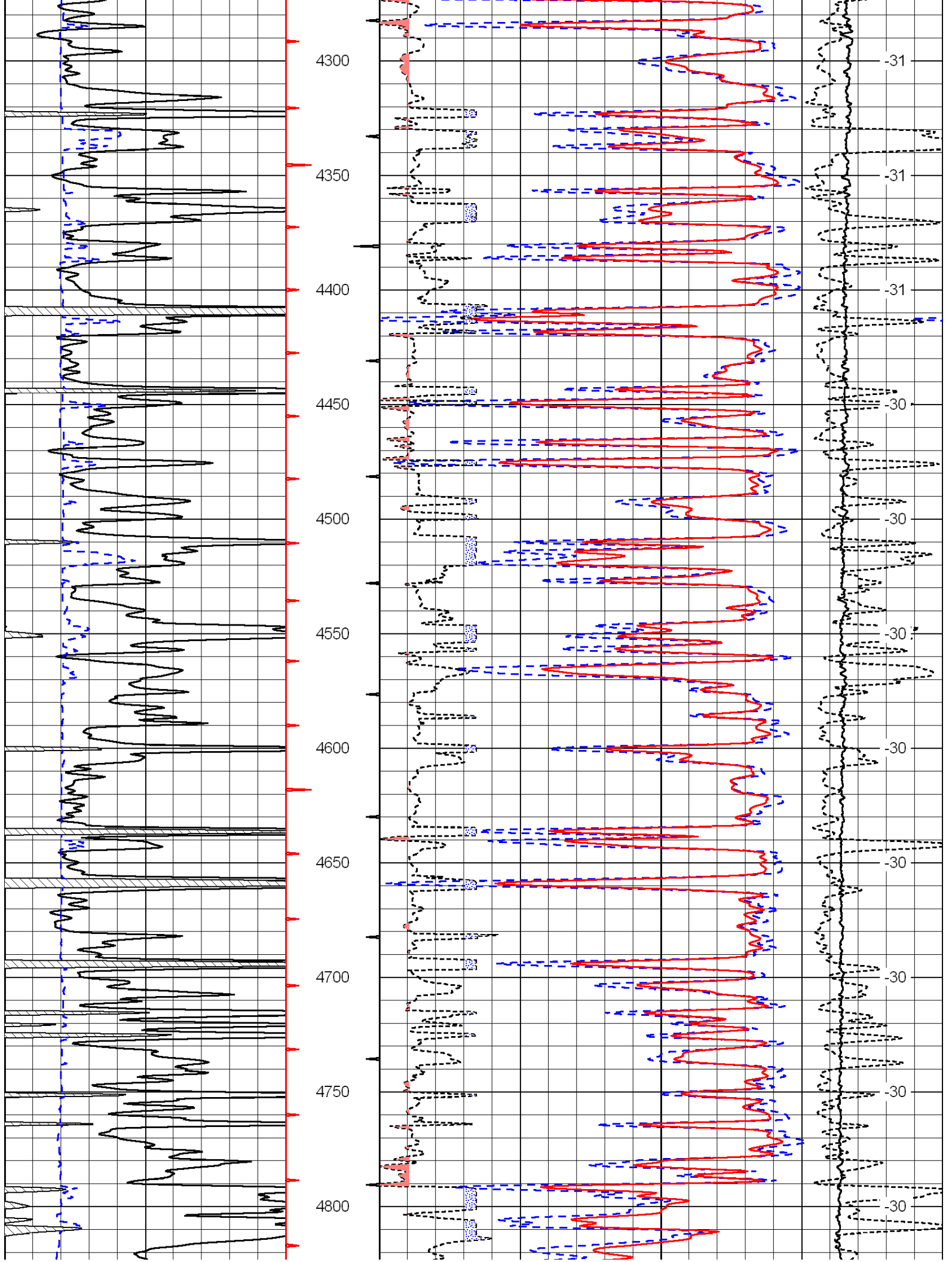
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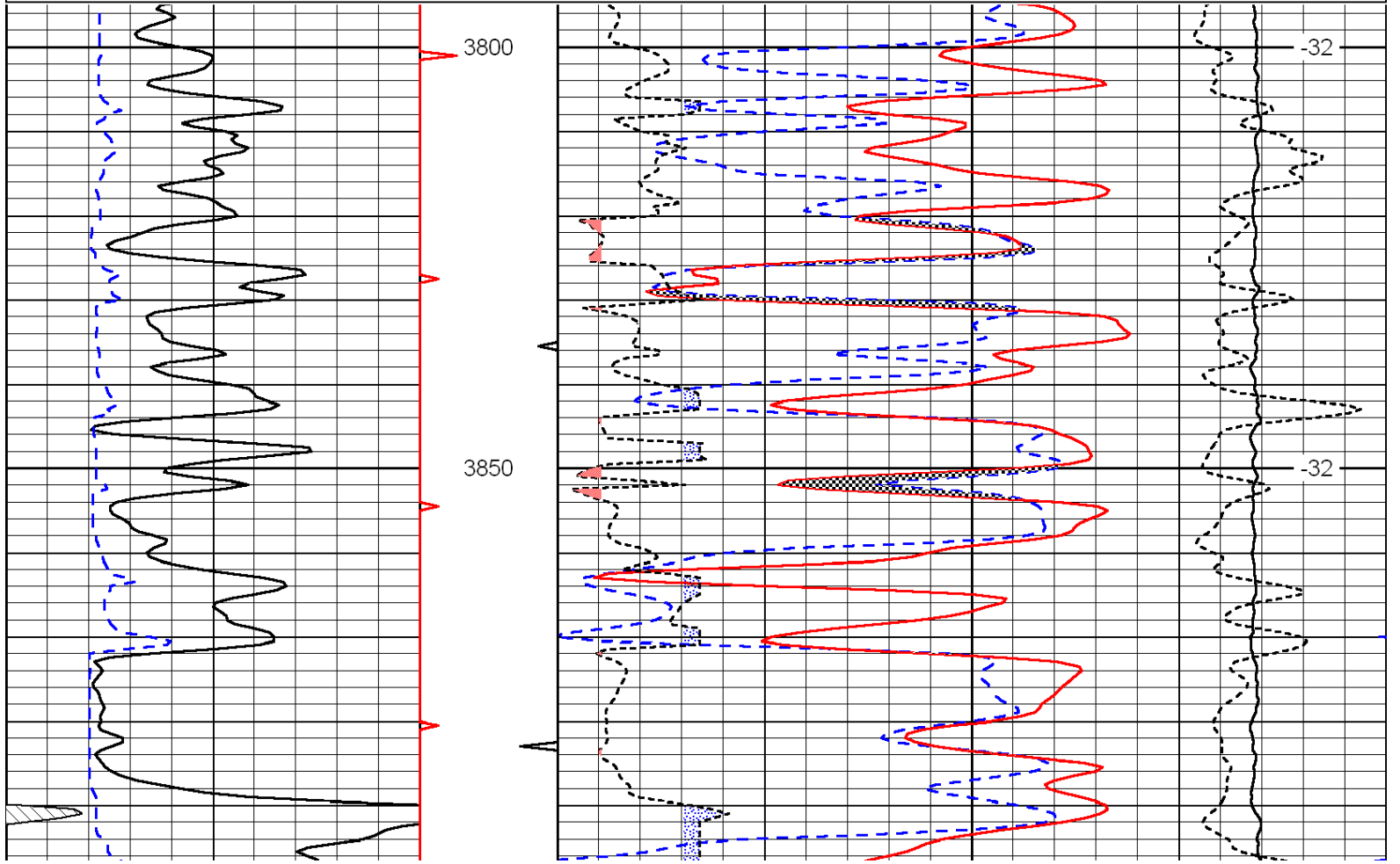
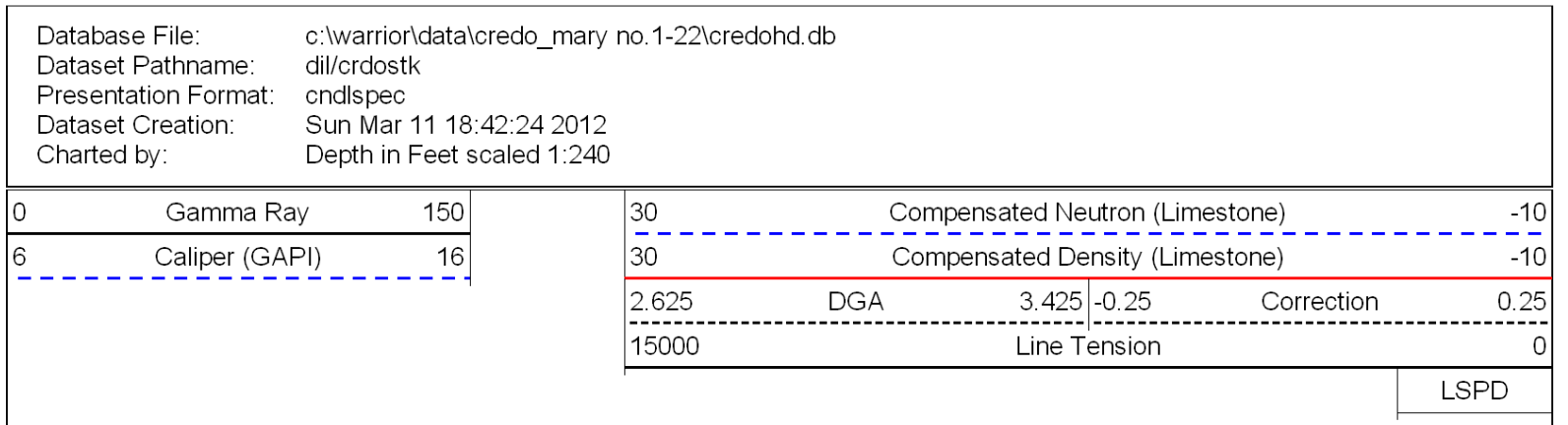
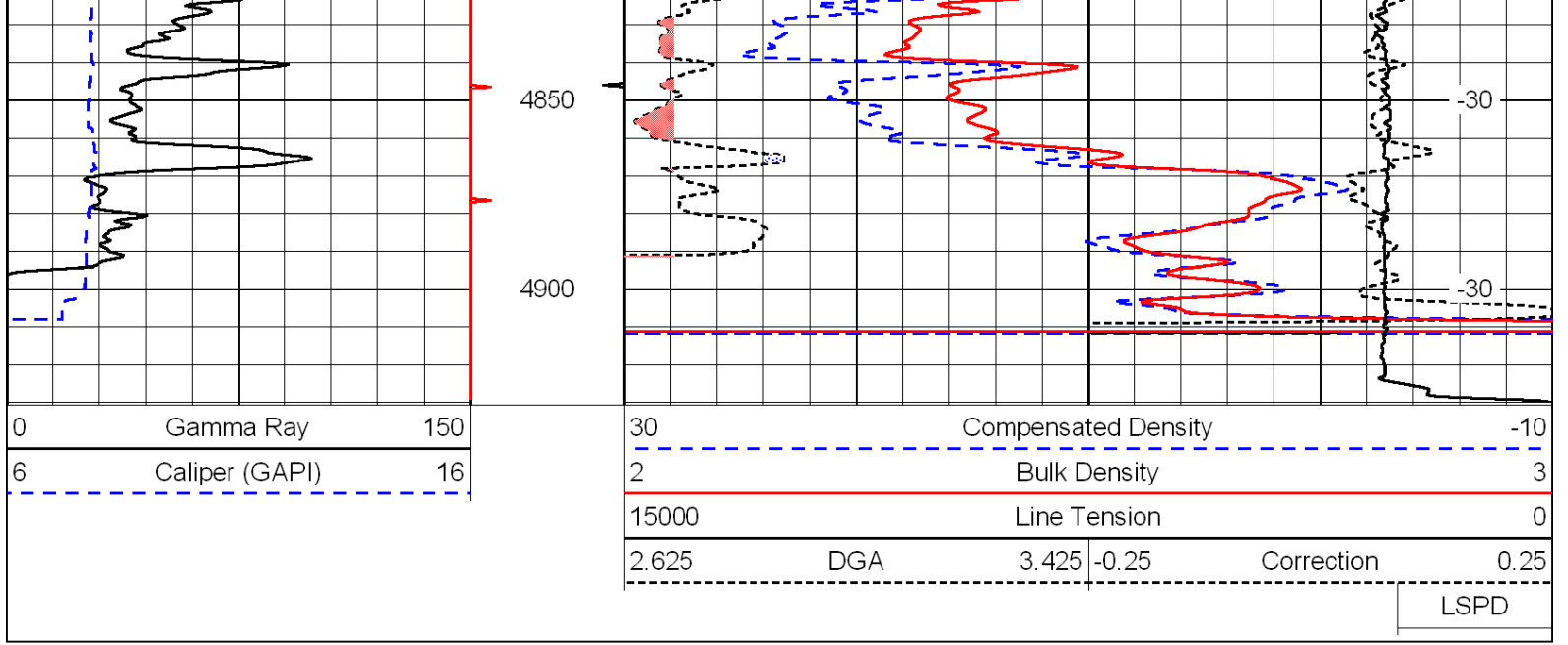
I-70 and Levant Exit,
13 3/4 S, W-S-W Into

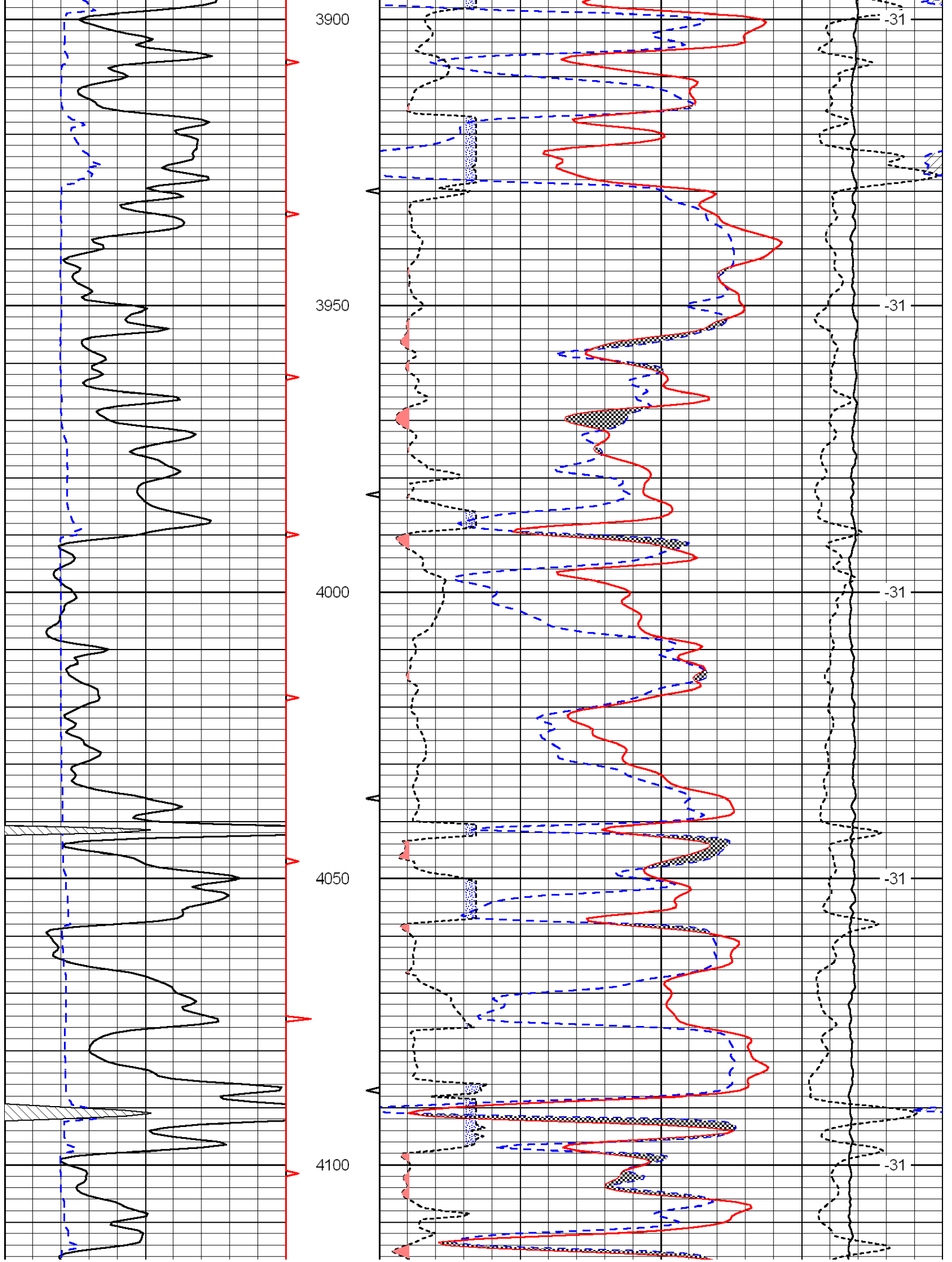
0	Gamma Ray	150
6	Caliper (GAPI)	16

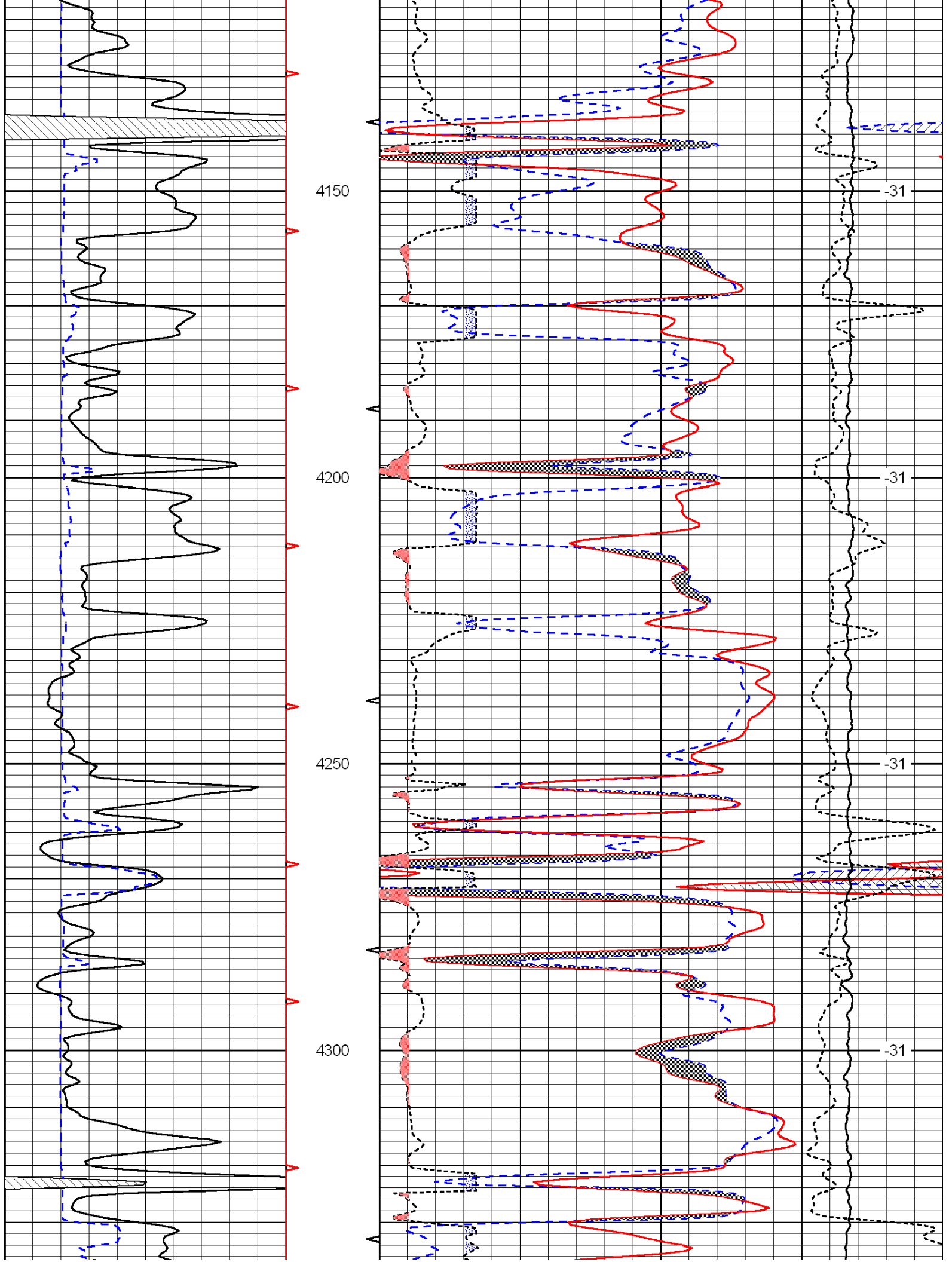
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

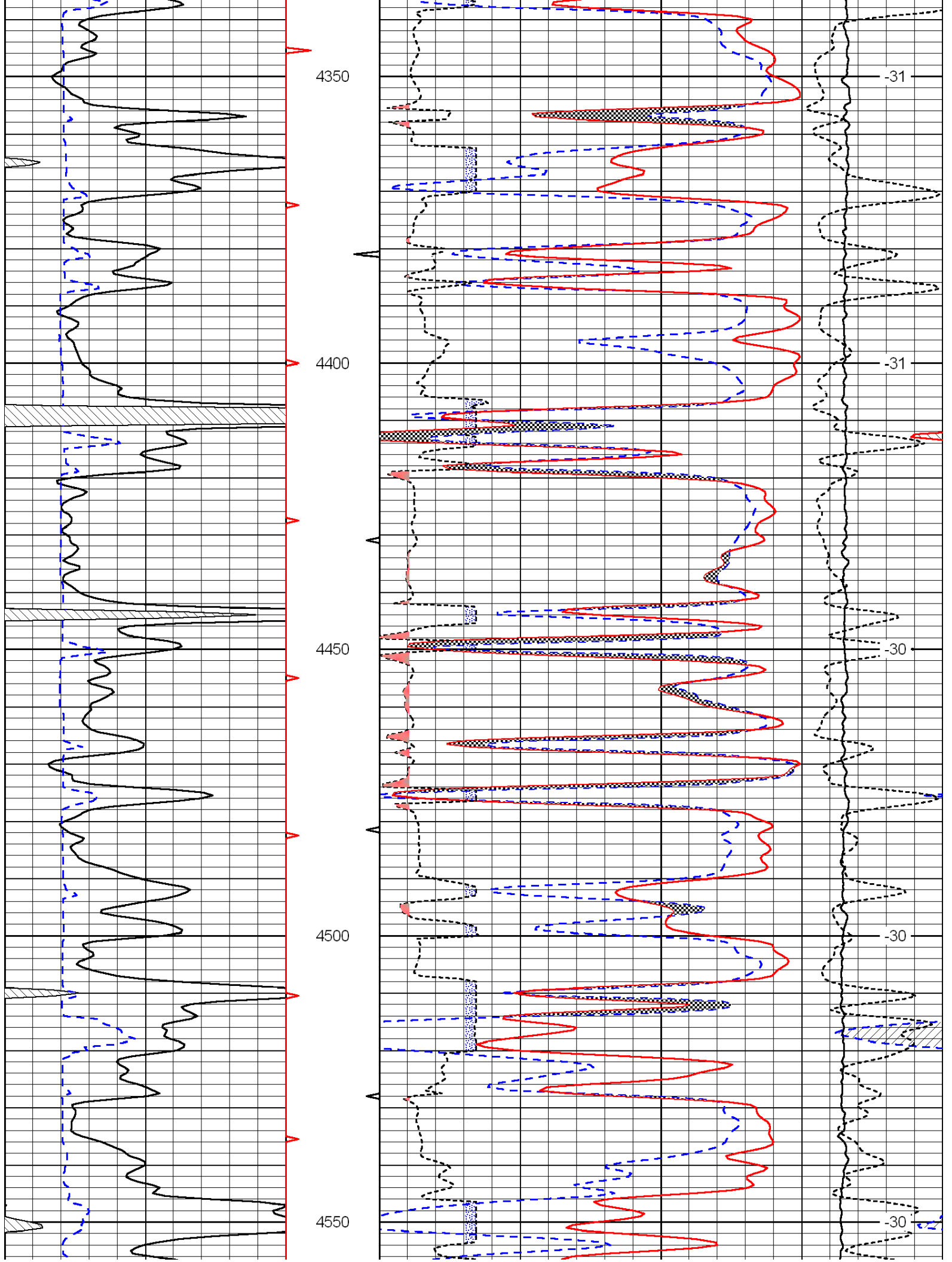


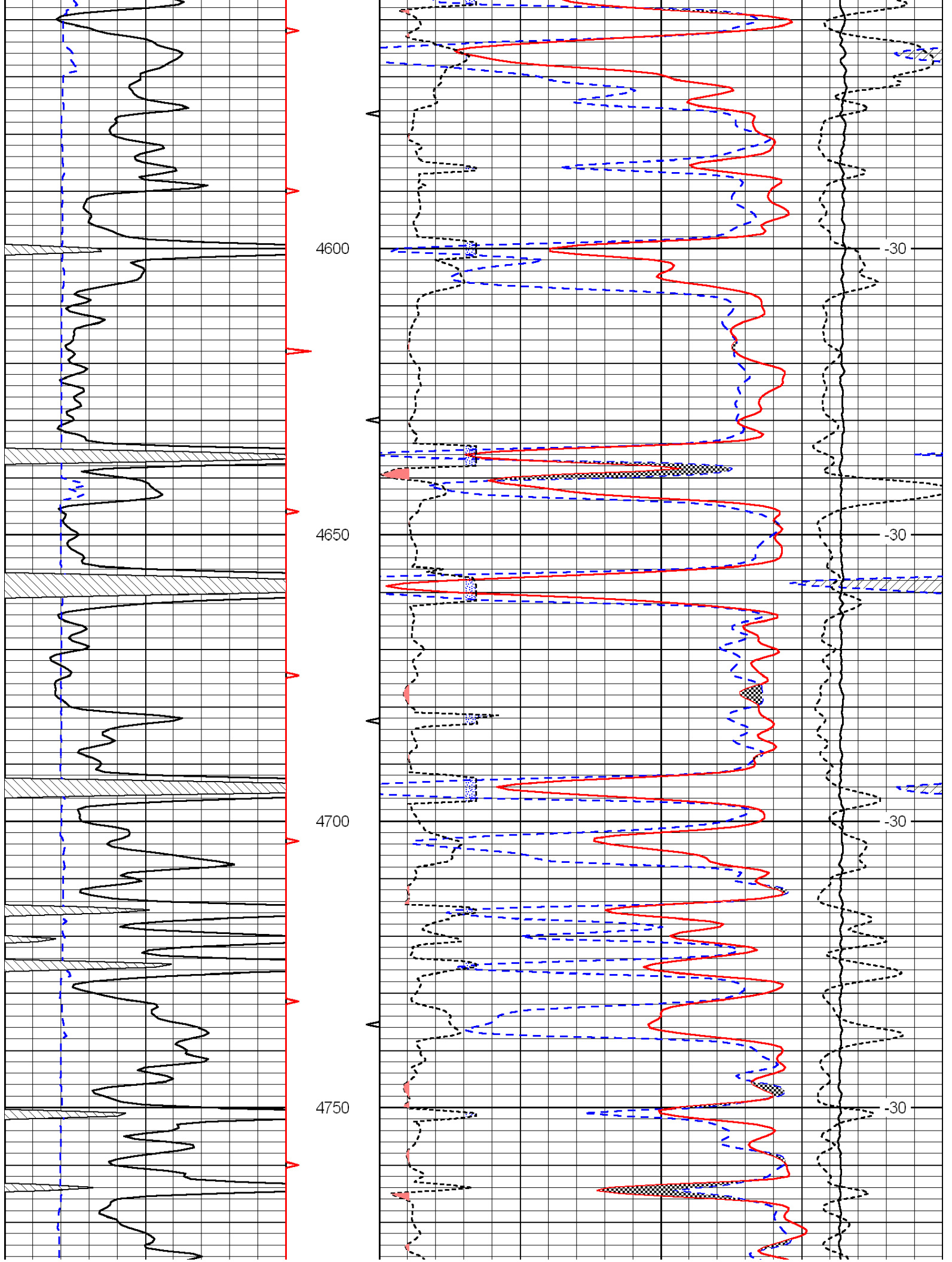


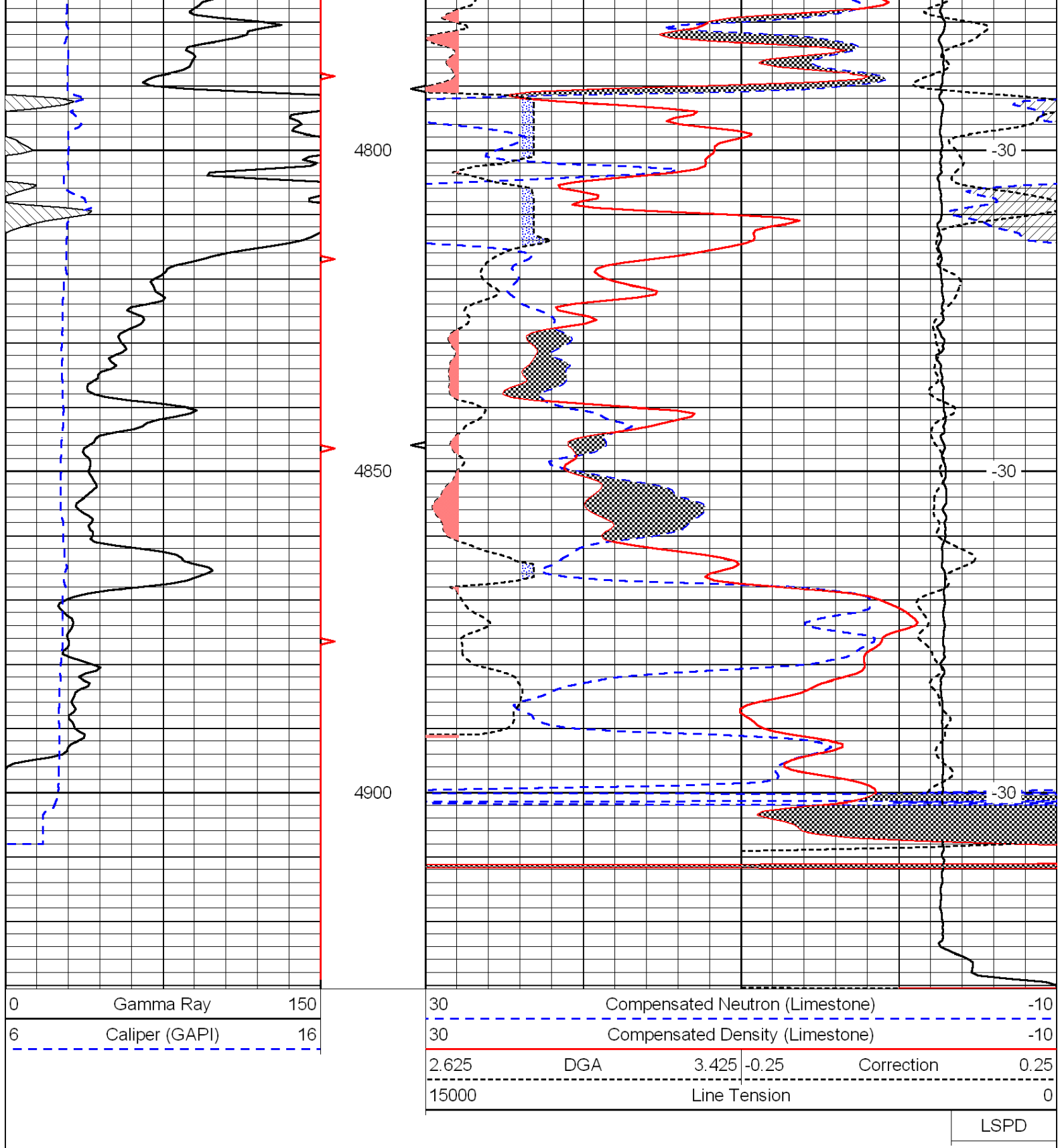














Microresistivity Log

DIGITAL LOG (785) 625-3858

API No. 15-193-20,842-00-00

Company	Credo Petroleum Corporation		
Well	Mary No.1-22		
Field	Wildcat		
County	Thomas	State	Kansas
Location	330' FSL & 2150' FWL		
Sec: 22	Twp: 10S	Rge: 35W	Other Services CNL/CDL DIL/BHCS
Permanent Datum	Ground Level	Elevation 3279	Elevation
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	K.B. 3284
Drilling Measured From	Kelly Bushing		D.F. 3279
			G.L. 3279

Date	3/11/2012	
Run Number	Two	
Depth Driller	4920	
Depth Logger	4923	
Bottom Logged Interval	4922	
Top Log Interval	3800	
Casing Driller	8.625 @ 238	
Casing Logger	237	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity,ppm CL	7.000	
Density / Viscosity	9.4	59
pH / Fluid Loss	10.5	8.0
Source of Sample	Flowline	
Rm @ Meas. Temp	.35	@ 64
Rmf @ Meas. Temp	.26	@ 64
Rmc @ Meas. Temp	.47	@ 64
Source of Rmf / Rmc	Charts	
Rm @ BHT	.18	@ 125
Operating Rig Time	4 1/2 Hours	
Max Rec. Temp. F	125	
Equipment Number	17	
Location	Hays	
Recorded By	C. Desaiie	
Witnessed By	Bruce Ard	

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Comments

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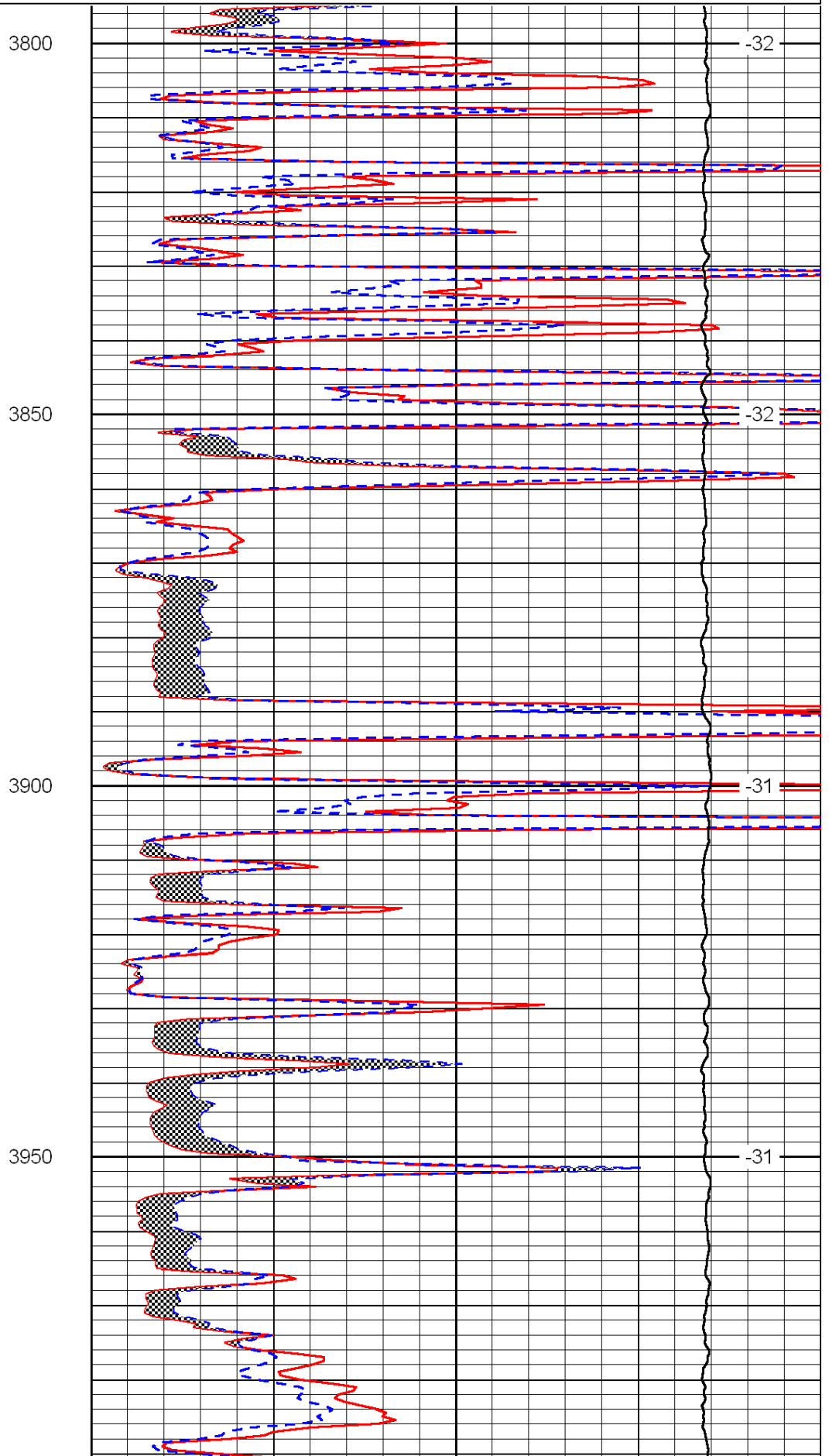
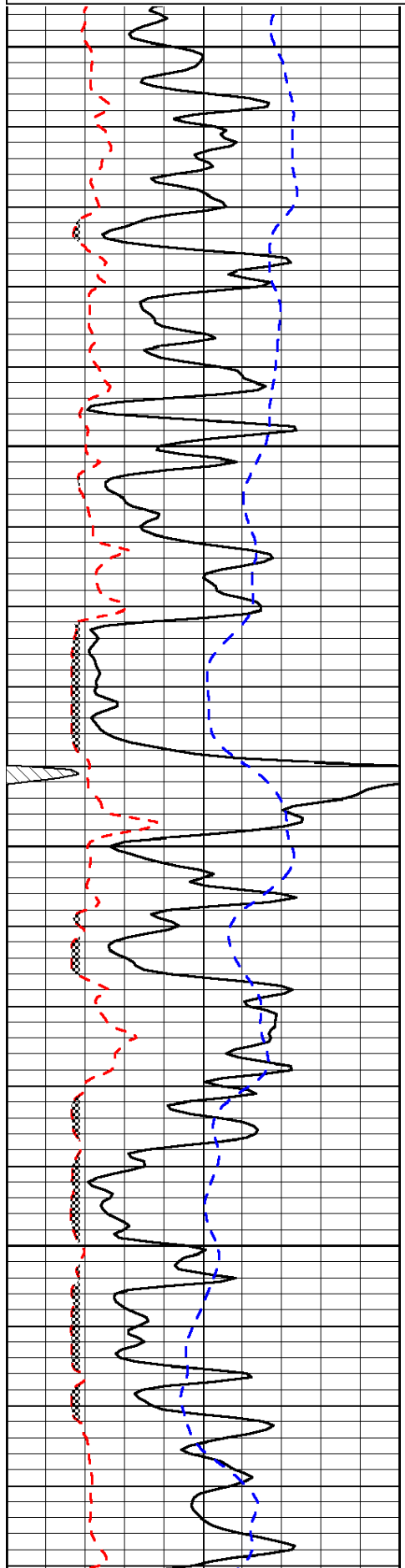
I-70 and Levant Exit,
 13 3/4 S, W-S-W Into

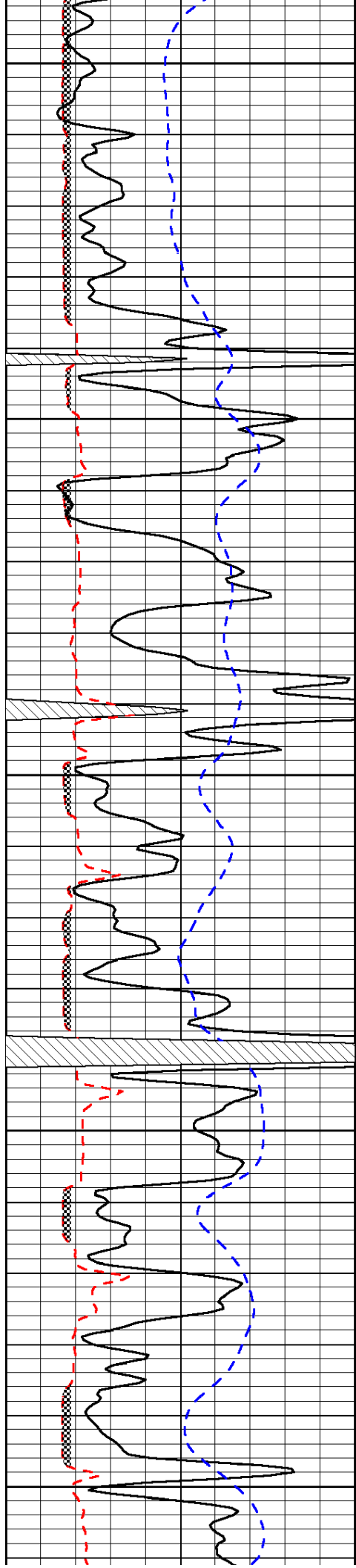
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 Dataset Pathname: dil/crdostk
 Presentation Format: micro
 Dataset Creation: Sun Mar 11 18:42:24 2012
 Charted by: Depth in Feet scaled 1:240

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





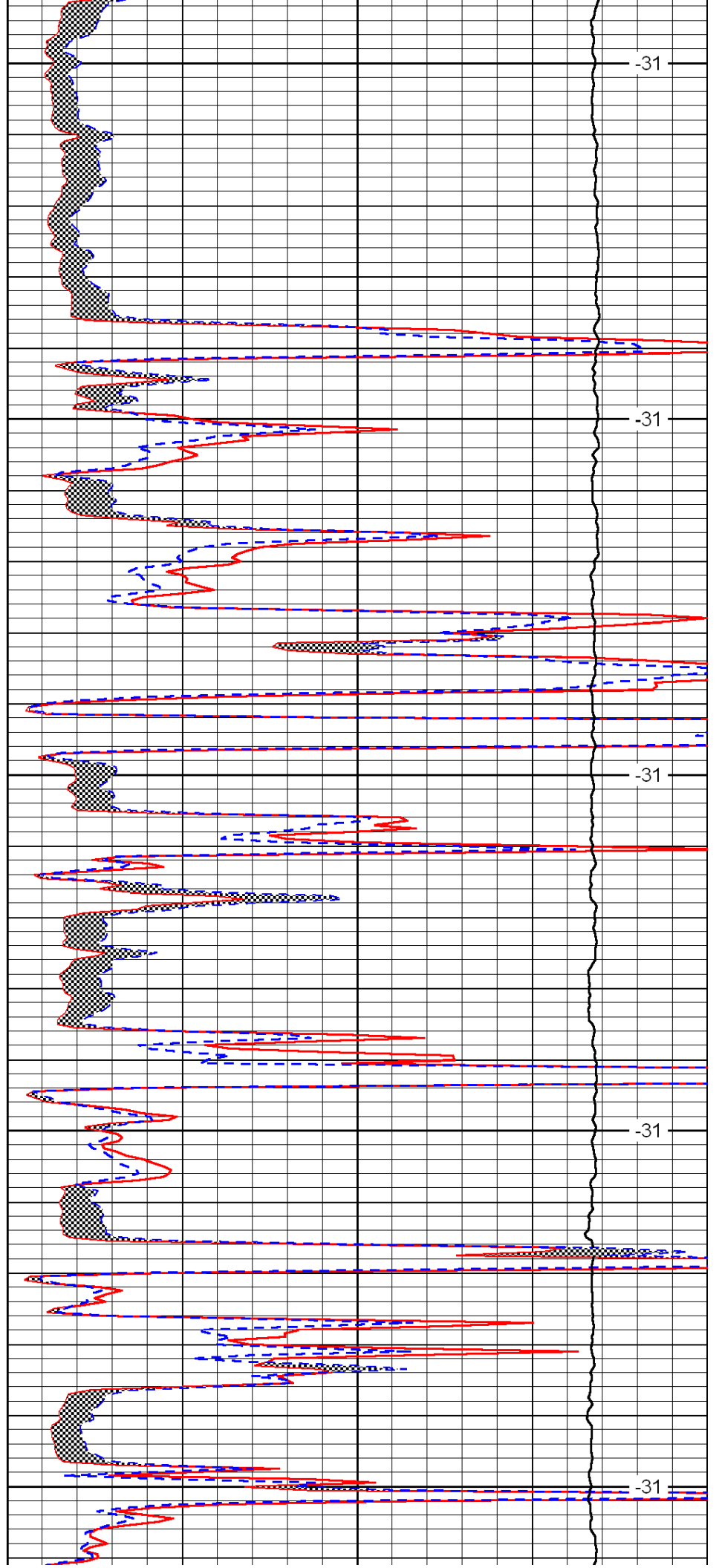
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4050

4100

4150

4200



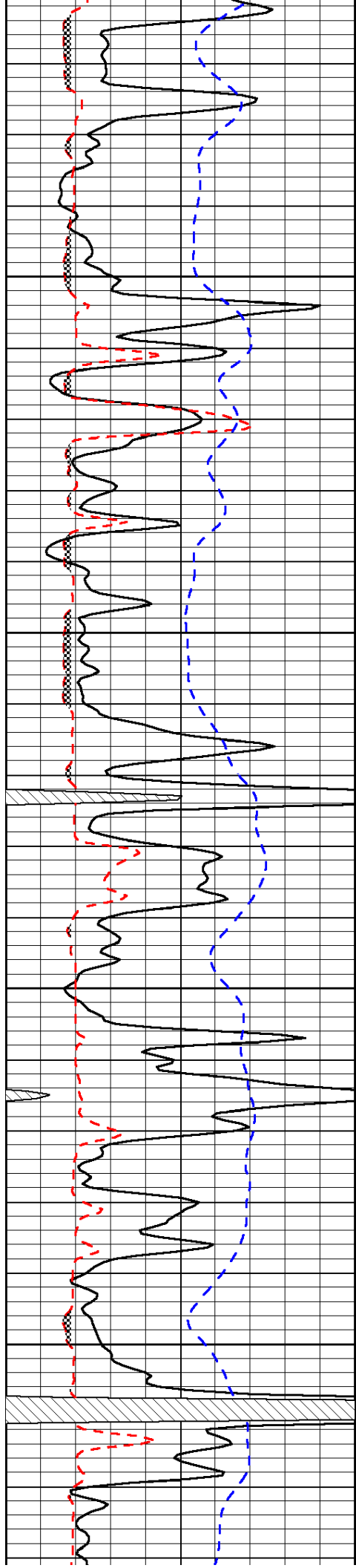
-31

-31

-31

-31

-31

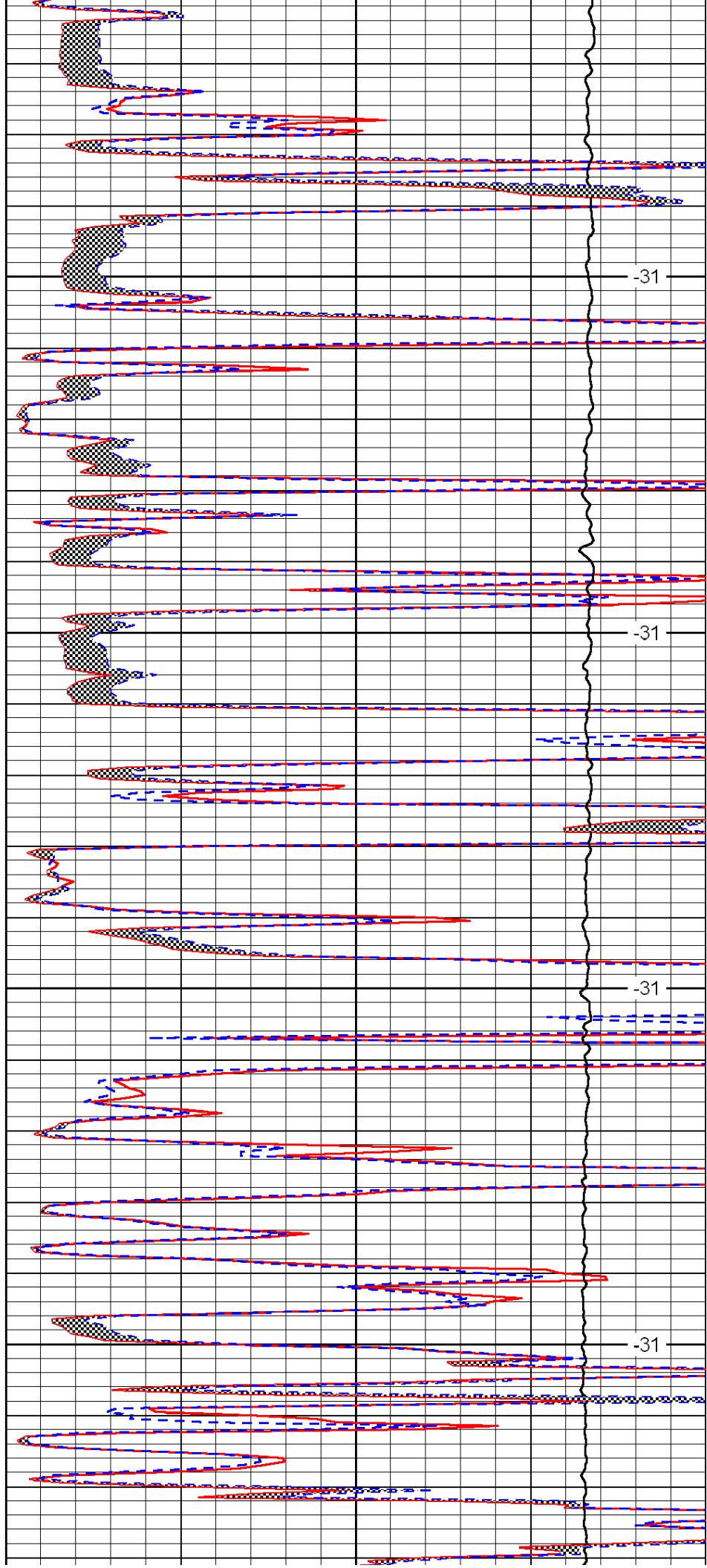


4250

4300

4350

4400

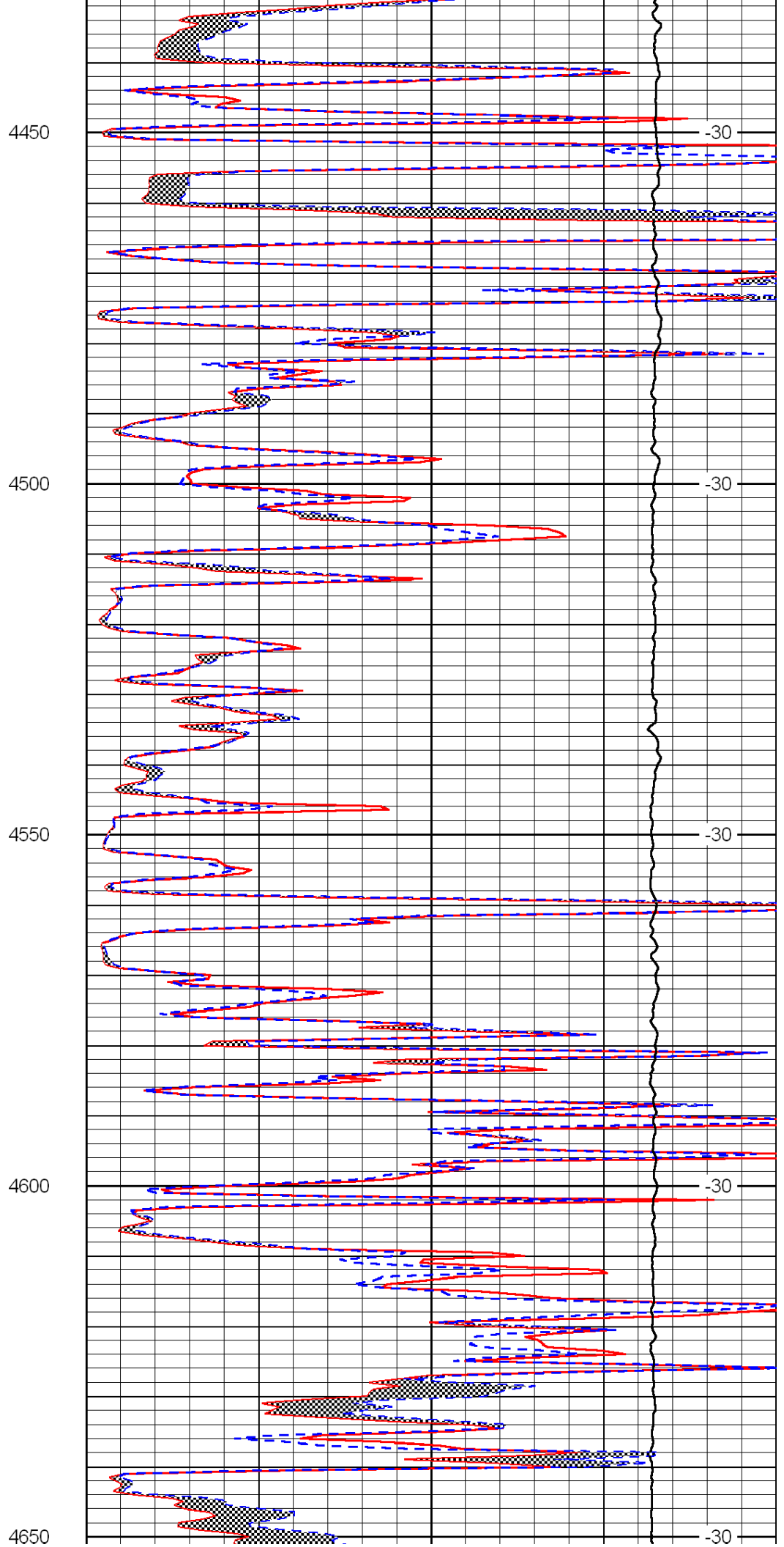
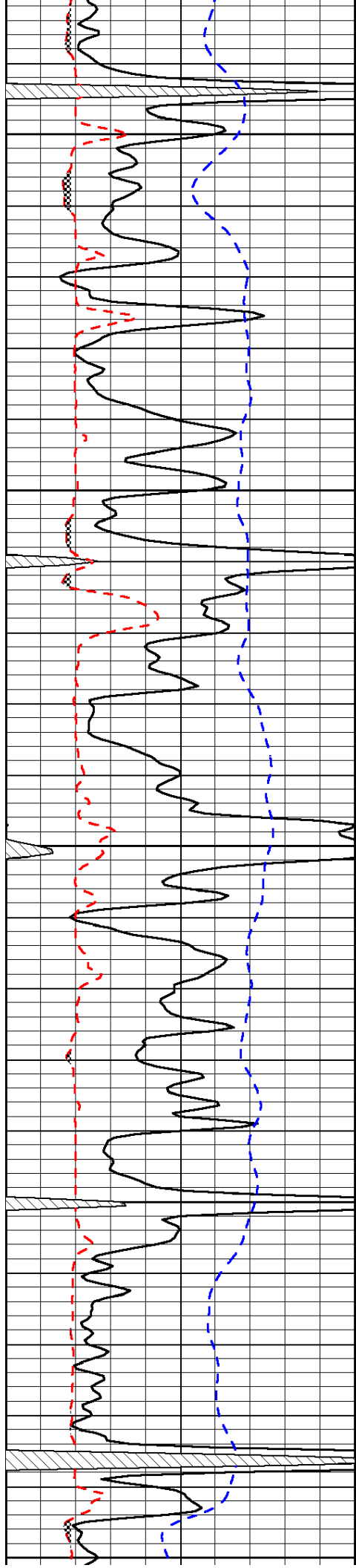


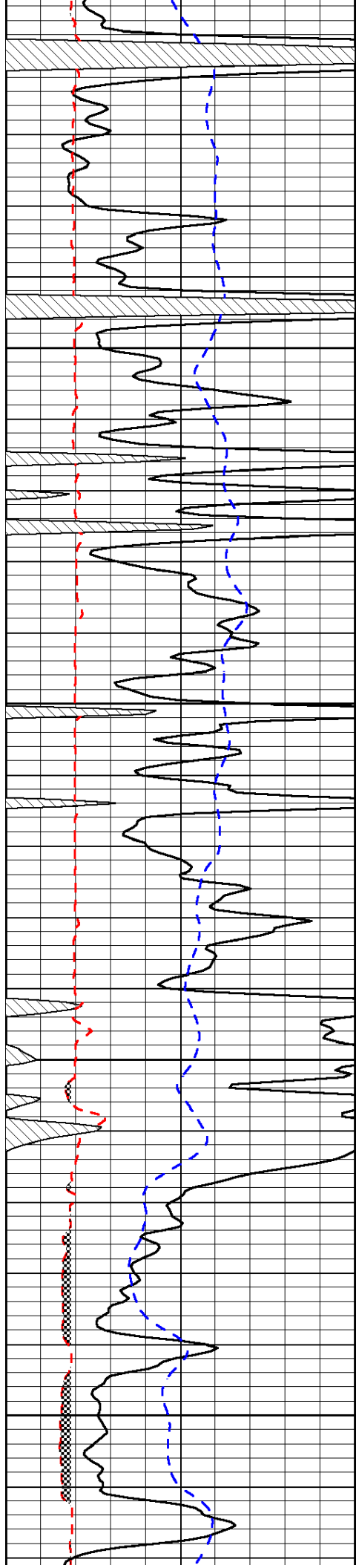
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-31

-31



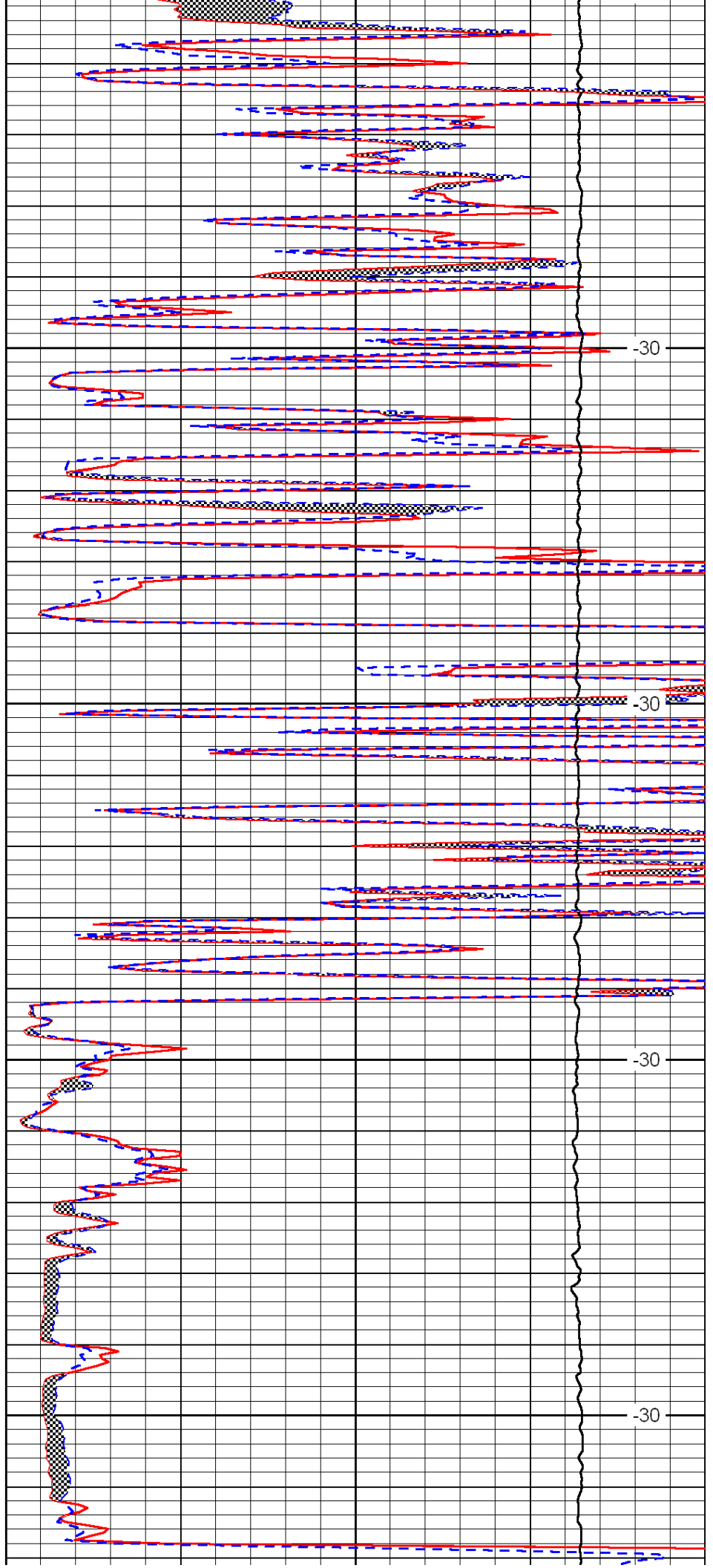


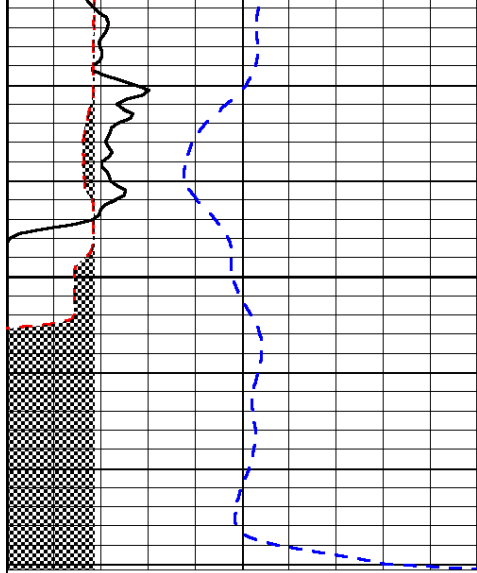
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4750

4800

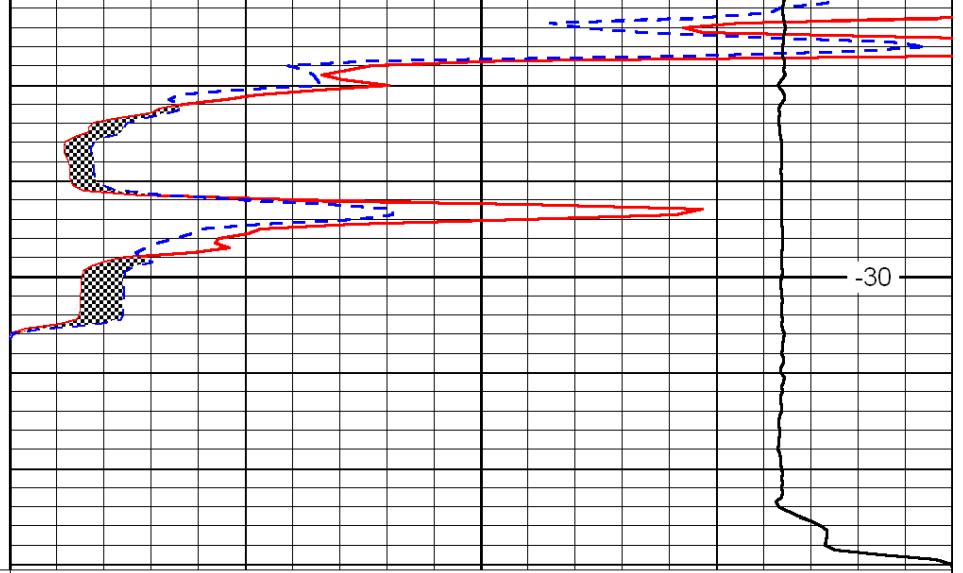
4850





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

4900



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

-30

LSPD



DIGITAL LOG (785) 625-3858

Borehole Compensated
Sonic Log

15-193-20,842-00-00

API No.

Company Credo Petroleum Corporation
Well Mary No.1-22
Field Wildcat
County Thomas
State Kansas

Location 330' FSL & 2150' FWL
Sec: 22 Twp: 10S Rge: 35W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation 3279
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 3284
D.F.
G.L. 3279

Date	3/11/2012	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4920	
Depth Logger	4923	
Bottom Logged Interval	4912	
Top Logged Interval	200	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	7,000	
Density	9.4	
Level	Full	
Max. Rec. Temp. F	125	
Operating Rig Time	4 1/2 Hours	
Equipment -- Location	17 Days	
Recorded By	C. Desaire	
Witnessed By	Bruce Ard	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	238	8.625	24#	00	238
2	7.875	238	4920				

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Comments

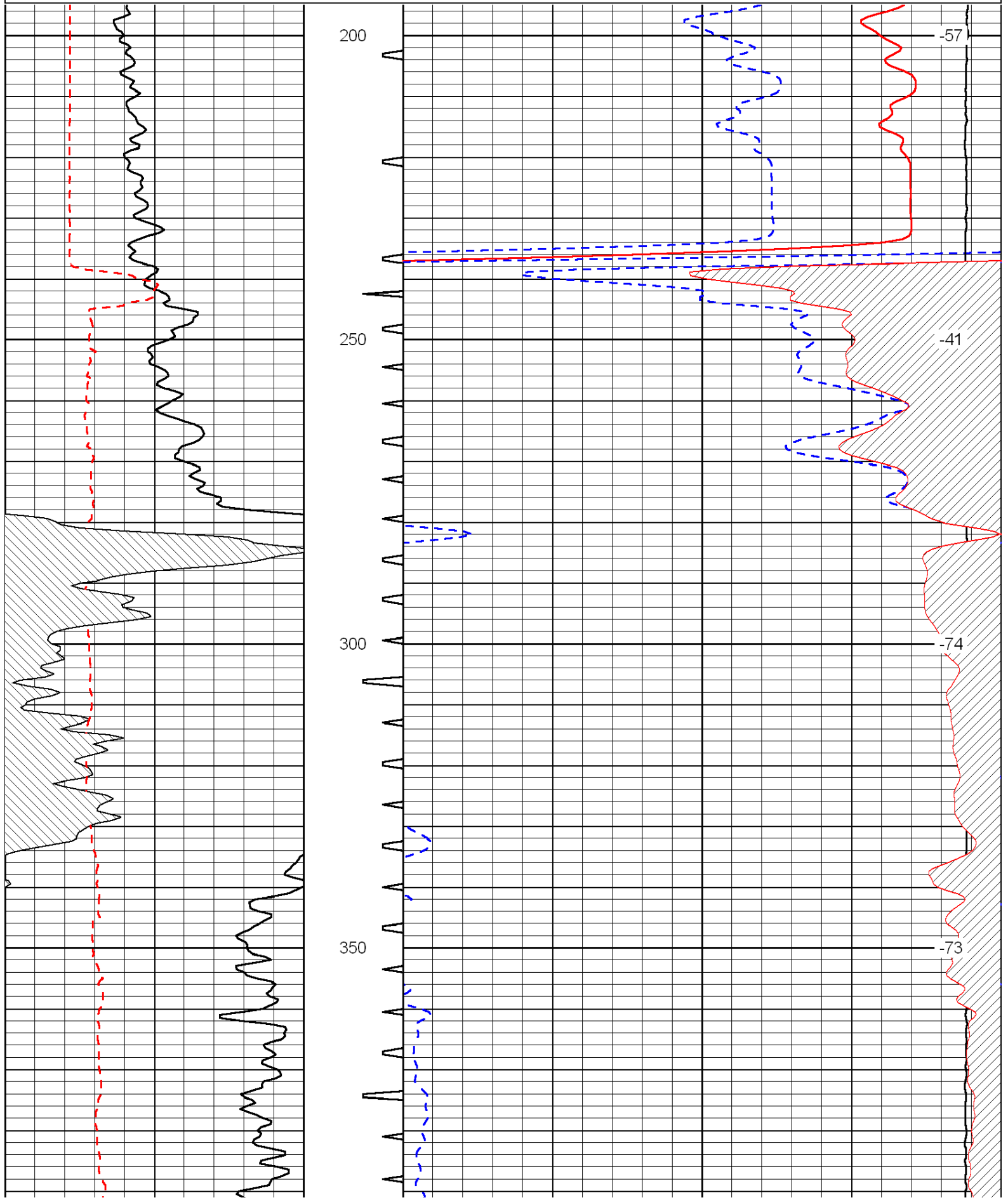
Thank you for using Log-Tech, Inc.
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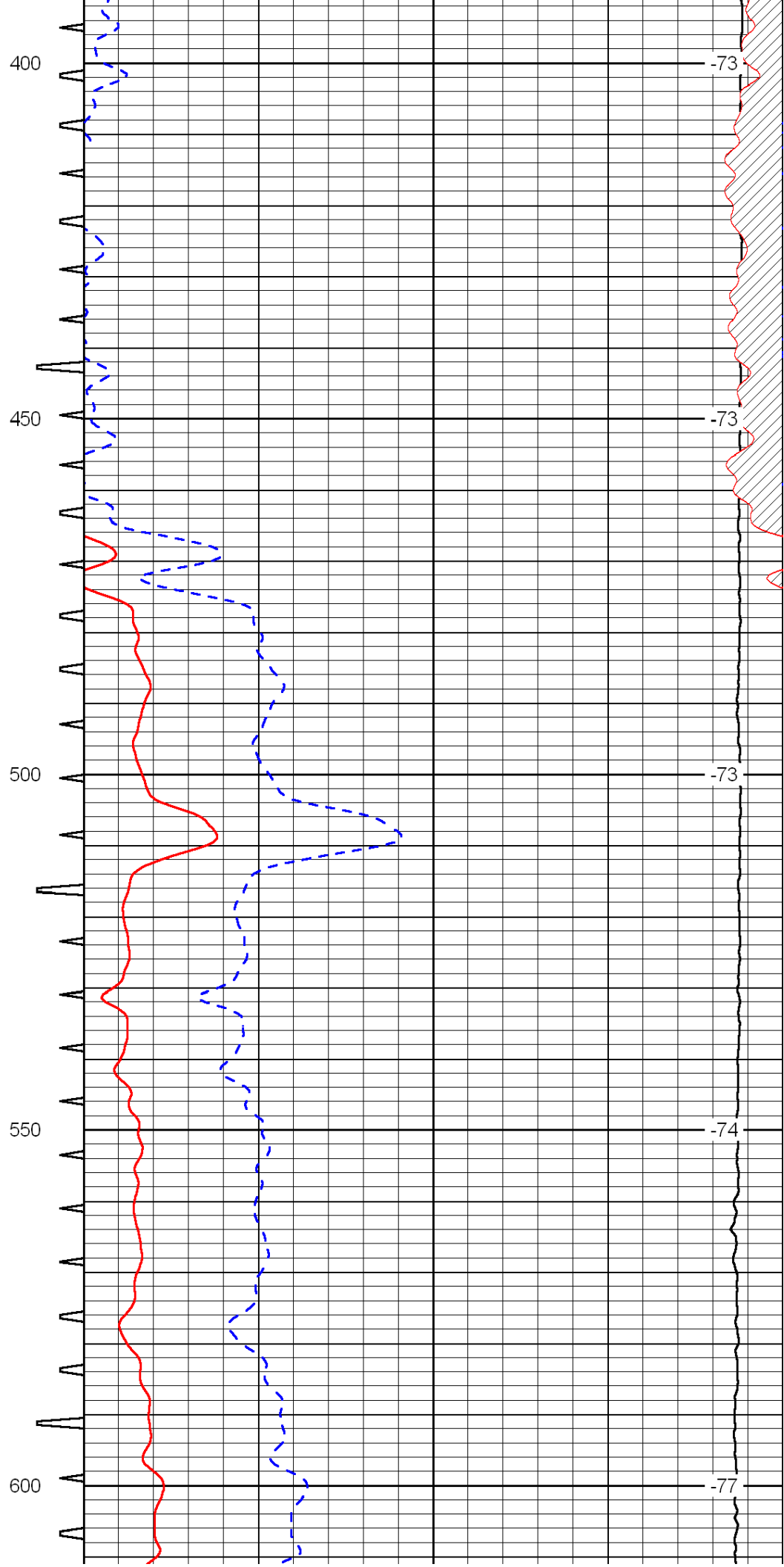
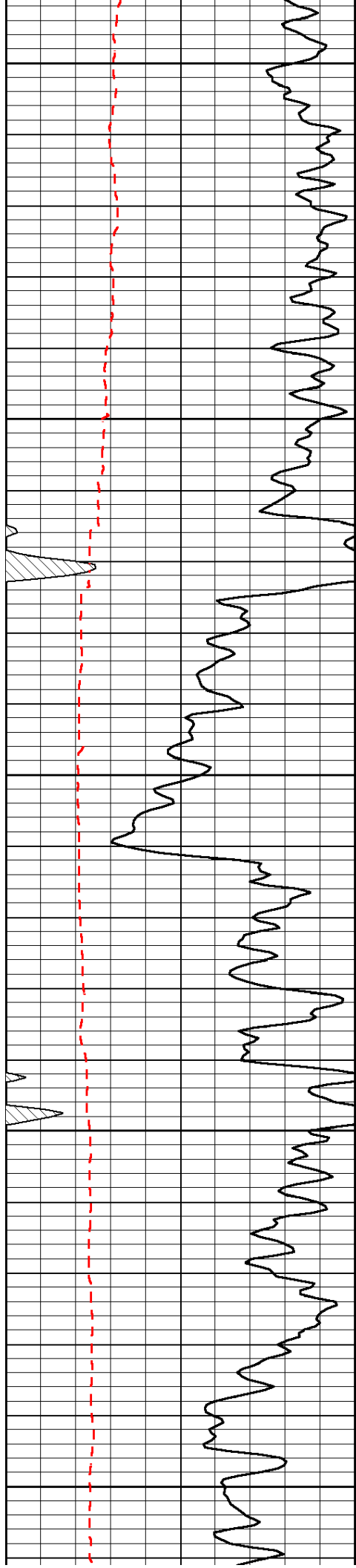
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13 3/4 S, W-S-W Into

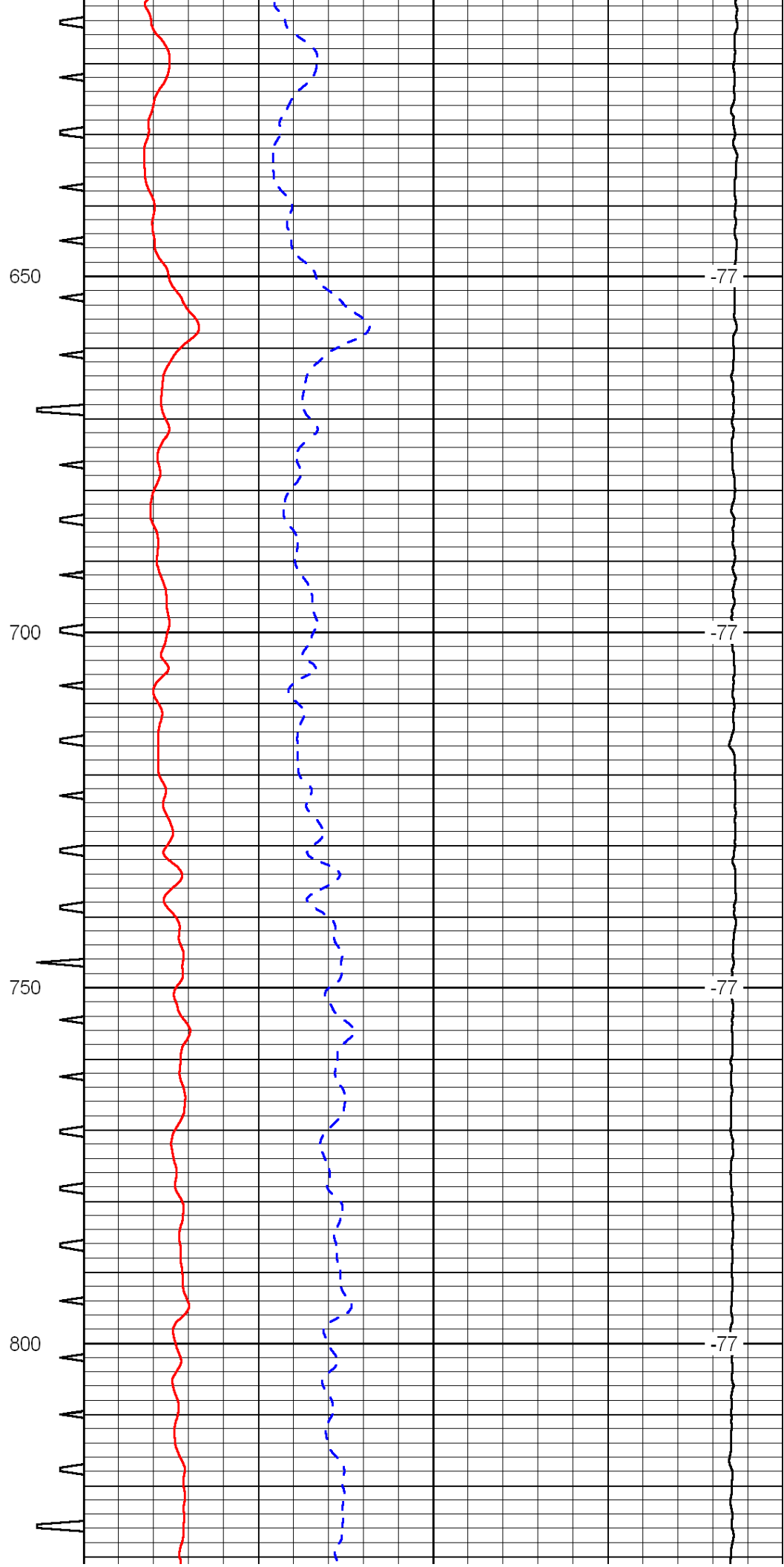
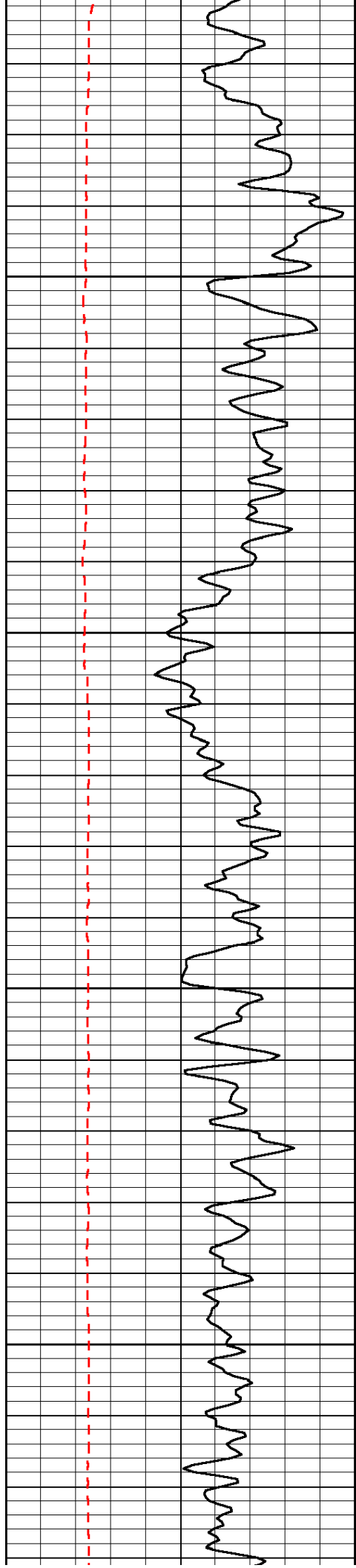
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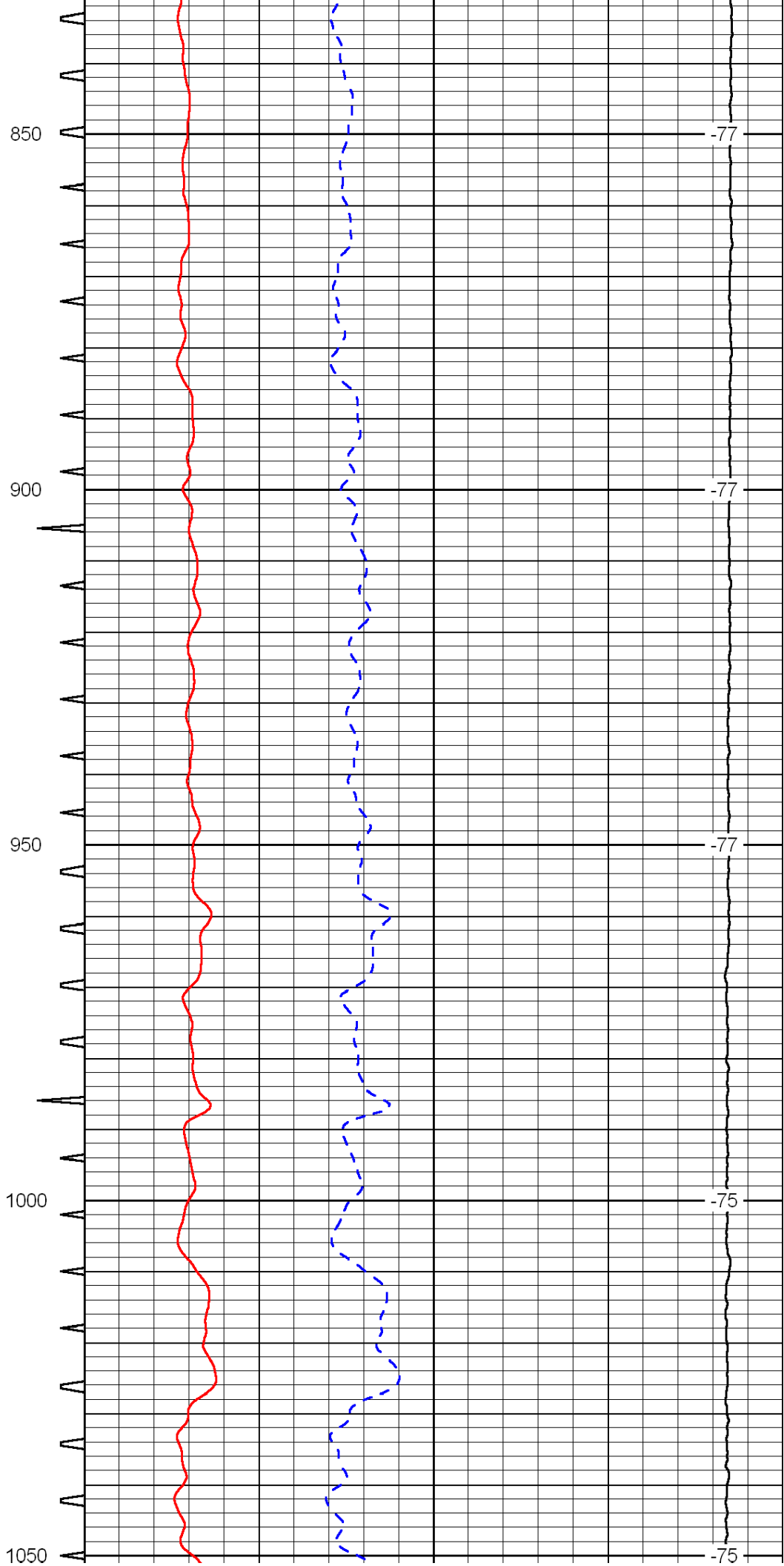
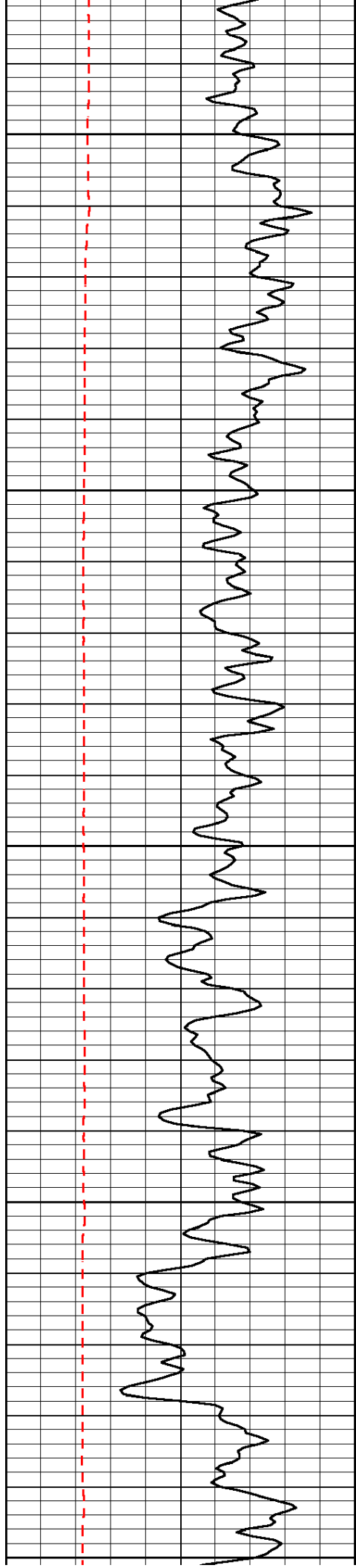
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150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

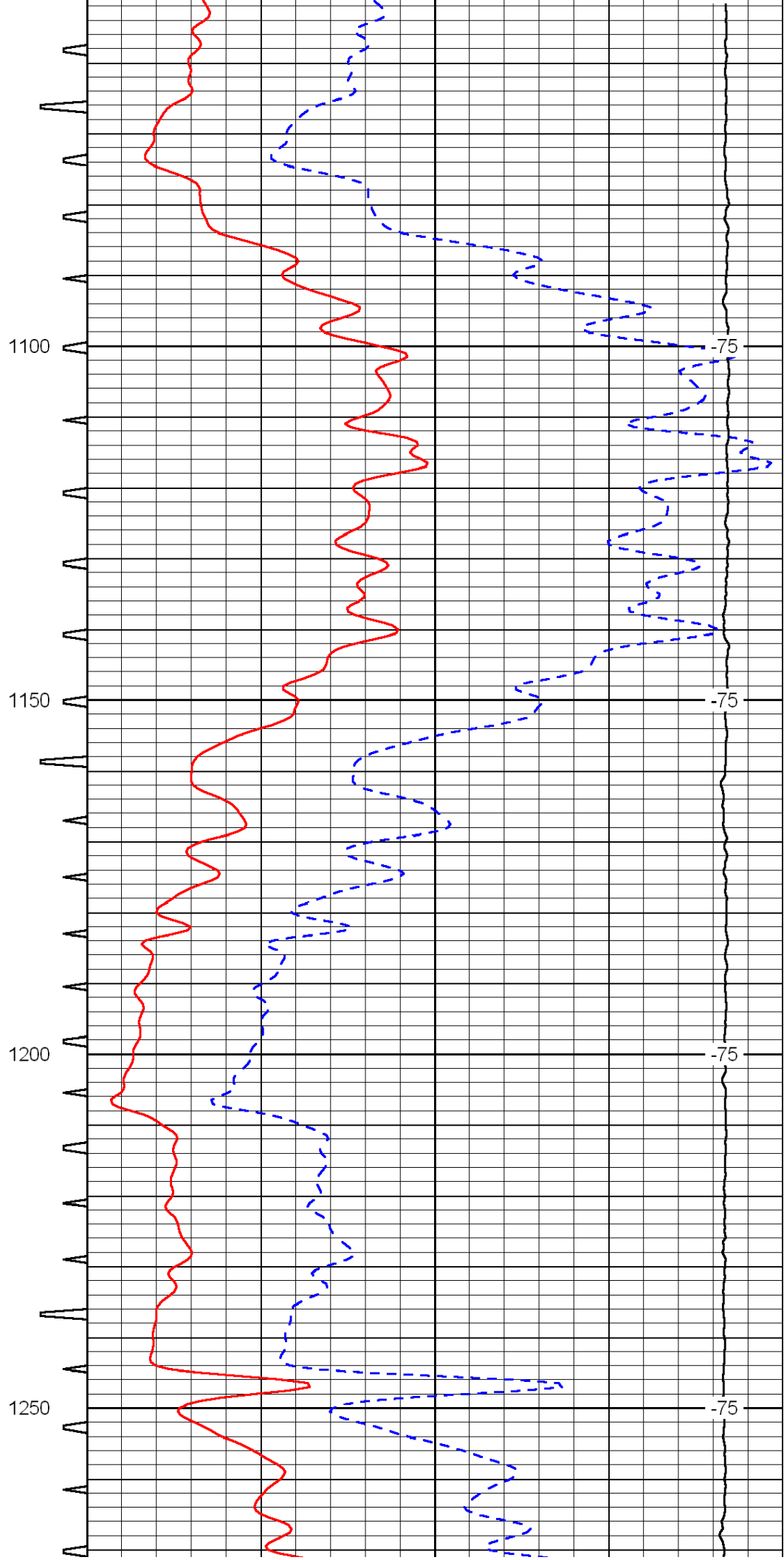
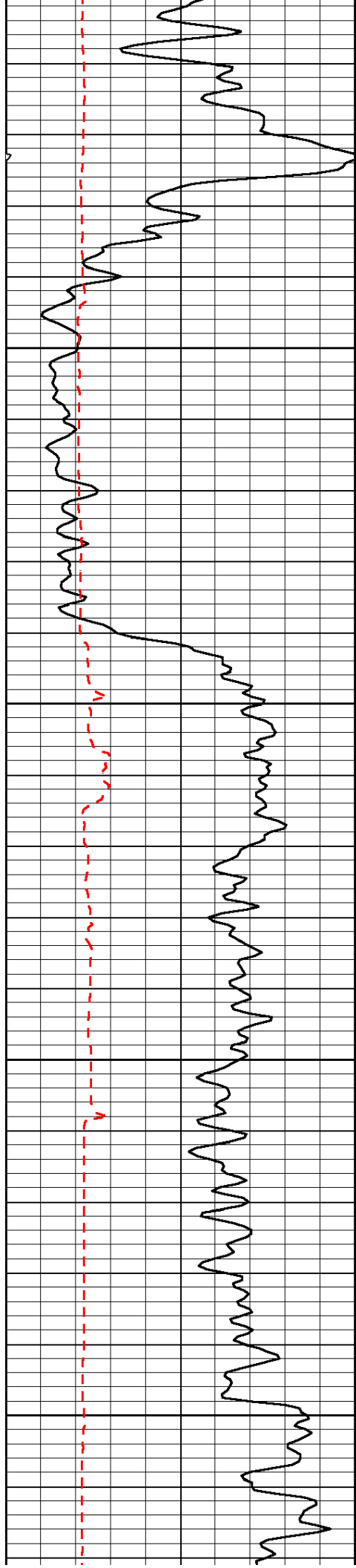
LSPD

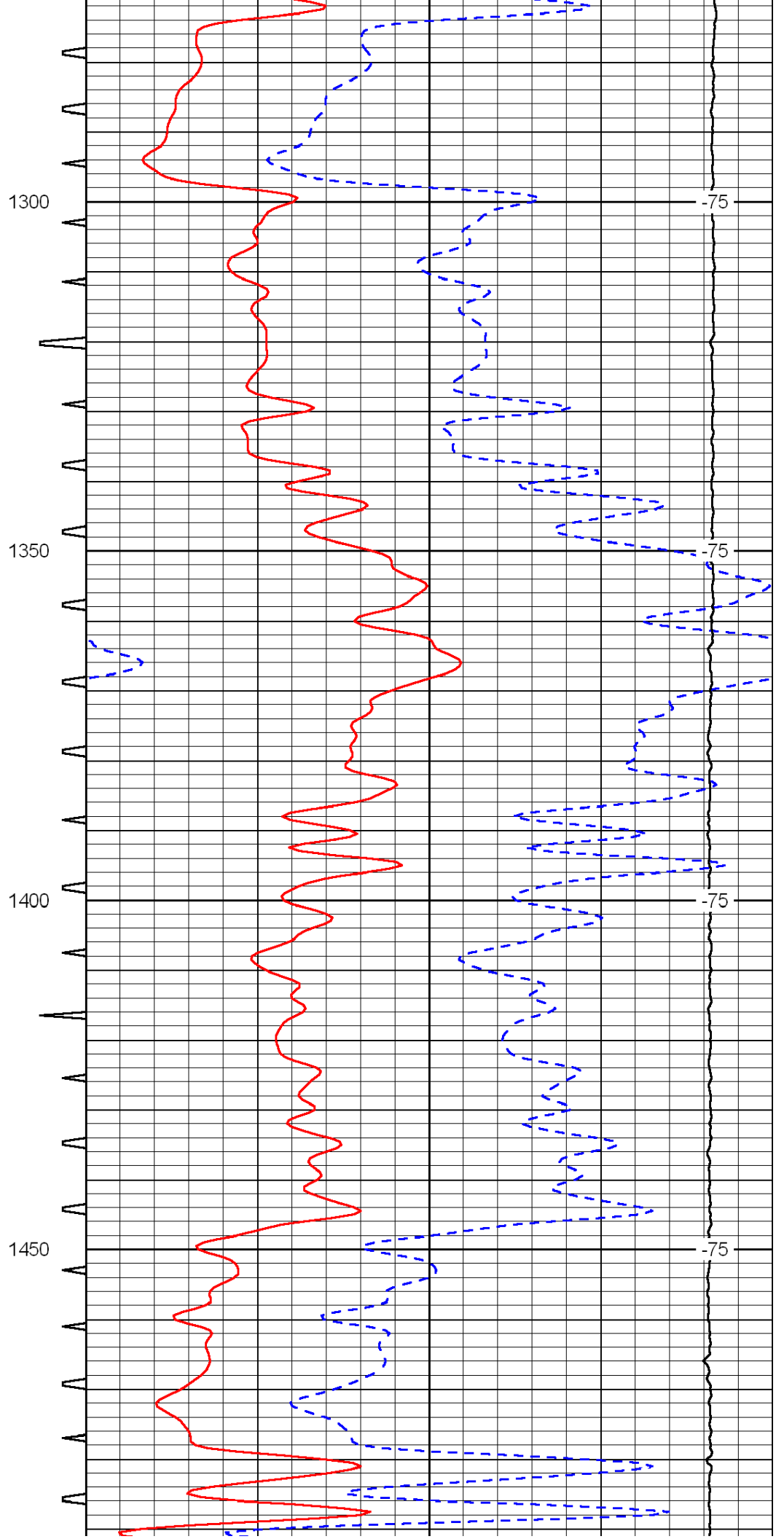
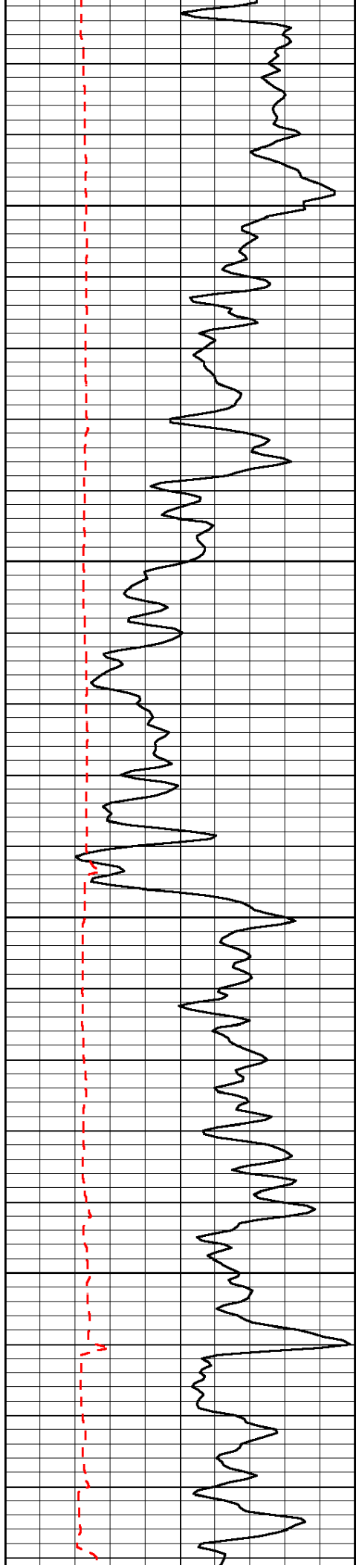


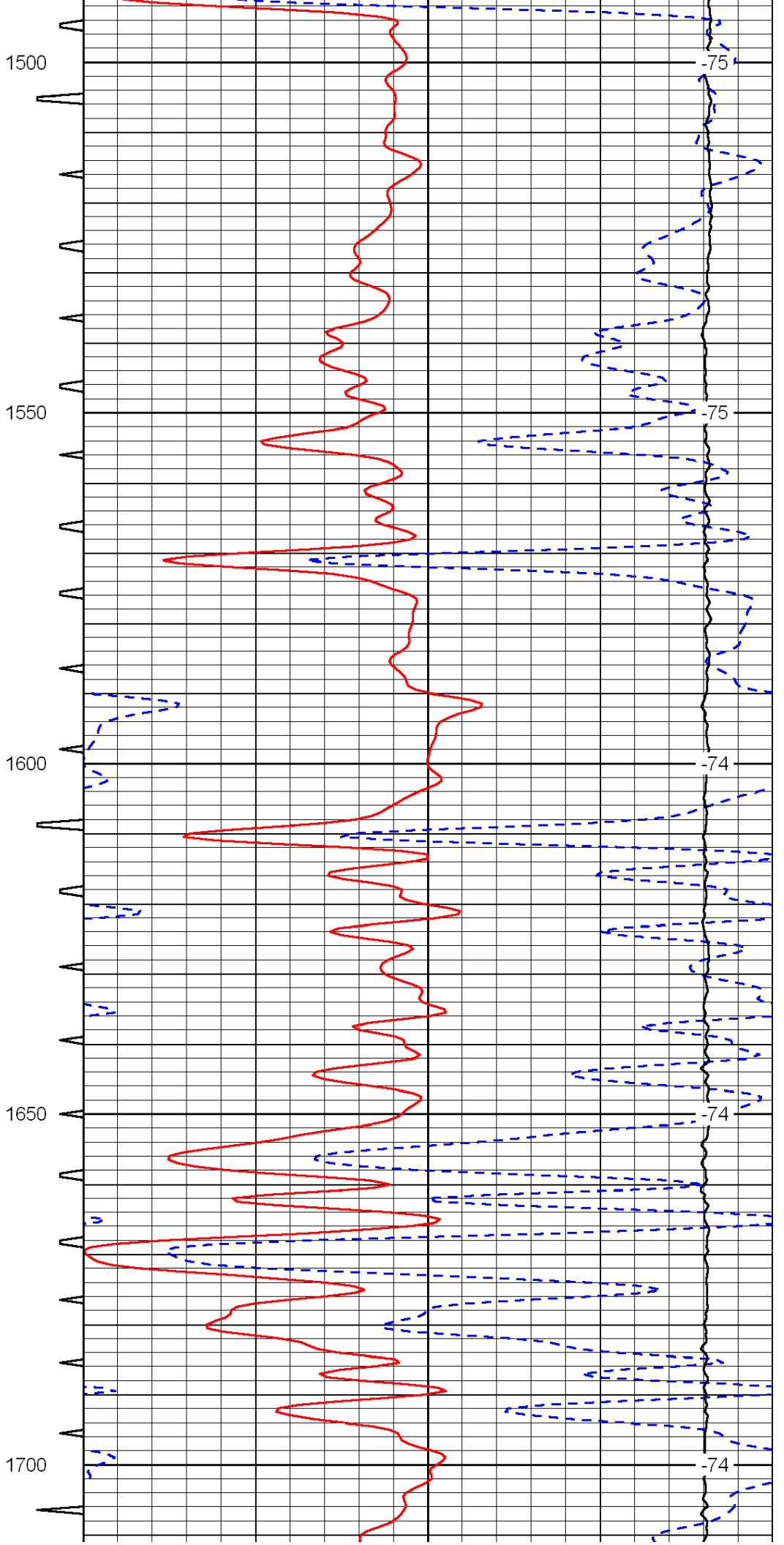
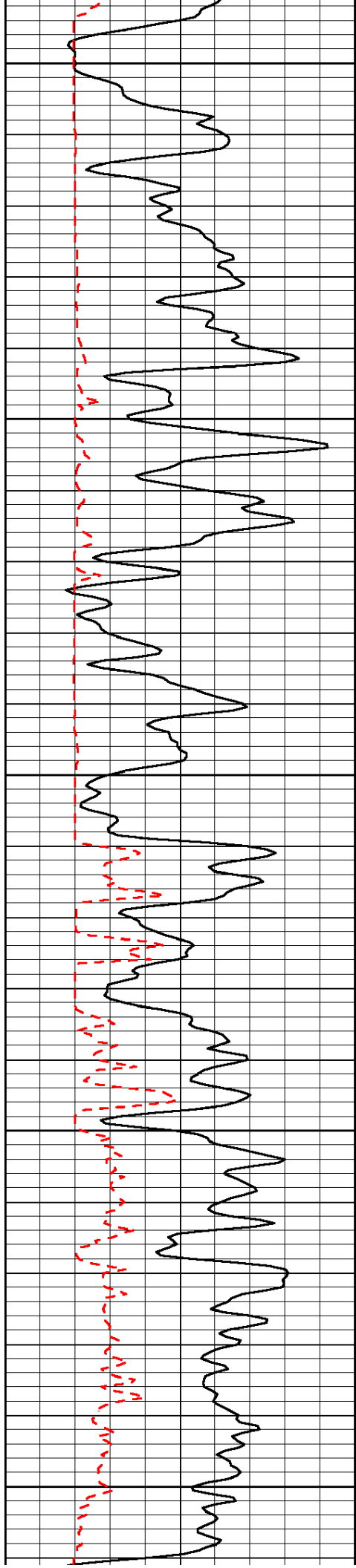


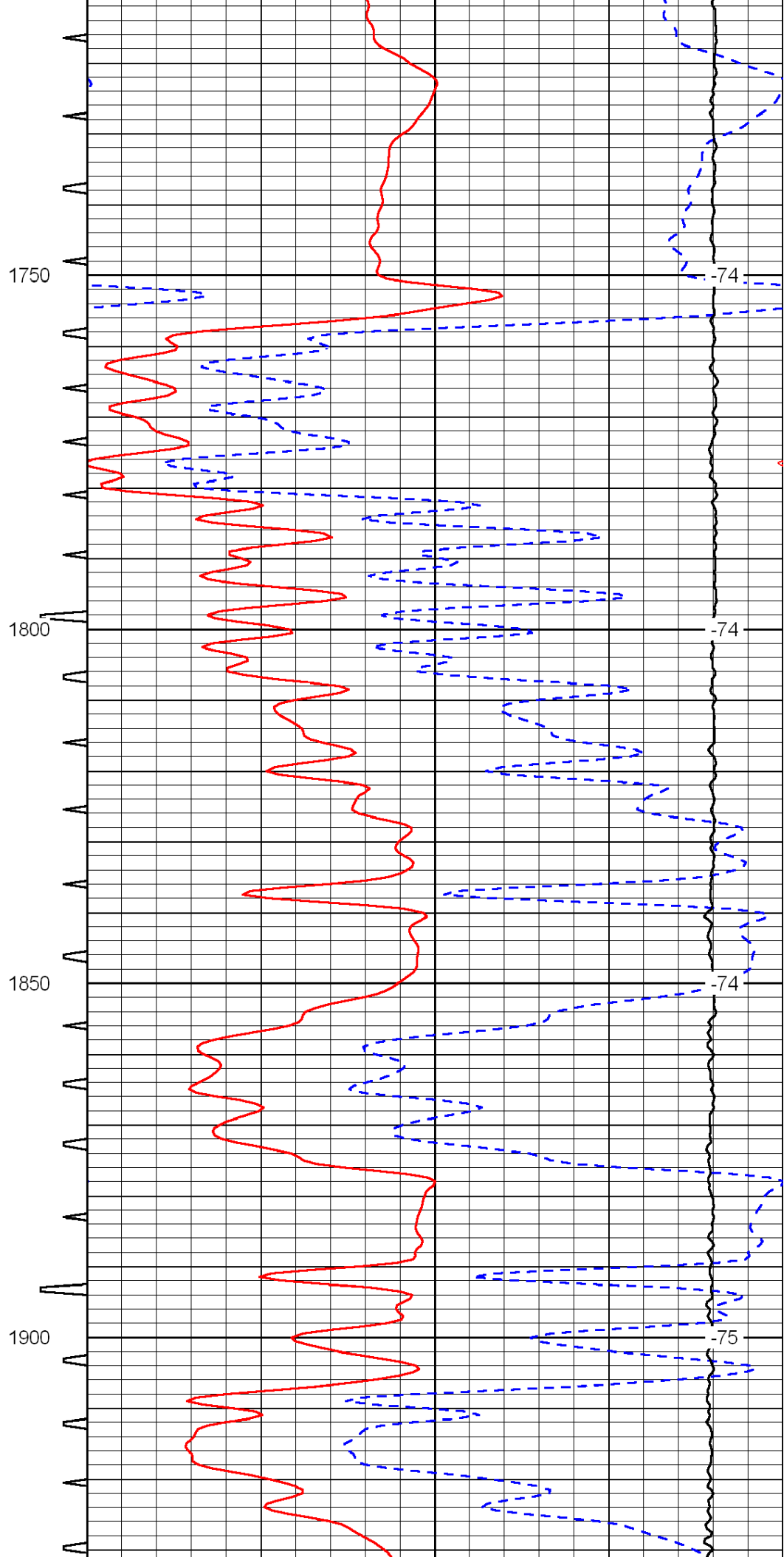
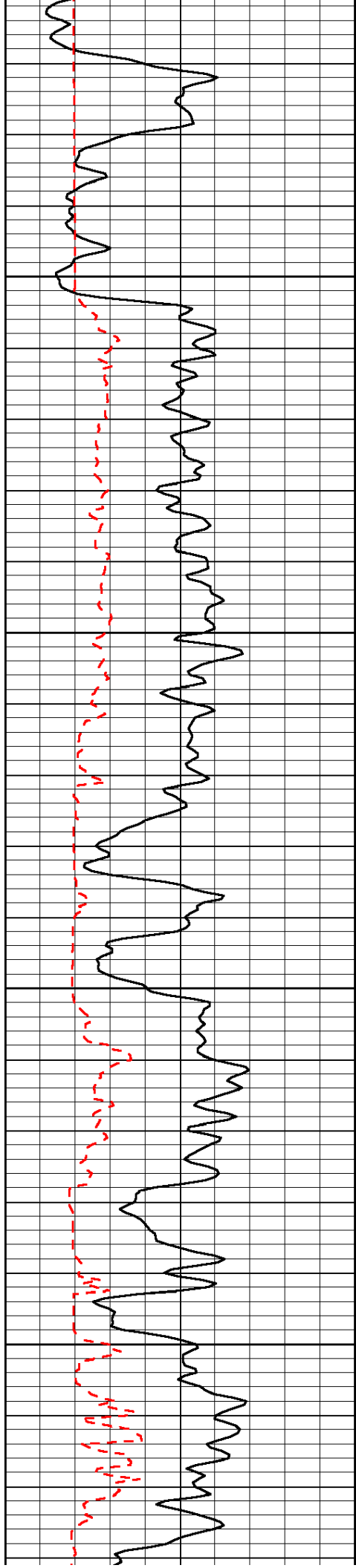


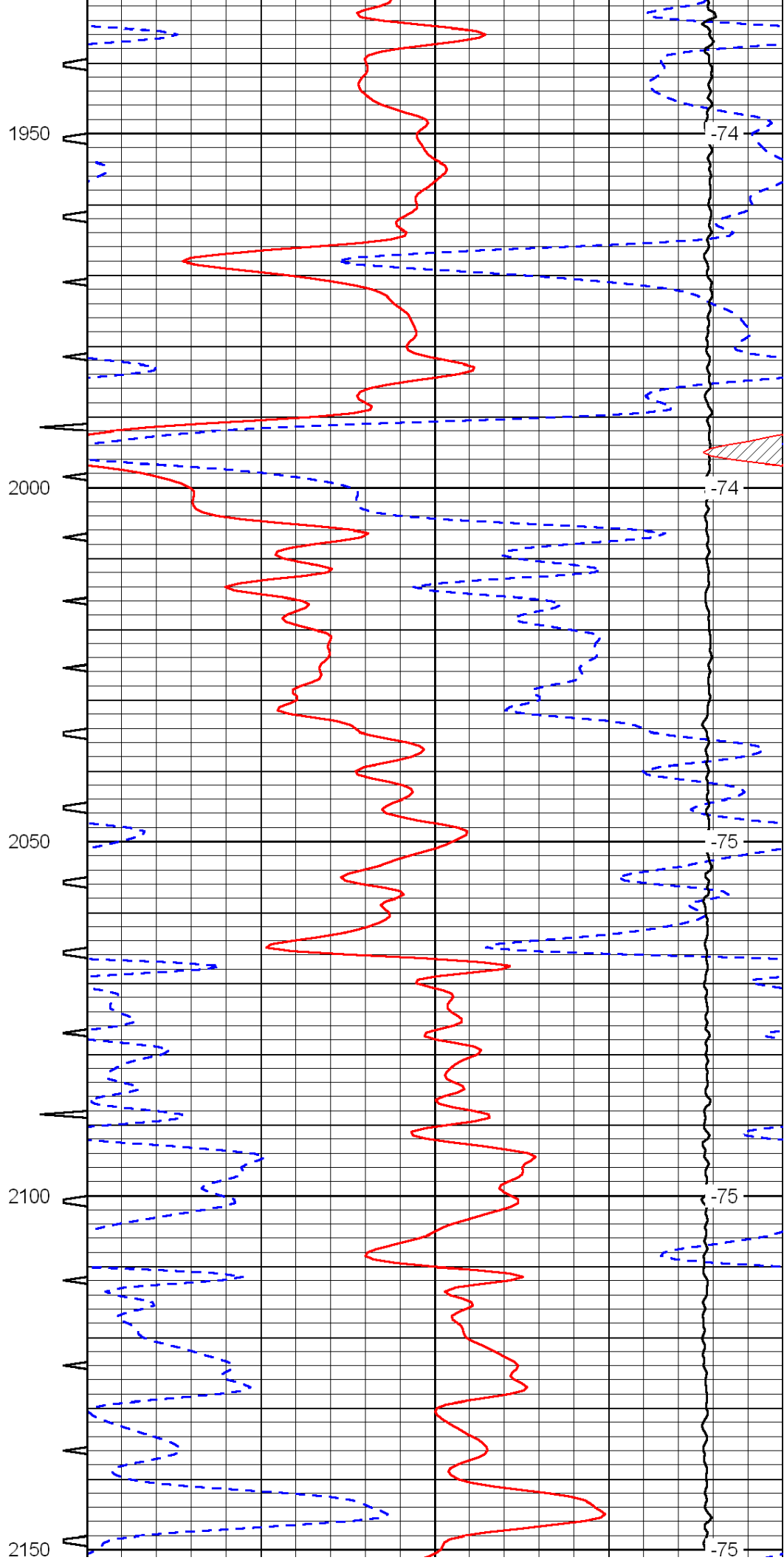
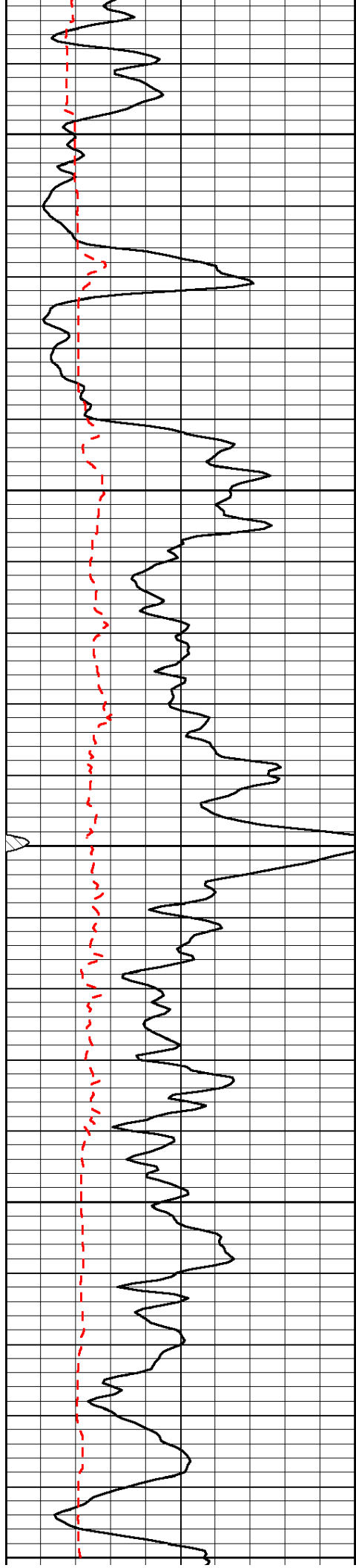


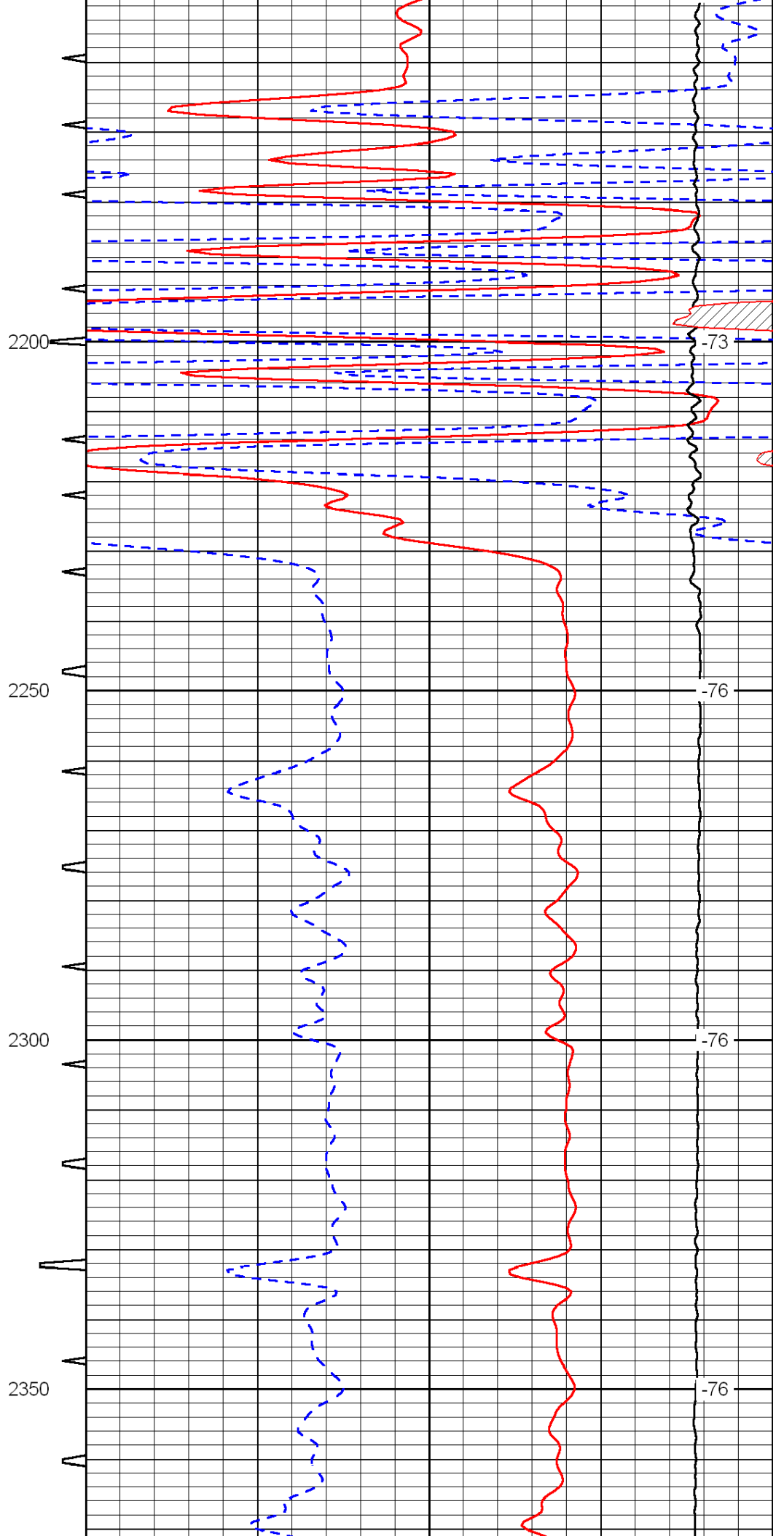
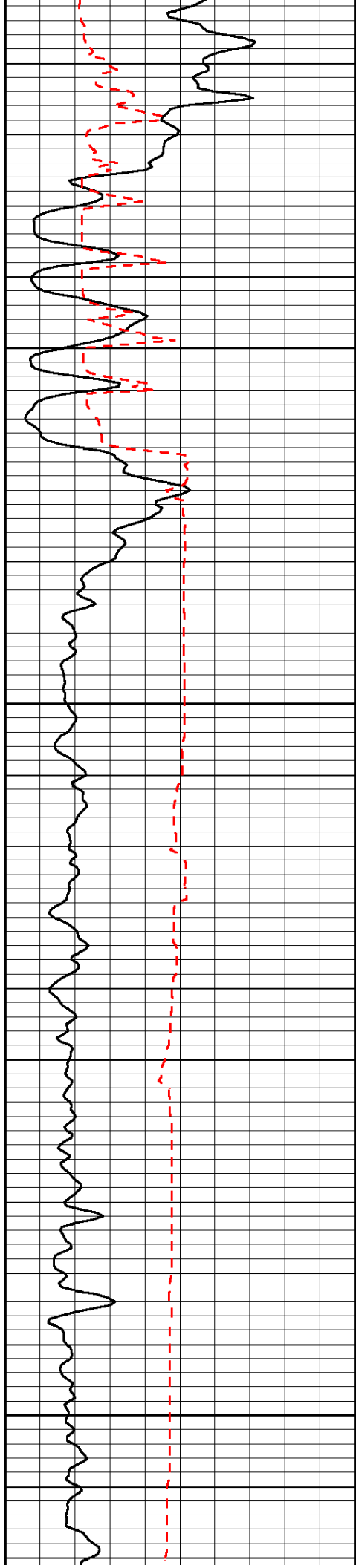


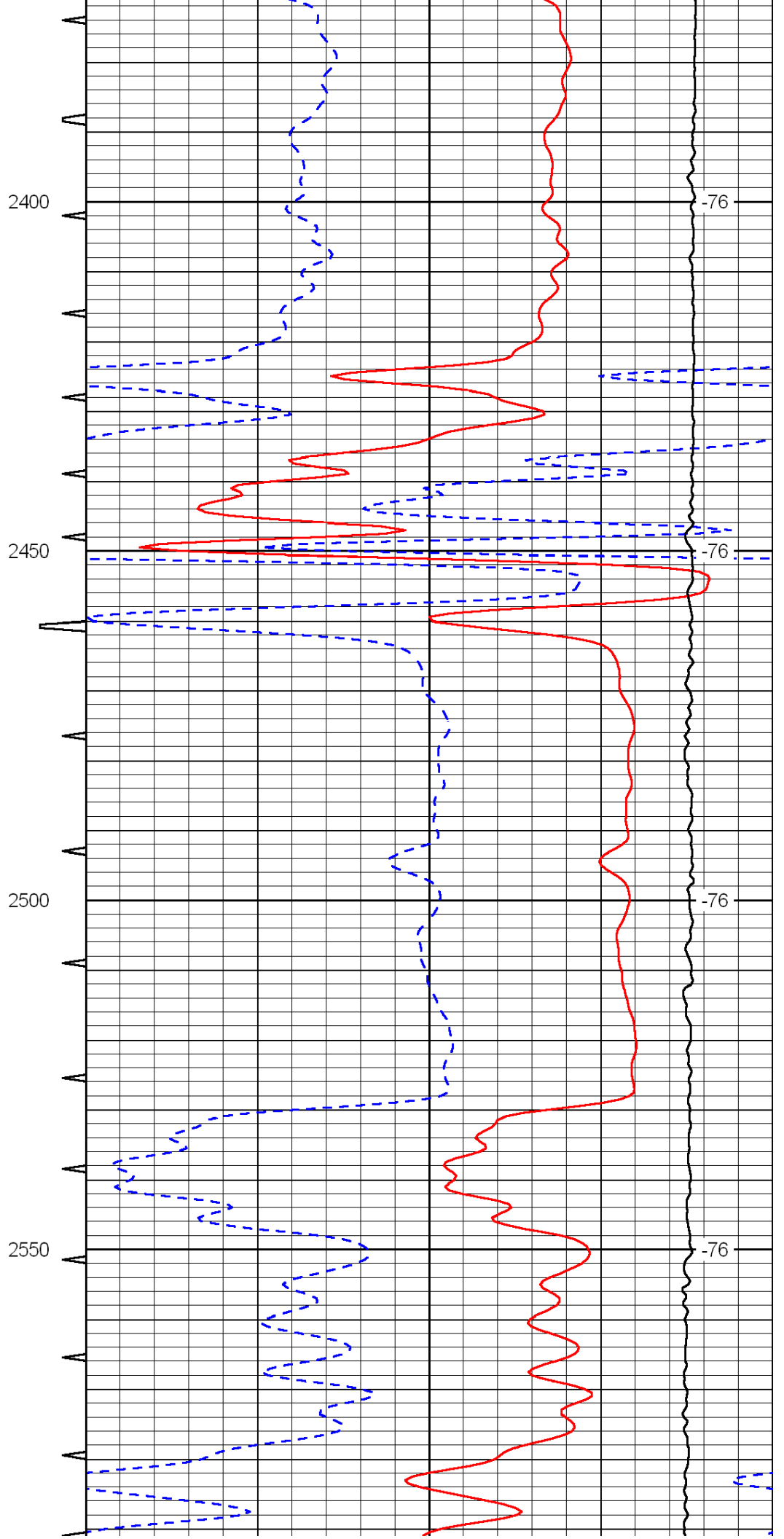
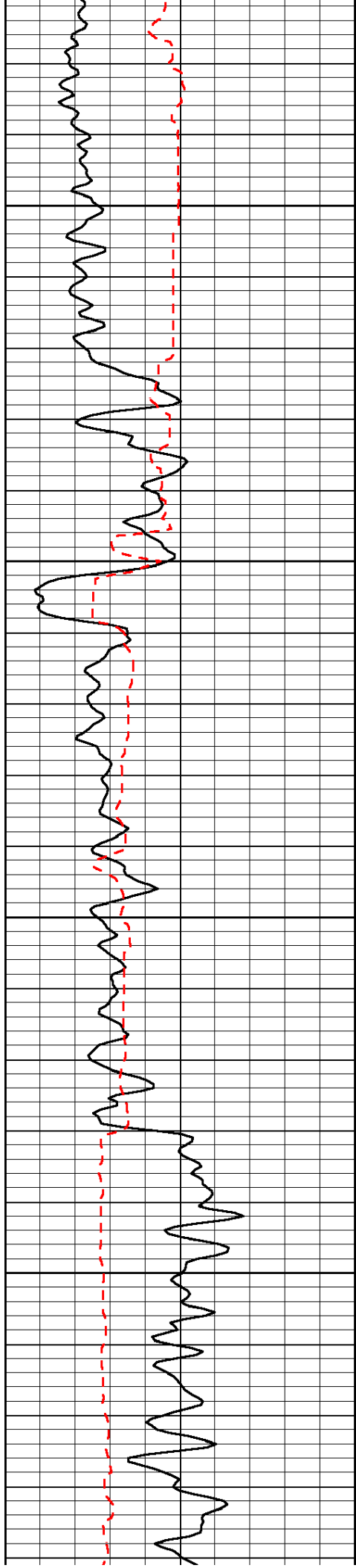


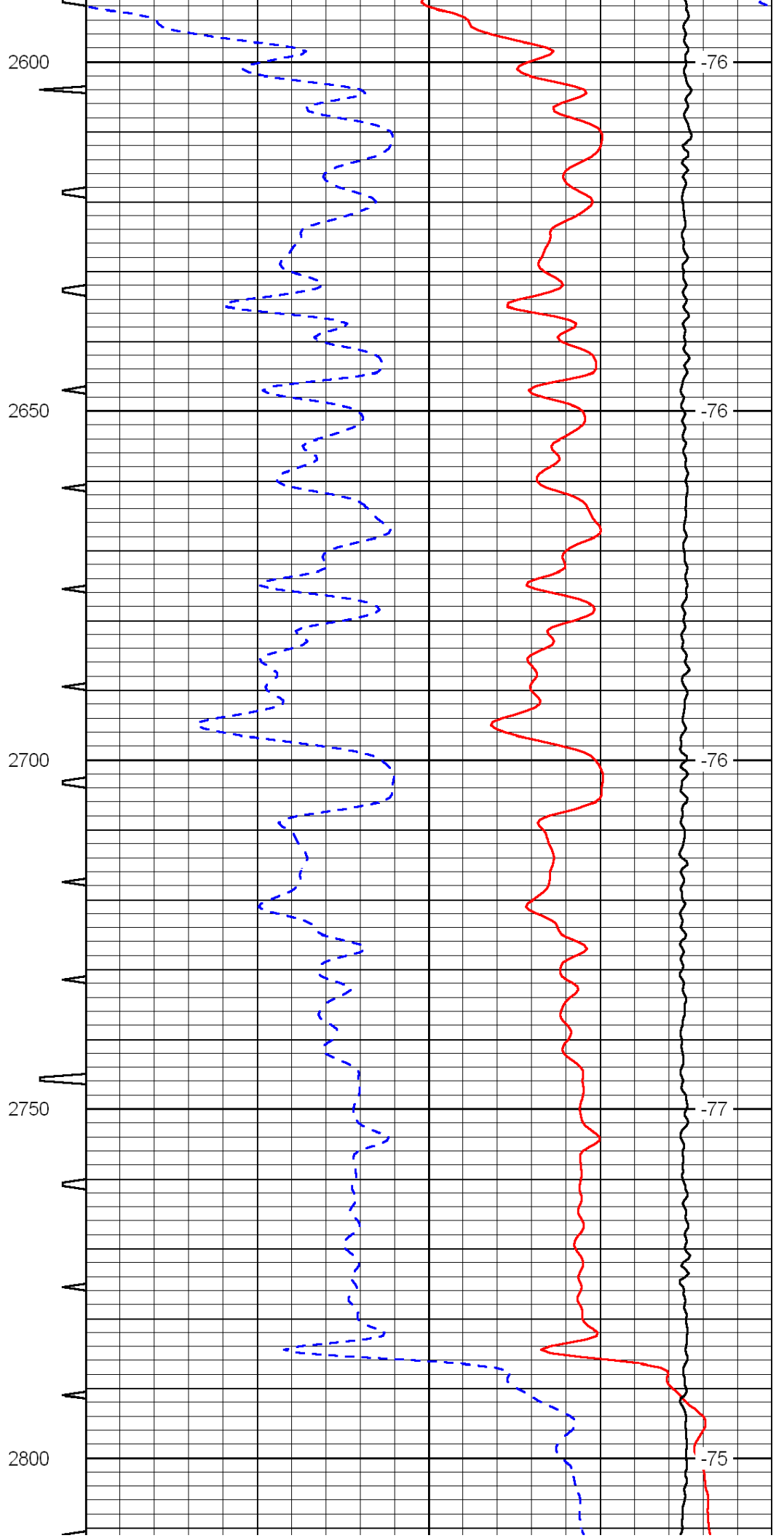
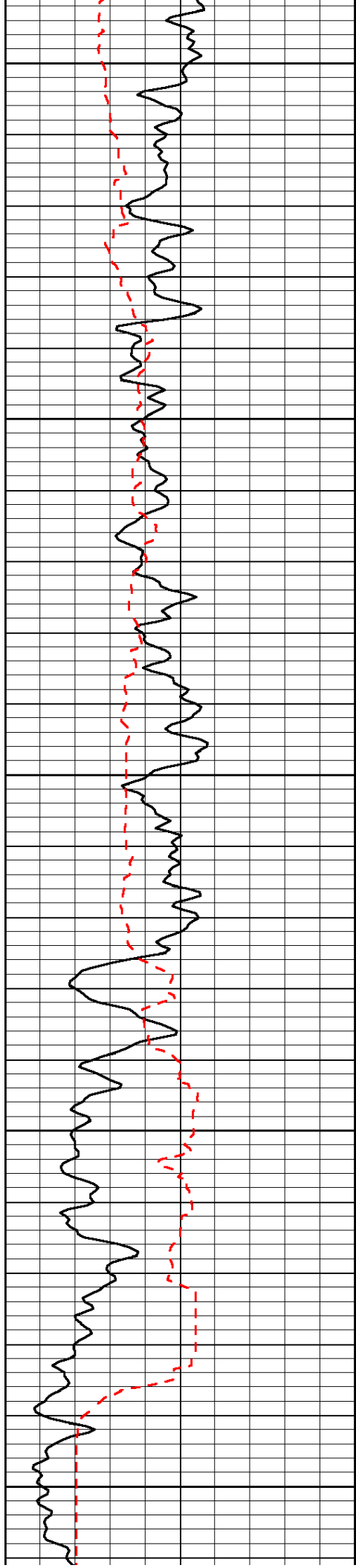


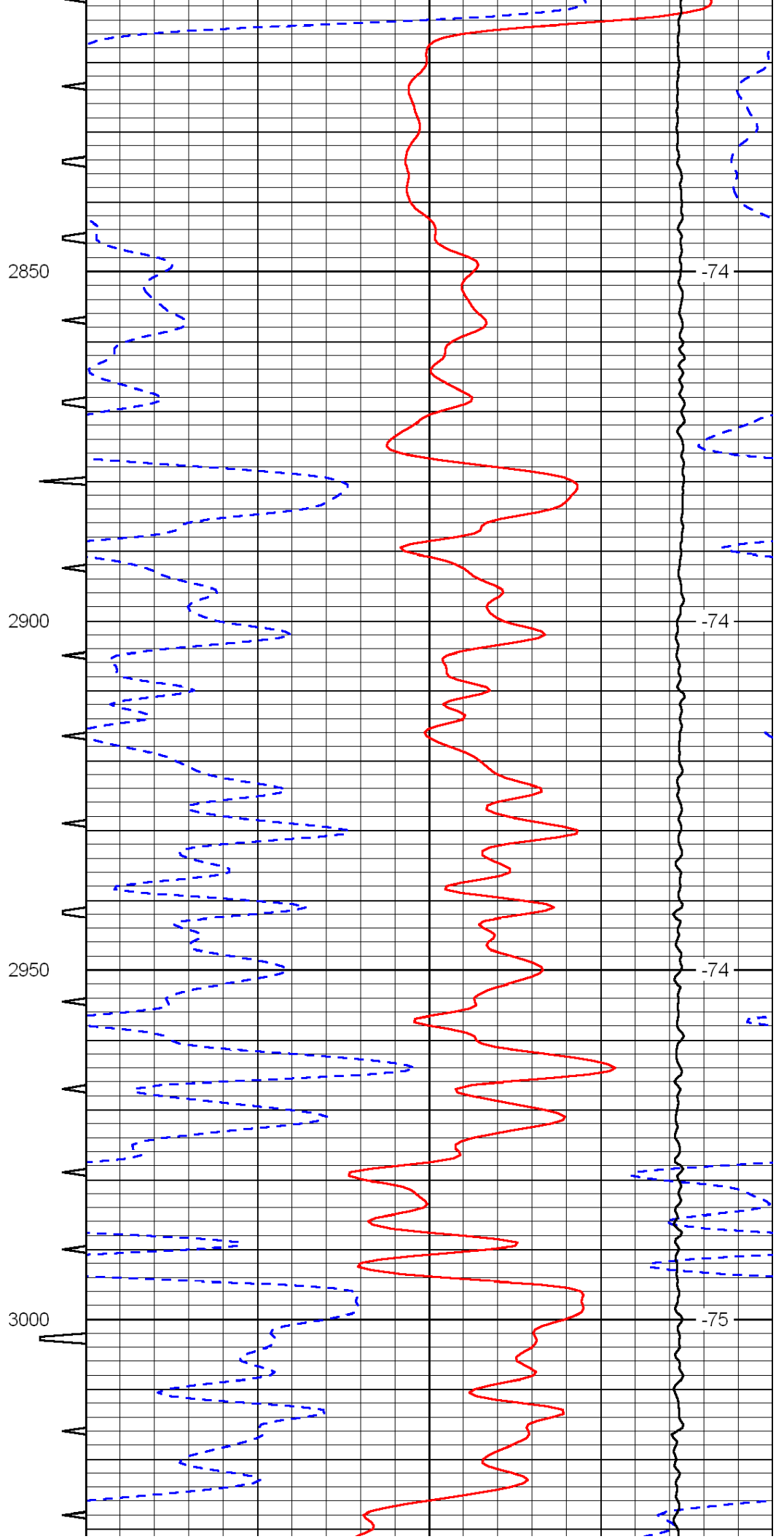
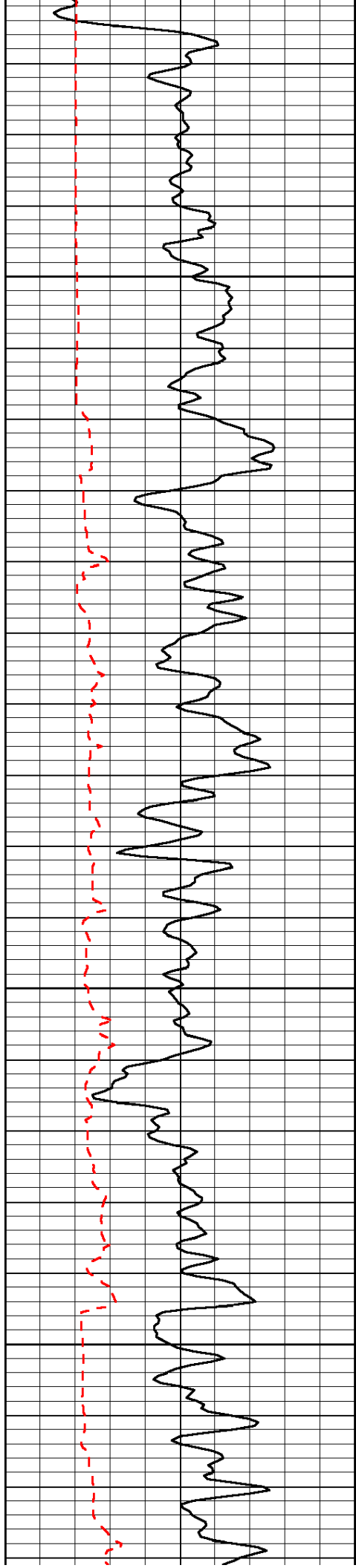


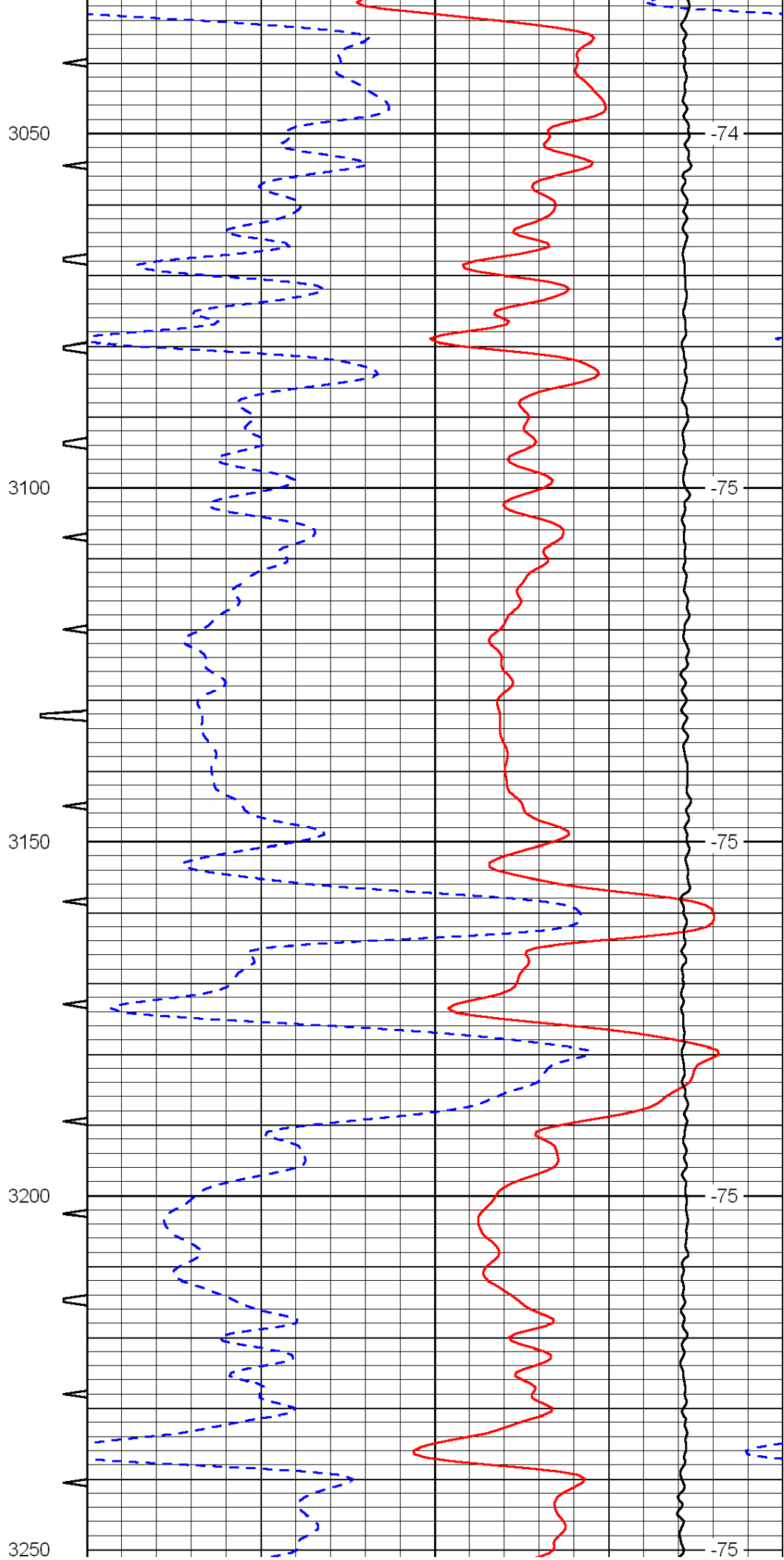
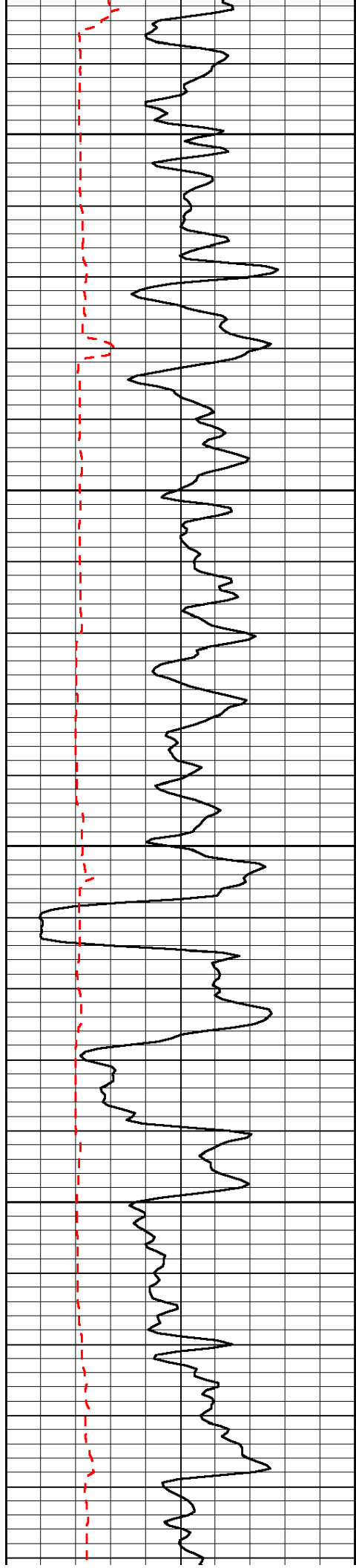


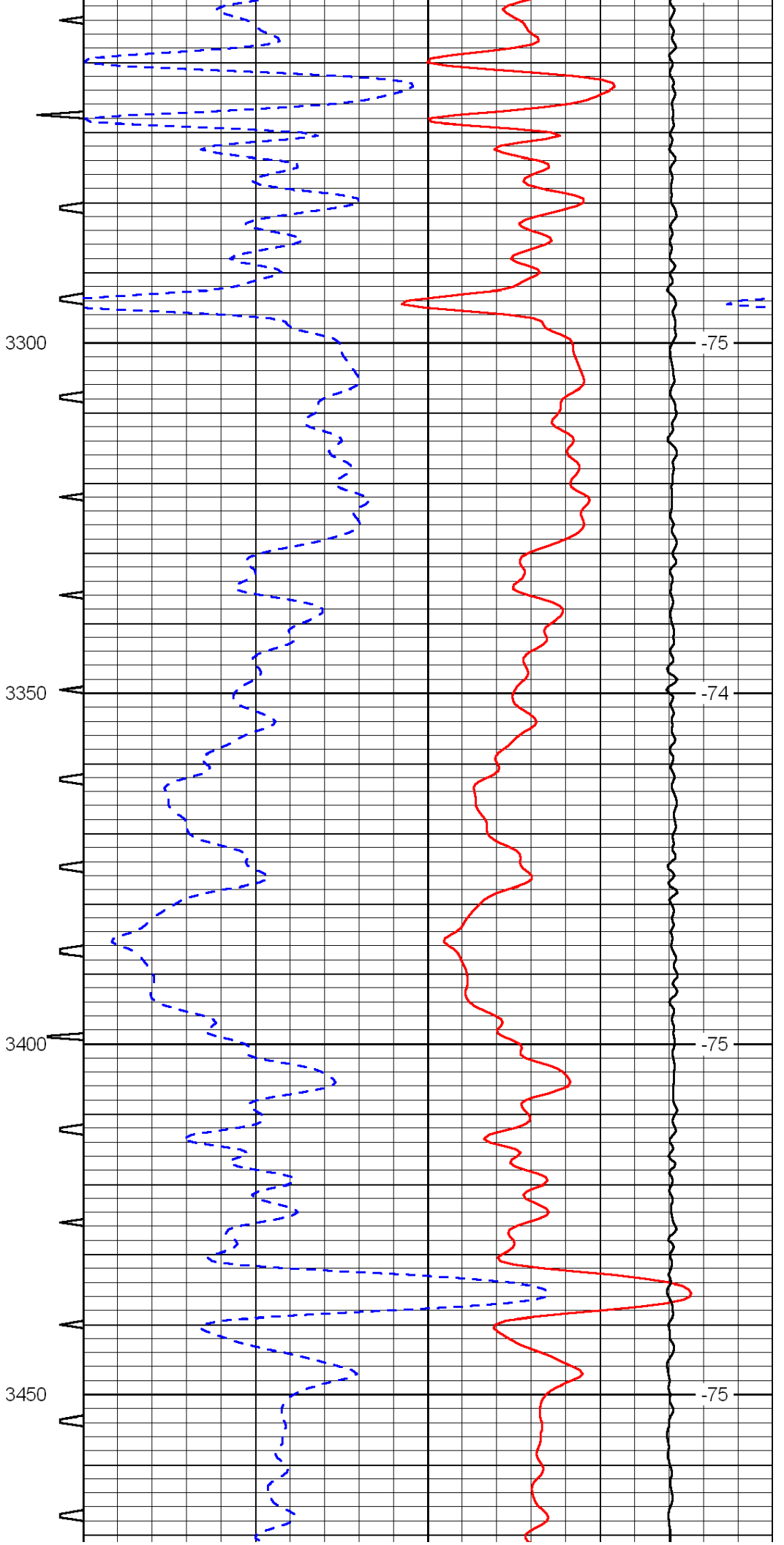
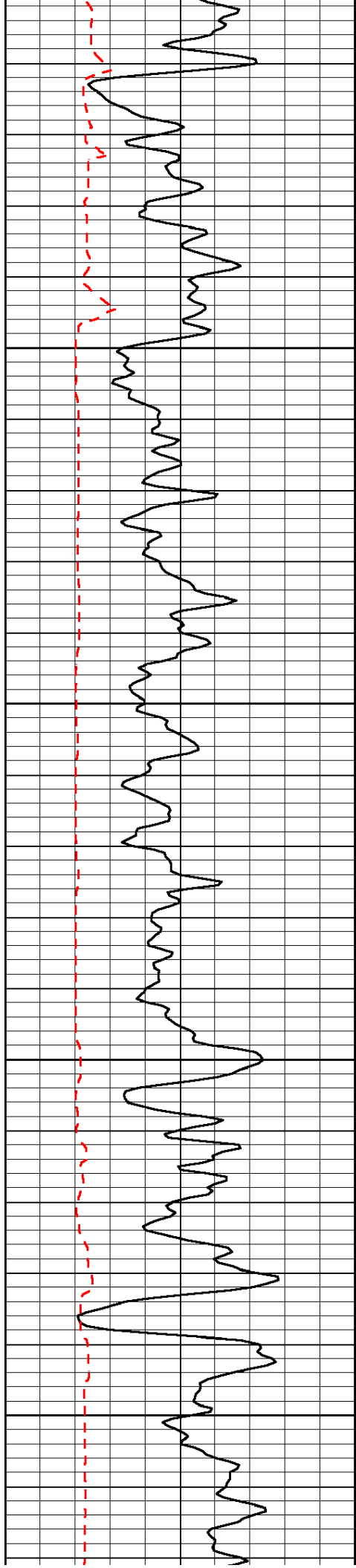


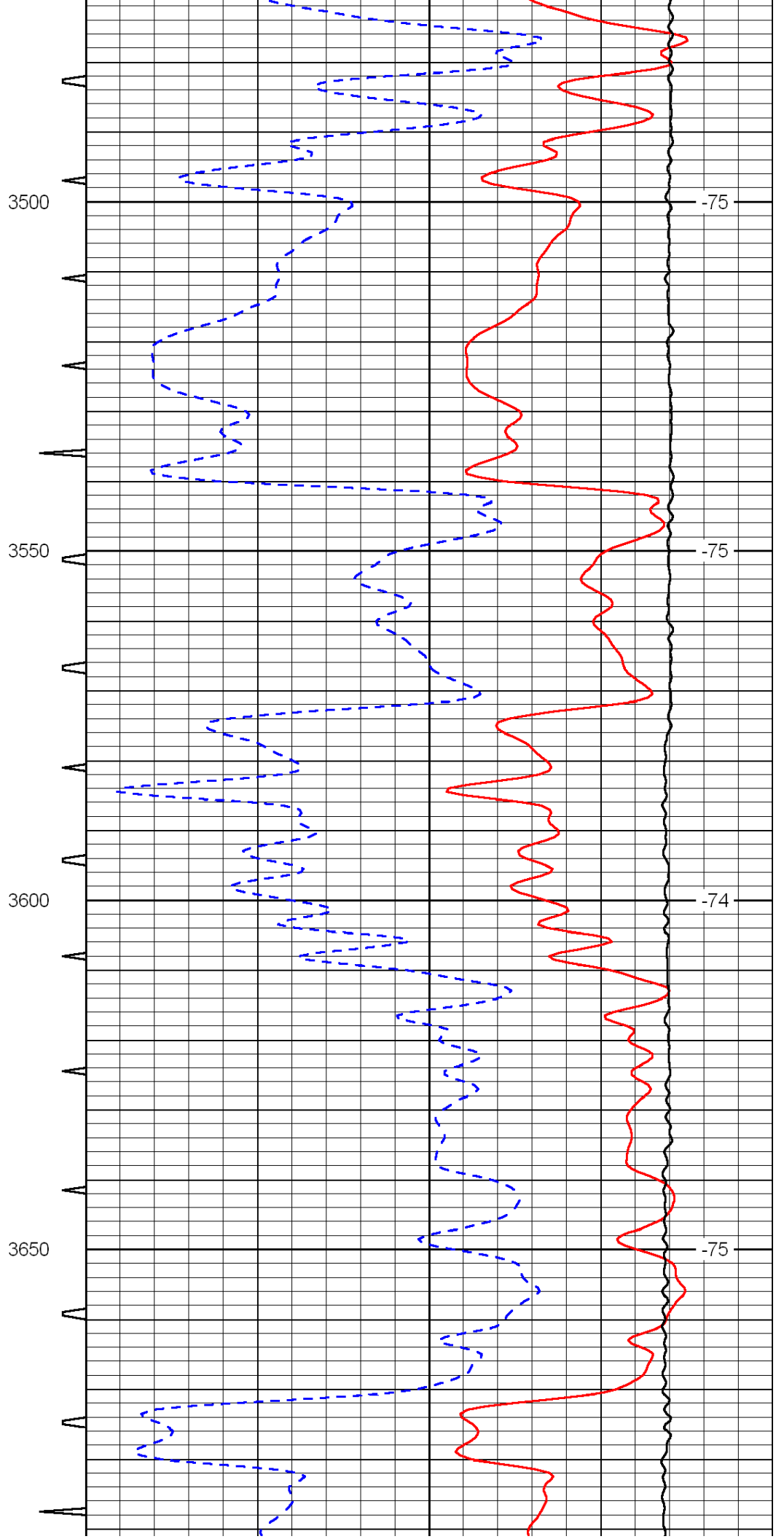
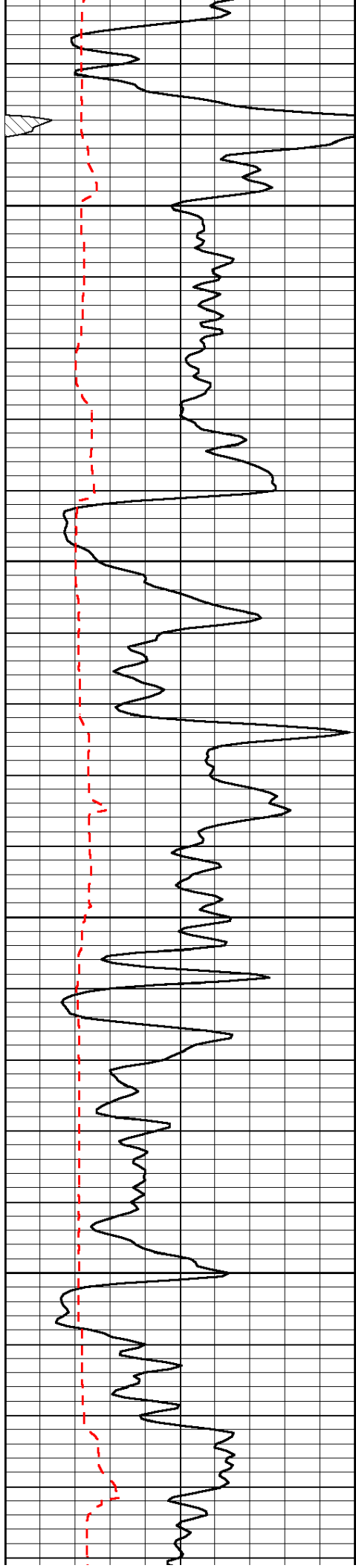


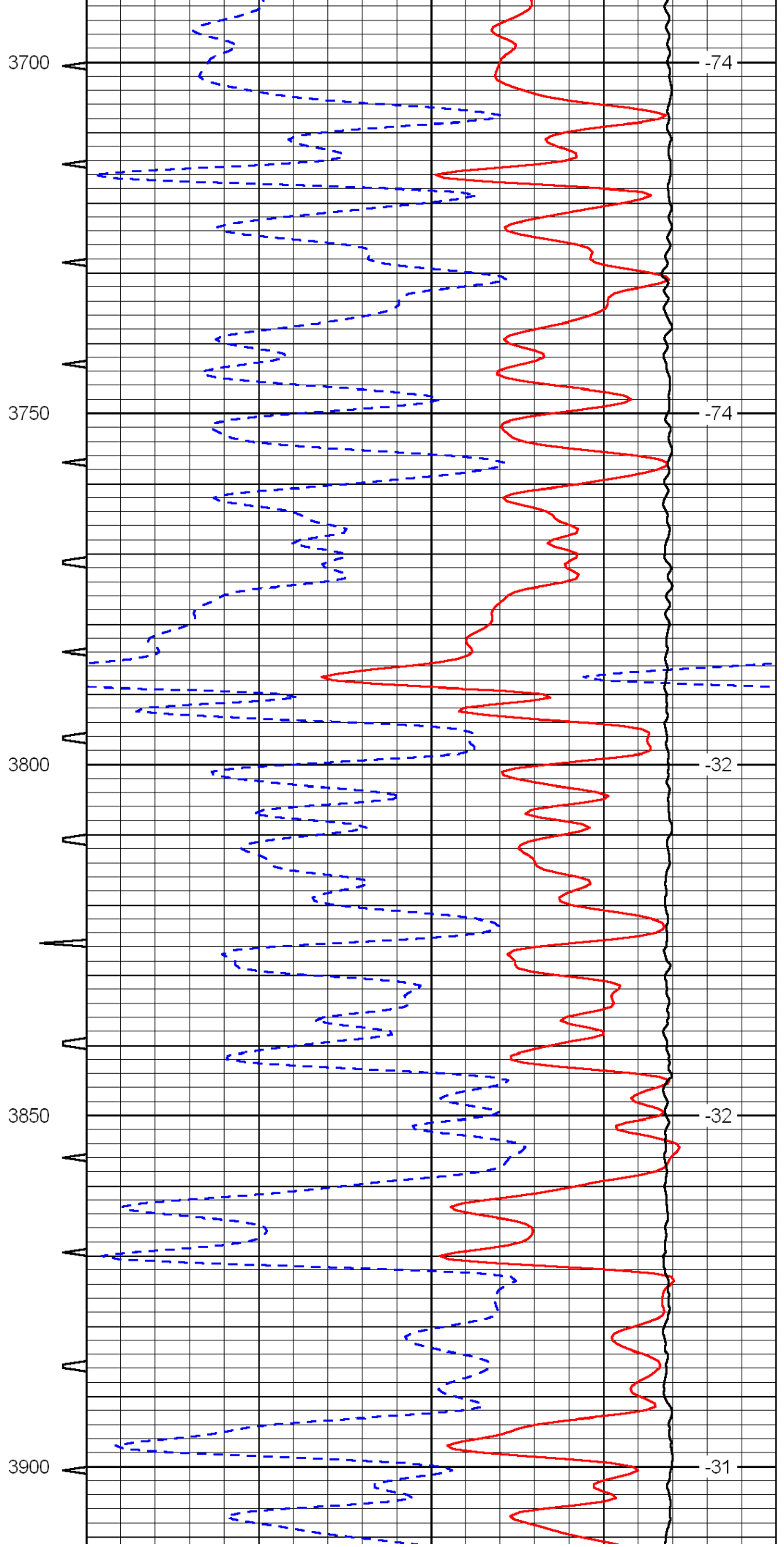
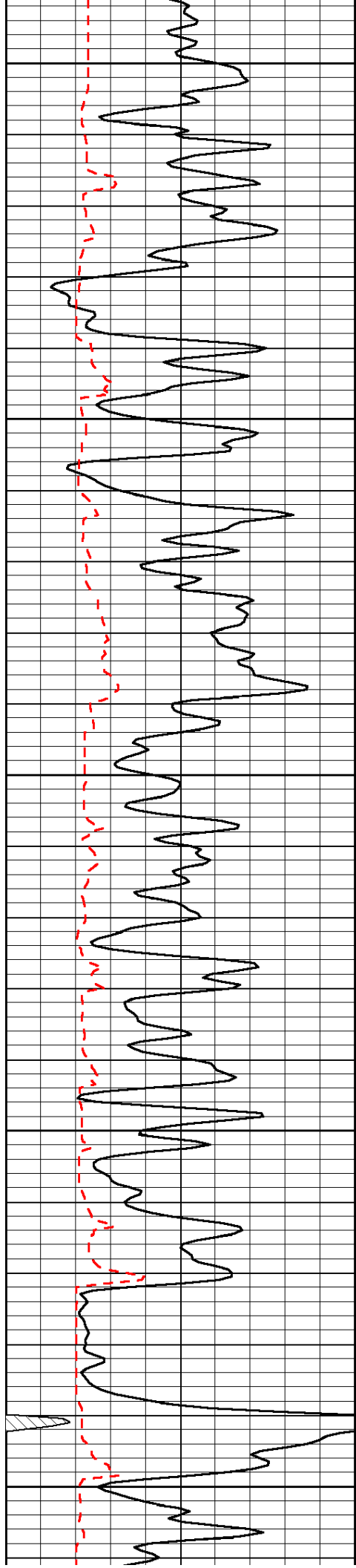


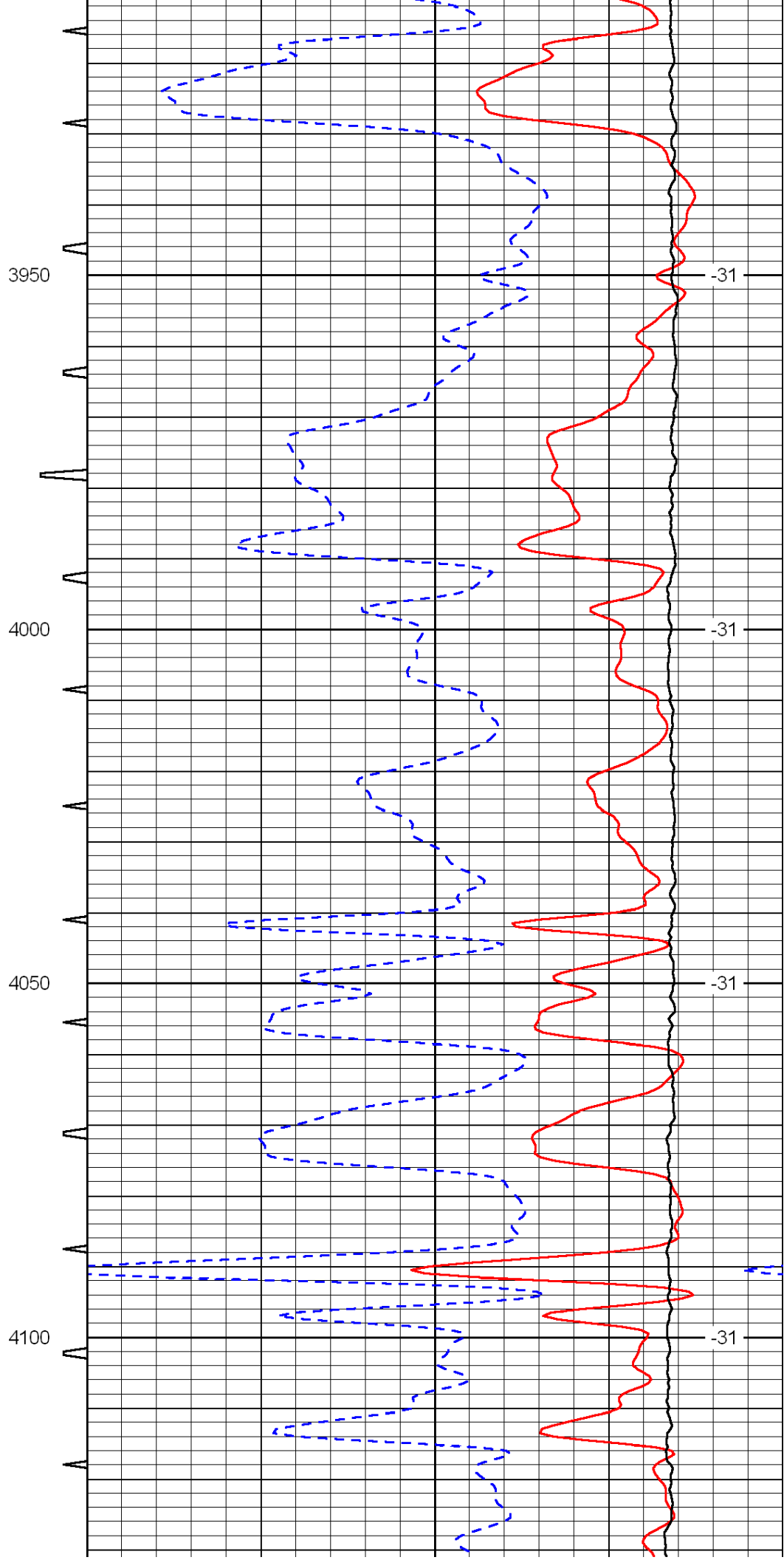
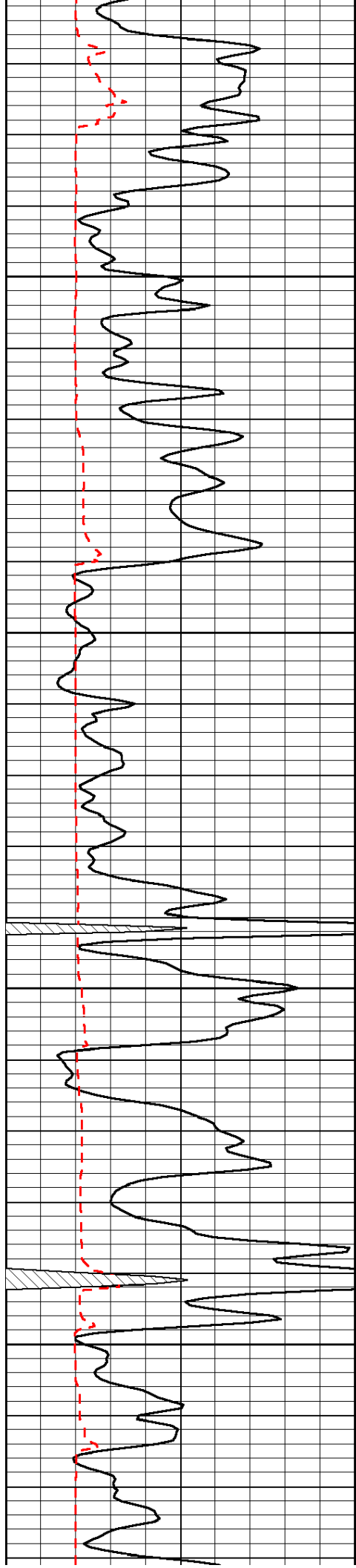


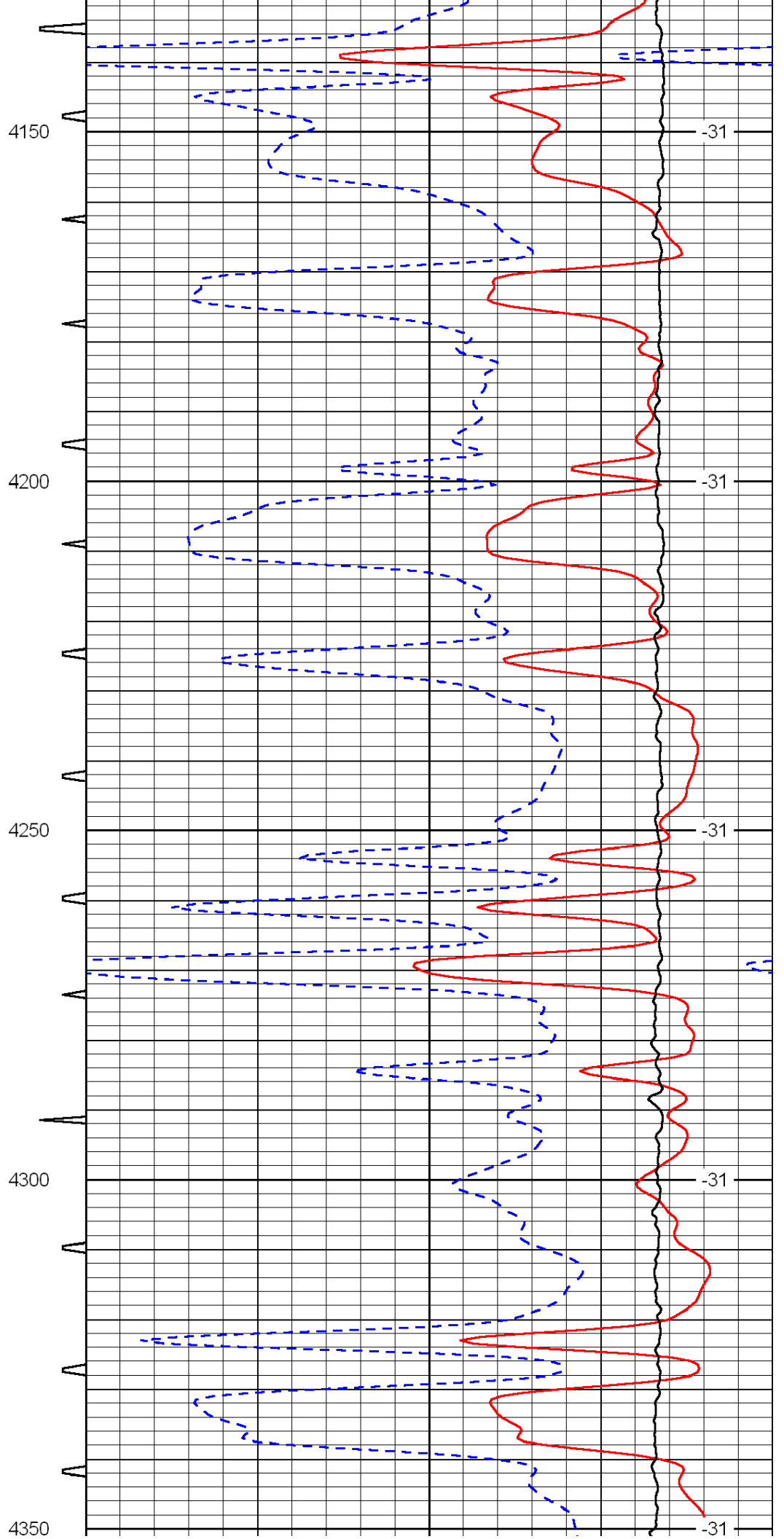
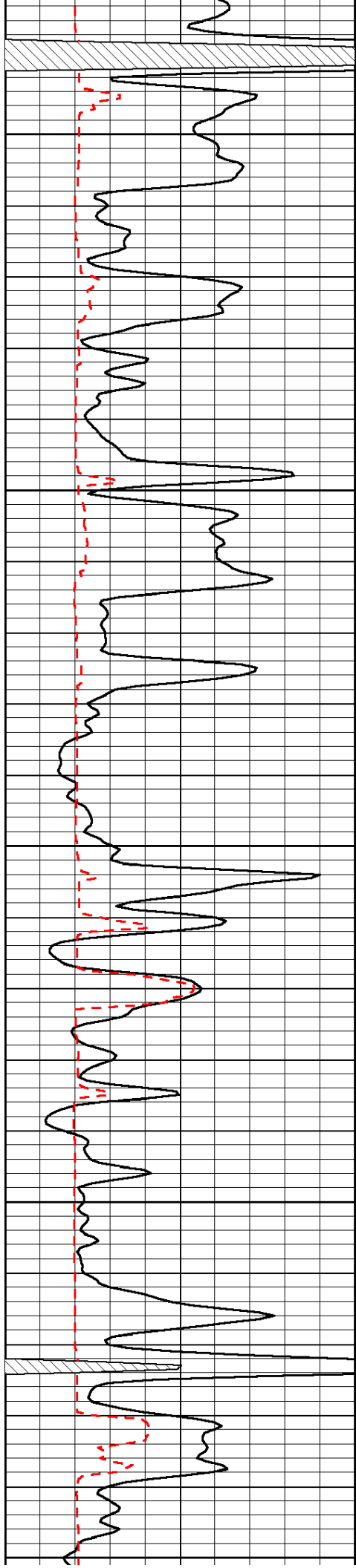


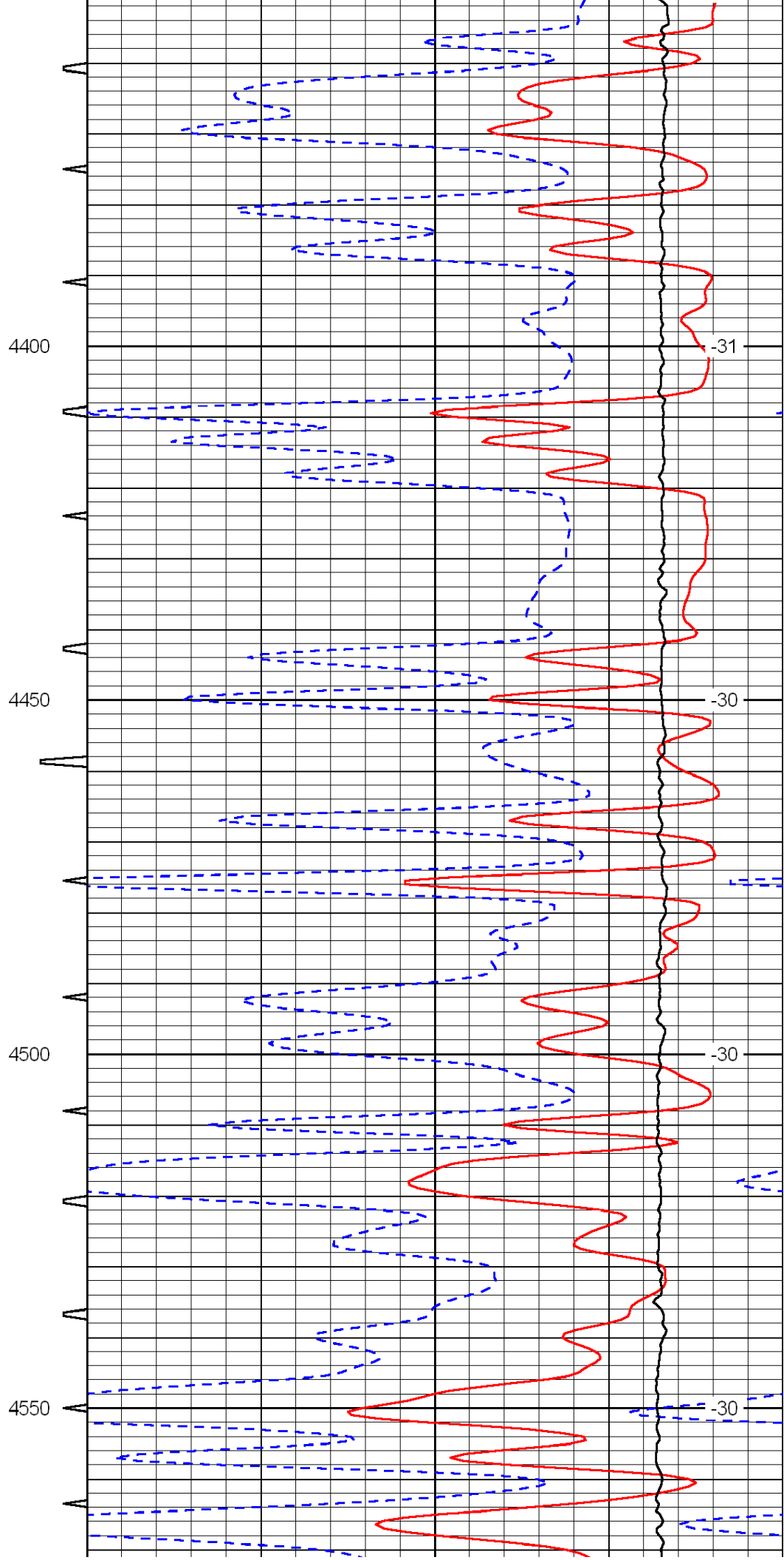
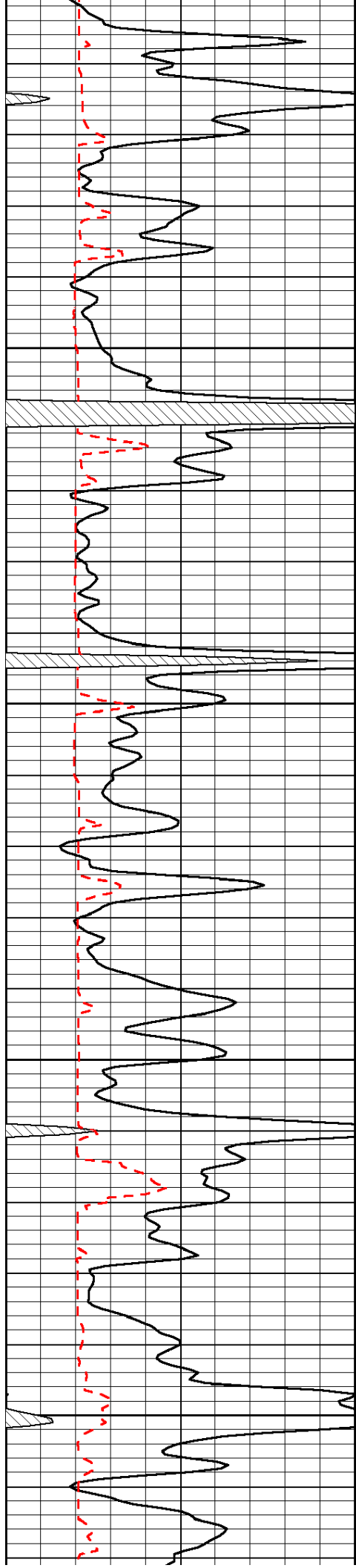


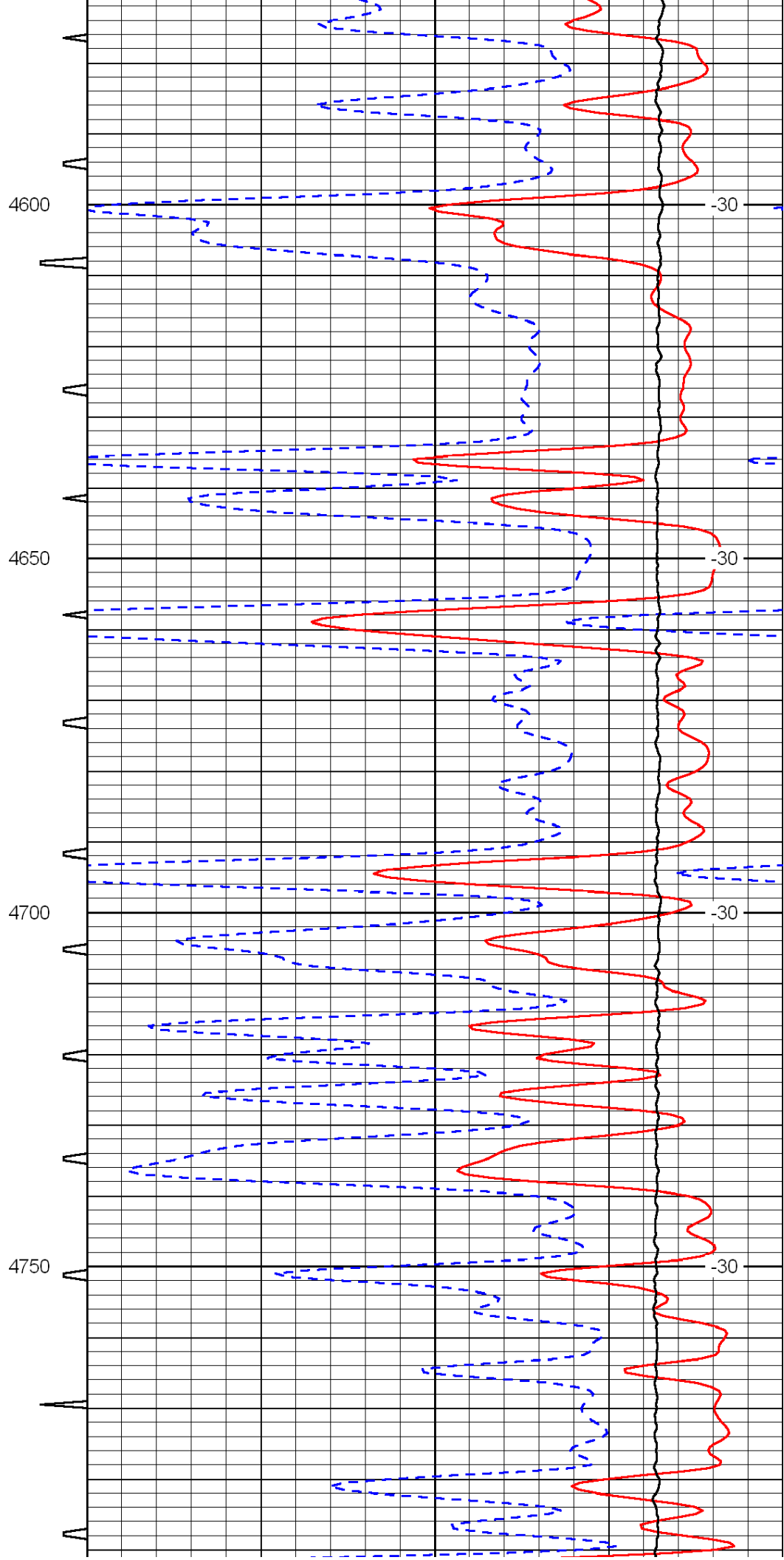
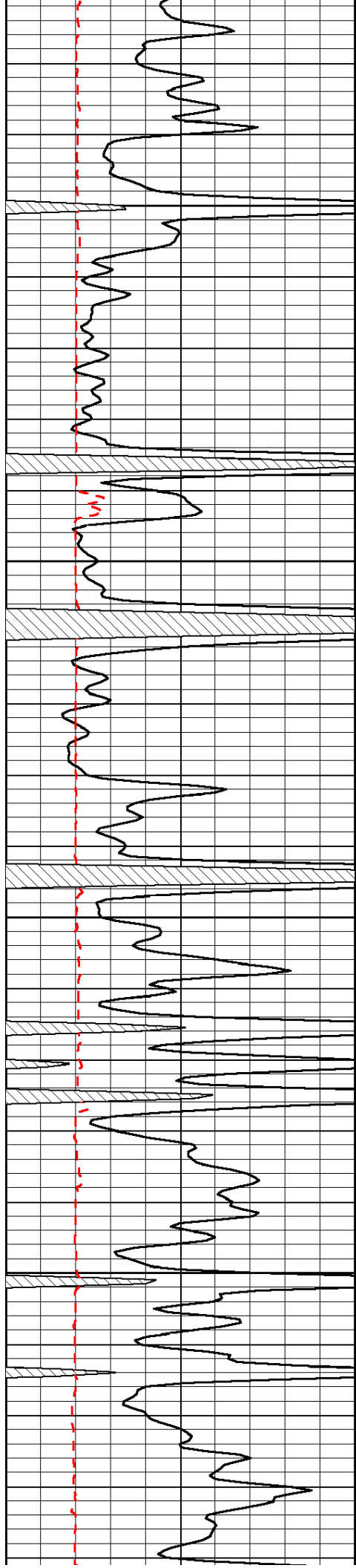


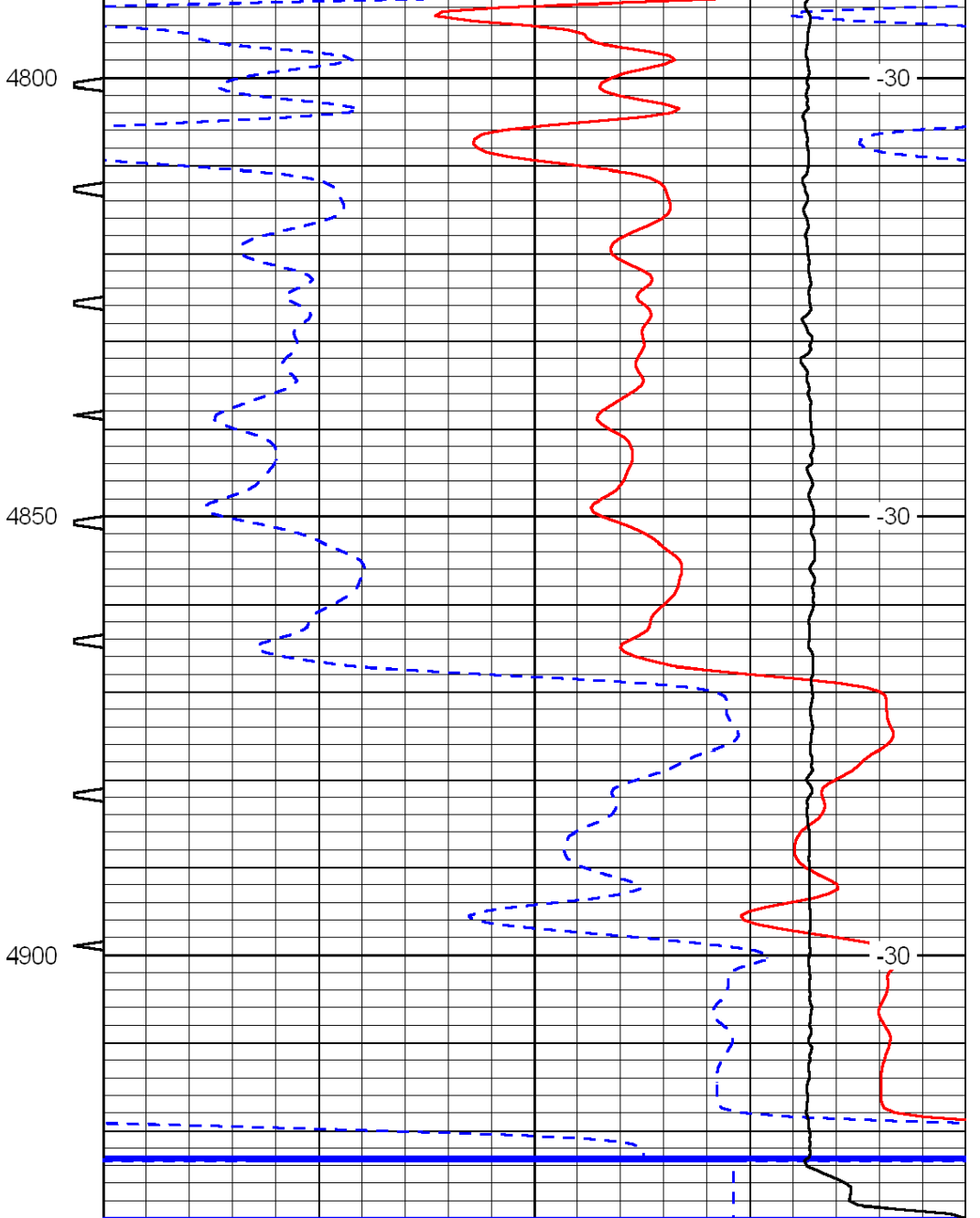
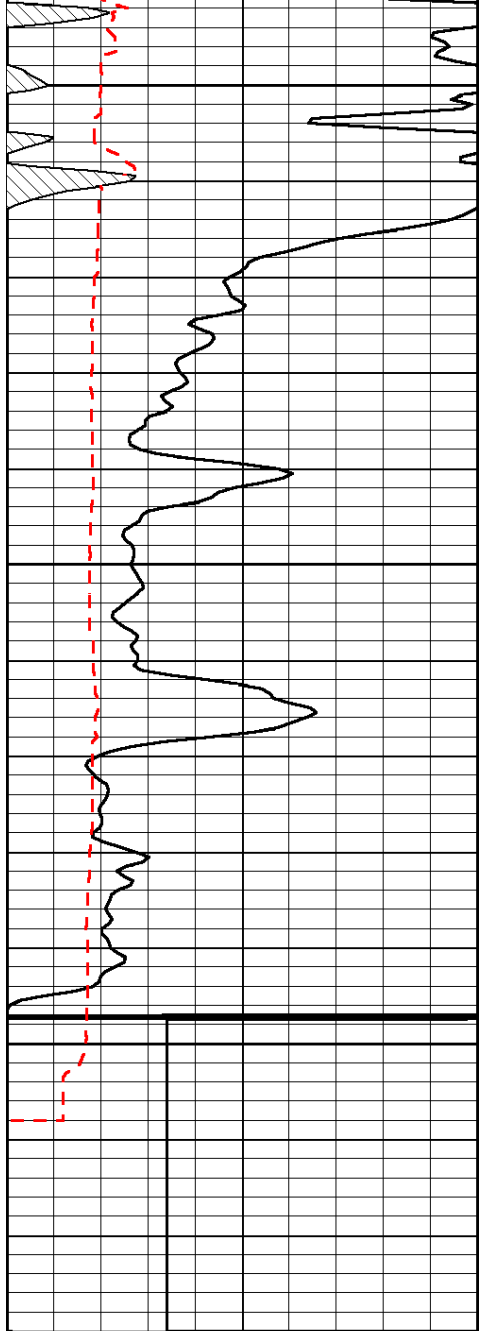












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
LSPD						

ALLIED CEMENTING CO., LLC. 040937

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <i>3-11-12</i>	SEC. <i>22</i>	TWP. <i>10</i>	RANGE <i>35</i>	CALLED OUT	ON LOCATION <i>12:00</i>	JOB START <i>3:00 PM</i>	JOB FINISH <i>4:00 AM</i>
LEASE <i>Mary</i>		WELL # <i>1-22</i>	LOCATION <i>Winona 5N-2E-2N</i>			COUNTY <i>Thomas</i>	STATE <i>Ks.</i>
OLD OR NEW (Circle one) <u>NEW</u>			into				

CONTRACTOR <i>WW-#4</i>	OWNER <i>Same</i>
TYPE OF JOB <i>PTA</i>	
COLE SIZE <i>7 7/8</i>	T.D. <i>4920</i>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <i>4 1/2</i>	DEPTH <i>2800</i>
FOOT	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT			
AMOUNT ORDERED	<i>205</i>	<i>6 1/4</i>	<i>4% Gel</i>
	<i>1/4 Flo seal</i>		
COMMON	<i>125 SKS</i>	@ <i>\$16.25</i>	<i>\$2031.25</i>
POZMIX	<i>80 SKS</i>	@ <i>\$8.00</i>	<i>\$640.00</i>
GEL	<i>7 SKS</i>	@ <i>\$21.25</i>	<i>\$148.75</i>
CHLORIDE		@	
ASC		@	
<i>Flo seal</i>	<i>51 #</i>	@ <i>\$2.70</i>	<i>\$137.70</i>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>214</i>	@ <i>\$2.25</i>	<i>\$481.50</i>
MILEAGE	<i>11 @ Per mile</i>		<i>\$706.22</i>
			TOTAL <i>\$4185.40</i>

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Darren R</i>
# <i>422</i>	HELPER <i>Tyler</i>
BULK TRUCK	
# <i>396-306</i>	DRIVER <i>Brandon</i>
BULK TRUCK	
#	DRIVER

REMARKS:

mix 25 SKS Cement 2800 ft
mix 100 SKS Cement 1780 ft
mix 40 SKS Cement 290 ft
mix 10 SKS Cement 40 ft
Plug RH - 30 SKS Cement

Thank You

CHARGE TO: *Credo*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<i>2800</i>		
PUMP TRUCK CHARGE			<i>\$1250.00</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>30</i>	@ <i>\$7.00</i>	<i>\$210.00</i>
MANIFOLD		@	
<i>LV mileage</i>		@ <i>\$4.00</i>	<i>\$120.00</i>
		@	
			TOTAL <i>\$1580.00</i>

PLUG & FLOAT EQUIPMENT

<i>1 Top Wooden Plug</i>	@	<i>\$92.00</i>
	@	
	@	
	@	
	@	
		TOTAL <i>\$92.00</i>

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 *MARY HANSEN*

SIGNATURE *Mary Hansen*

ALLIED CEMENTING CO., LLC. 035246

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Corkley

DATE <i>3-3-12</i>	SEC <i>22</i>	TWP. <i>10</i>	RANGE <i>35</i>	CALLED OUT	ON LOCATION	JOB START <i>4:30pm</i>	JOB FINISH <i>5:00pm</i>
LEASE <i>Mary</i>	WELL # <i>1-22</i>	LOCATION <i>Winona SN 2E 2N</i>			COUNTY <i>Thomas</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>WINTO</i>			

CONTRACTOR *W+W #4*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *238'*

CASING SIZE *8 7/8* DEPTH *238'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15*

PERFS.

DISPLACEMENT *14.20 BBL*

OWNER *same*

CEMENT AMOUNT ORDERED *160 sks com*

3600 270 gcl

COMMON <i>160 sks</i>	@ <i>16.25</i>	<i>2600.00</i>
POZMIX	@	
GEL <i>3 sks</i>	@ <i>21.25</i>	<i>63.75</i>
CHLORIDE <i>6 sks</i>	@ <i>58.20</i>	<i>349.20</i>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <i>169 sks</i>	@ <i>2.25</i>	<i>380.25</i>
MILEAGE <i>118.55/mile</i>		<i>557.70</i>
		TOTAL <i>3950.90</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Andrew*

423-287 HELPER *Jerry Tyler*

BULK TRUCK

404 DRIVER *Billy Adam*

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: *credo*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <i>238'</i>		
PUMP TRUCK CHARGE		<i>1125.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>30 miles</i>	@ <i>7.00</i>	<i>210.00</i>
MANIFOLD <i>head</i>	@	<i>200.00</i>
<i>Light vehicle</i>	@ <i>4.00</i>	<i>120.00</i>
	@	

TOTAL *1655.00*

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *Justin Hamlin*

SIGNATURE *Justin Hamlin*

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.