



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1085634
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: _____

1085634

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	K & B Norton Oil & Investments, LLC
Well Name	McDaniel 2
Doc ID	1085634

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	K & B Norton Oil & Investments, LLC
Well Name	McDaniel 2
Doc ID	1085634

Tops

Name	Top	Datum
Heebner	-3798	-872
Toronto	-3818	-892
Lansing	-3846	-920
Muncie Creek	-4019	-1093
Base KC	-4185	-1259
Altamont	-4256	-1330
Pawnee	-4330	-1404
Cherokee	-4416	-1490
Johnson Zone	-4451	-1525
Morrow Shale	-4516	-1590



DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

1209 W Park Grove Dr
Manhattan KS 66503

ATTN: Steve Murphy

McDaniel # 2

14 15n 34w Logan,KS

Start Date: 2012.05.30 @ 13:10:00

End Date: 2012.05.30 @ 15:33:00

Job Ticket #: 46568 DST #: 1

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

Printed: 2012.06.13 @ 11:53:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil
 1209 W Park Grove Dr
 Manhattan KS 66503
 ATTN: Steve Murphy

14 15n 34w Logan, KS

McDaniel # 2

Job Ticket: 46568

DST#: 1

Test Start: 2012.05.30 @ 13:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: 2926.00 ft (KB)
 Time Tool Opened: 15:33:15
 Time Test Ended: 15:33:00
 Interval: **4070.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 48
 Reference Elevations: 2926.00 ft (KB)
 2921.00 ft (CF)
 KB to GR/CF: 5.00 ft

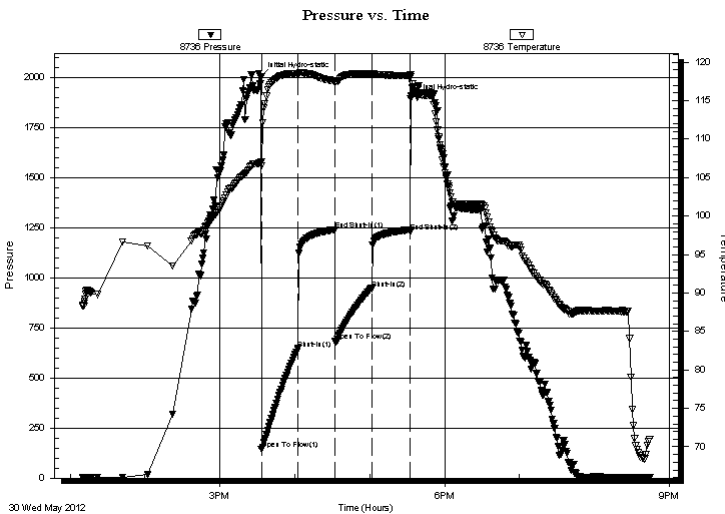
Serial #: 8736

Inside

Press @ Run Depth: 943.17 psig @ 4071.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.30 End Date: 2012.05.30 Last Calib.: 2012.05.30
 Start Time: 13:10:05 End Time: 20:44:59 Time On Btm: 2012.05.30 @ 15:33:00
 Time Off Btm: 2012.05.30 @ 17:32:45

TEST COMMENT: 30-IFP- BOB in 2 min
 30-ISIP- No Blow
 30-FFP- BOB in 2 1/2 min
 30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.47	106.99	Initial Hydro-static
1	144.22	106.59	Open To Flow (1)
30	646.02	118.52	Shut-In(1)
60	1239.66	117.60	End Shut-In(1)
60	681.68	117.32	Open To Flow (2)
89	943.17	118.43	Shut-In(2)
120	1230.44	118.20	End Shut-In(2)
120	1894.78	118.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
403.00	WCM 20%w 80%m	5.65
310.00	MCW 10%m 90%w	4.35
1302.00	Water	18.26

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil
 1209 W Park Grove Dr
 Manhattan KS 66503
 ATTN: Steve Murphy

14 15n 34w Logan,KS

McDaniel # 2

Job Ticket: 46568

DST#: 1

Test Start: 2012.05.30 @ 13:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: 2926.00 ft (KB)

Time Tool Opened: 15:33:15

Time Test Ended: 15:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 48

Interval: 4070.00 ft (KB) To 4100.00 ft (KB) (TVD)

Reference Elevations: 2926.00 ft (KB)

Total Depth: 4100.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @RunDepth: psig @ 4071.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.30

End Date: 2012.05.30

Last Calib.: 2012.05.30

Start Time: 13:10:00

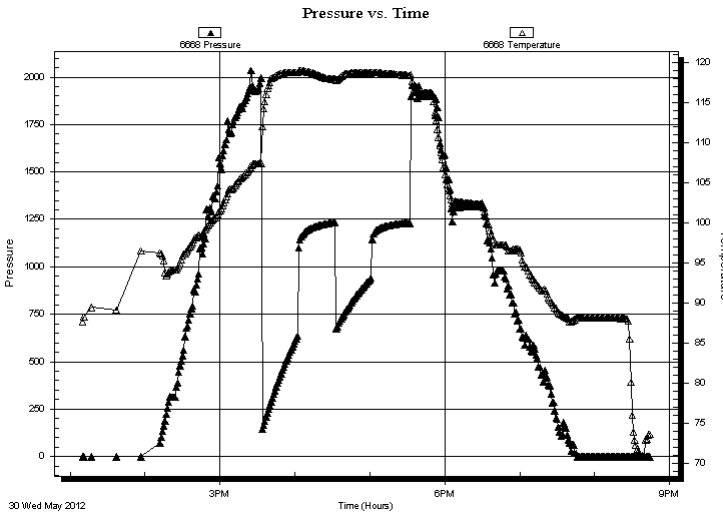
End Time: 20:44:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 2 min
 30-ISIP- No Blow
 30-FFP- BOB in 2 1/2 min
 30-FSIP- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
403.00	WCM 20%w 80%m	5.65
310.00	MCW 10%m 90%w	4.35
1302.00	Water	18.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46568

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.05.30 @ 13:10:00

Tool Information

Drill Pipe:	Length: 4063.00 ft	Diameter: 3.80 inches	Volume: 56.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 56.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4070.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4043.00	
Shut In Tool	5.00			4048.00	
Hydraulic tool	5.00			4053.00	
Jars	5.00			4058.00	
Safety Joint	3.00			4061.00	
Packer	5.00			4066.00	28.00 Bottom Of Top Packer
Packer	4.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8736	Inside	4071.00	
Recorder	0.00	6668	Outside	4071.00	
Perforations	24.00			4095.00	
Bullnose	5.00			4100.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46568

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.05.30 @ 13:10:00

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:

13000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.54 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
403.00	WCM 20%w 80%m	5.653
310.00	MCW 10%m 90%w	4.348
1302.00	Water	18.264

Total Length: 2015.00 ft Total Volume: 28.265 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

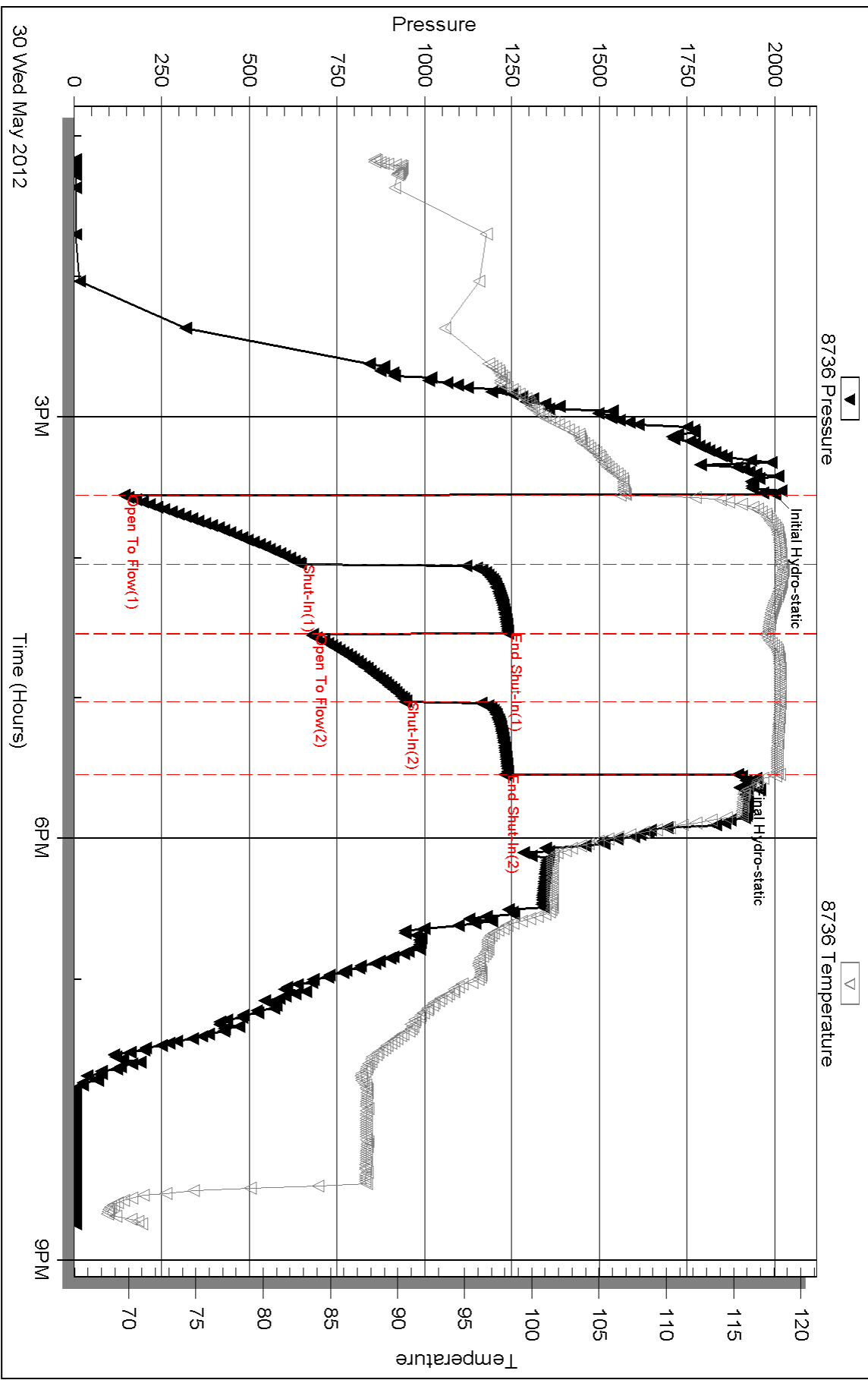
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .488 @ 73

Pressure vs. Time

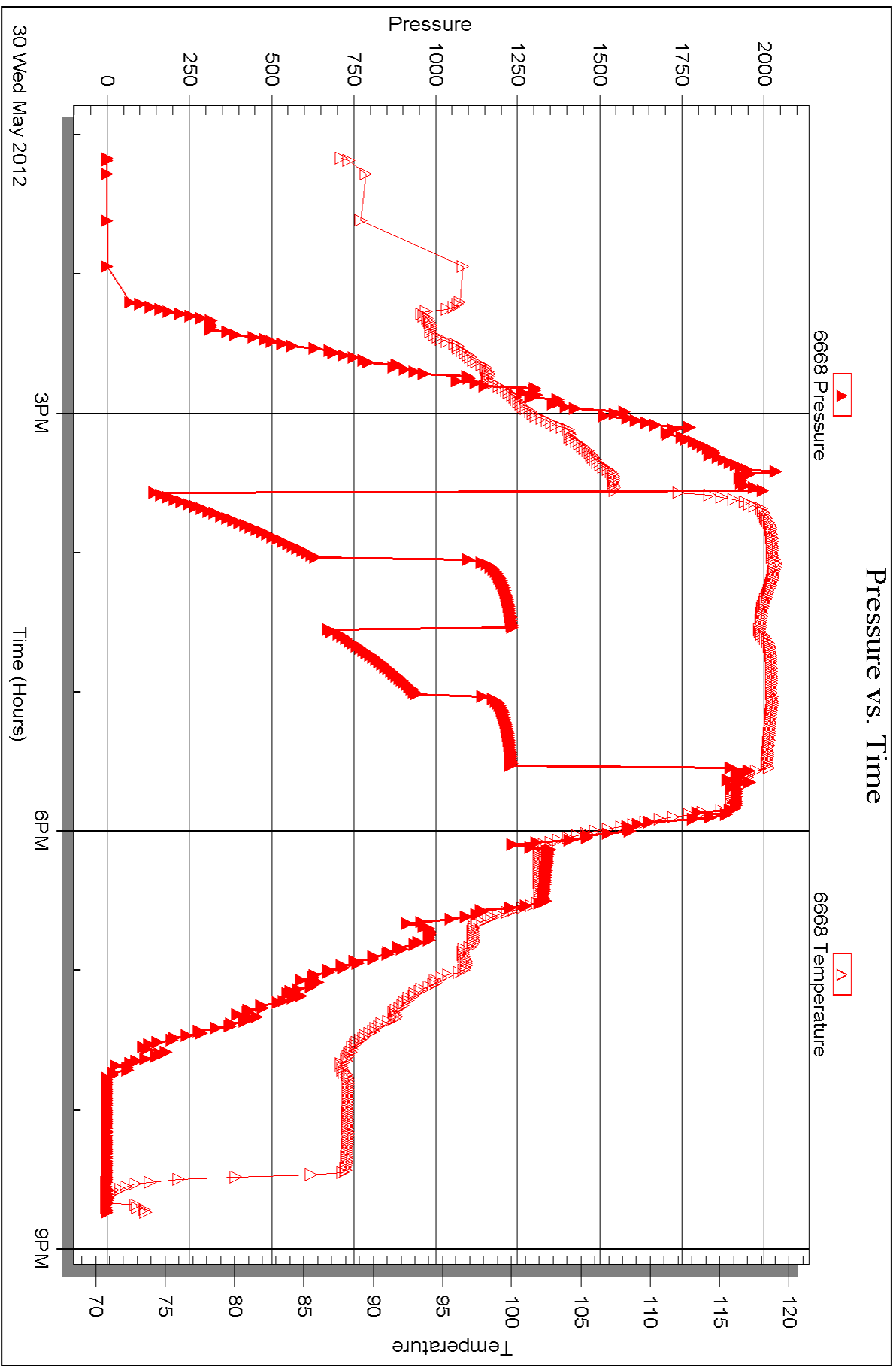


Serial #: 6668

Outside K & B Norton Oil

McDaniel # 2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

1209 W Park Grove Dr
Manhattan KS 66503

ATTN: Steve Murphy

McDaniel # 2

14 15n 34w Logan,KS

Start Date: 2012.05.31 @ 17:20:00

End Date: 2012.05.31 @ 21:55:00

Job Ticket #: 46569 DST #: 2

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

Printed: 2012.06.13 @ 11:52:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K & B Norton Oil
1209 W Park Grove Dr
Manhattan KS 66503
ATTN: Steve Murphy

14 15n 34w Logan,KS

McDaniel # 2

Job Ticket: 46569

DST#: 2

Test Start: 2012.05.31 @ 17:20:00

GENERAL INFORMATION:

Formation: **Altamont B**

Deviated: No Whipstock: 2926.00 ft (KB)

Time Tool Opened: 19:15:00

Time Test Ended: 21:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 48

Interval: 4250.00 ft (KB) To 4305.00 ft (KB) (TVD)

Total Depth: 4305.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2926.00 ft (KB)

2921.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8736 Inside

Press @ Run Depth: psig @ 4252.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 17:20:05

End Time:

21:54:59

Capacity: 8000.00 psig

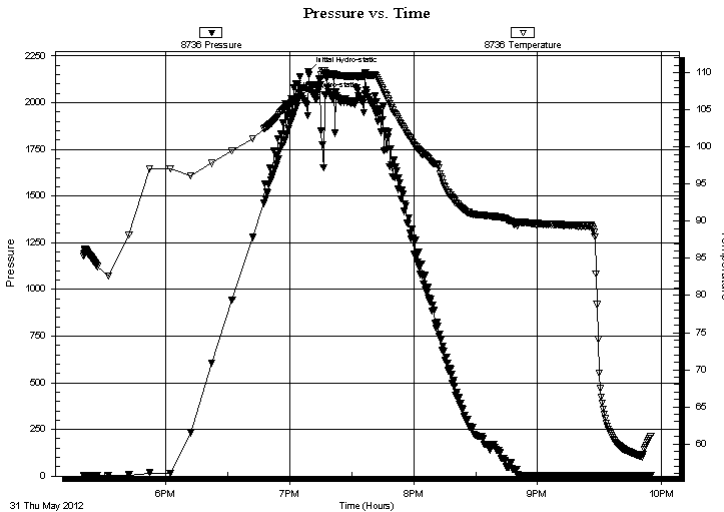
Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 19:09:00

Time Off Btm: 2012.05.31 @ 19:36:30

TEST COMMENT: Packers would not hold.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.23	108.03	Initial Hydro-static
28	2158.33	109.69	Final Hydro-static

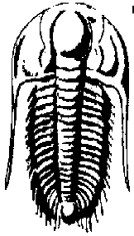
Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K & B Norton Oil
1209 W Park Grove Dr
Manhattan KS 66503
ATTN: Steve Murphy

14 15n 34w Logan,KS

McDaniel # 2

Job Ticket: 46569

DST#: 2

Test Start: 2012.05.31 @ 17:20:00

GENERAL INFORMATION:

Formation: **Altamont B**

Deviated: No Whipstock: 2926.00 ft (KB)

Time Tool Opened: 19:15:00

Time Test Ended: 21:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 48

Interval: **4250.00 ft (KB) To 4305.00 ft (KB) (TVD)**

Reference Elevations: 2926.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4252.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.31

End Date:

2012.05.31

Last Calib.:

2012.05.31

Start Time: 17:20:15

End Time:

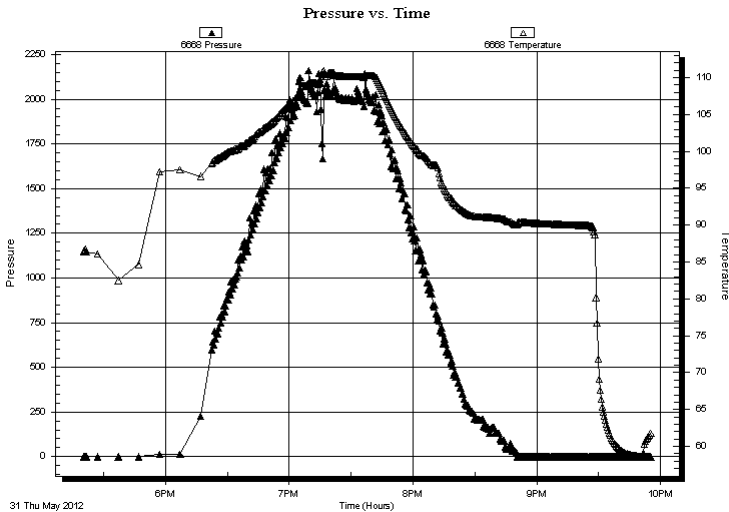
21:55:15

Time On Btm:

Time Off Btm:

TEST COMMENT: Packers would not hold.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46569

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.05.31 @ 17:20:00

Tool Information

Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 59.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4250.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4223.00	
Shut In Tool	5.00			4228.00	
Hydraulic tool	5.00			4233.00	
Jars	5.00			4238.00	
Safety Joint	3.00			4241.00	
Packer	5.00			4246.00	28.00 Bottom Of Top Packer
Packer	4.00			4250.00	
Stubb	1.00			4251.00	
Perforations	1.00			4252.00	
Recorder	0.00	8736	Inside	4252.00	
Recorder	0.00	6668	Outside	4252.00	
Perforations	15.00			4267.00	
Change Over Sub	1.00			4268.00	
Blank Spacing	31.00			4299.00	
Change Over Sub	1.00			4300.00	
Bullnose	5.00			4305.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46569

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.05.31 @ 17:20:00

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: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

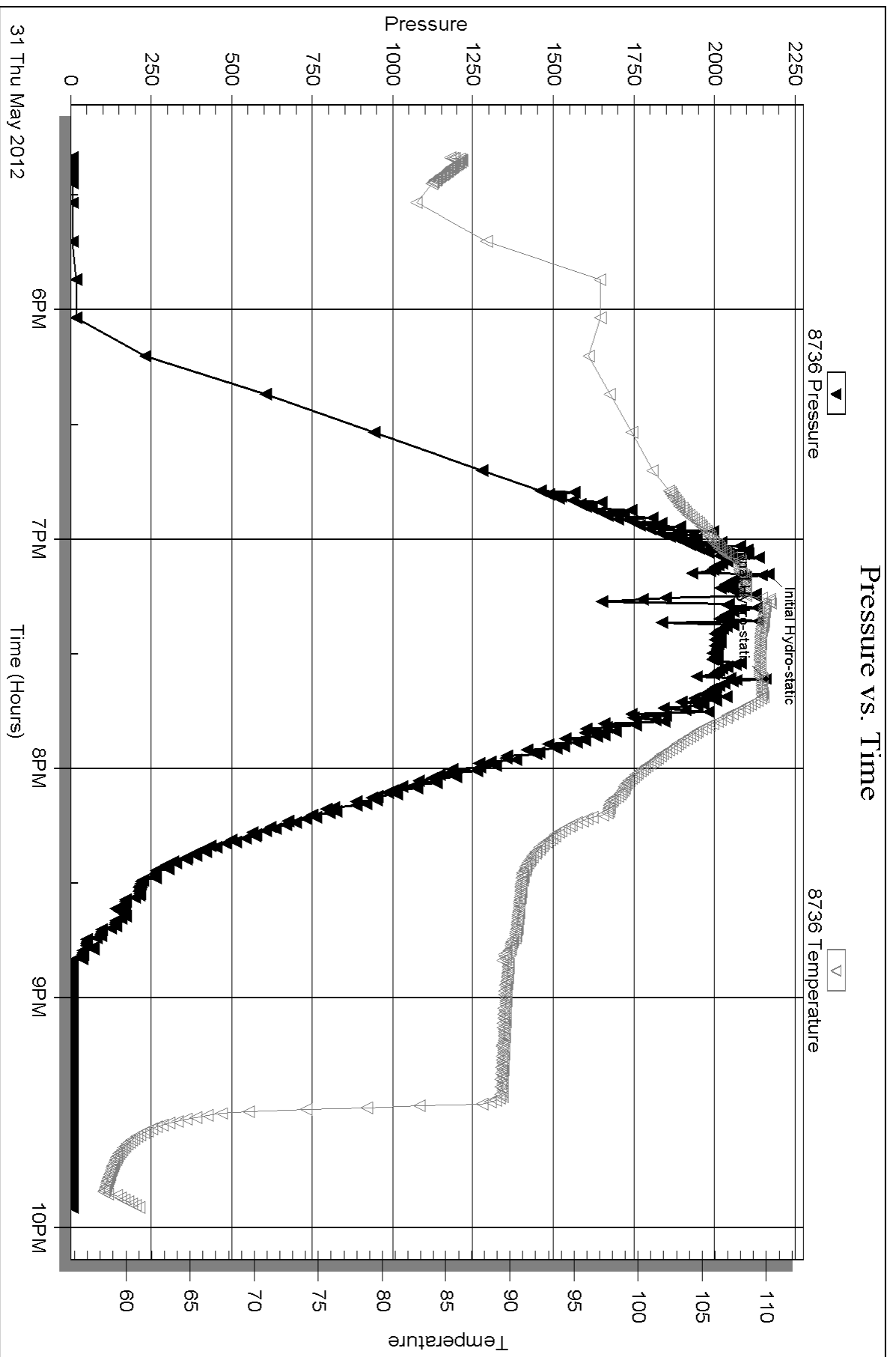
Serial #: 8736

Inside

K & B Norton Oil

McDaniel # 2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46569

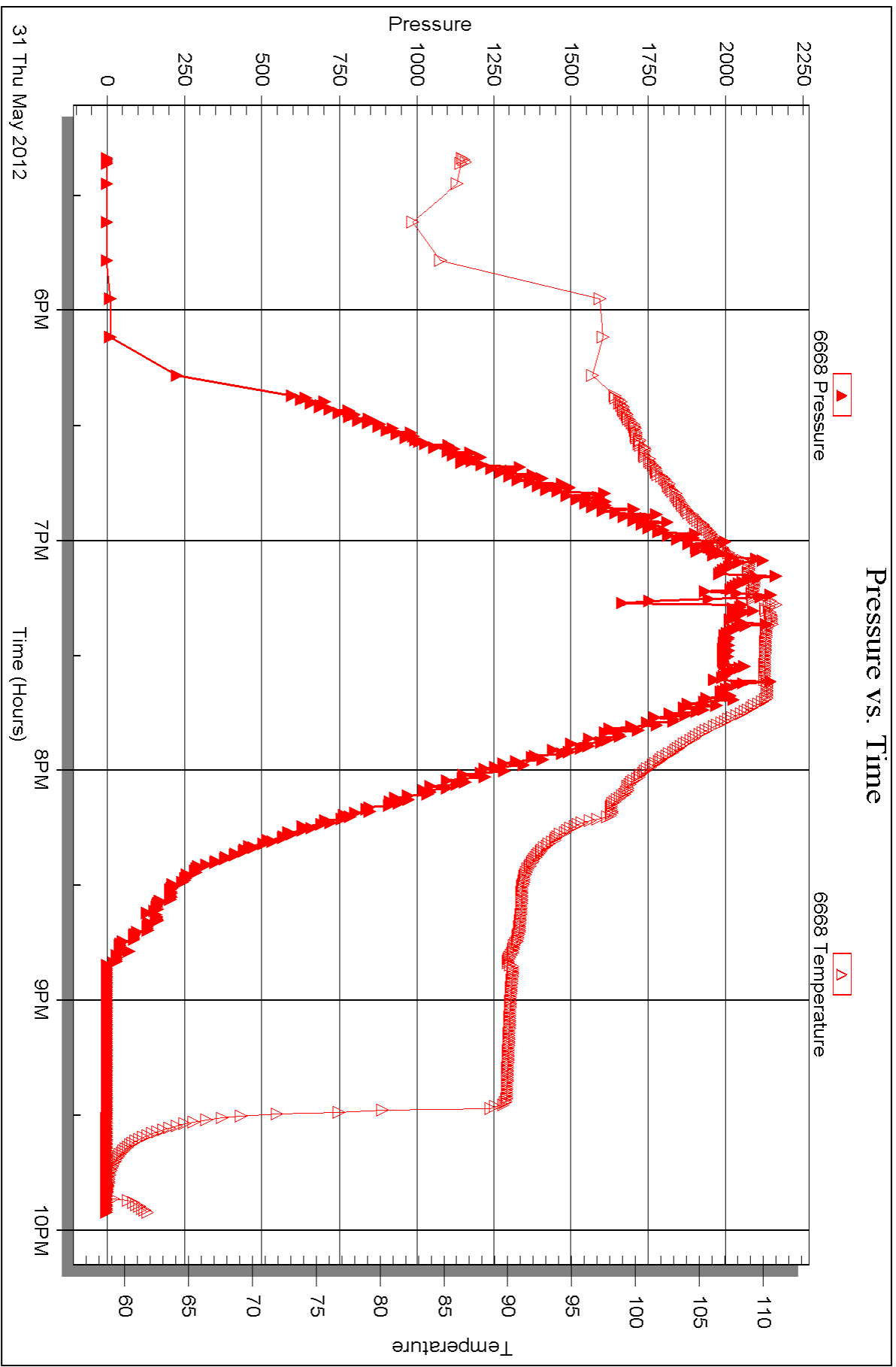
Printed: 2012.06.13 @ 11:52:11

Serial #: 6668

Outside K & B Norton Oil

McDaniel # 2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

1209 W Park Grove Dr
Manhattan KS 66503

ATTN: Steve Murphy

McDaniel # 2

14 15n 34w Logan,KS

Start Date: 2012.05.31 @ 22:16:00

End Date: 2012.06.01 @ 04:25:00

Job Ticket #: 46570 DST #: 3

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

Printed: 2012.06.13 @ 11:51:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil
 1209 W Park Grove Dr
 Manhattan KS 66503
 ATTN: Steve Murphy

14 15n 34w Logan, KS

McDaniel # 2

Job Ticket: 46570

DST#: 3

Test Start: 2012.05.31 @ 22:16:00

GENERAL INFORMATION:

Formation: **Altamont B**

Deviated: No Whipstock: 2926.00 ft (KB)

Time Tool Opened: 00:29:00

Time Test Ended: 04:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 48

Interval: 4266.00 ft (KB) To 4305.00 ft (KB) (TVD)

Reference Elevations: 2926.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 30.62 psig @ 4267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.31

End Date:

2012.06.01

Last Calib.: 2012.06.01

Start Time: 22:16:05

End Time:

04:23:44

Time On Btm: 2012.06.01 @ 00:28:45

Time Off Btm: 2012.06.01 @ 02:46:00

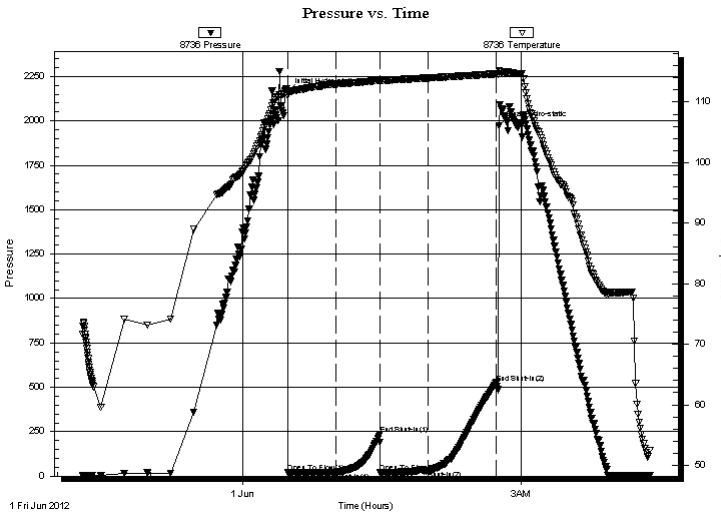
TEST COMMENT: 30-IFP- Surface Blow Building to 1/4" in 3 min

30-ISIP- No Blow

30-FFP- No Blow

45-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.66	111.73	Initial Hydro-static
1	21.80	111.03	Open To Flow (1)
32	22.10	112.98	Shut-In(1)
60	234.08	113.58	End Shut-In(1)
61	21.42	113.54	Open To Flow (2)
91	30.62	113.98	Shut-In(2)
136	525.67	114.65	End Shut-In(2)
138	1972.95	115.23	Final Hydro-static

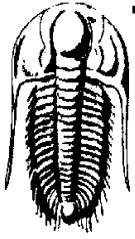
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil
 1209 W Park Grove Dr
 Manhattan KS 66503
 ATTN: Steve Murphy

14 15n 34w Logan, KS
McDaniel # 2
 Job Ticket: 46570 **DST#: 3**
 Test Start: 2012.05.31 @ 22:16:00

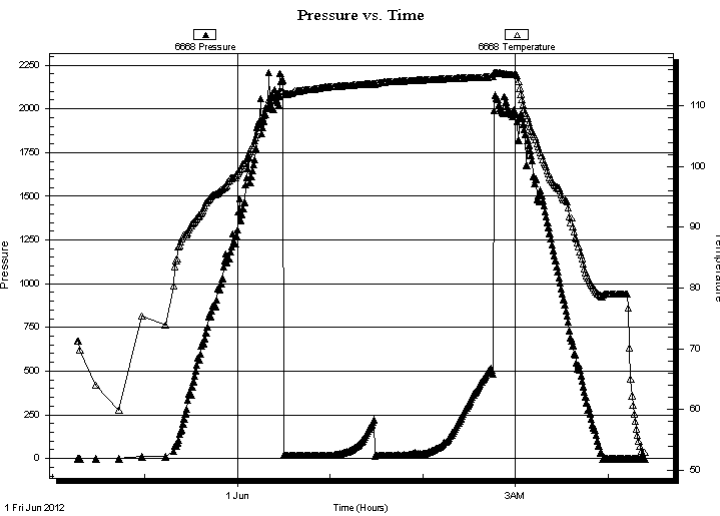
GENERAL INFORMATION:

Formation: **Altamont B**
 Deviated: No Whipstock: 2926.00 ft (KB)
 Time Tool Opened: 00:29:00
 Time Test Ended: 04:25:00
 Interval: **4266.00 ft (KB) To 4305.00 ft (KB) (TVD)**
 Total Depth: 4305.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 48
 Reference Elevations: 2926.00 ft (KB)
 2921.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4267.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.31 End Date: 2012.06.01 Last Calib.: 2012.06.01
 Start Time: 22:16:15 End Time: 04:24:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 1/4" in 3 min
 30-ISIP- No Blow
 30-FFP- No Blow
 45-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46570

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.05.31 @ 22:16:00

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 59.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4266.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	28.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8736	Inside	4267.00	
Recorder	0.00	6668	Outside	4267.00	
Perforations	33.00			4300.00	
Bullnose	5.00			4305.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46570

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.05.31 @ 22:16:00

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: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

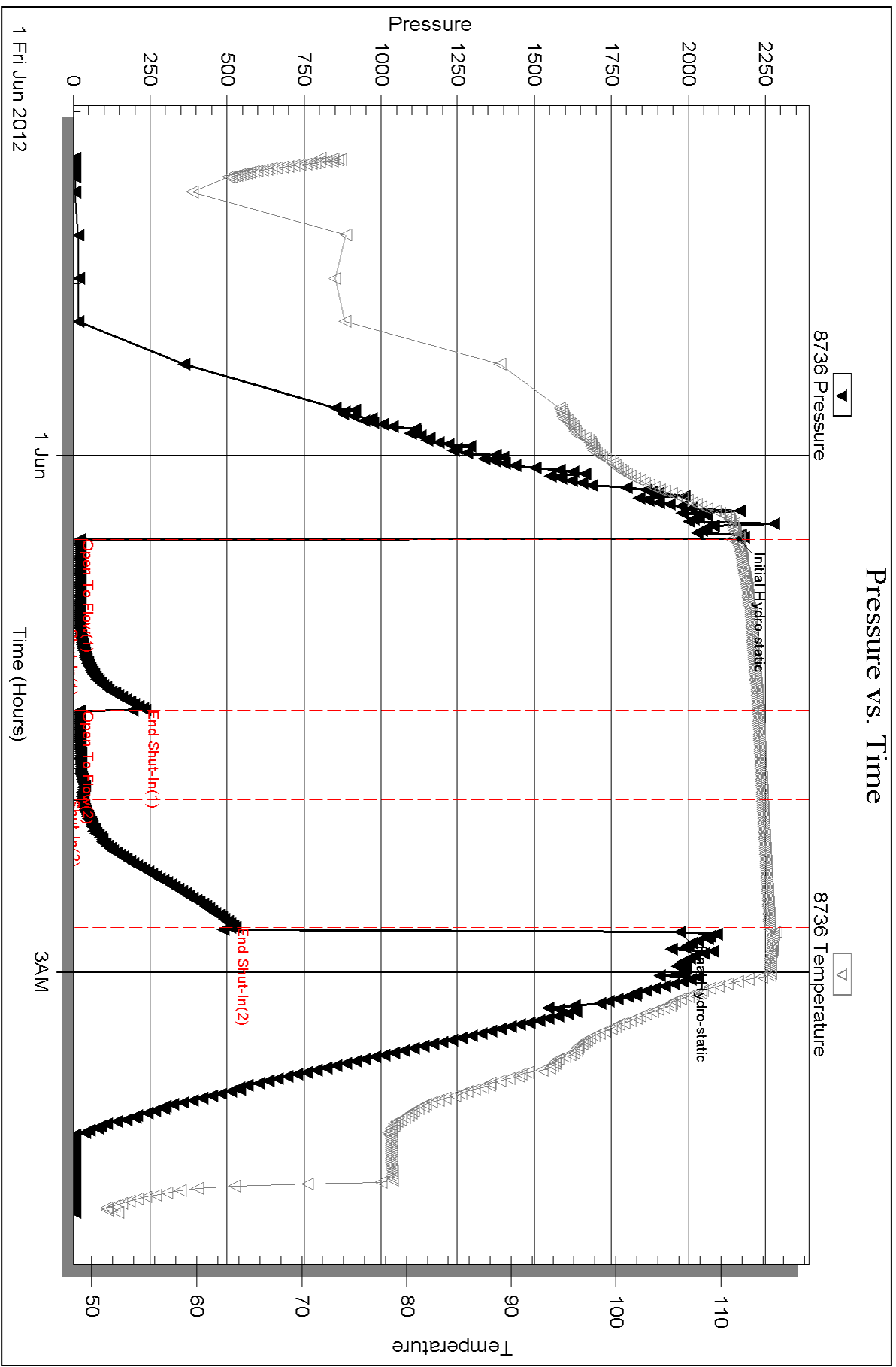
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

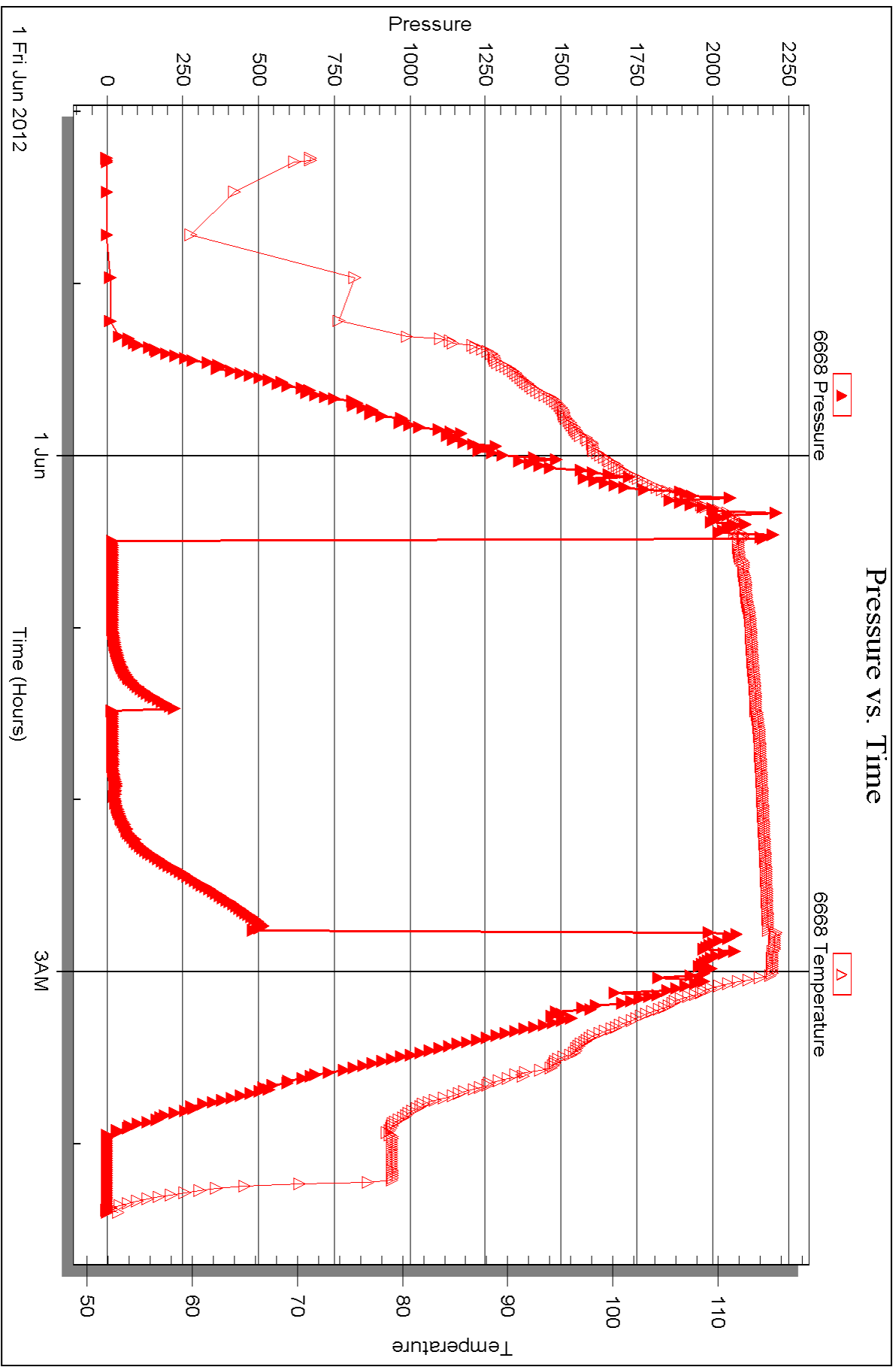


Serial #: 6668

Outside K & B Norton Oil

McDaniel # 2

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

1209 W Park Grove Dr
Manhattan KS 66503

ATTN: Steve Murphy

McDaniel # 2

14 15n 34w Logan,KS

Start Date: 2012.06.01 @ 21:40:00

End Date: 2012.06.02 @ 02:20:00

Job Ticket #: 46571 DST #: 4

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

Printed: 2012.06.13 @ 11:50:02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K & B Norton Oil
1209 W Park Grove Dr
Manhattan KS 66503
ATTN: Steve Murphy

14 15n 34w Logan, KS

McDaniel # 2

Job Ticket: 46571

DST#: 4

Test Start: 2012.06.01 @ 21:40:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: 2926.00 ft (KB)

Time Tool Opened: 23:49:45

Time Test Ended: 02:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 48

Interval: 4386.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 2926.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 21.49 psig @ 4387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.01

End Date:

2012.06.02

Last Calib.: 2012.06.02

Start Time: 21:40:05

End Time:

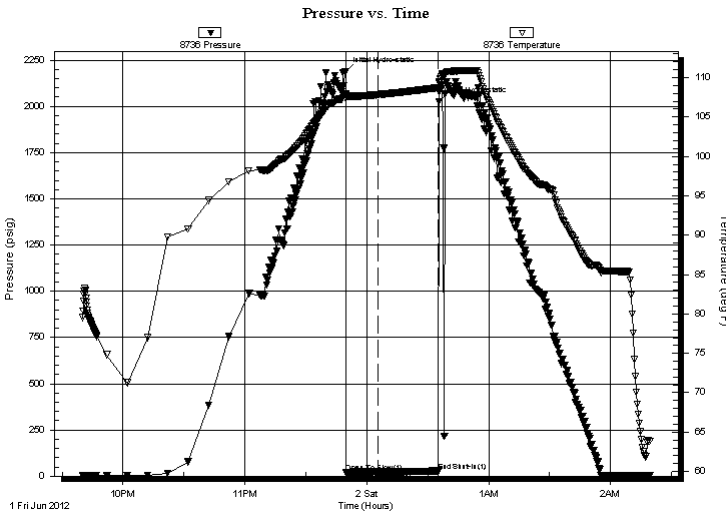
02:19:29

Time On Btm: 2012.06.01 @ 23:49:30

Time Off Btm: 2012.06.02 @ 00:35:30

TEST COMMENT: 15-IFP- Surface Blow Died in 14 min
30-ISIP- No Blow
Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.69	107.89	Initial Hydro-static
1	21.43	107.29	Open To Flow (1)
16	21.49	107.82	Shut-In(1)
46	28.51	108.72	End Shut-In(1)
46	2026.50	109.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil
 1209 W Park Grove Dr
 Manhattan KS 66503
 ATTN: Steve Murphy

14 15n 34w Logan,KS

McDaniel # 2

Job Ticket: 46571

DST#: 4

Test Start: 2012.06.01 @ 21:40:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: 2926.00 ft (KB)
 Time Tool Opened: 23:49:45
 Time Test Ended: 02:20:00
 Interval: **4386.00 ft (KB) To 4420.00 ft (KB) (TVD)**
 Total Depth: 4420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 48
 Reference Elevations: 2926.00 ft (KB)
 2921.00 ft (CF)
 KB to GR/CF: 5.00 ft

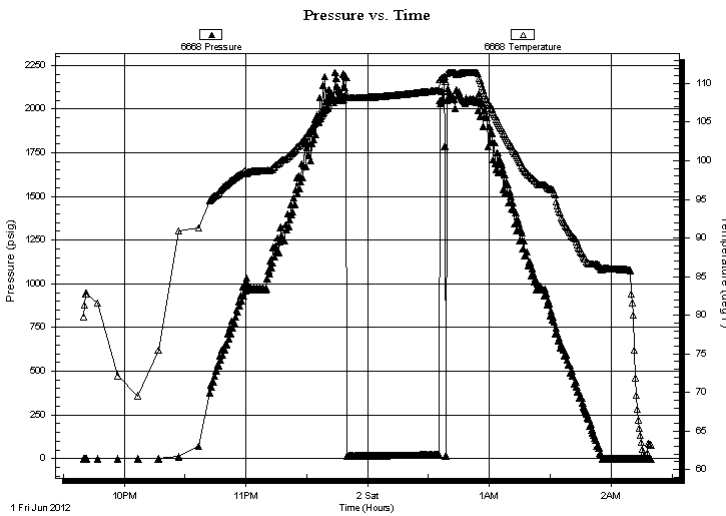
Serial #: 6668

Outside

Press@RunDepth: psig @ 4387.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.01 End Date: 2012.06.02 Last Calib.: 2012.06.02
 Start Time: 21:40:00 End Time: 02:19:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP- Surface Blow Died in 14 min
 30-ISIP- No Blow
 Pulled

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46571

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.01 @ 21:40:00

Tool Information

Drill Pipe:	Length: 4379.00 ft	Diameter: 3.80 inches	Volume: 61.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: 61.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4386.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 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			4359.00	
Shut In Tool	5.00			4364.00	
Hydraulic tool	5.00			4369.00	
Jars	5.00			4374.00	
Safety Joint	3.00			4377.00	
Packer	5.00			4382.00	28.00 Bottom Of Top Packer
Packer	4.00			4386.00	
Stubb	1.00			4387.00	
Recorder	0.00	8736	Inside	4387.00	
Recorder	0.00	6668	Outside	4387.00	
Perforations	28.00			4415.00	
Bullnose	5.00			4420.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

14 15n 34w Logan,KS

1209 W Park Grove Dr
Manhattan KS 66503

McDaniel # 2

Job Ticket: 46571

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.01 @ 21:40:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: No Fluid in pipe.

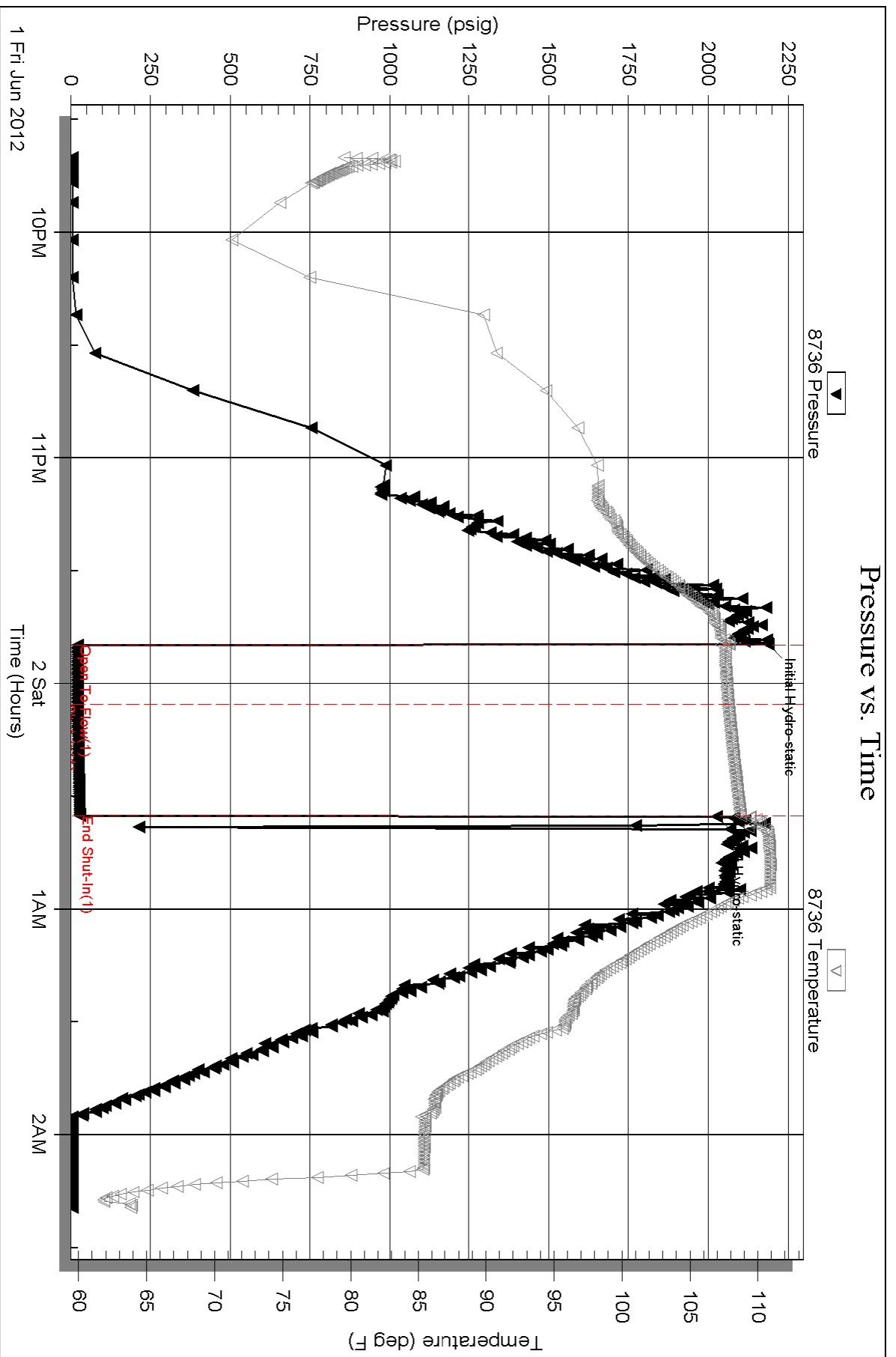
Serial #: 8736

Inside

K & B Norton Oil

McDaniel # 2

DST Test Number: 4

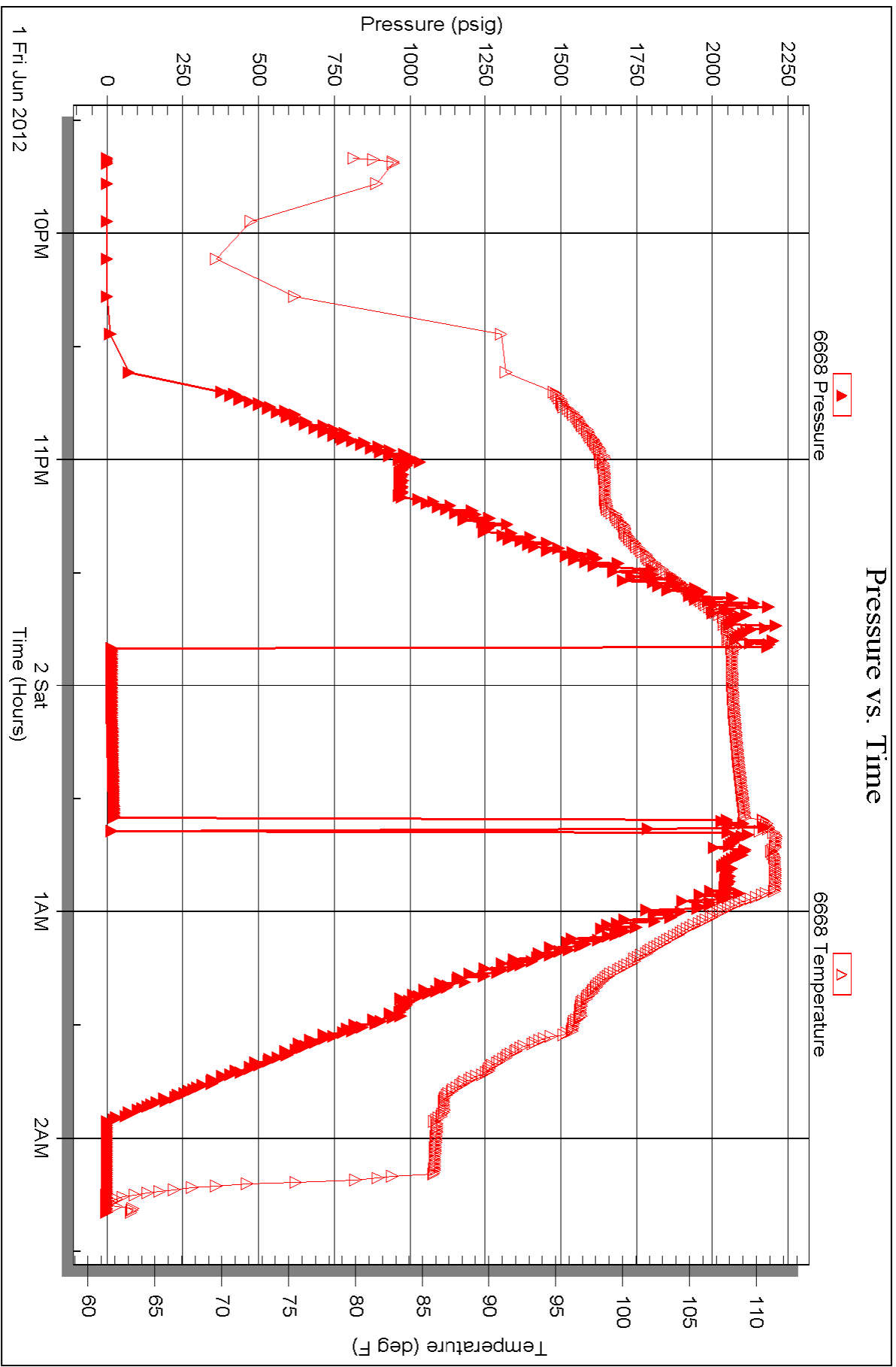


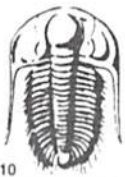
Serial #: 6668

Outside K & B Norton Oil

McDaniel # 2

DST Test Number: 4





TRIBOLITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46568

4/10

Well Name & No. McDaniel #2 Test No. 1 Date 5-30-12
 Company K&B Norton Oil Elevation 2926 KB 2921 GL
 Address 1209 W. Park Grove Dr. MANHATTAN KS. 66503
 Co. Rep / Geo. Steve Murphy Rig LD Rig #1
 Location: Sec. 14 Twp. 15^N Rge. 34^W Co. LOGAN State Ks

Interval Tested 4070-4100 Zone Tested LKC "J"
 Anchor Length 30 Drill Pipe Run 4063 Mud Wt. 9.0
 Top Packer Depth 4065 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4070 Wt. Pipe Run 0 WL 7.6
 Total Depth 4100 Chlorides 4000 ppm System LCM 1

Blow Description IFP - BOB in 2min
~~IFP - No Blow~~
FFP - BOB in 2 1/2 min
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>403</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
<u>310</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>1302</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2015 BHT 118 Gravity _____ API RW 488 @ 73 °F Chlorides 13000 ppm

(A) Initial Hydrostatic <u>2001</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>09:58</u>
(B) First Initial Flow <u>144</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>13:10</u>
(C) First Final Flow <u>646</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>15:33</u>
(D) Initial Shut-In <u>1239</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:33</u>
(E) Second Initial Flow <u>681</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:45</u>
(F) Second Final Flow <u>943</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT</u> 93	Comments _____
(G) Final Shut-In <u>1230</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1894</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1668</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1668</u>	

Approved By _____ Our Representative [Signature]

Tribolite 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

Test Ticket

NO. 46569

4/10

Well Name & No. McDaniel #2 Test No. 2 Date 5-31-12
 Company K & B Norton Oil Elevation 2926 KB 2921 GL
 Address 1209 W. Park Grove Dr. MANHATTAN KS. 66503
 Co. Rep / Geo. Steve Murphy Rig LD Rig #1
 Location: Sec. 14 Twp. 15 Rge. 34^w Co. LOGAN State Ks

Interval Tested 4250 - 4350 Zone Tested Altamont B
 Anchor Length 55 Drill Pipe Run 4253 Mud Wt. 9.1
 Top Packer Depth 4245 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4250 Wt. Pipe Run 0 WL 8.0
 Total Depth 4305 Chlorides 5200 ppm System LCM 1

Blow Description IFP-
ISIP-
FFP-
FSIP-

Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 1050 _____ T-On Location 14:10
 (B) First Initial Flow _____ Jars 250 _____ T-Started 17:20
 (C) First Final Flow _____ Safety Joint 75 _____ T-Open 19:15
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled ~~21:55~~ 19:30
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 21:55
 (F) Second Final Flow _____ Mileage 60 RT 93 _____ Comments Packers would not hold.
 (G) Final Shut-In _____ Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In _____ Day Standby _____ Total 1468
 Final Flow _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1468

Approved By _____ 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

Test Ticket

NO. 46570

4/10

Well Name & No. Mc Daniel #2 Test No. 3 Date 5-31-12
 Company K & B Norton Oil Elevation 2926 KB 2921 GL
 Address 1209 W. Park Grove Dr. Manhattan Ks. 66503
 Co. Rep / Geo. Steve Murphy Rig LD Rig #1
 Location: Sec. 14 Twp. 15N Rge. 34W Co. Logan State KS

Interval Tested 4266-4305 Zone Tested Altamont B
 Anchor Length 39 Drill Pipe Run 4254 Mud Wt. 9.1
 Top Packer Depth 4261 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 4266 Wt. Pipe Run 0 WL 8.0
 Total Depth 4305 Chlorides 5200 ppm System LCM 1

Blow Description IFP - Surface Blow Building to 1/4 in in 3 min
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2161</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>21:10</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>22:16</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>00:30</u>
(D) Initial Shut-In <u>234</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>02:45</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:25</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage 93	Comments _____
(G) Final Shut-In <u>525</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1972</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1668</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	Sub Total <u>1668</u>

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46571

4/10

Well Name & No. Mc Daniel # 2 Test No. 4 Date 6-1-12
 Company K + B Norton Oil Elevation 2926 KB 2921 GL
 Address 1209 W. Park Grove Dr. Manhattan Ks. 66503
 Co. Rep / Geo. Steve Murphy Rig LD Rig #1
 Location: Sec. 14 Twp. 15^N Rge. 34^W Co. Logan State Ks

Interval Tested 4386-4420 Zone Tested Fort Scott
 Anchor Length 34 Drill Pipe Run 4379 Mud Wt. 9.2
 Top Packer Depth 4381 Drill Collars Run 0 Vis 64
 Bottom Packer Depth 4386 Wt. Pipe Run 0 WL 8.8
 Total Depth 4420 Chlorides 6400 ppm System LCM 1

Blow Description IFP - Surface Blow Died in 14min
ISFP - No Blow
FFP - pulled.
FSIP -

Rec	Feet of	%gas	%oil	%water	%mud
	<u>No Fluid in Pipe</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>19:20</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>21:40</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>23:50</u>
(D) Initial Shut-In <u>28</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>00:35</u>
(E) Second Initial Flow _____	<input type="checkbox"/> Hourly Standby	T-Out <u>02:20</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage 93	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2026</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>pulled</u>	<input type="checkbox"/> Extra Recorder	Total <u>1668</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1668</u>	

Approved By _____ 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.



DIGITAL LOG (785) 625-3858

Dual Induction Log

15-109-21,096-00-00

API No.

Company **K&B Norton Oil & Investments, LLC**
 Well **McDaniel No. 2**
 Field **Wildcat**
 County **Logan** State **Kansas**

Location **NW SW NW NE**
726' FNL & 2,890' FWL
 Sec: **14** Twp: **15S** Rge: **34W**
 Other Services
 CNL/CDL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **2921**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Date	6/3/2012		Elevation	K.B. 2926
Run Number	One		D.F.	2921
Depth Driller	4690		G.L.	2921
Depth Logger	4692			
Bottom Logged Interval	4691			
Top Log Interval	250			
Casing Driller	8.625 @ 290			
Casing Logger	289			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	7200			
Density / Viscosity	9.2 61			
pH / Fluid Loss	9.5 10.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	.44 @ 66			
Rmf @ Meas. Temp	.33 @ 66			
Rmc @ Meas. Temp	.59 @ 66			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.24 @ 123			
Operating Rig Time	5 Hours			
Max Rec. Temp. F	123			
Equipment Number	108			
Location	Hays			
Recorded By	J. Long			
Witnessed By	Steven P. Murphy			

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Comments

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

Pence, 6 North, 3/4 East, North Into

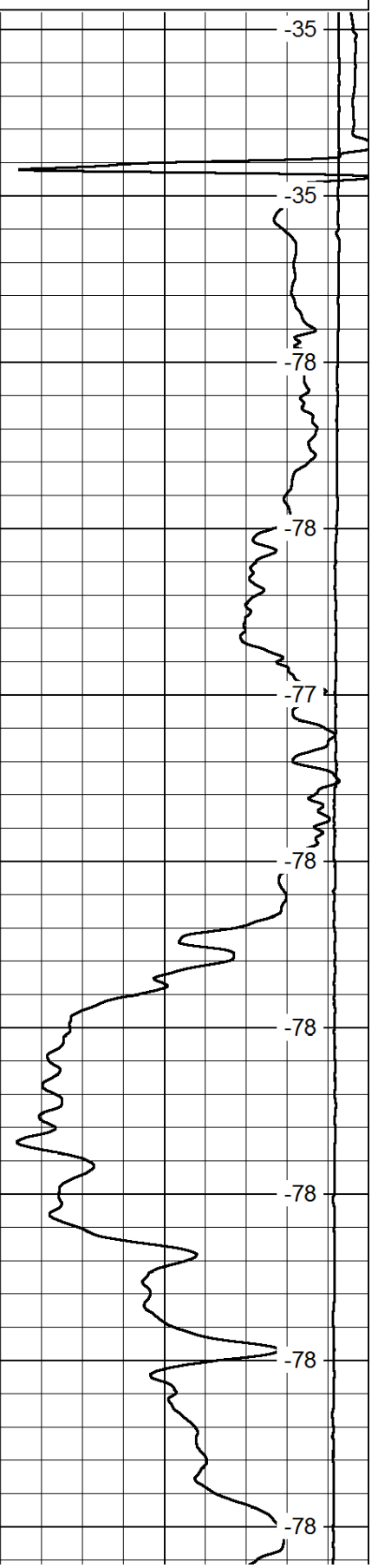
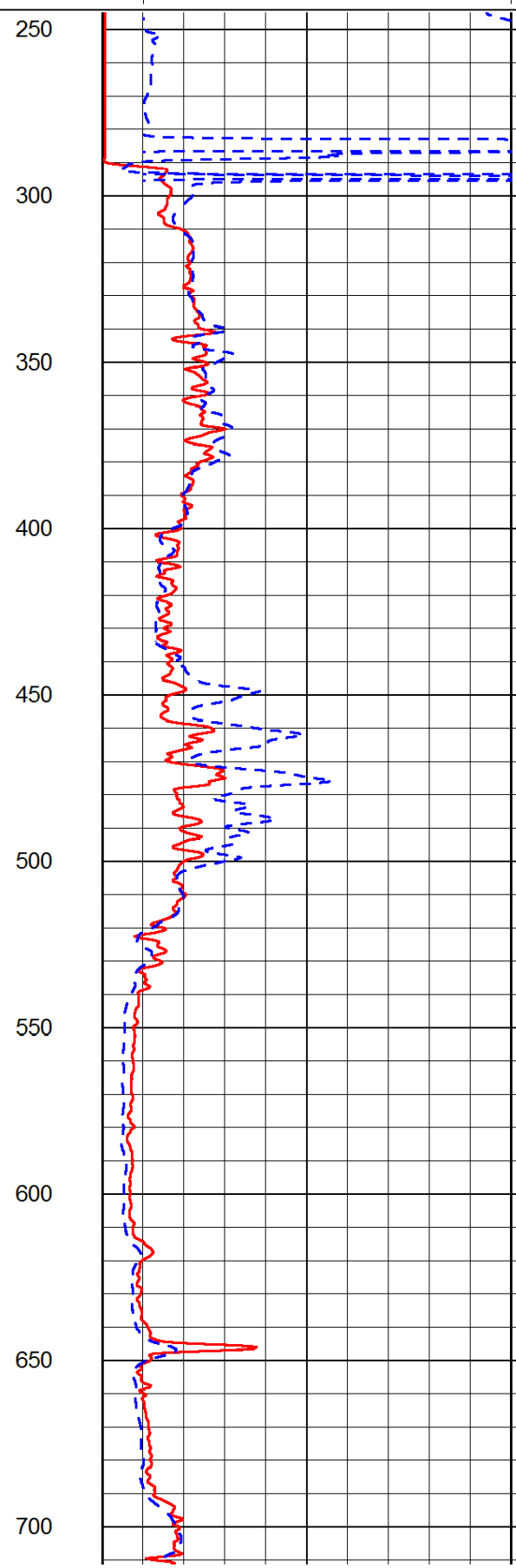
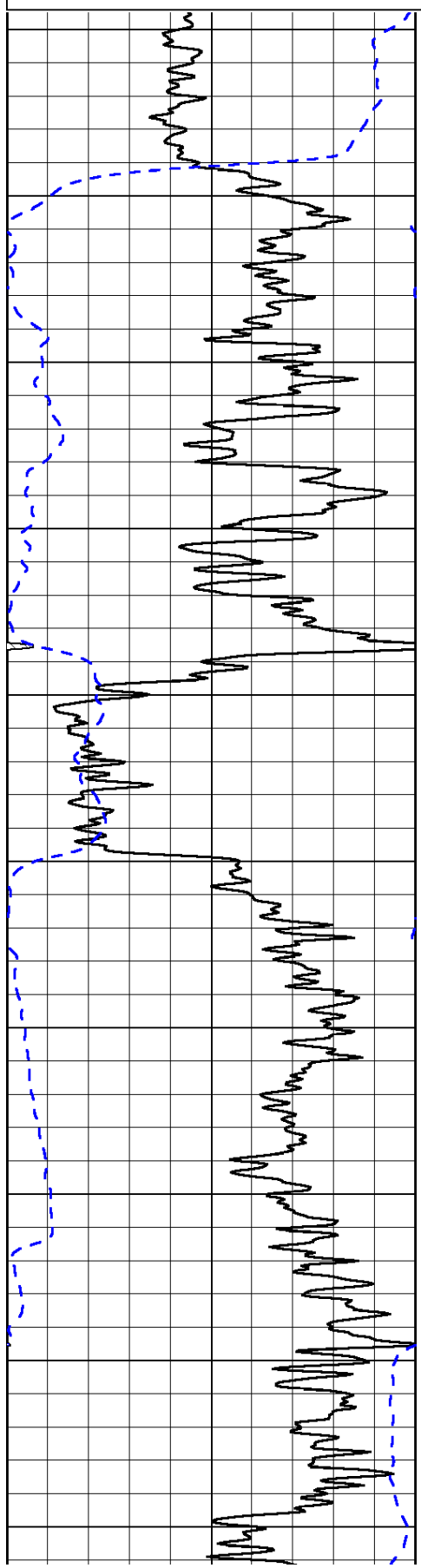
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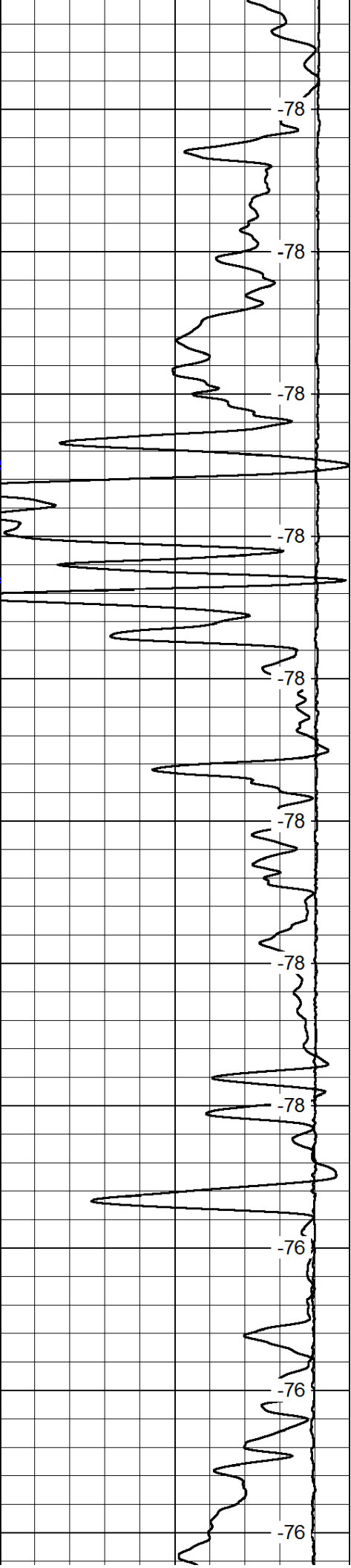
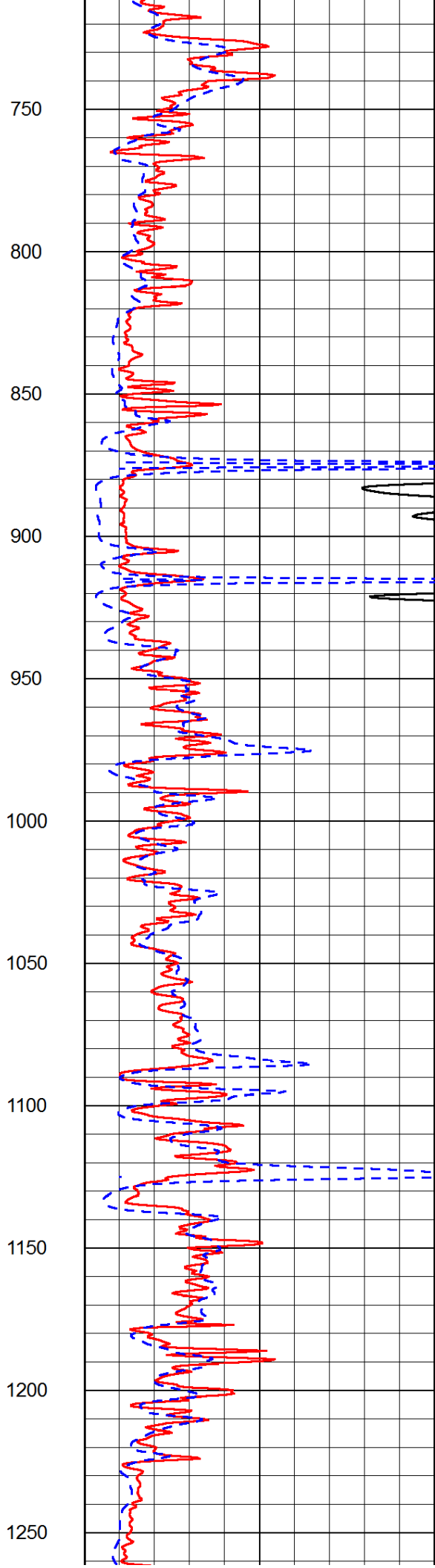
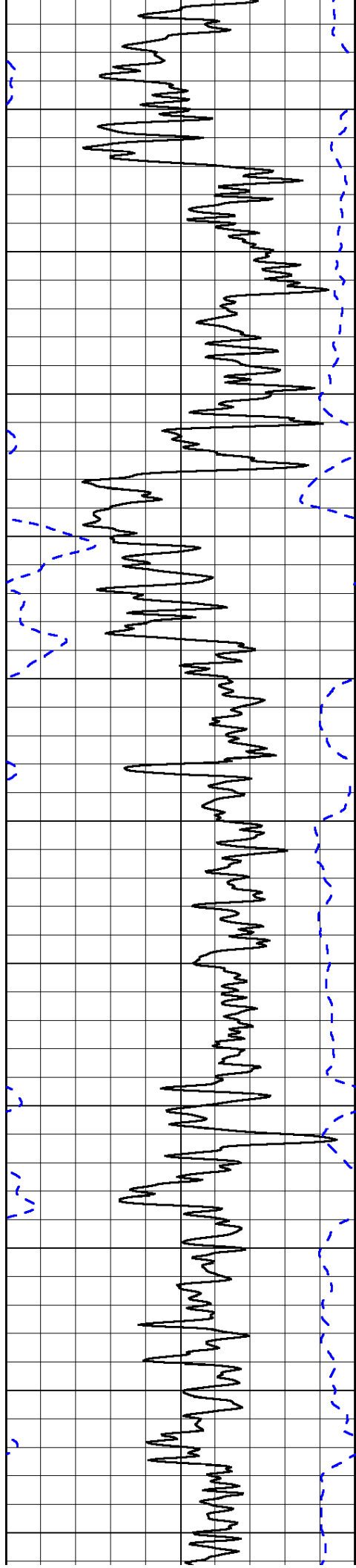
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0	Deep Resistivity	50

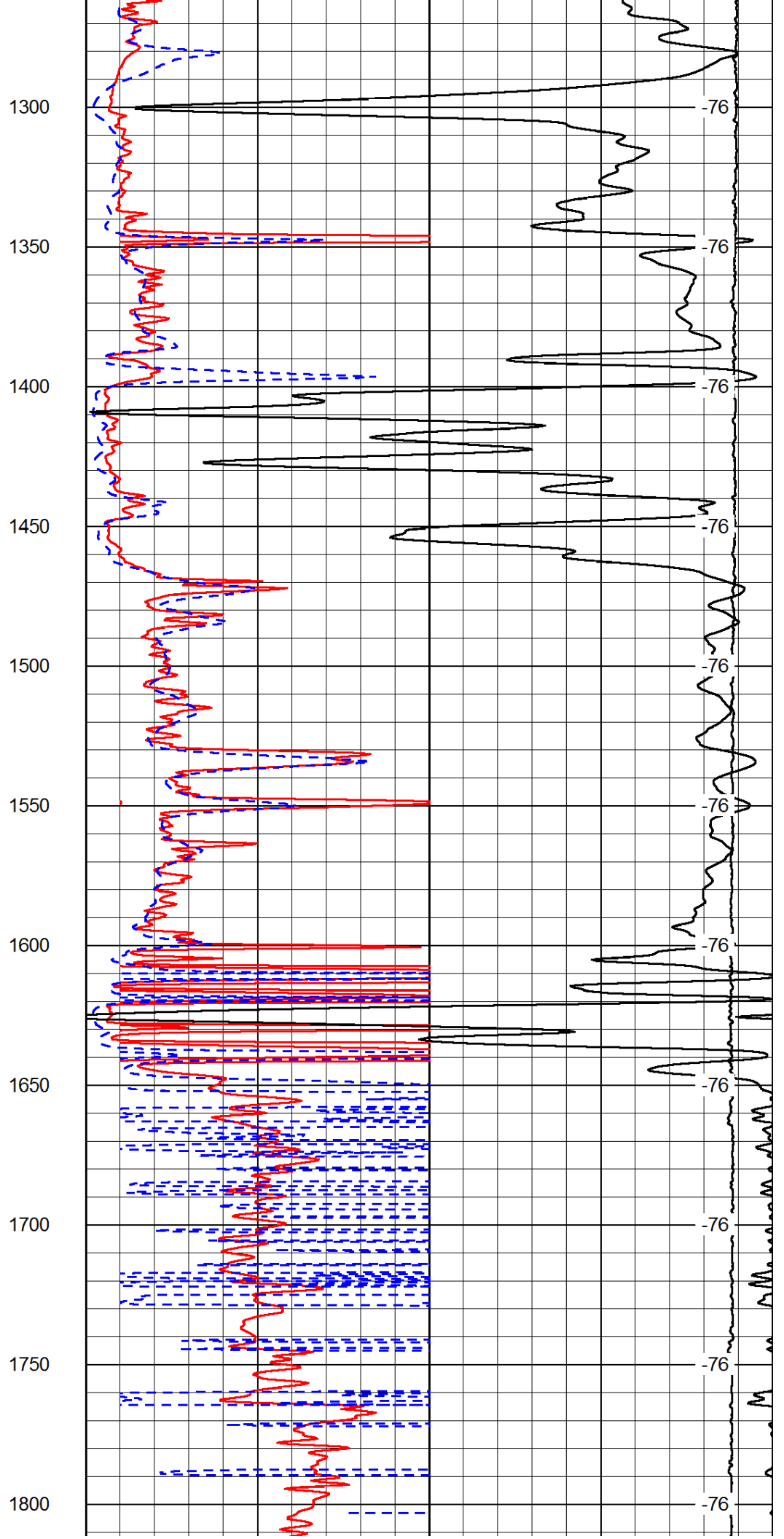
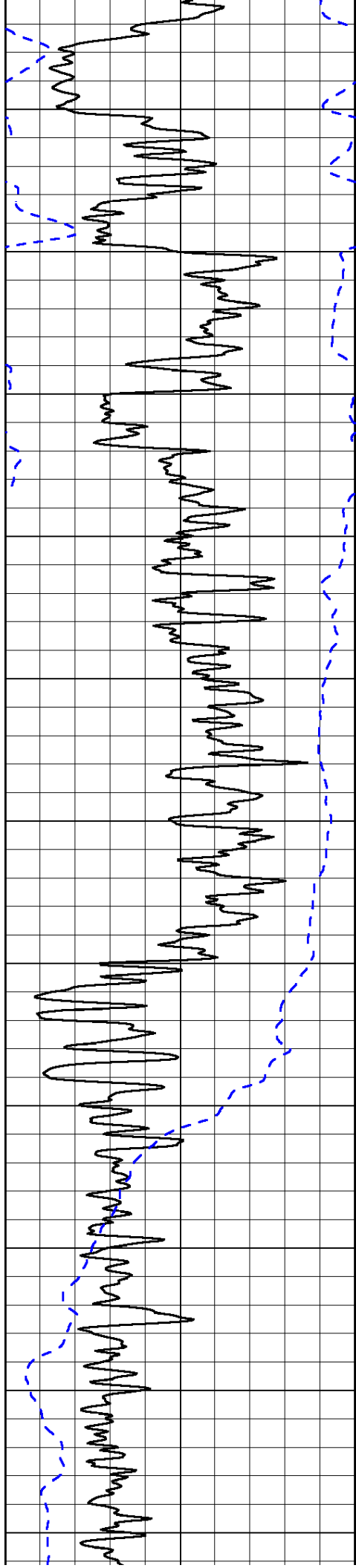
LSPD

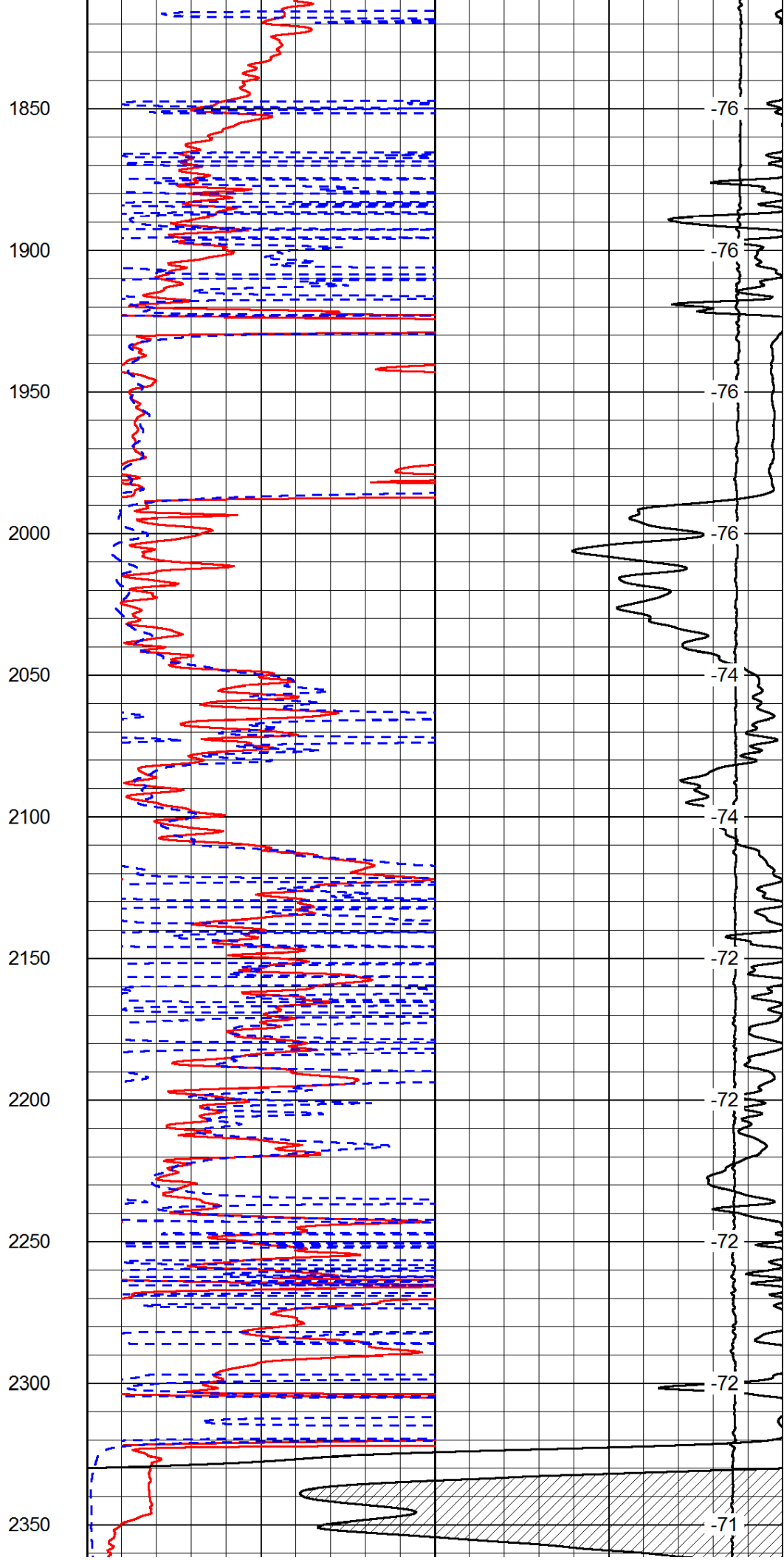
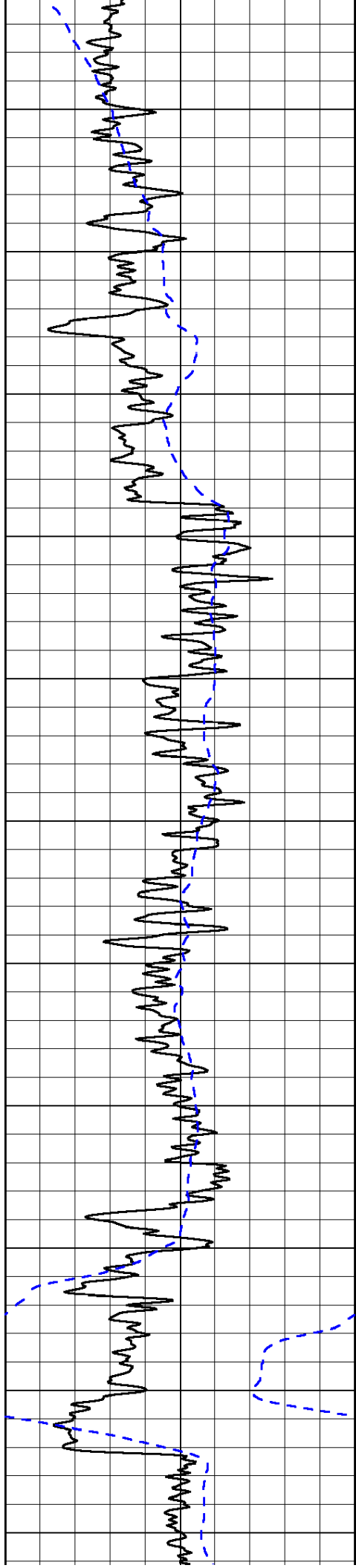
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15000	Line Tension	0

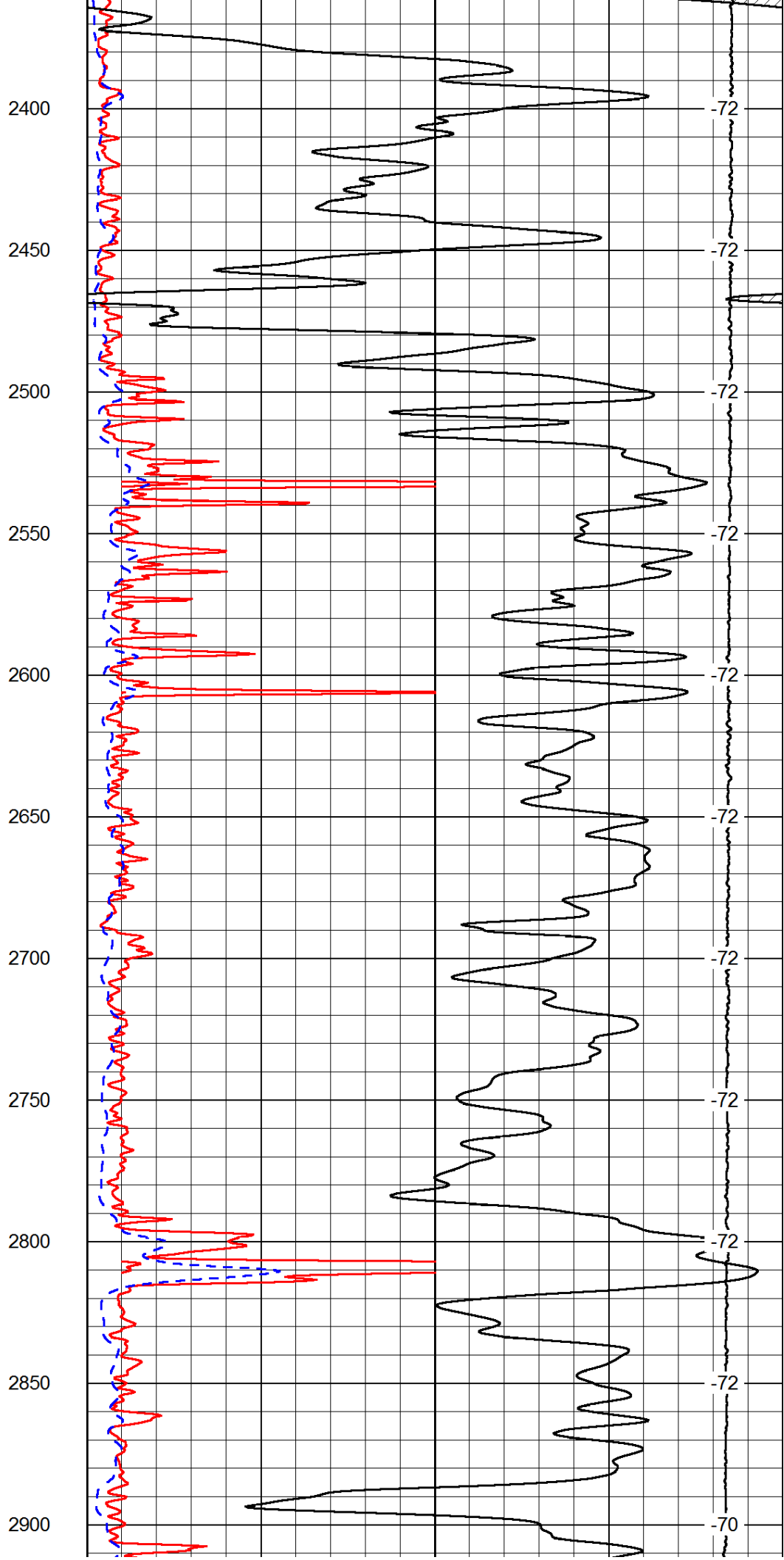
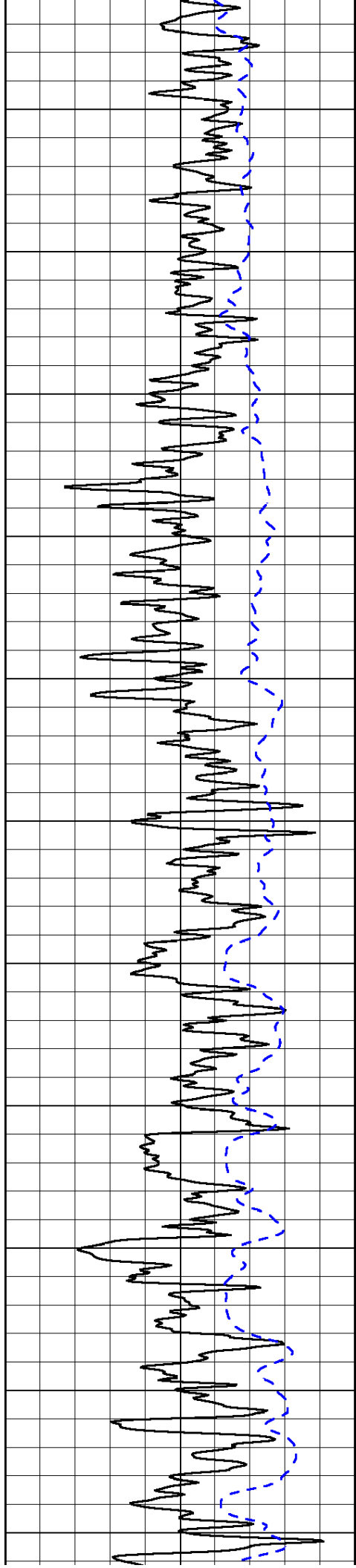
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50	Deep Resistivity	500

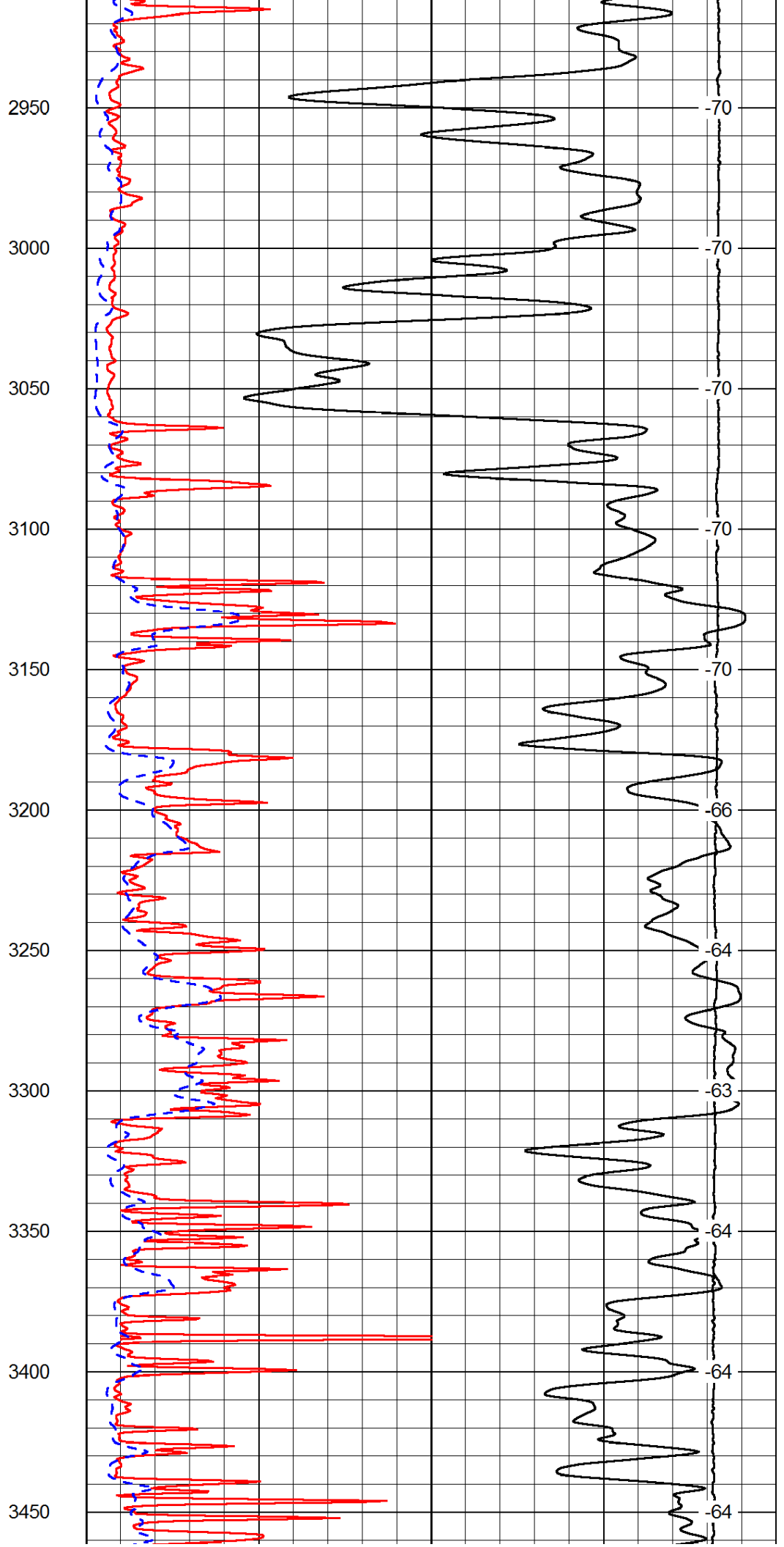
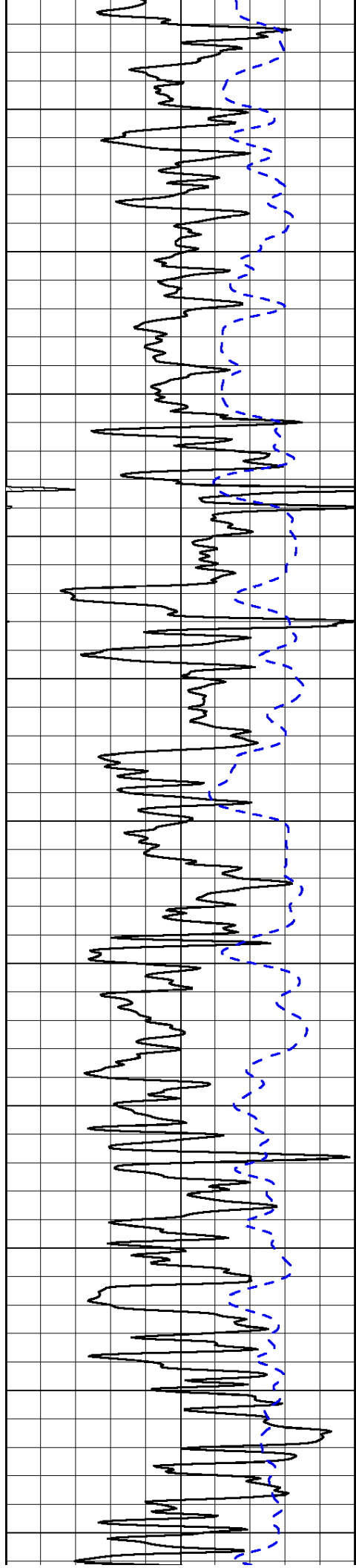


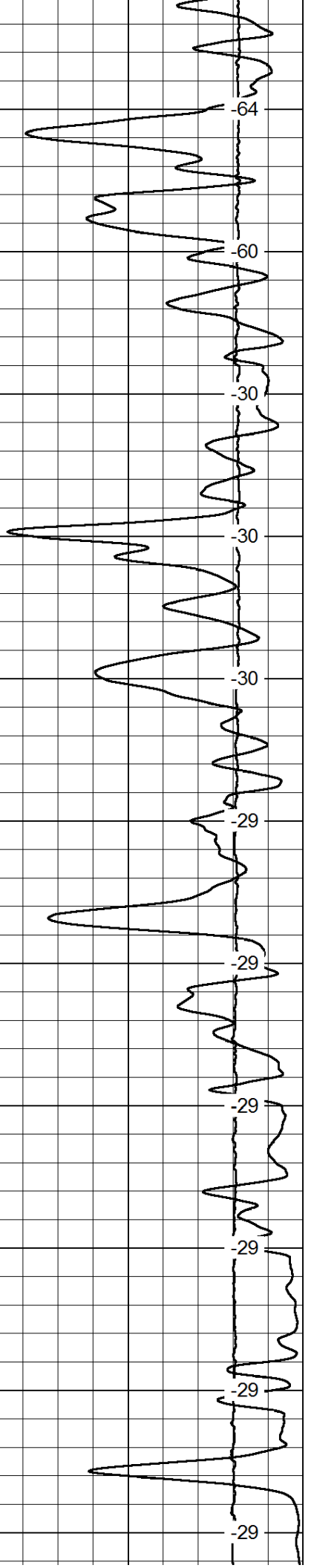
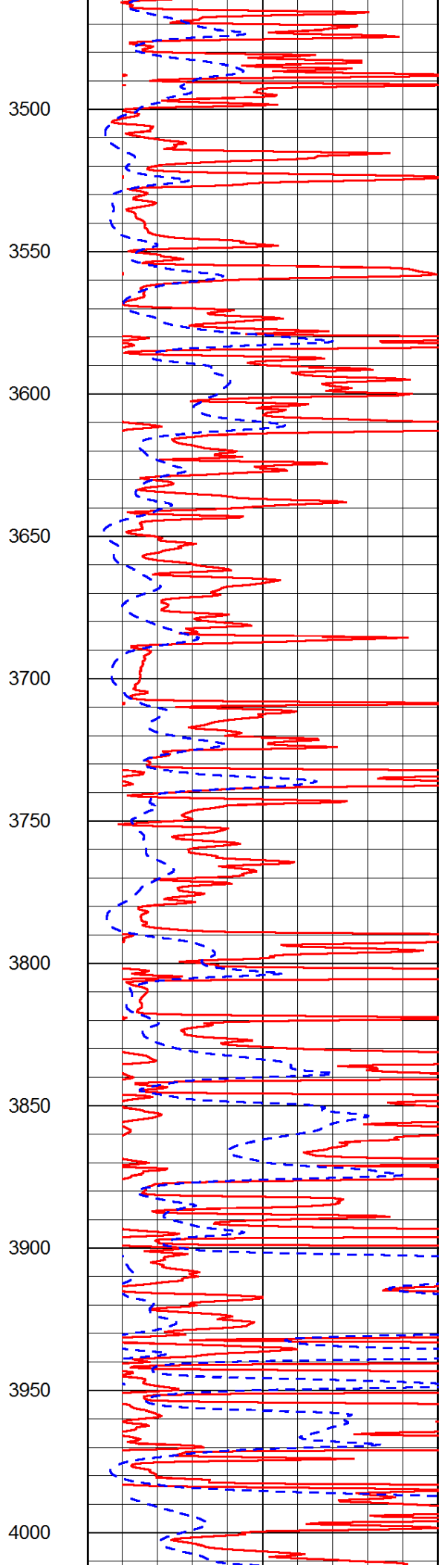
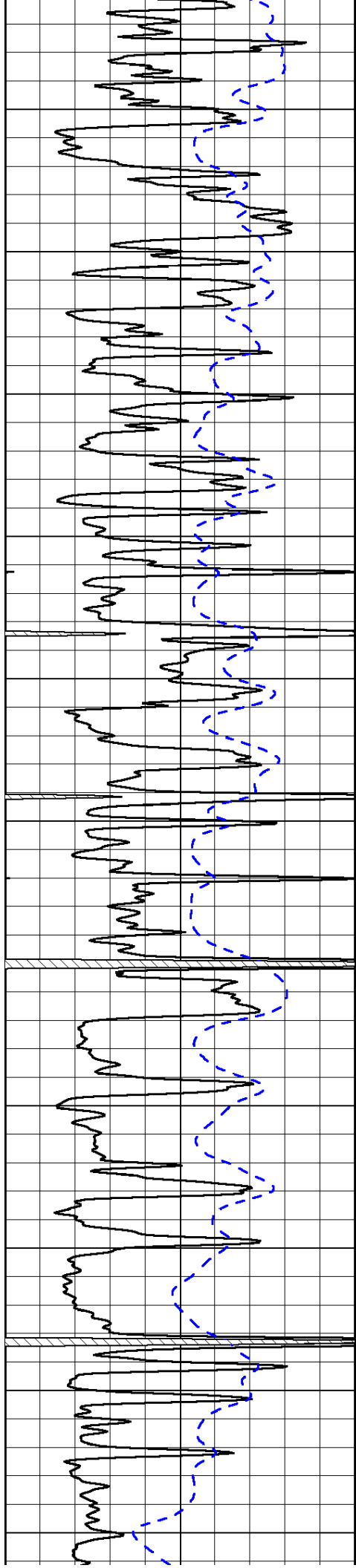


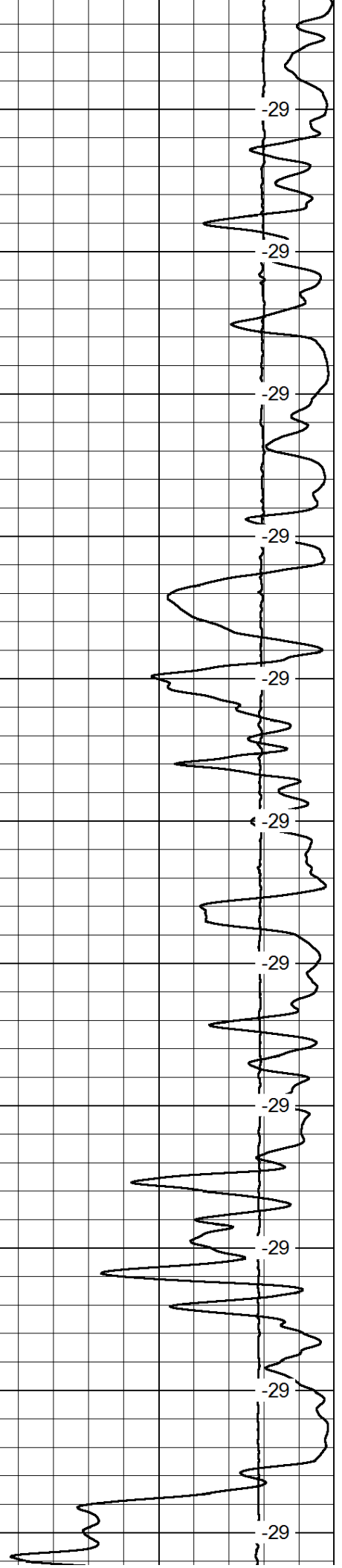
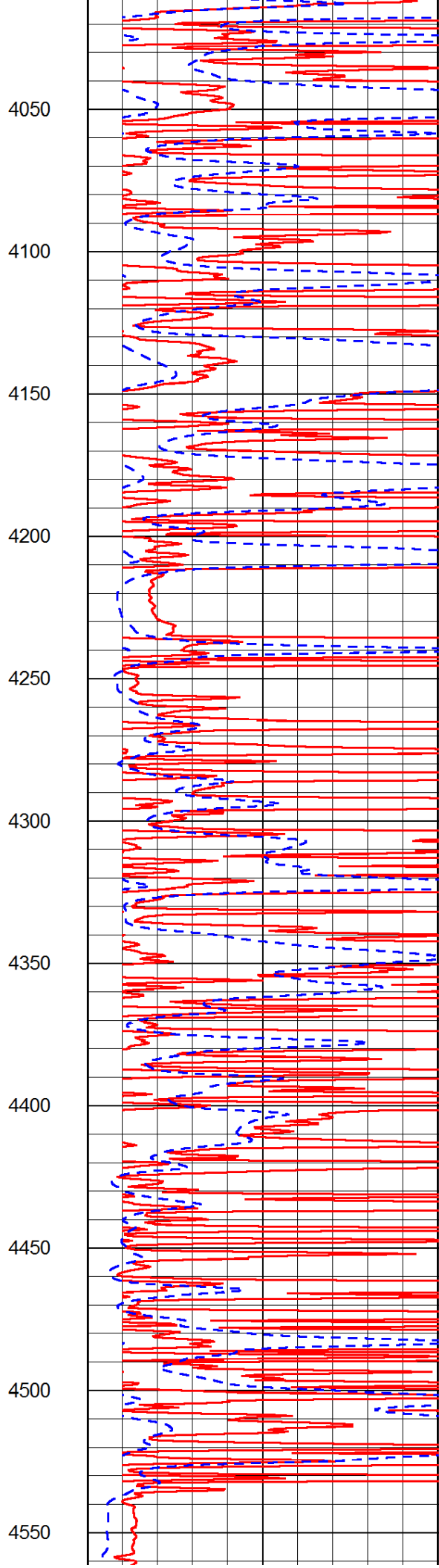
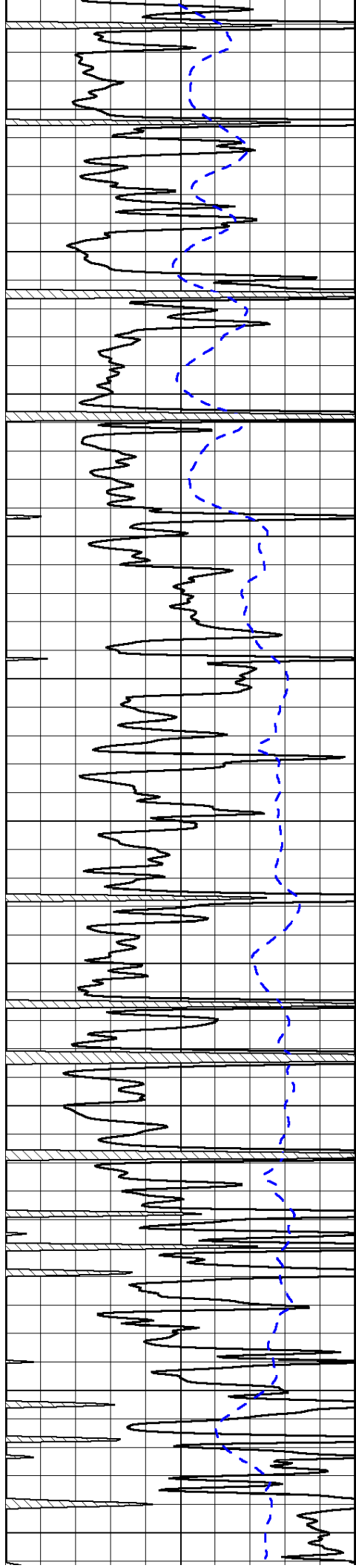


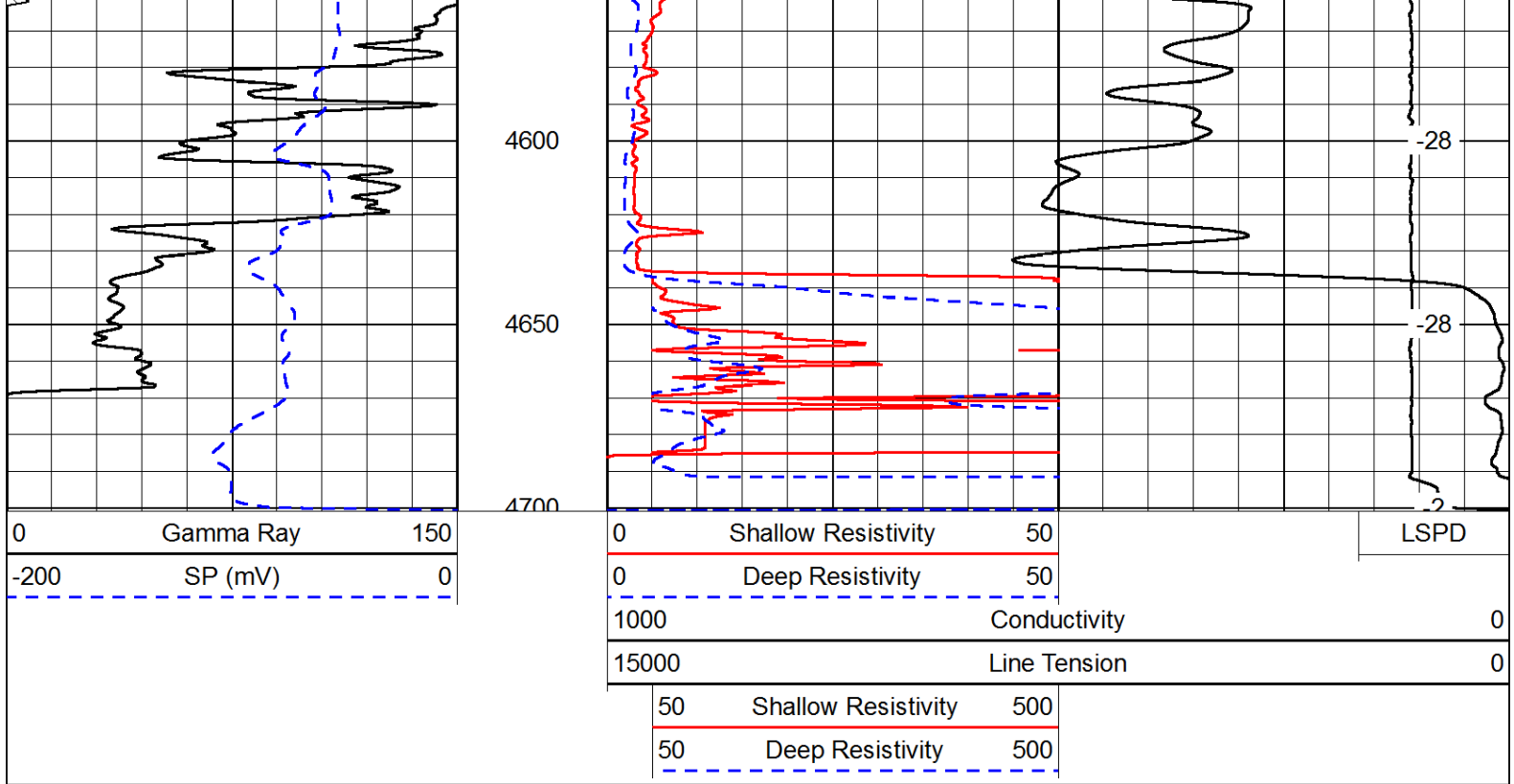




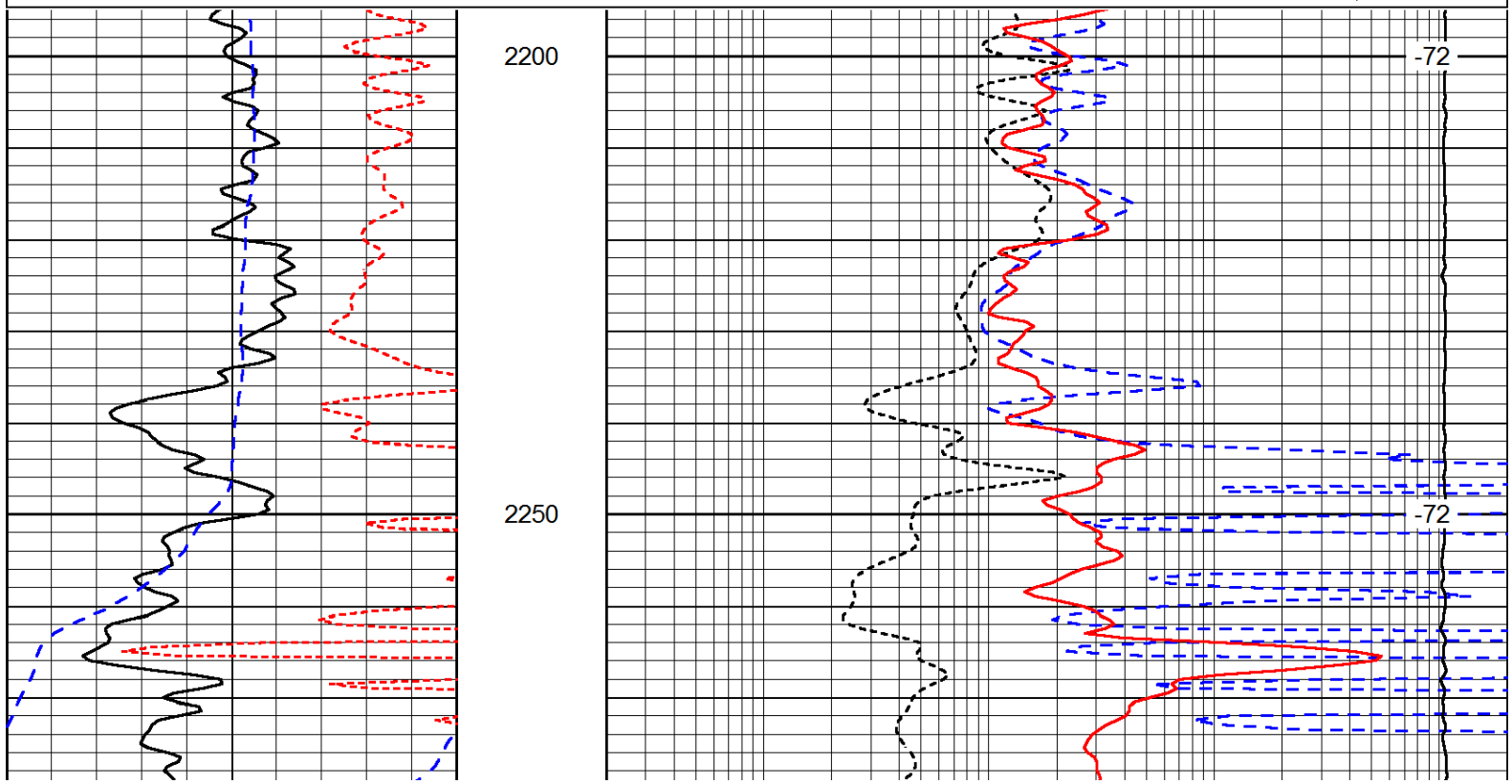
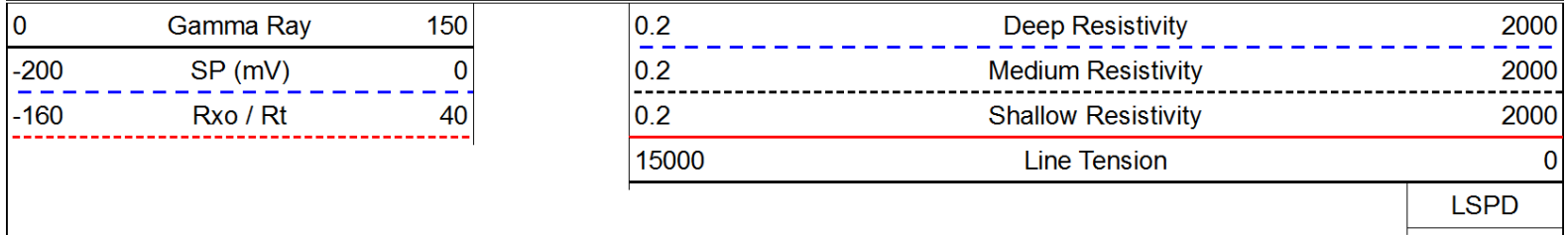


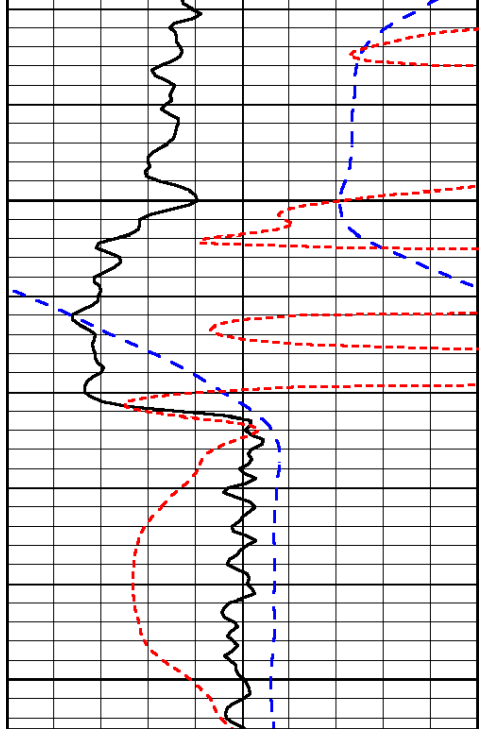






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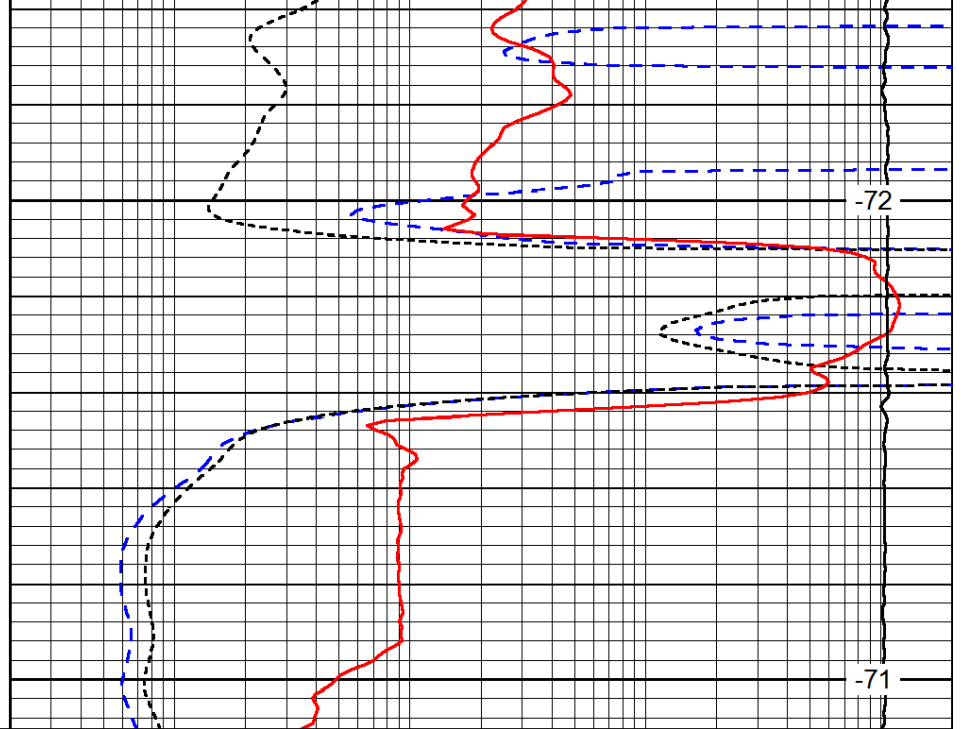




0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

2300

2350



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

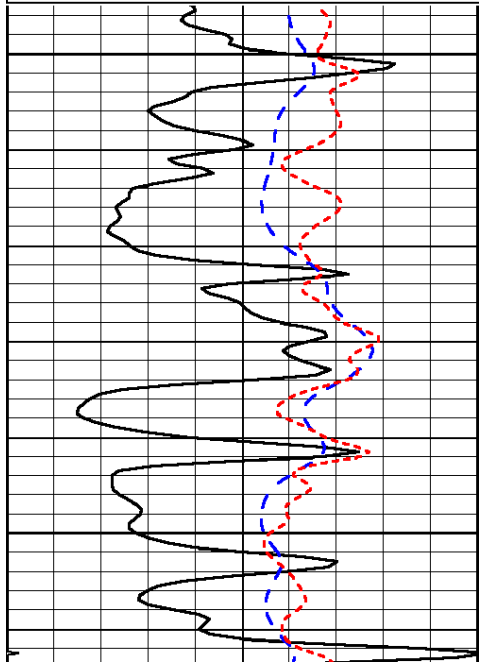
LSPD

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

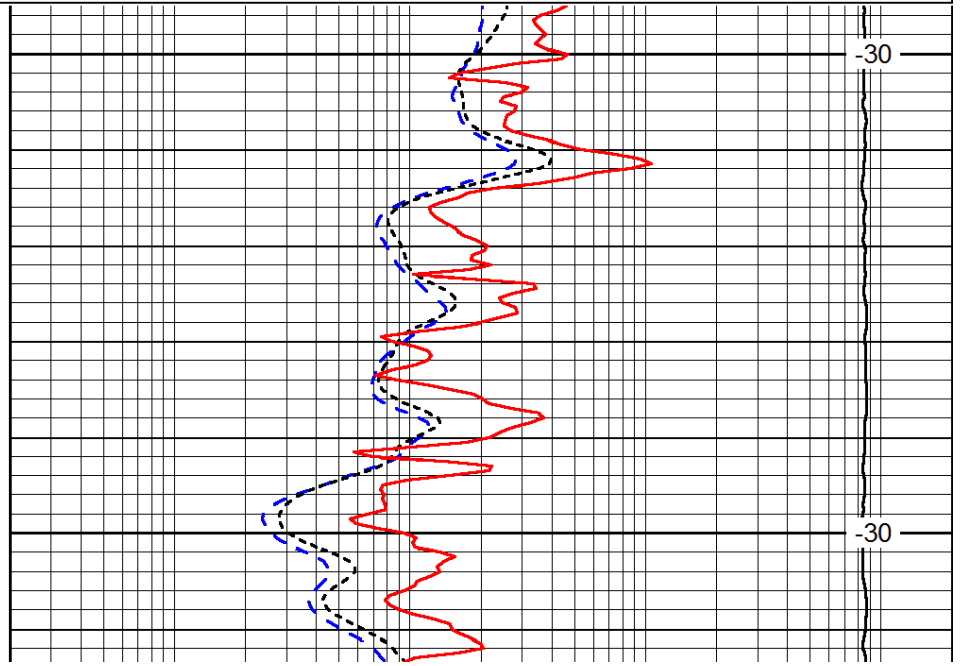
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



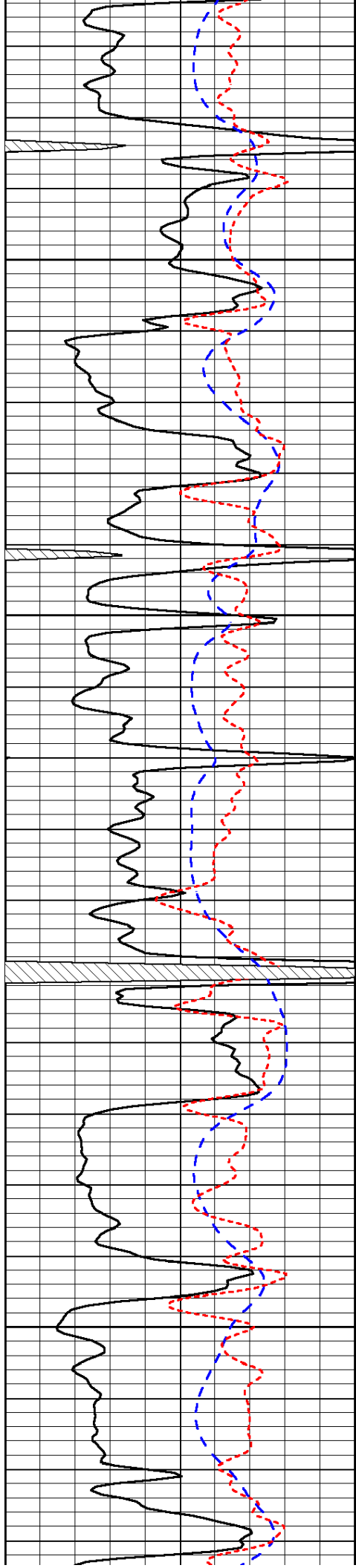
3600

3650



-30

-30



3700

3750

3800

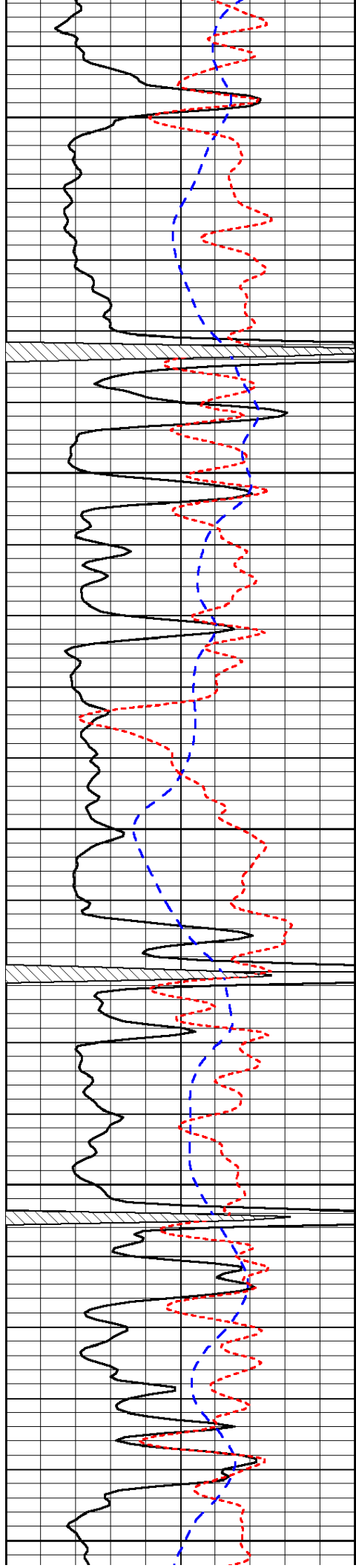
3850

-30

-29

-29

-29



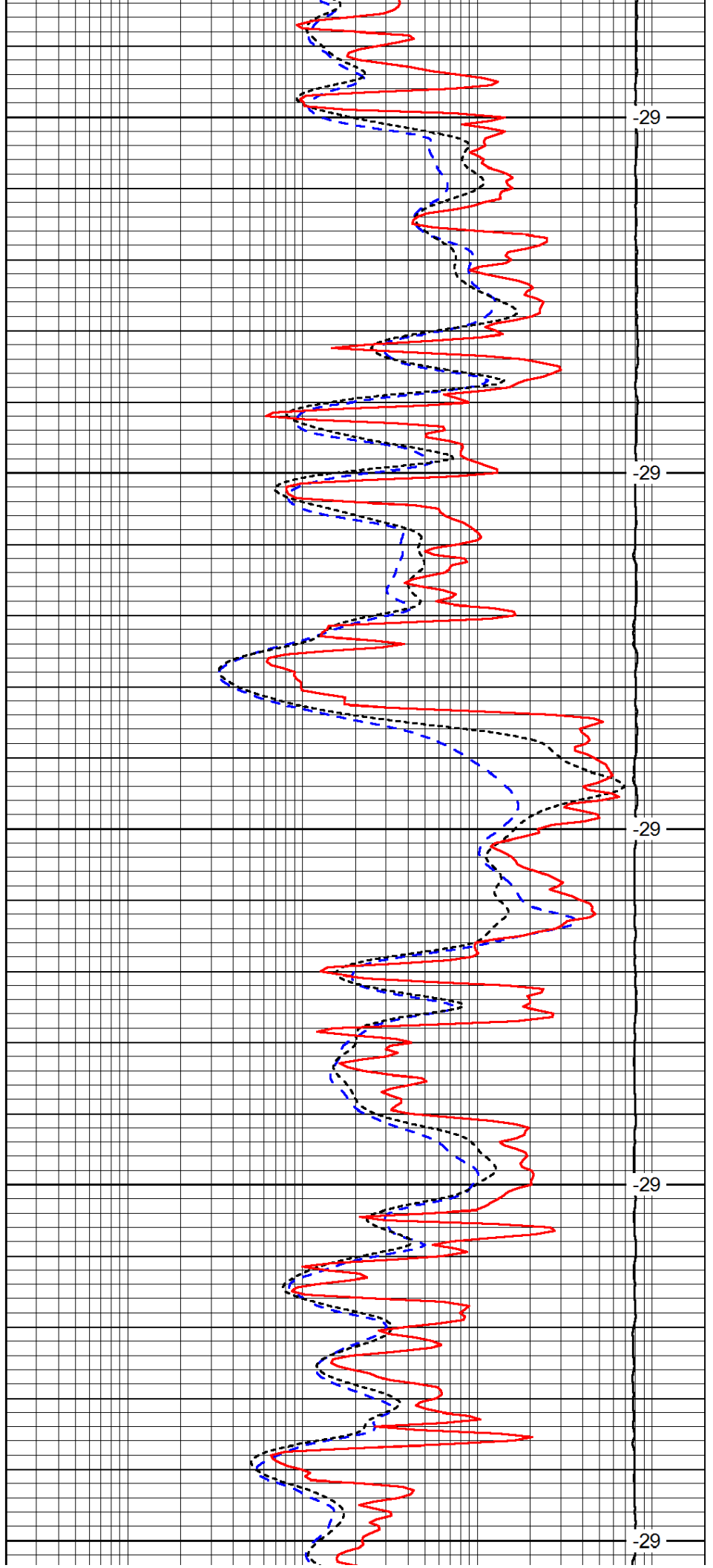
3900

3950

4000

4050

4100



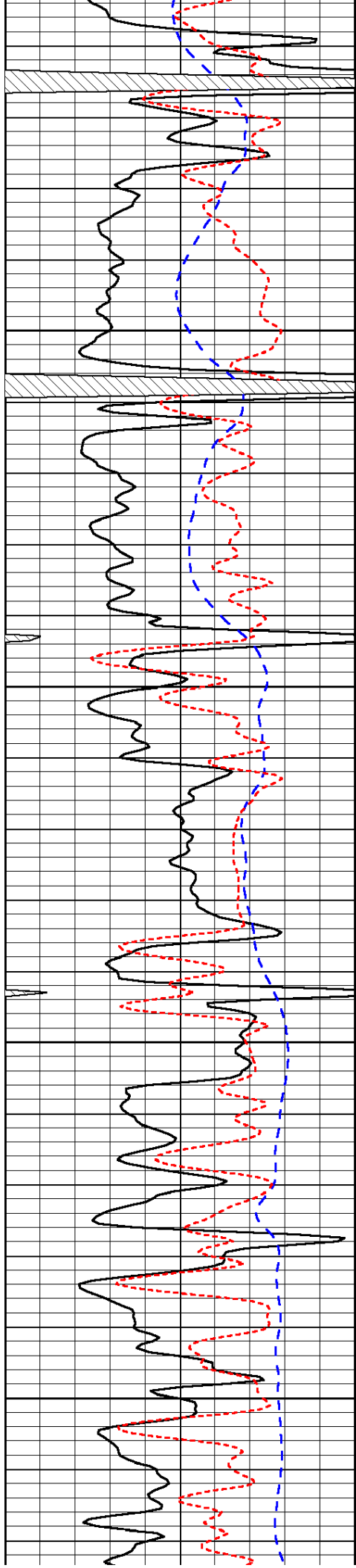
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-29

-29

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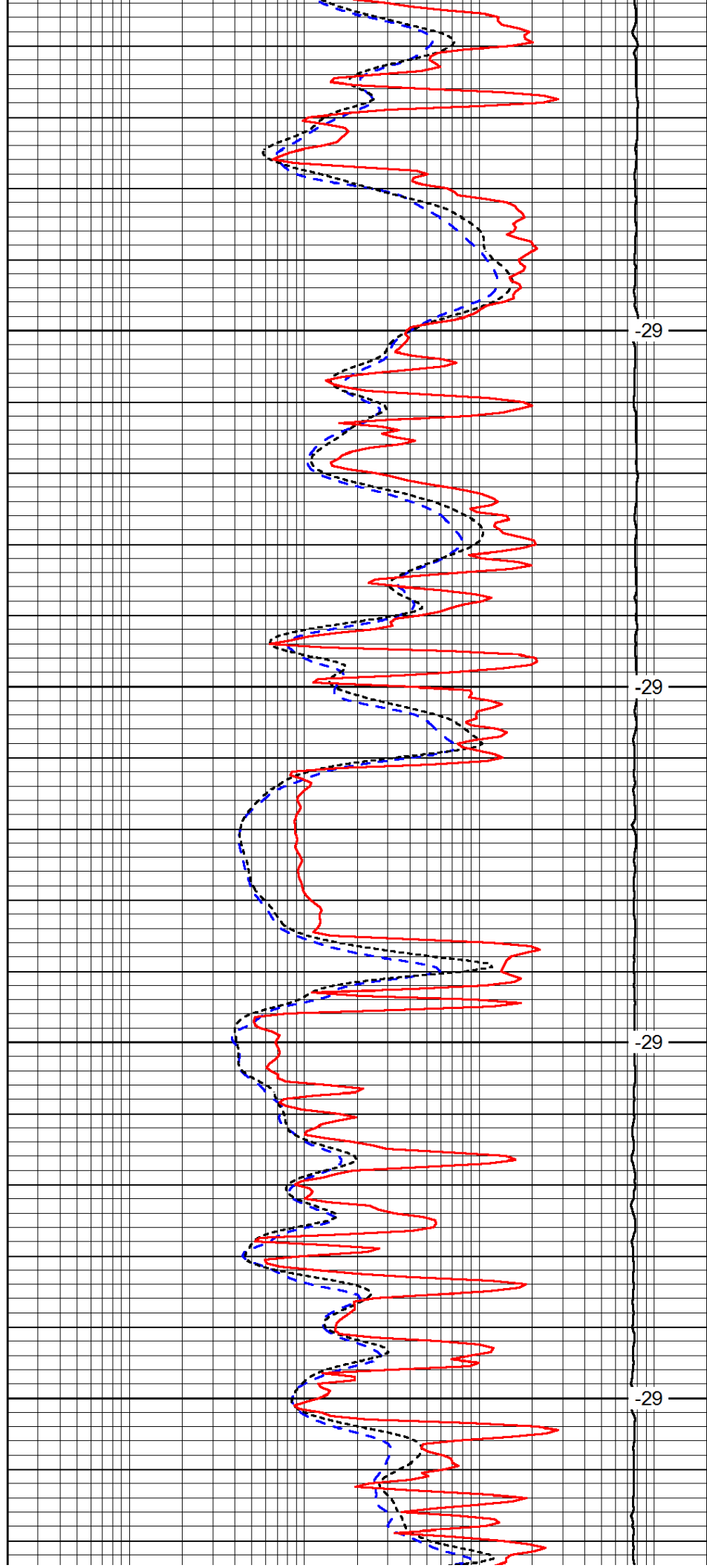


4150

4200

4250

4300

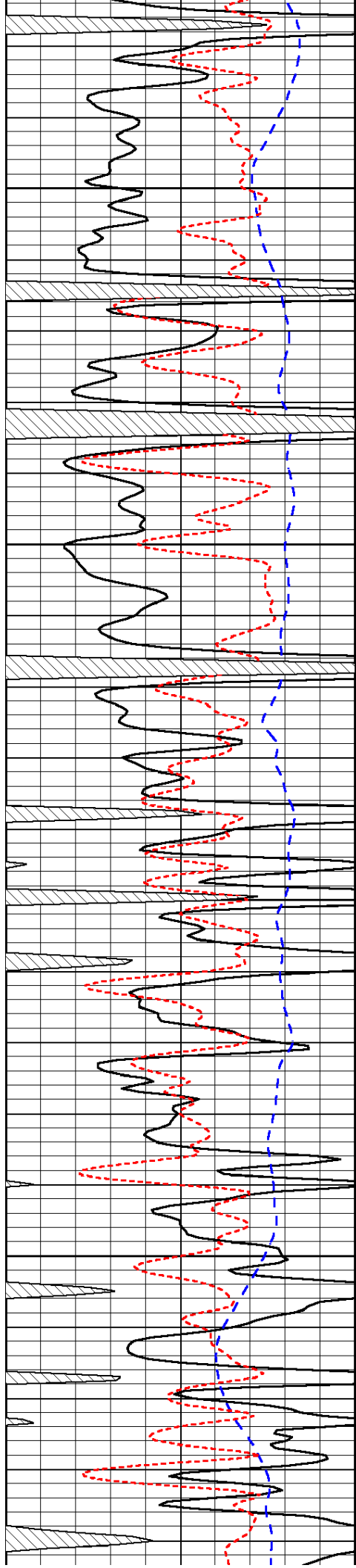


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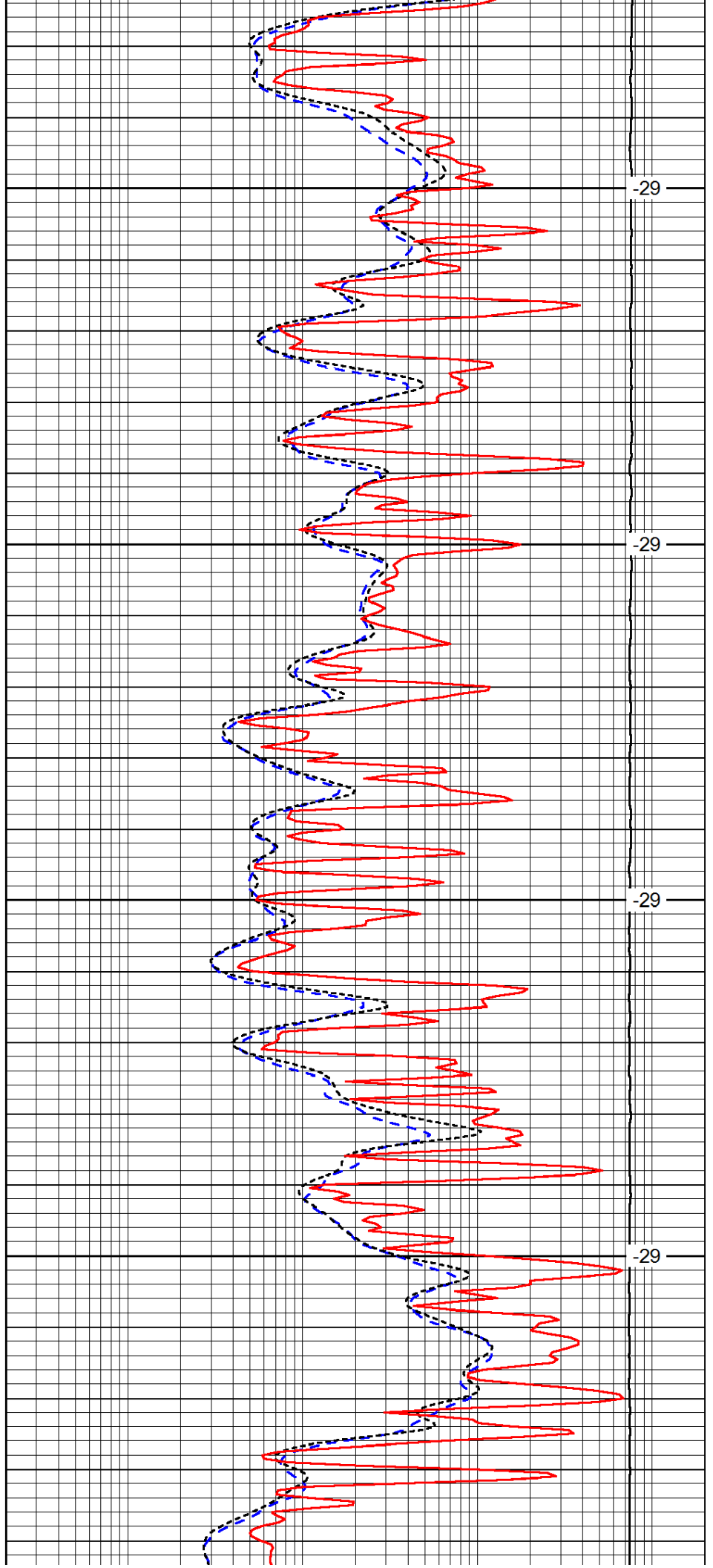


4350

4400

4450

4500

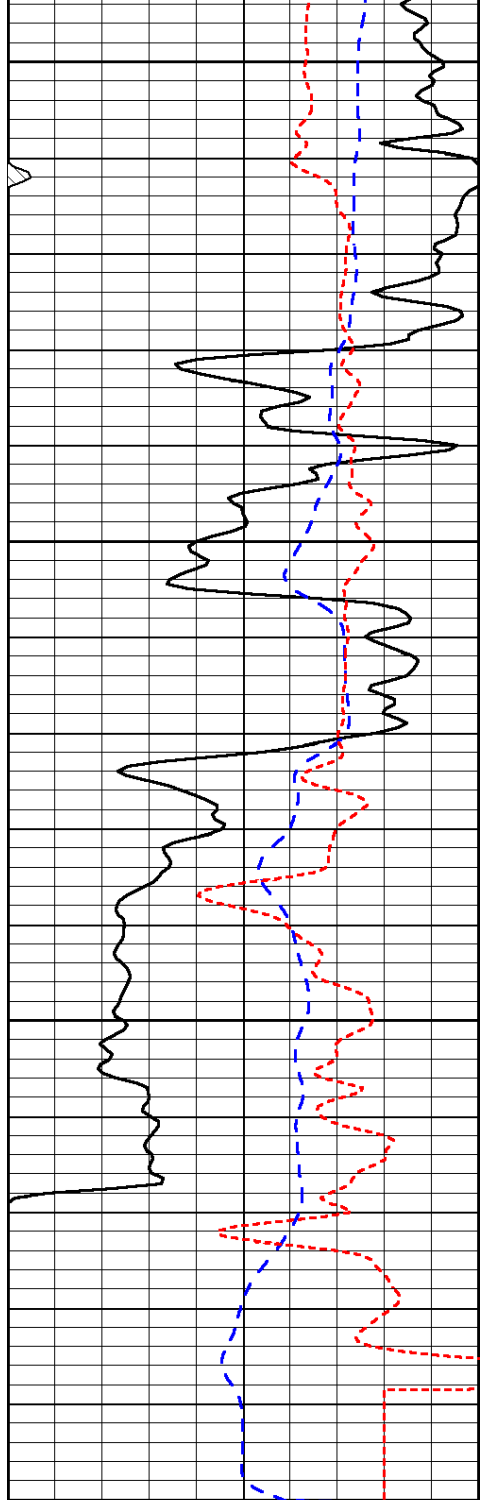


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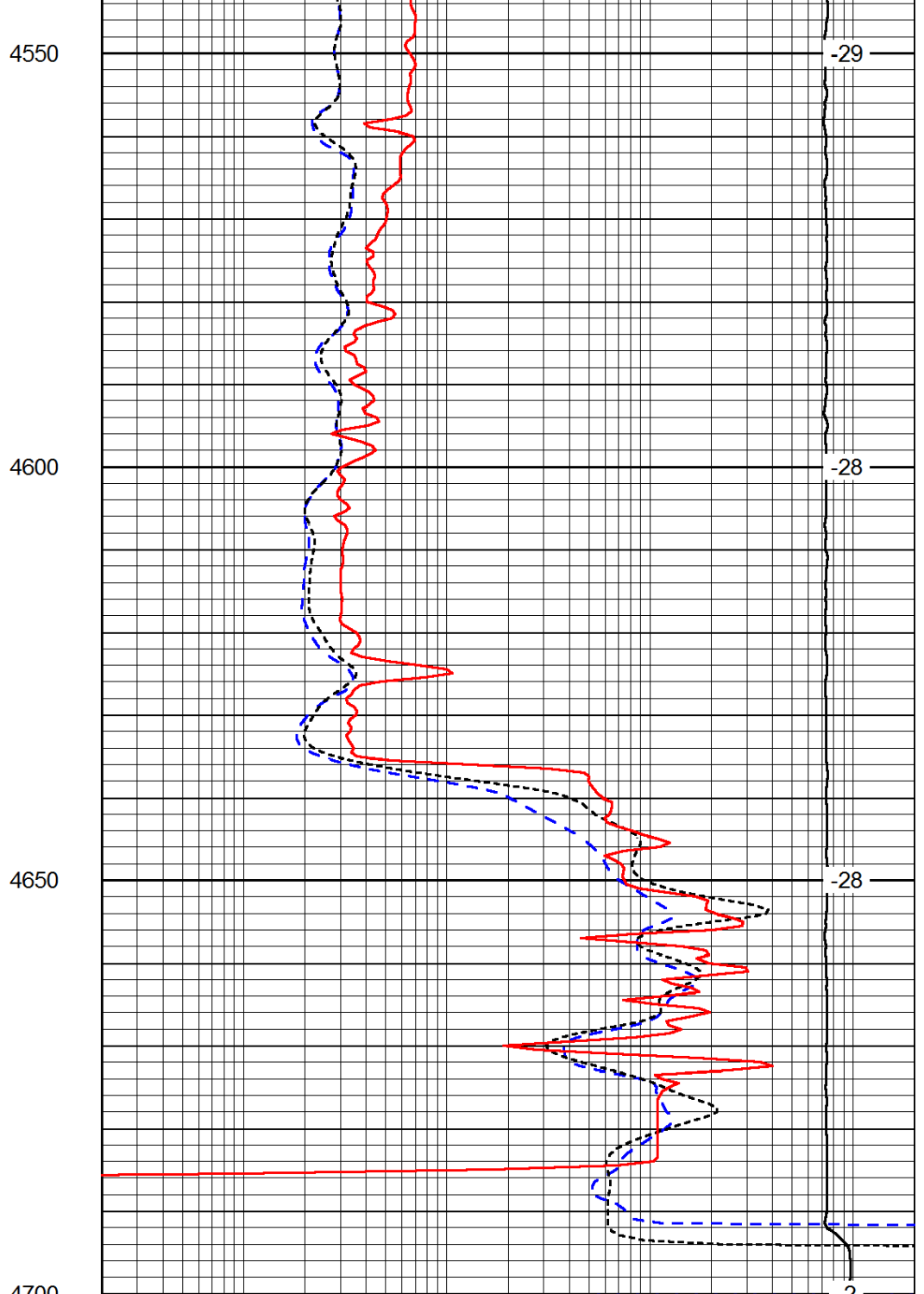
-29

-29

-29



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



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

LSPD



DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

15-109-21,096-00-00

API No. 15-109-21,096-00-00

Company **K&B Norton Oil & Investments, LLC**
 Well **McDaniel No. 2**
 Field **Wildcat**
 County **Logan** State **Kansas**

Location **NW SW NW NE**
726' FNL & 2,890' FWL

Sec: 14 Twp: 15S Rge: 34W

Other Services
 DIL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **2921**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2926
 D.F.
 G.L. 2921

Date	6/3/2012	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4690	
Depth Logger	4692	
Bottom Logged Interval	4671	
Top Logged Interval	3600	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	7200	
Density	9.2	
Level	Full	
Max. Rec. Temp. F	123	
Operating Rig Time	5 Hours	
Equipment -- Location	108 Hays	
Recorded By	J. Long	
Witnessed By	Steven P. Murphy	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	290	8.625	24#	00	290
2	7.875	290	4690				

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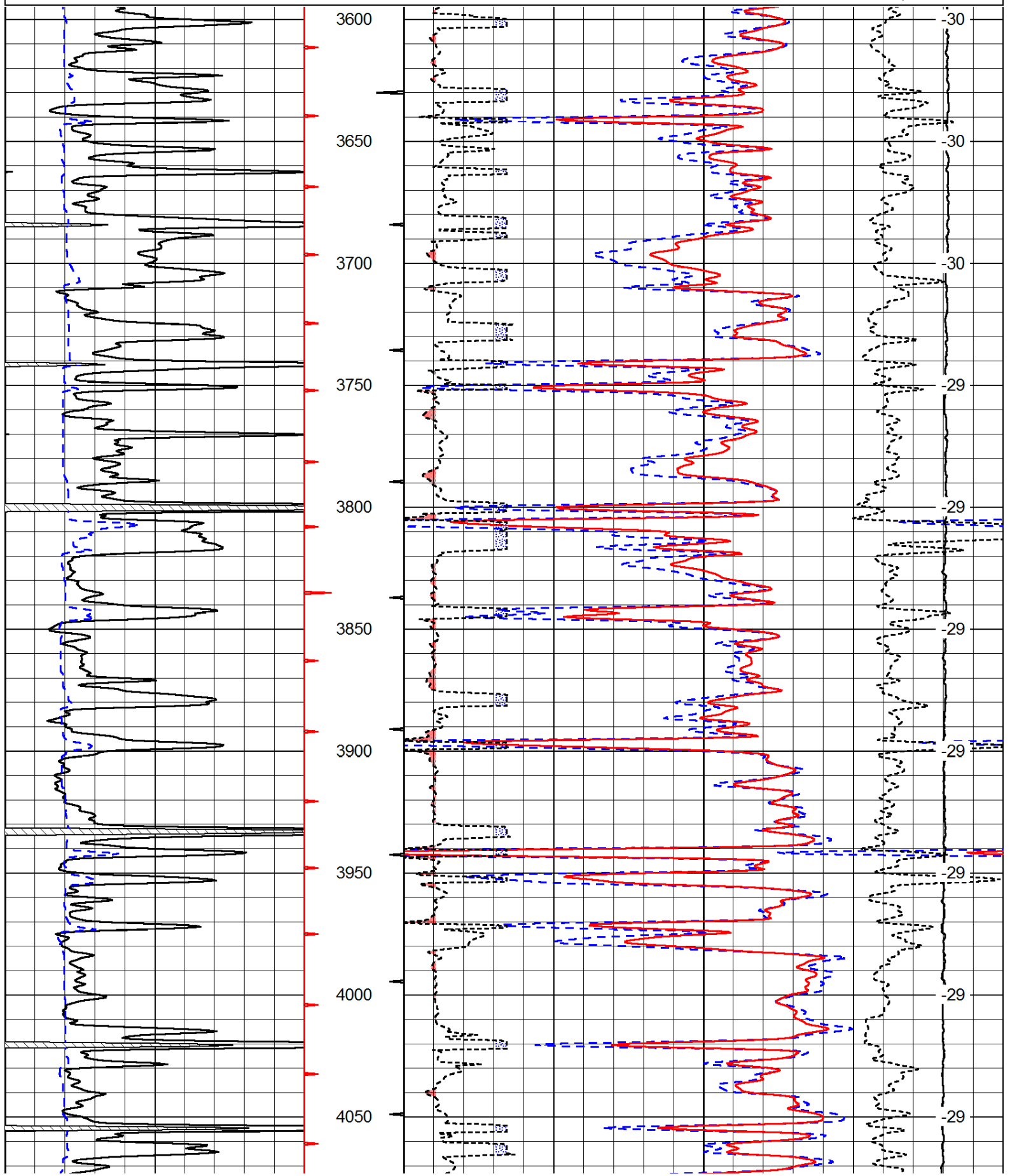
Comments

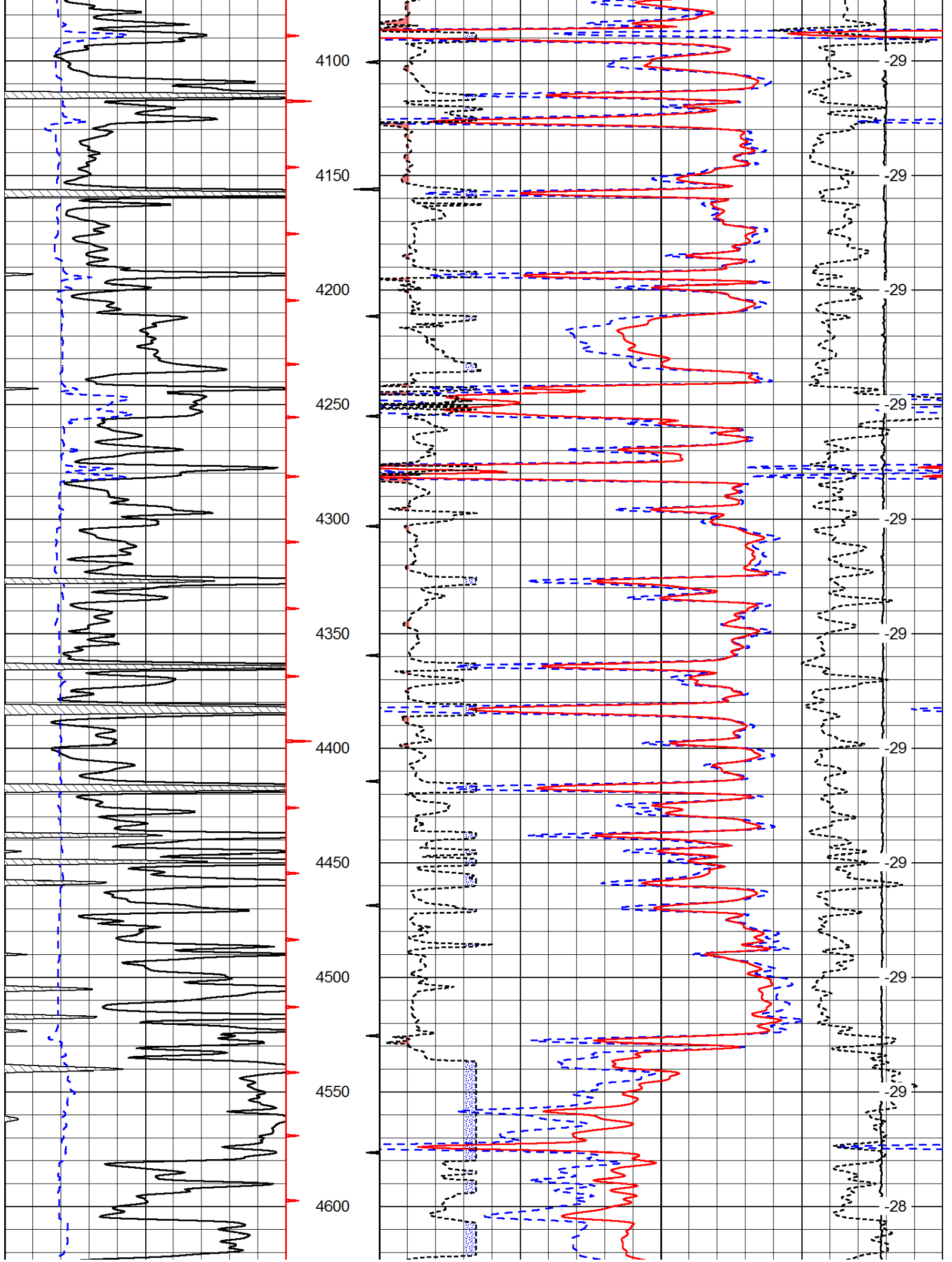
Thank you for using Log-Tech, Inc.
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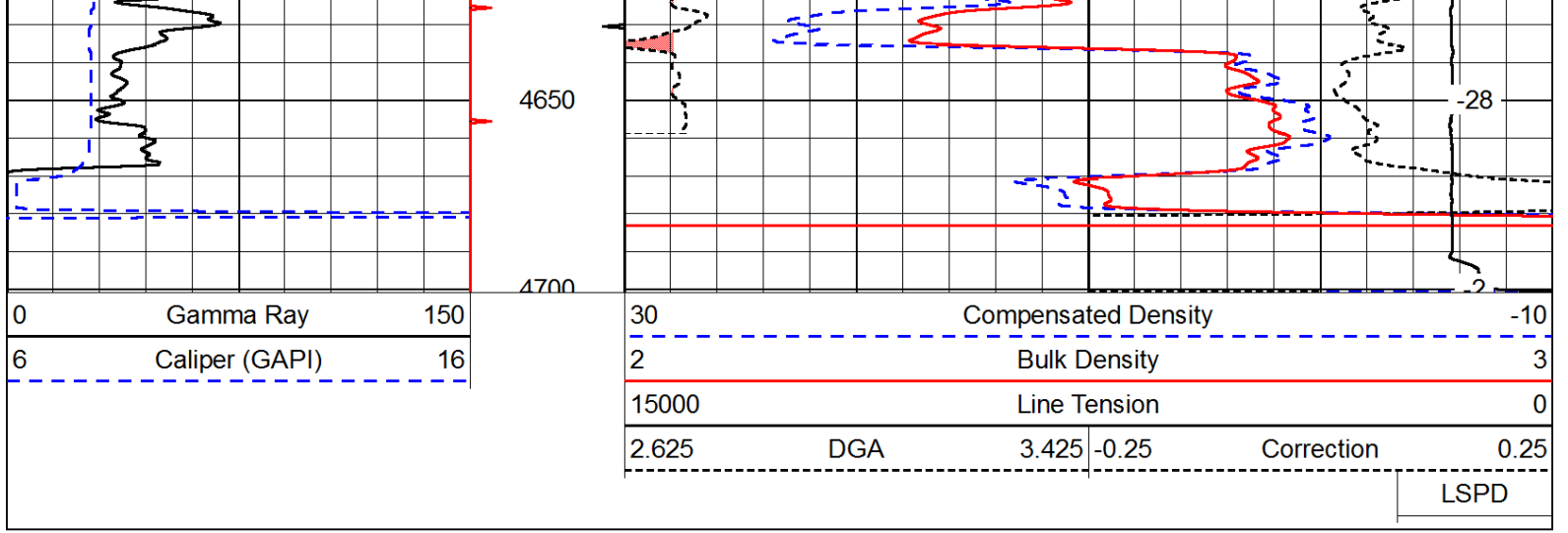
Pence, 6 North, 3/4 East, North Into

0	Gamma Ray	150
6	Caliper (GAPI)	16

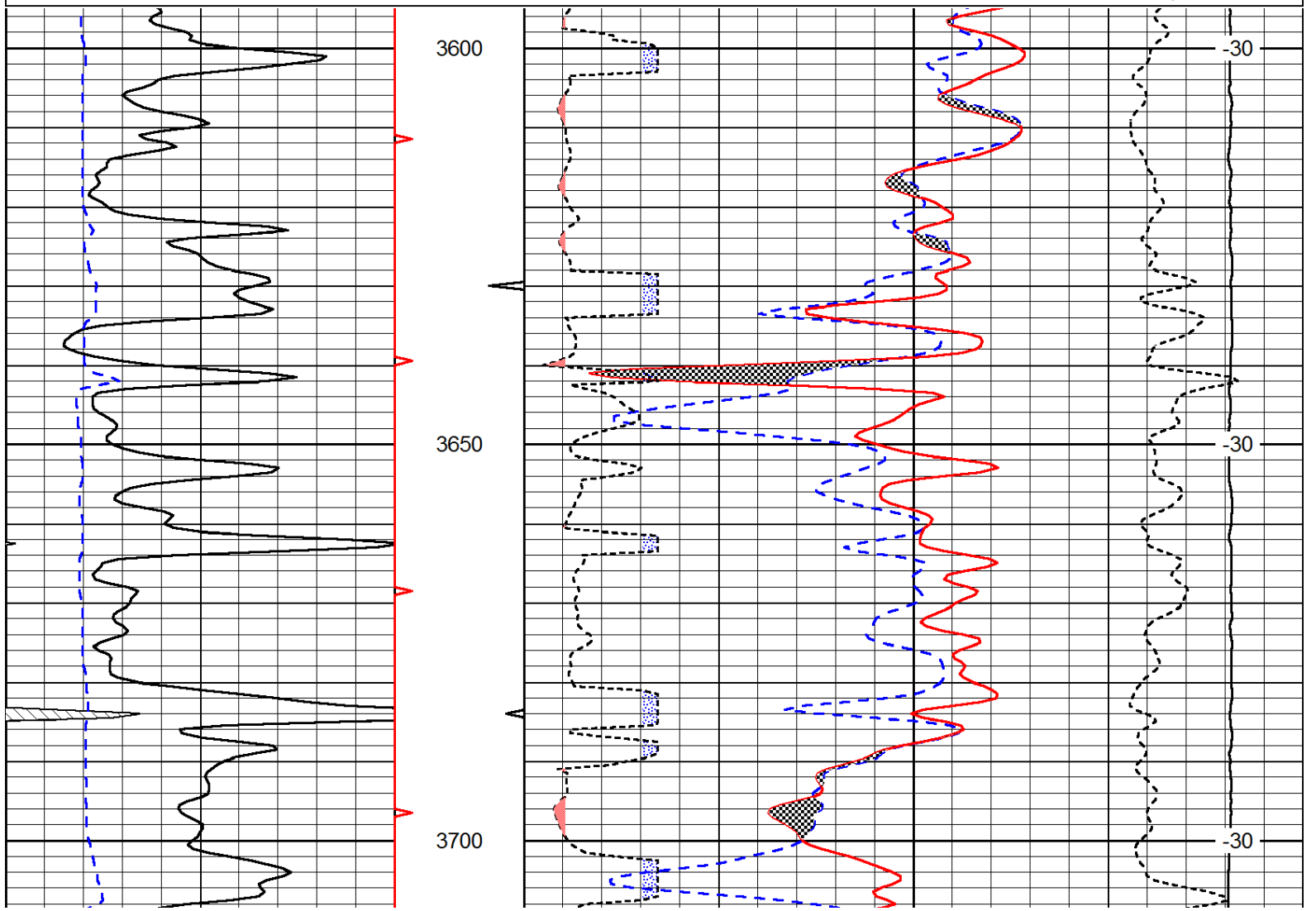
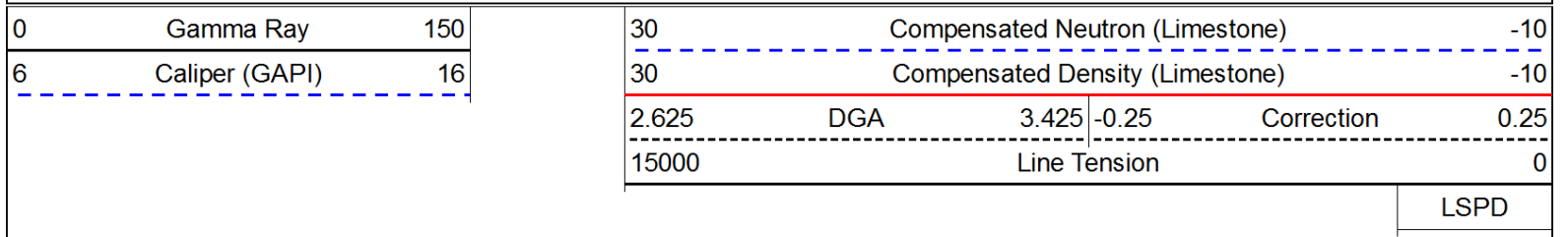
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

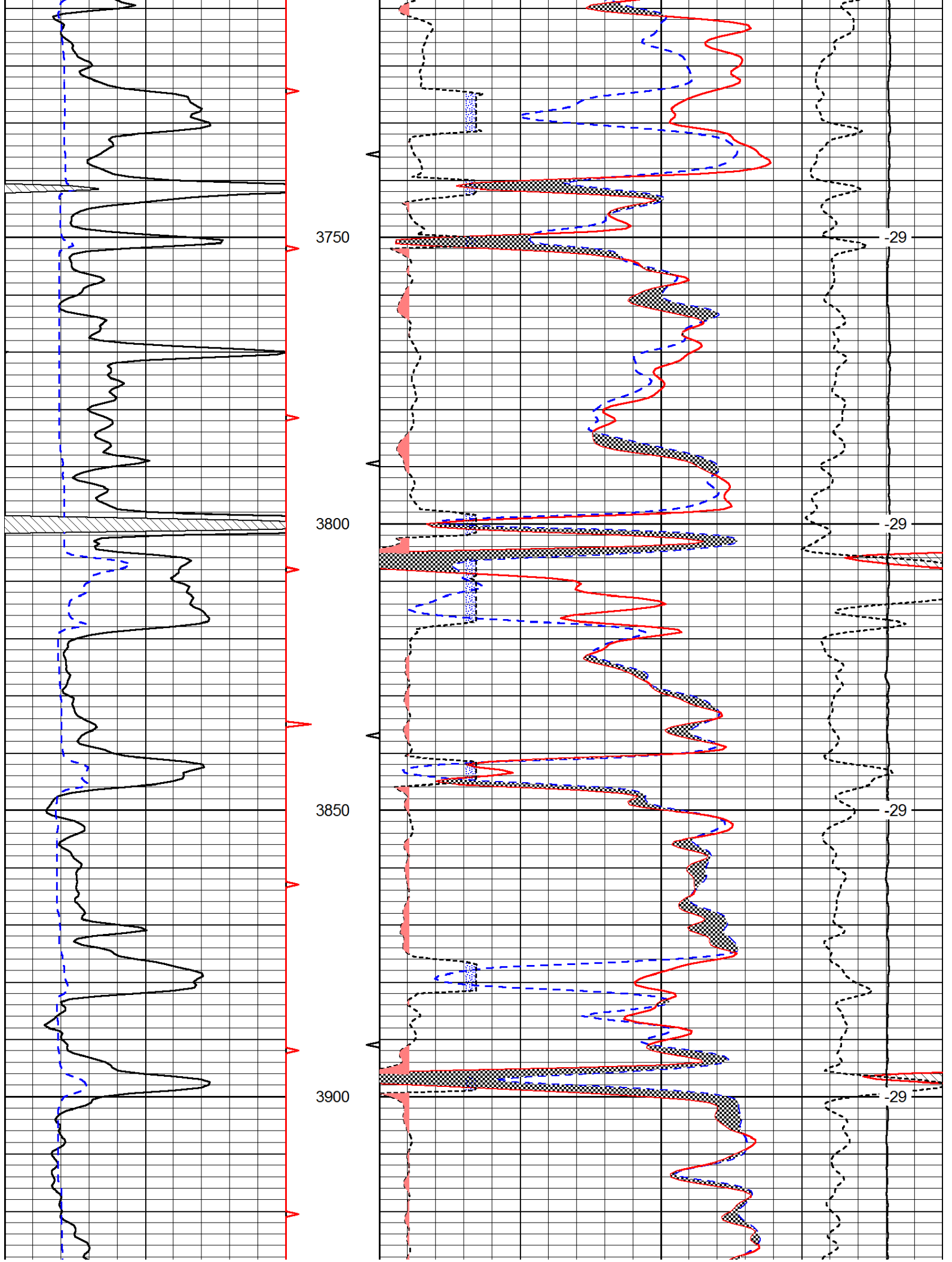


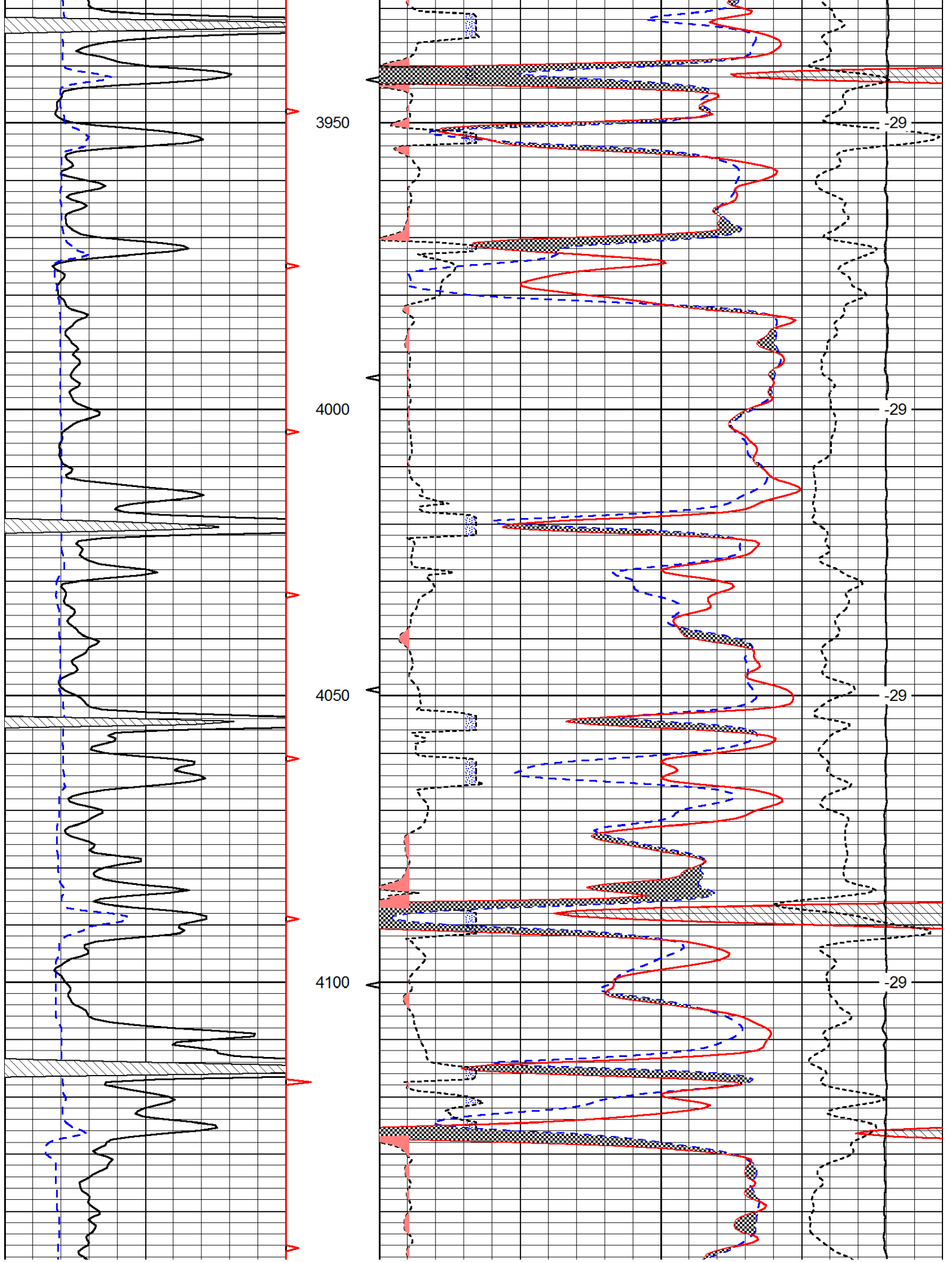


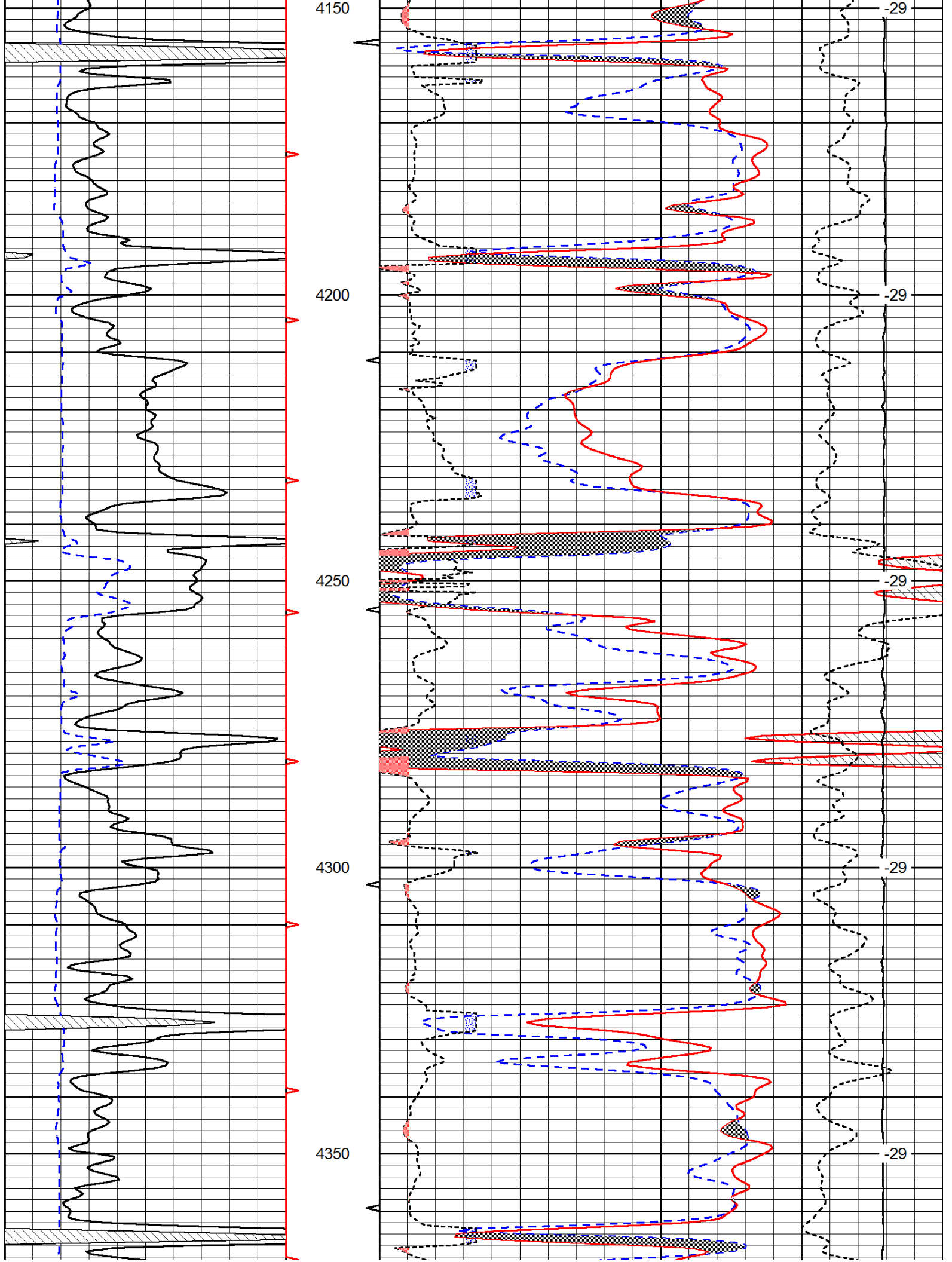


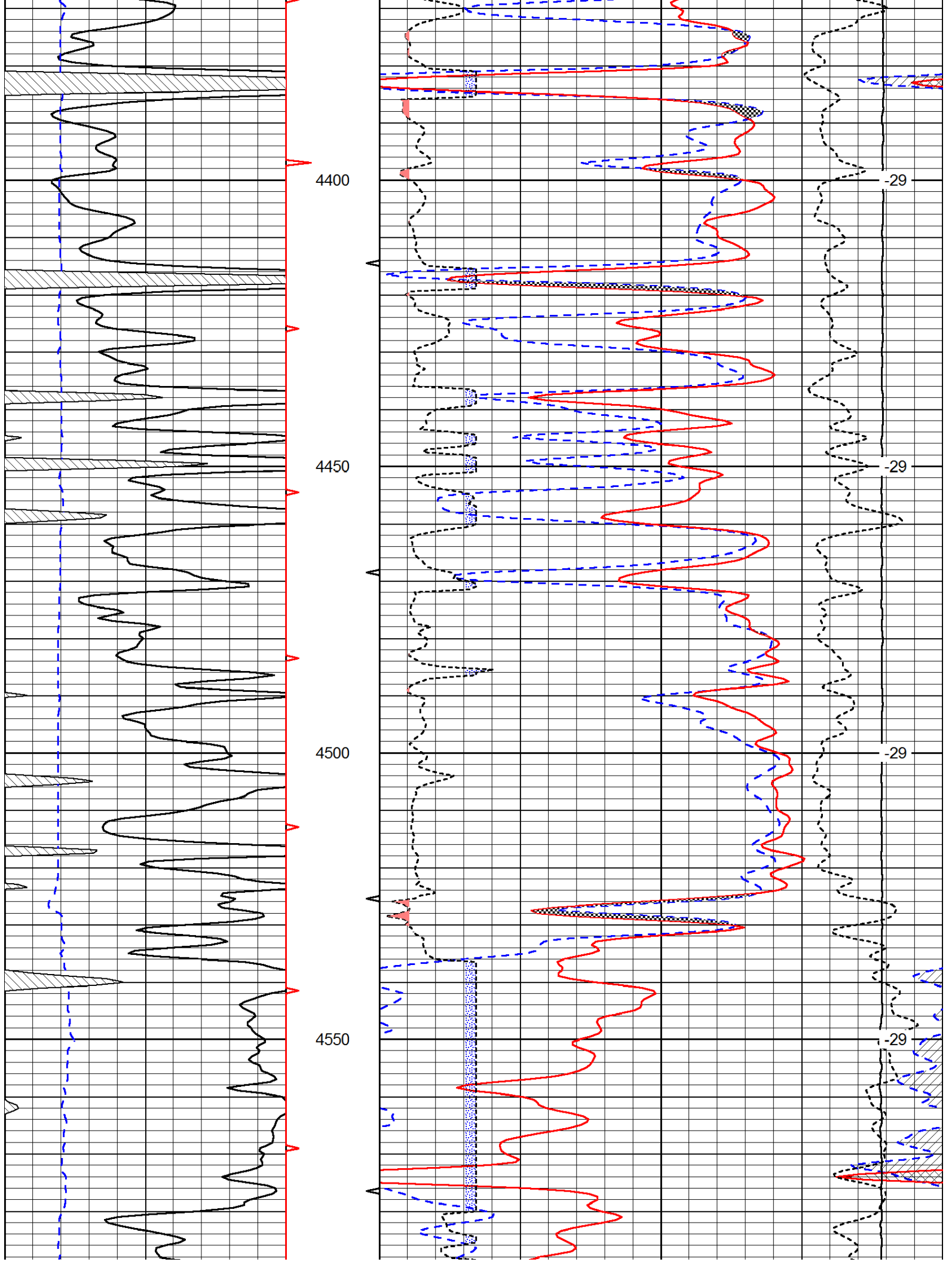
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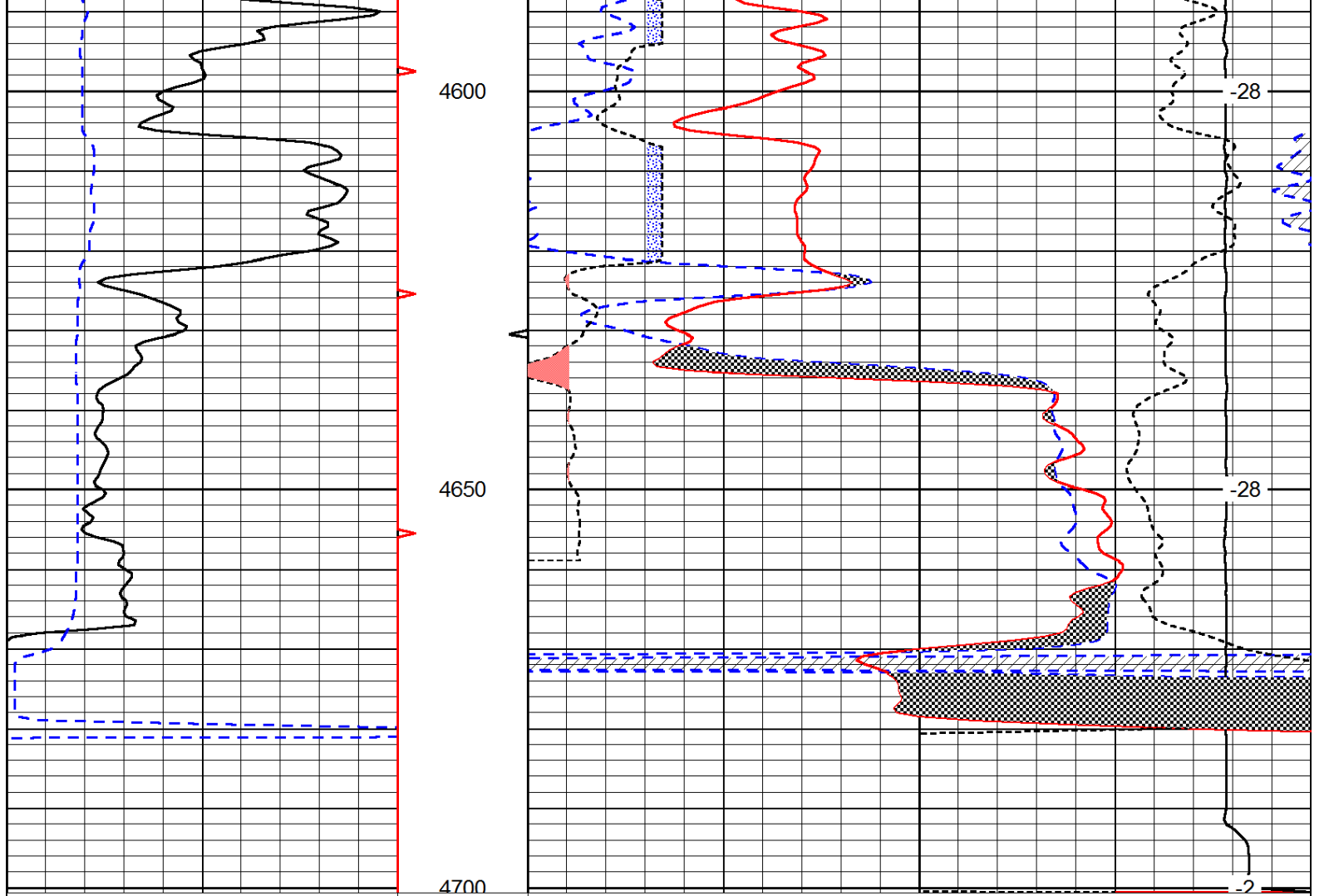












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)			-10	
30	Compensated Density (Limestone)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension			0	

LSPD



DIGITAL LOG (785) 625-3858

Microresistivity Log

15-109-21,096-00-00

API No.

Company K&B Norton Oil & Investments, LLC
 Well McDaniel No. 2
 Field Wildcat
 County Logan State Kansas

Location NW SW NW NE
 726' FNL & 2,890' FWL

Sec: 14 Twp: 15S Rge: 34W

Other Services
 CNL/CDL
 DIL/BHCS

Permanent Datum Ground Level Elevation 2921
 Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 2926
 D.F.
 G.L. 2921

Date	6/3/2012
Run Number	Two
Depth Driller	4690
Depth Logger	4692
Bottom Logged Interval	4691
Top Log Interval	3600
Casing Driller	8.625 @ 290
Casing Logger	289
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	7200
Density / Viscosity	9.2 61
pH / Fluid Loss	9.5 10.4
Source of Sample	Flowline
Rm @ Meas. Temp	.44 @ 66
Rmf @ Meas. Temp	.33 @ 66
Rmc @ Meas. Temp	.59 @ 66
Source of Rmf / Rmc	Charts
Rm @ BHT	.24 @ 123
Operating Rig Time	5 Hours
Max Rec. Temp. F	123
Equipment Number	108
Location	Hays
Recorded By	J. Long
Witnessed By	Steven P. Murphy

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Comments

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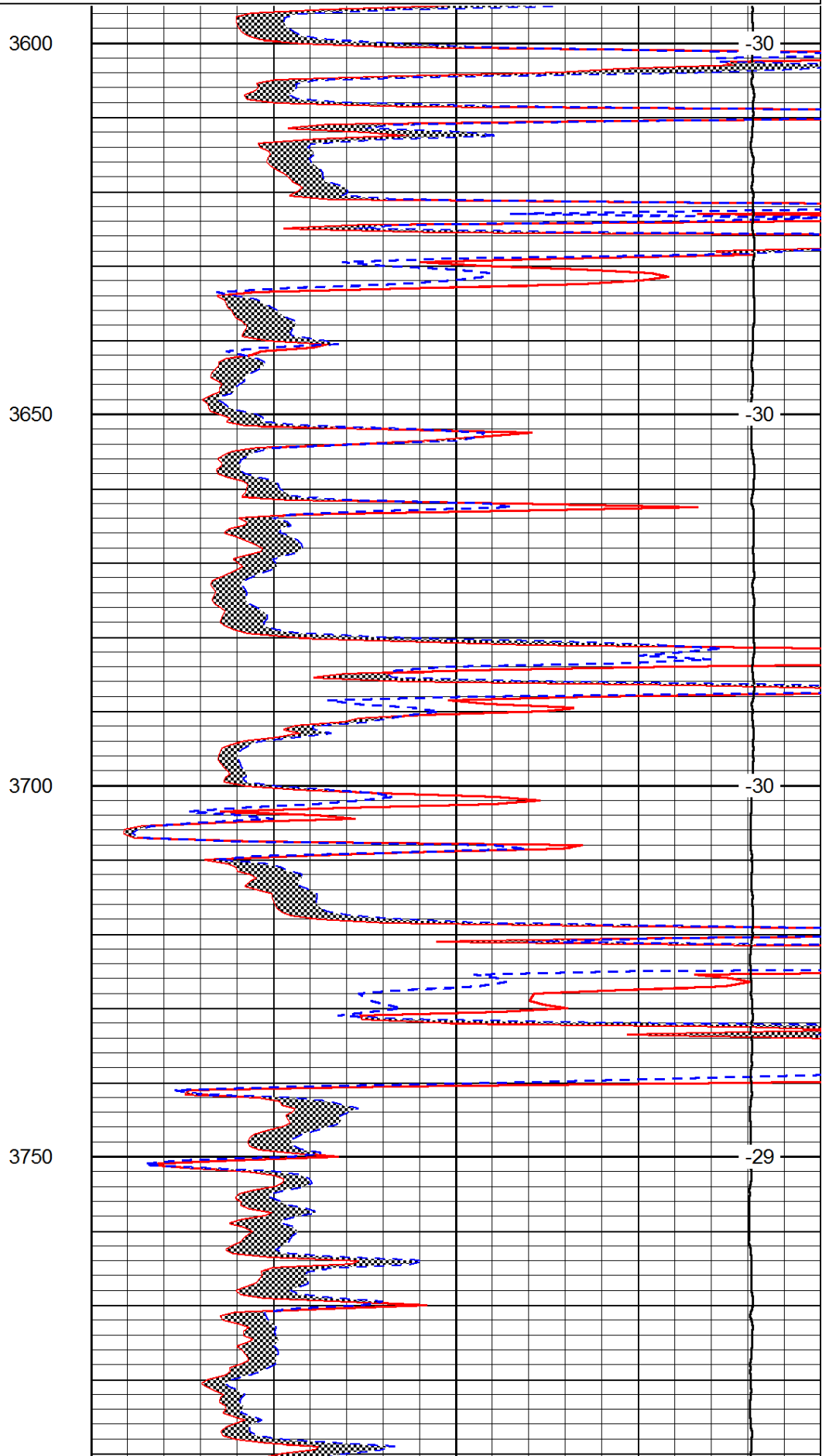
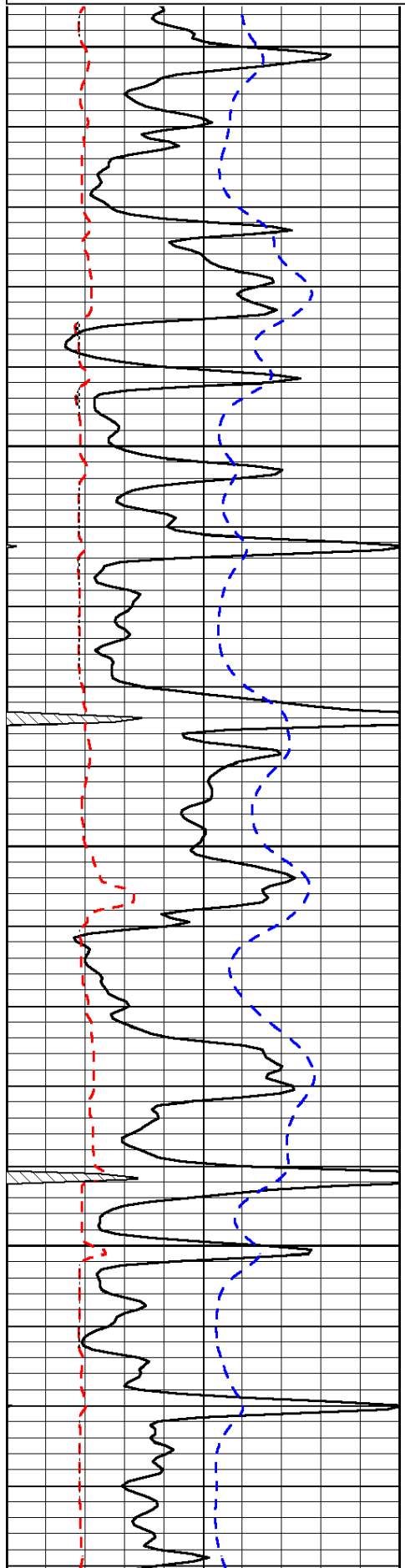
Pence, 6 North, 3/4 East, North Into

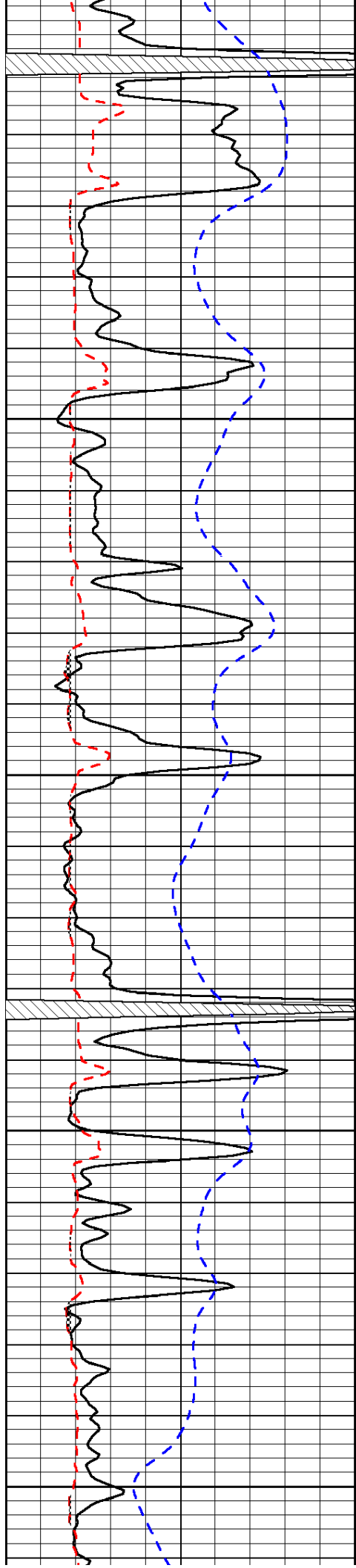
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 Presentation Format: micro
 Dataset Creation: Sun Jun 03 06:23:59 2012
 Charted by: Depth in Feet scaled 1:240

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





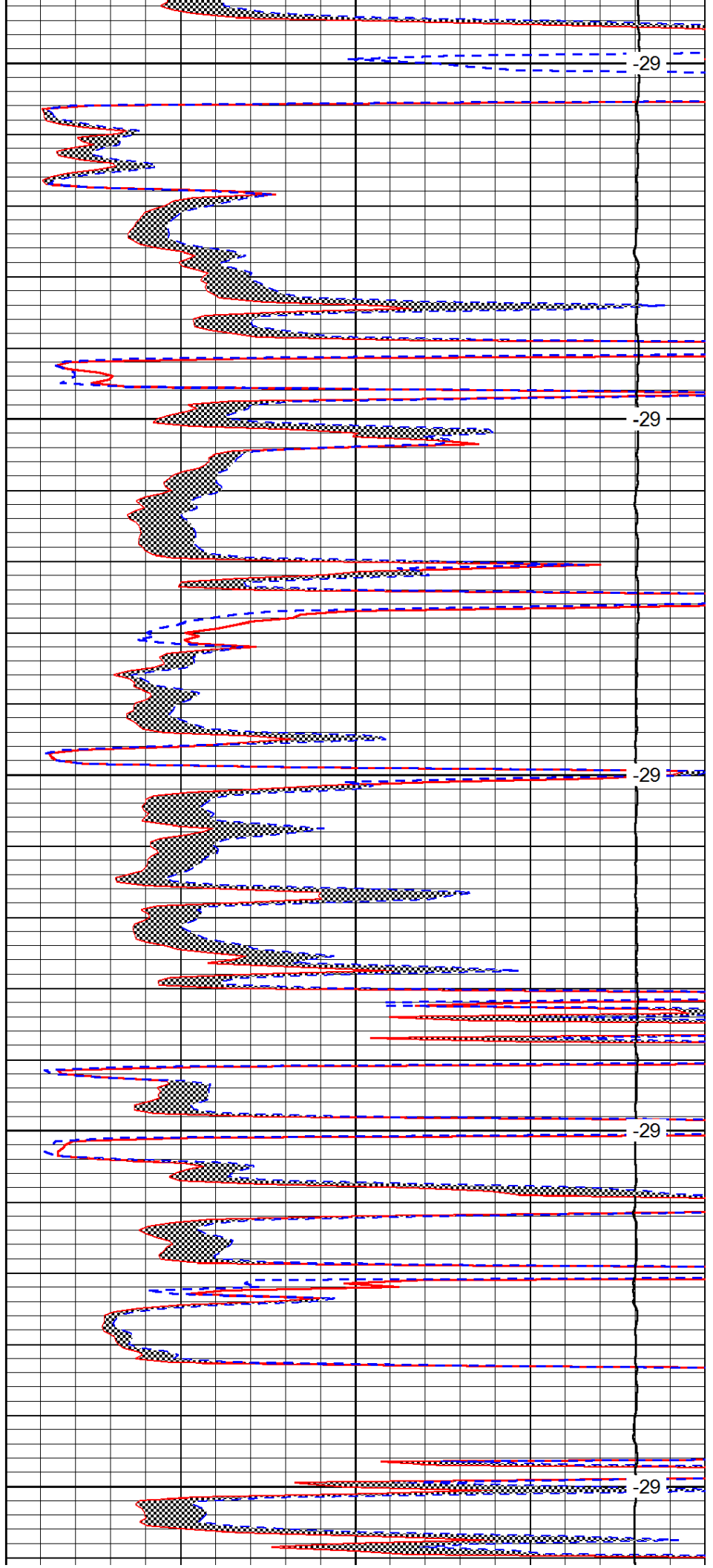
3800

3850

3900

3950

4000



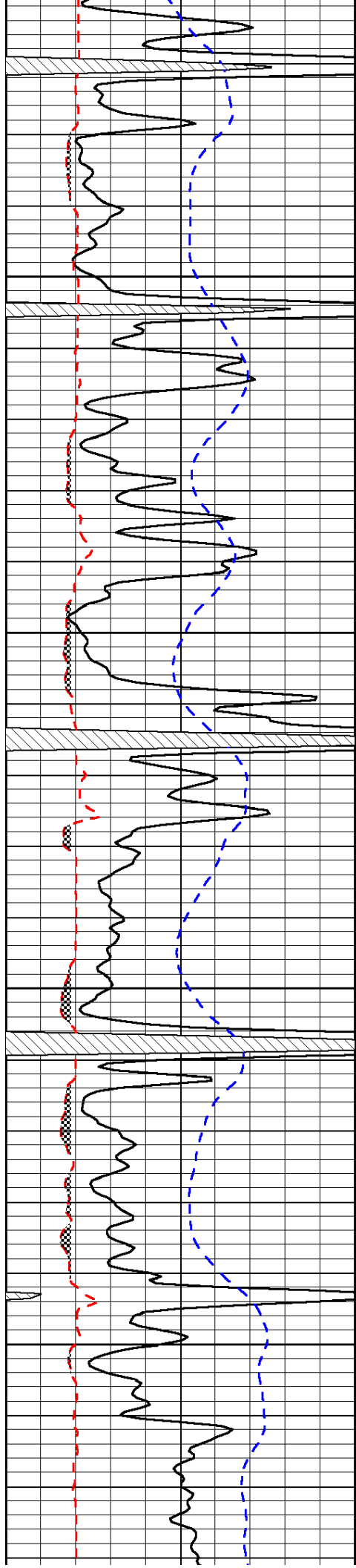
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-29

-29

-29

-29

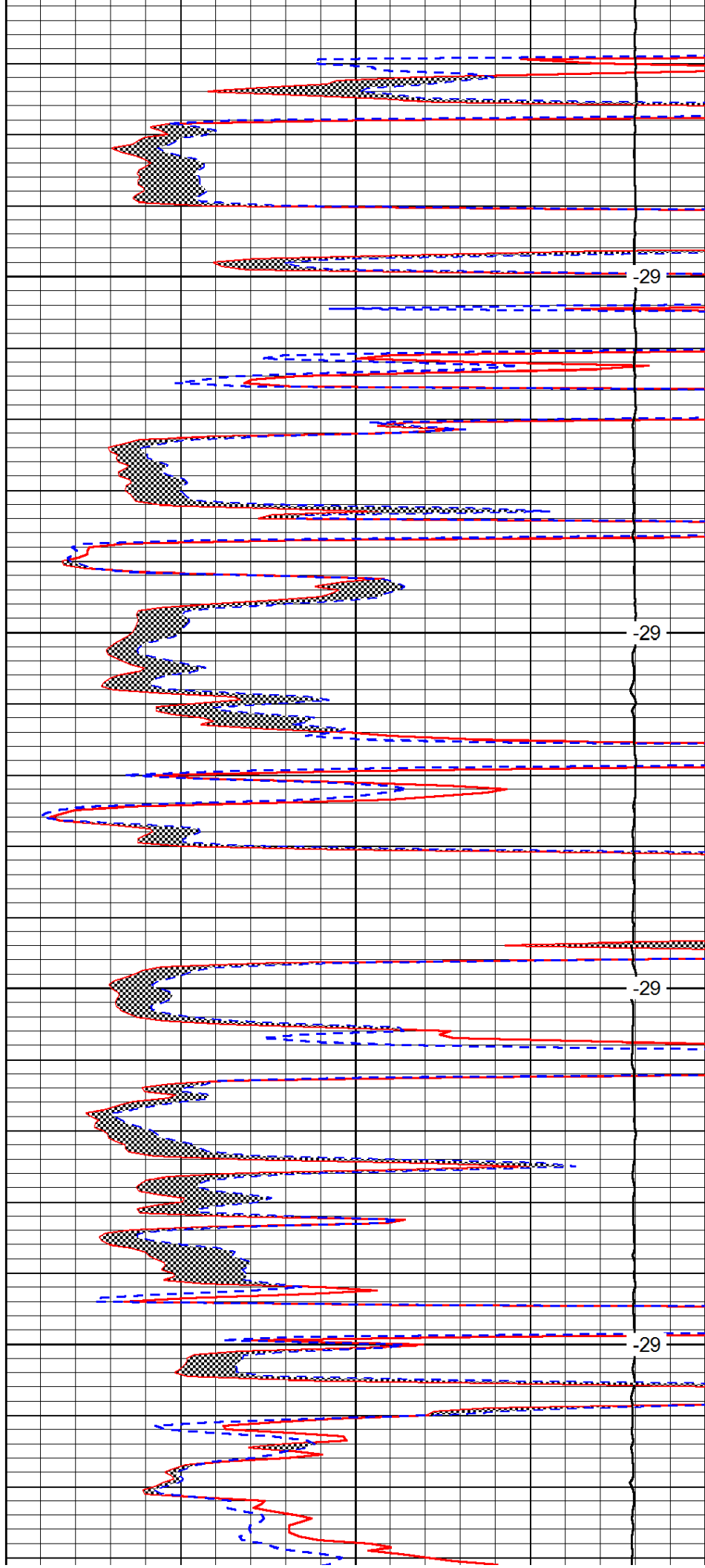


4050

4100

4150

4200

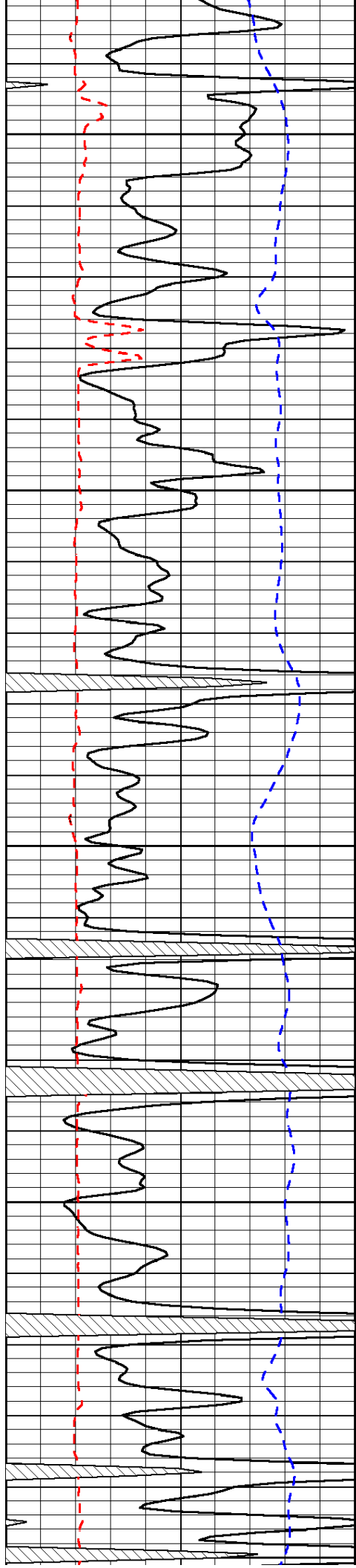


-29

-29

-29

-29



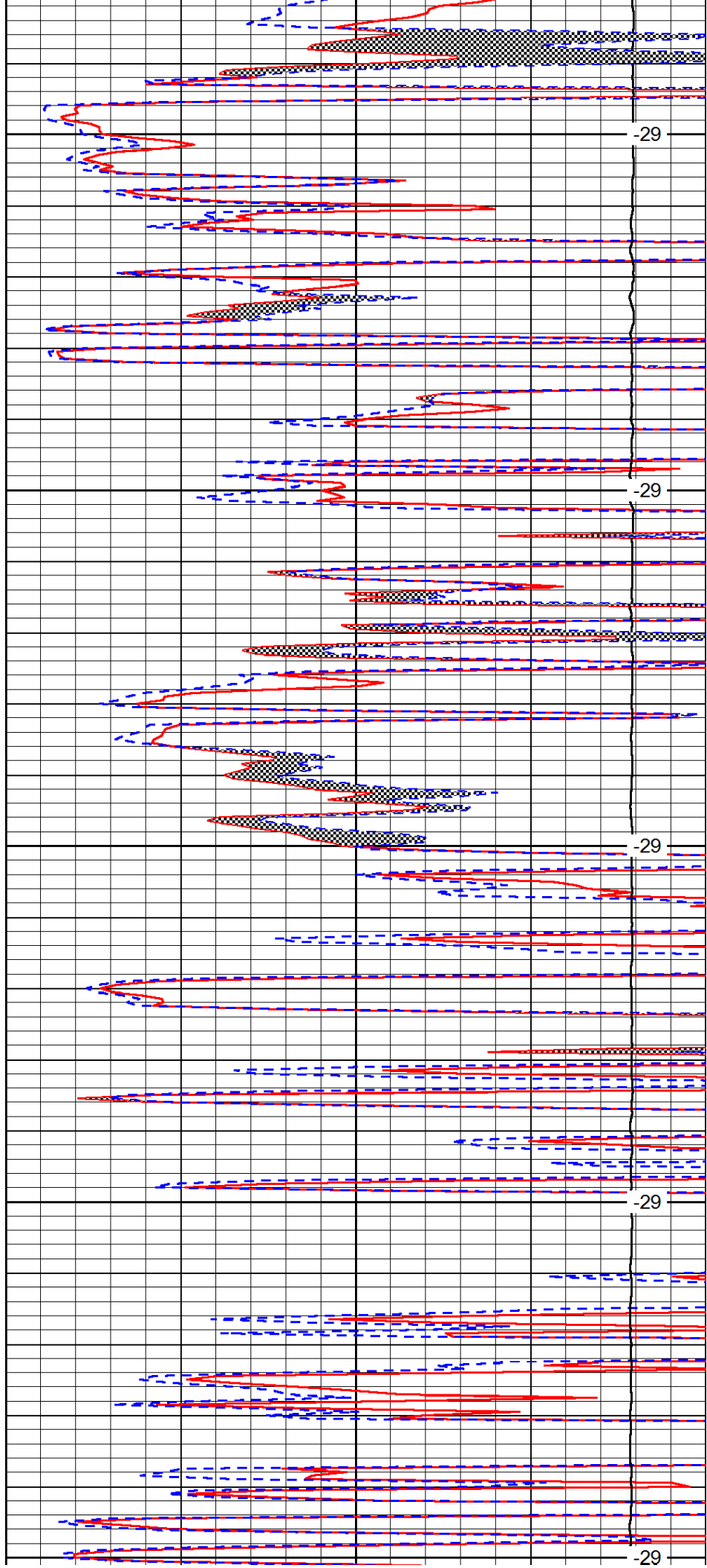
4250

4300

4350

4400

4450



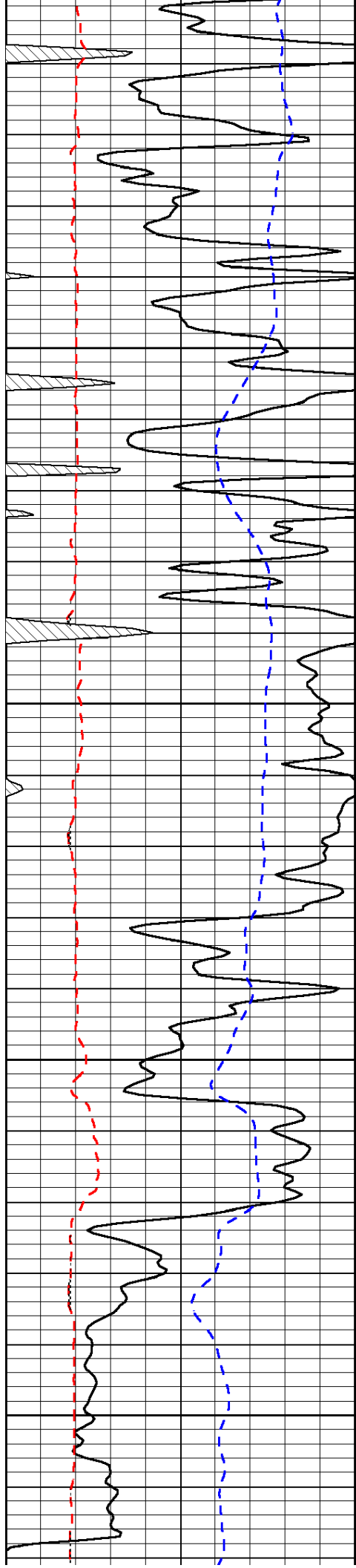
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-29

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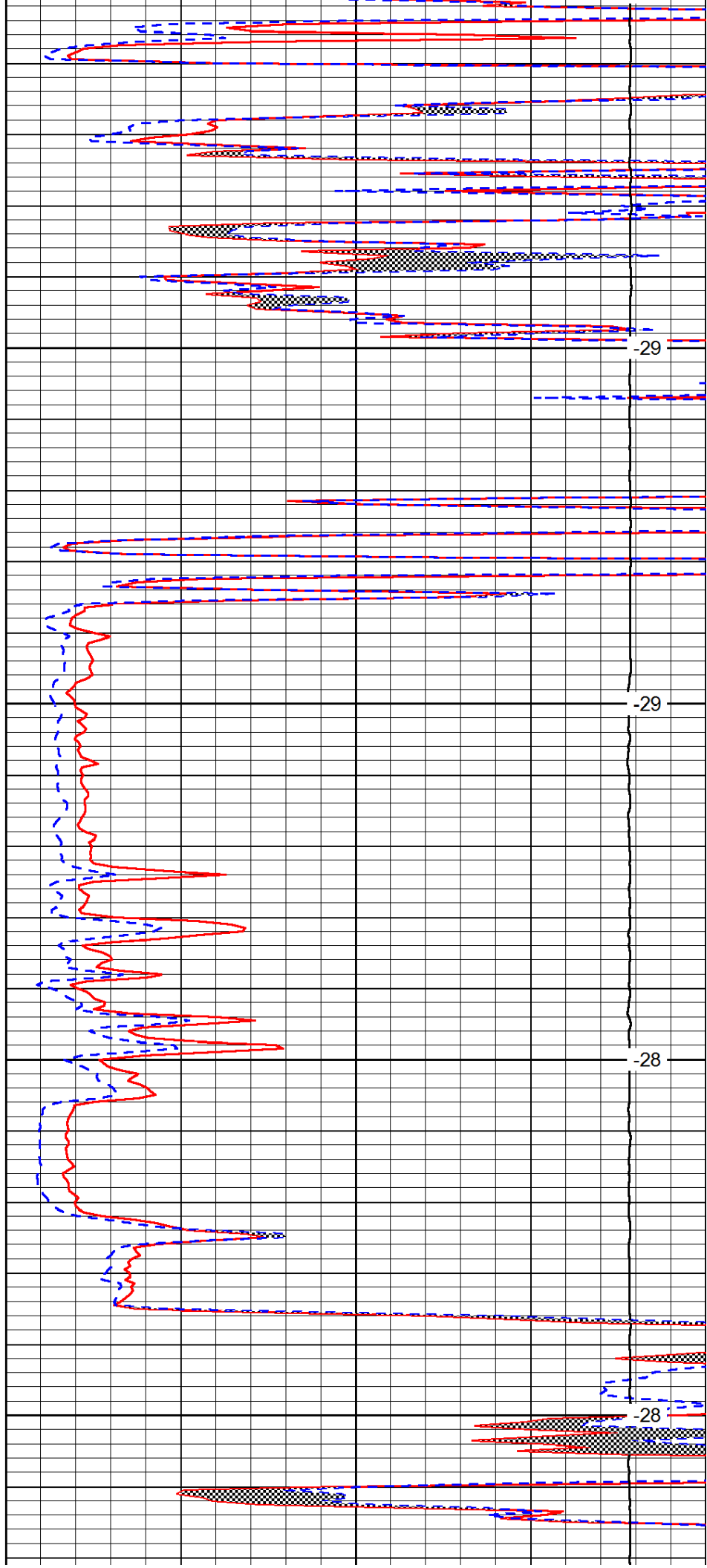


4500

4550

4600

4650

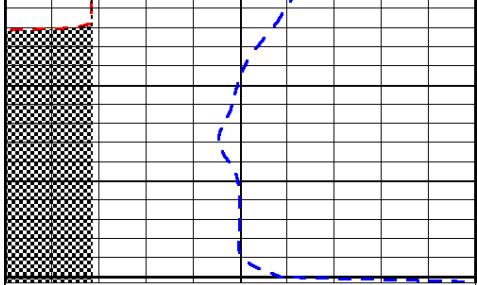


-29

-29

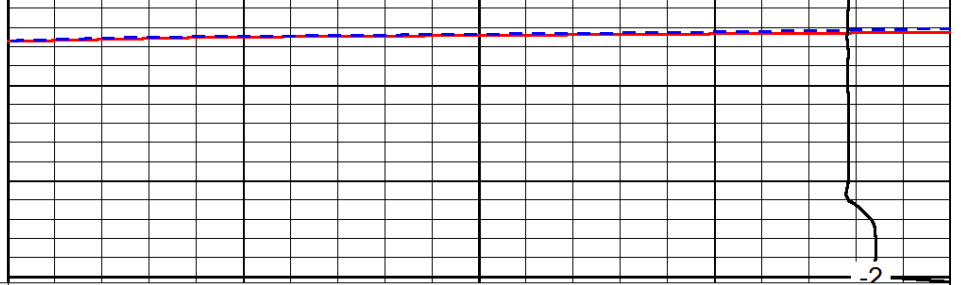
-28

-28



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

4700



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

LSPD



DIGITAL LOG (785) 625-3858

Borehole Compensated
Sonic Log

15-109-21,096-00-00

API No.

Company **K&B Norton Oil & Investments, LLC**
 Well **McDaniel No. 2**
 Field **Wildcat**
 County **Logan** State **Kansas**

Location **NW SW NW NE
726' FNL & 2,890' FWL**

Sec: 14 Twp: 15S Rge: 34W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum **Ground Level** Elevation **2921**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2926
D.F.
G.L. 2921

Date	6/3/2012	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4690	
Depth Logger	4692	
Bottom Logged Interval	4681	
Top Logged Interval	250	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	7200	
Density	9.2	
Level	Full	
Max. Rec. Temp. F	123	
Operating Rig Time	5 Hours	
Equipment -- Location	108 Hays	
Recorded By	J. Long	
Witnessed By	Steven P. Murphy	

Borehole Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	290	8.625	24#	00	290
2	7.875	290	4690				

Casing Record

<<< 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

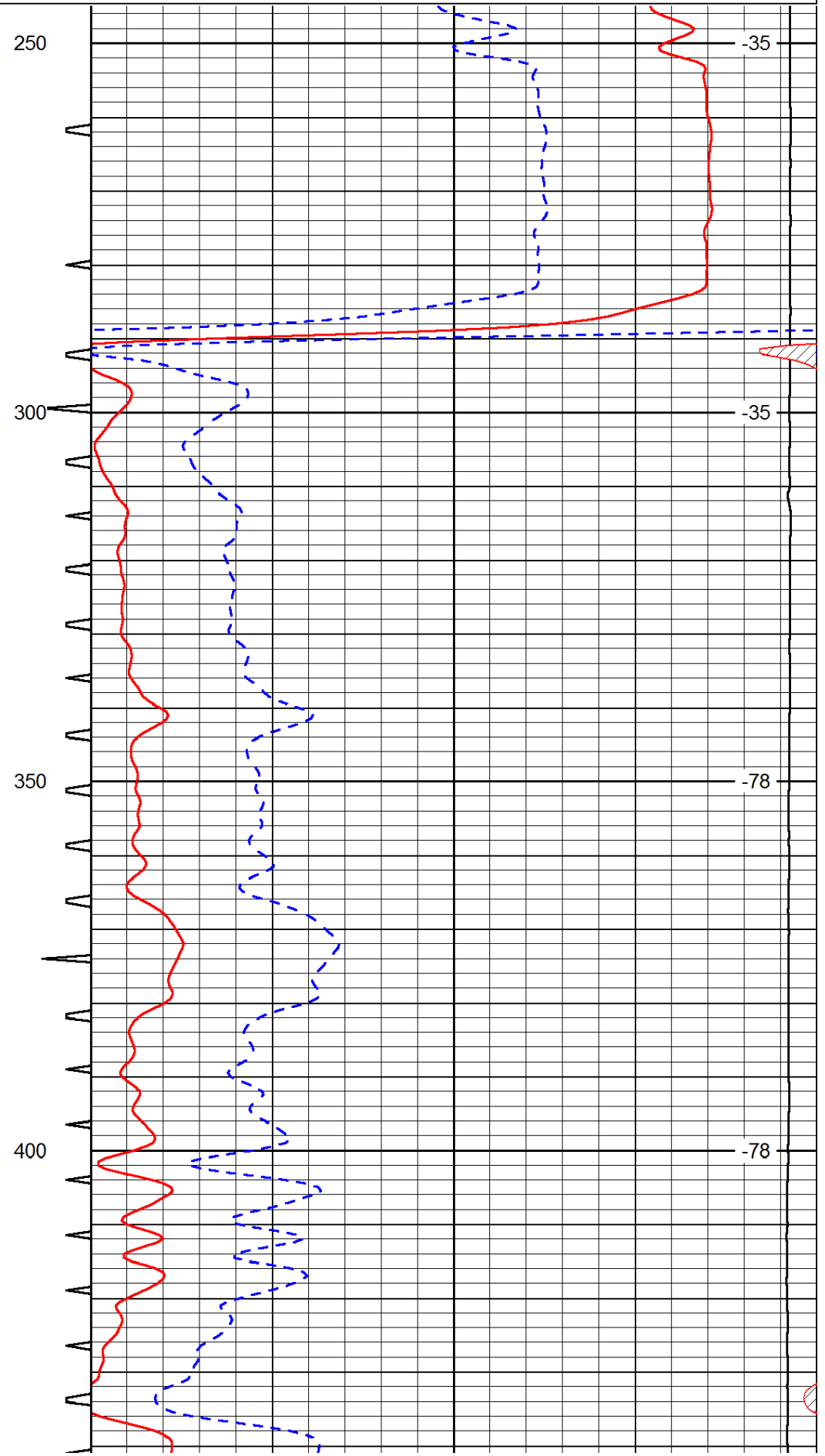
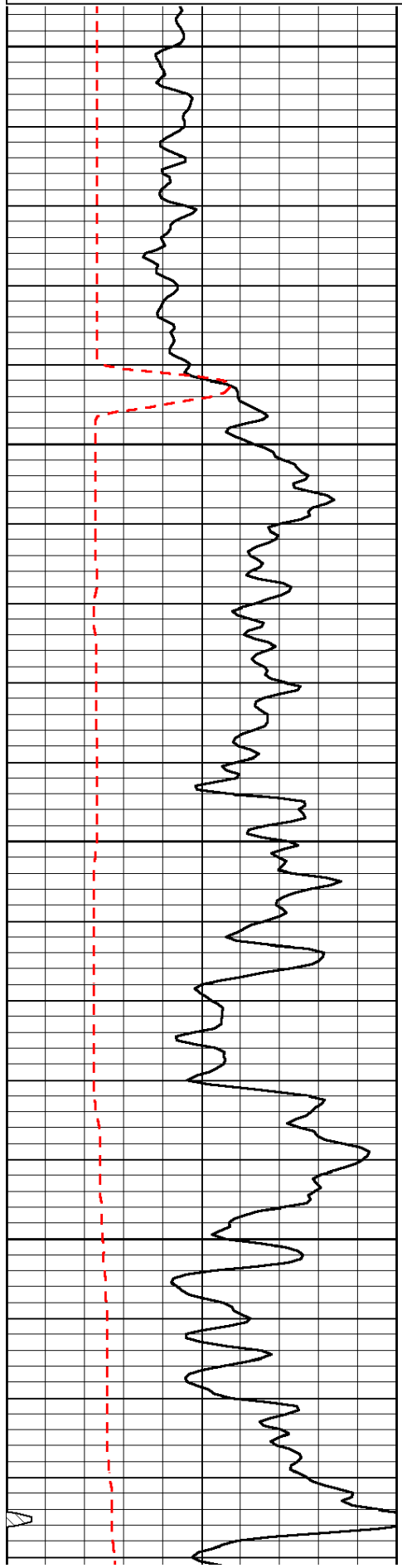
Thank you for using Log-Tech, Inc.
(785) 625-3858

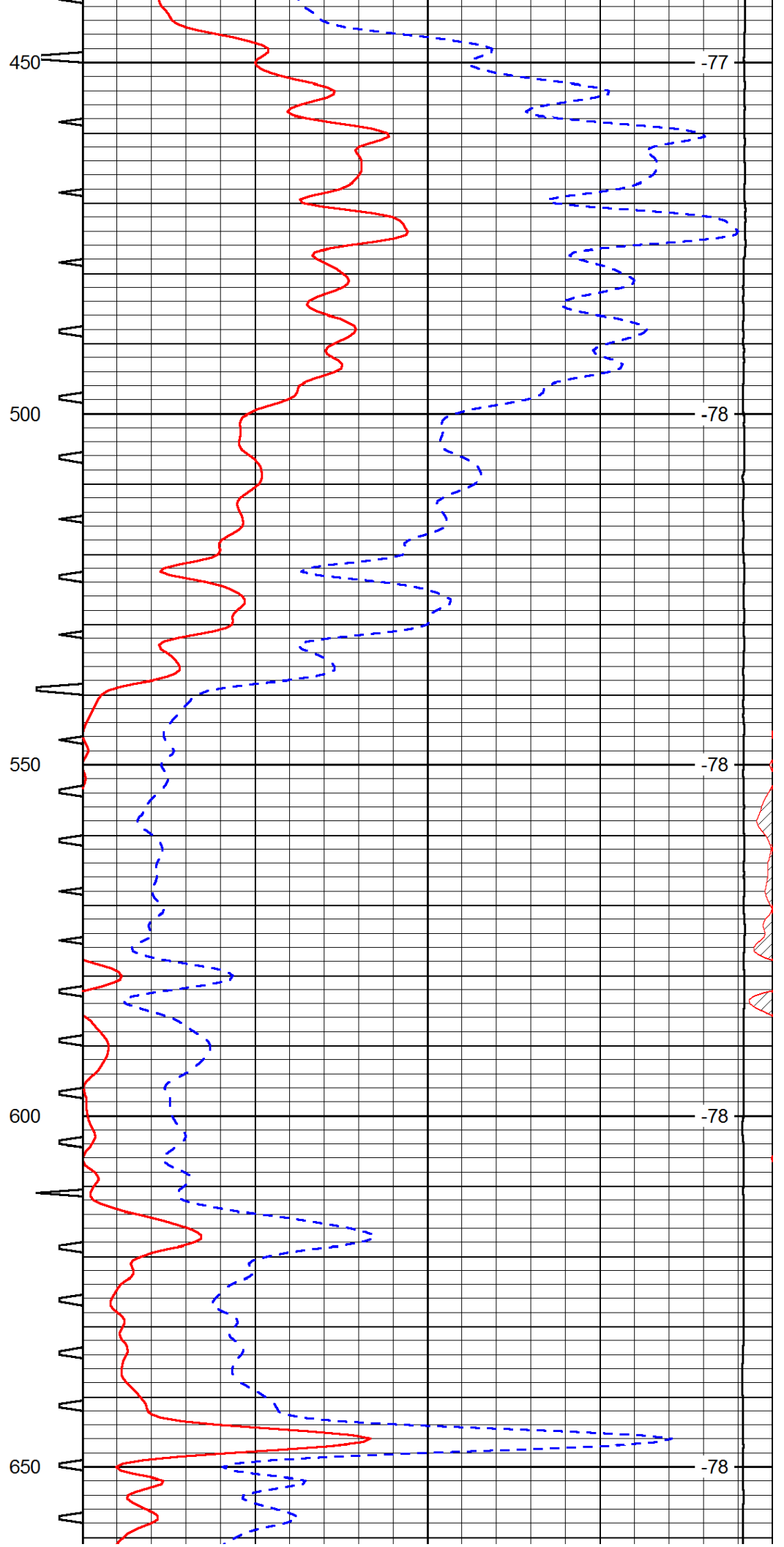
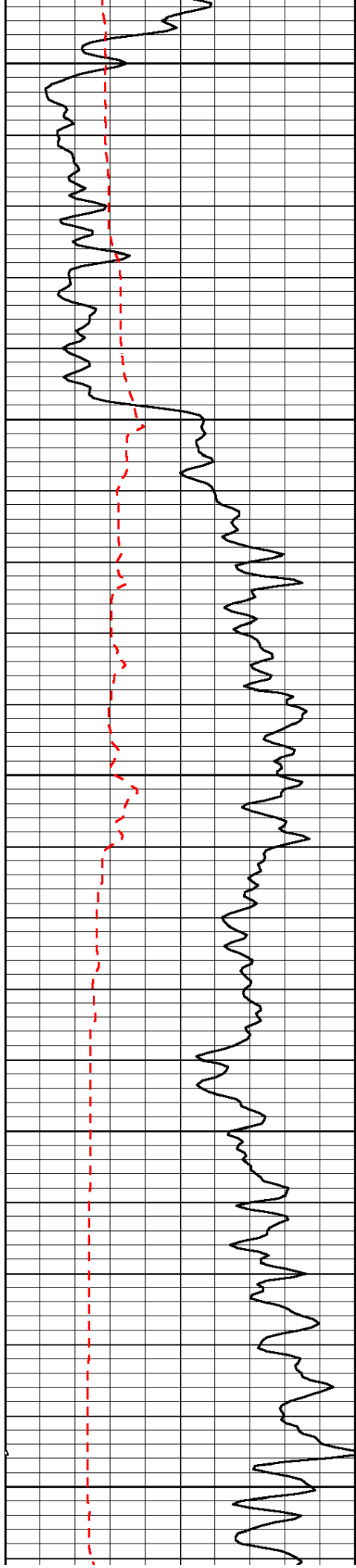
Pence, 6 North, 3/4 East, North Into

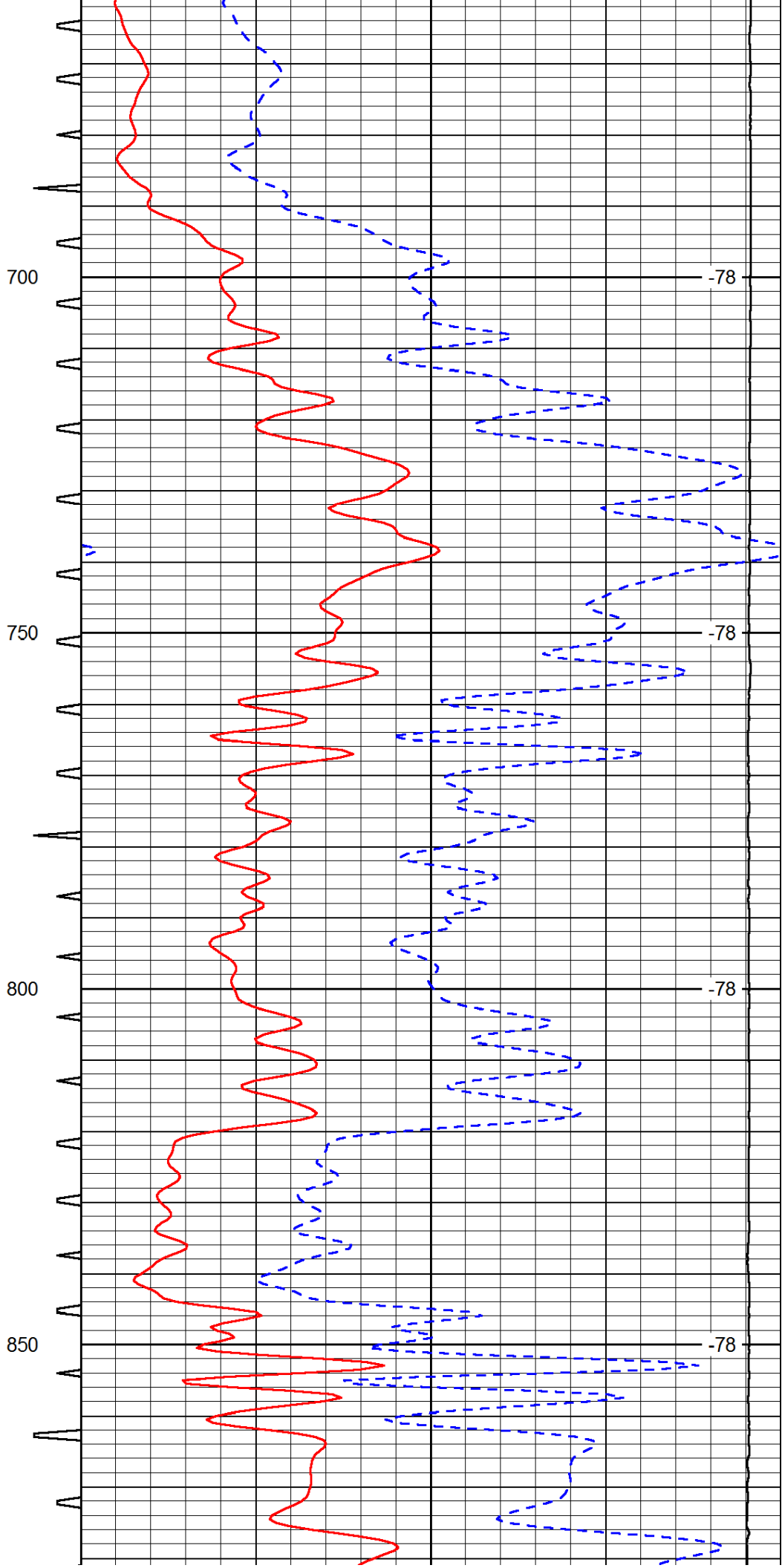
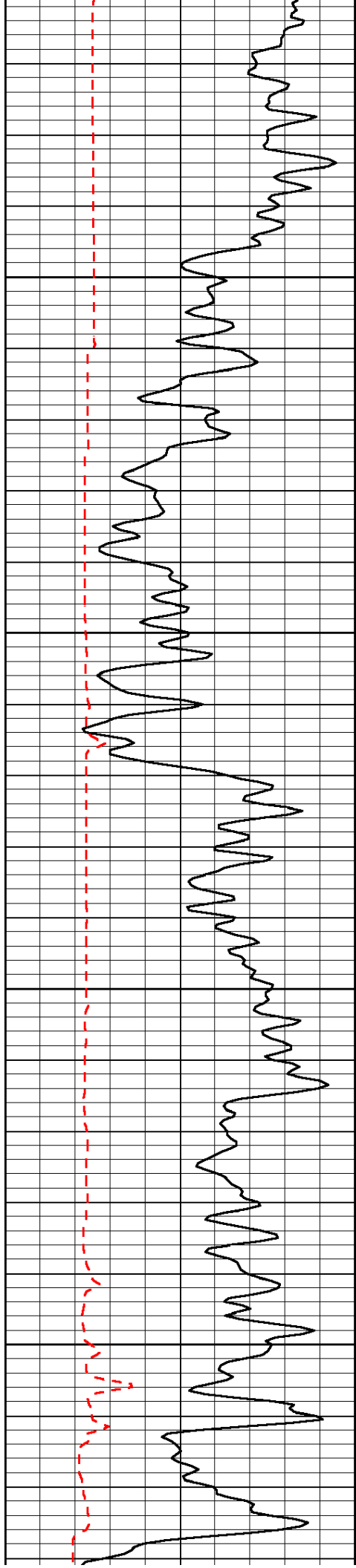
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 Dataset Pathname: dil/kbstck
 Presentation Format: sonic
 Dataset Creation: Sun Jun 03 06:23:59 2012
 Charted by: Depth in Feet scaled 1:240

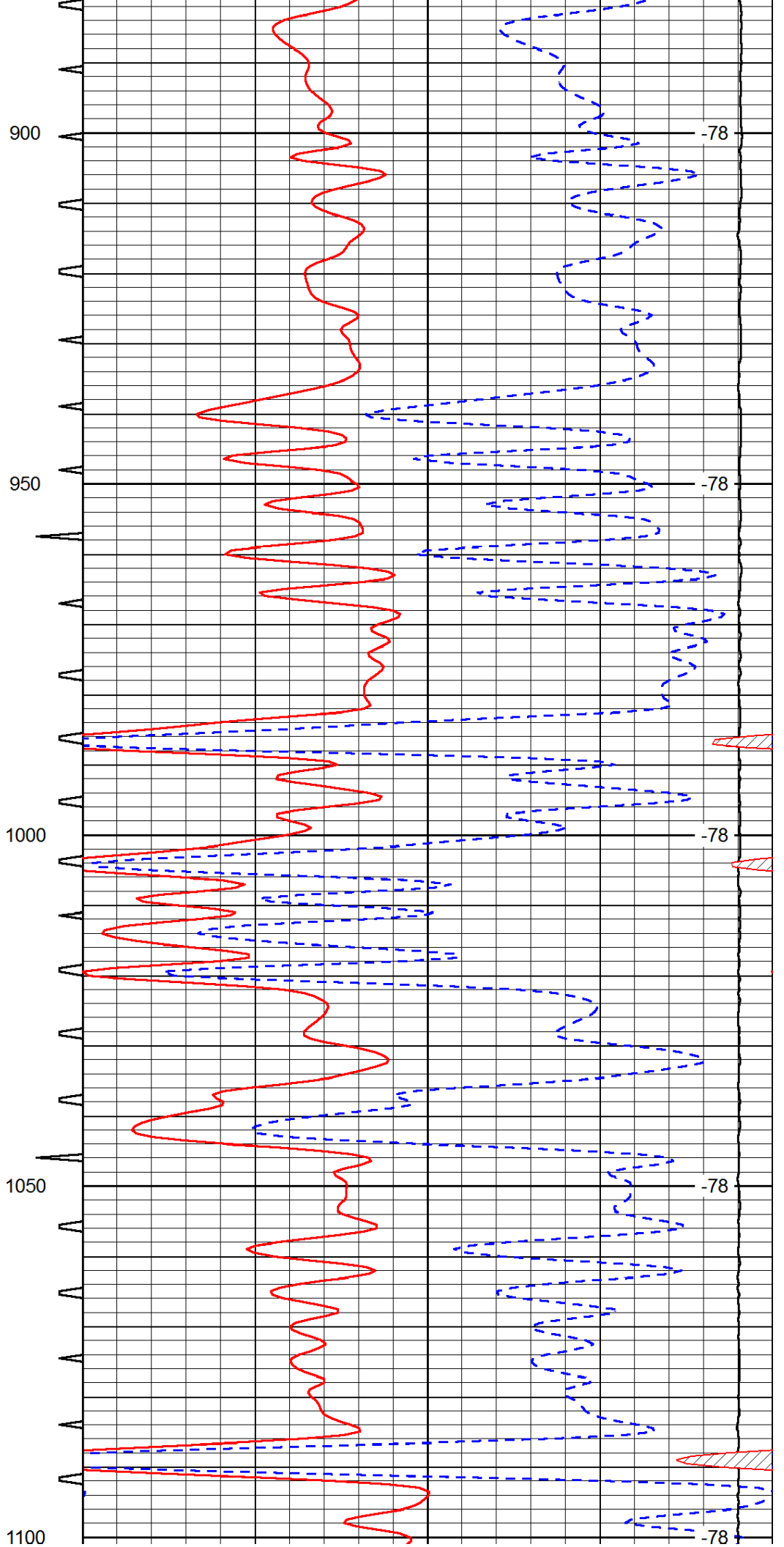
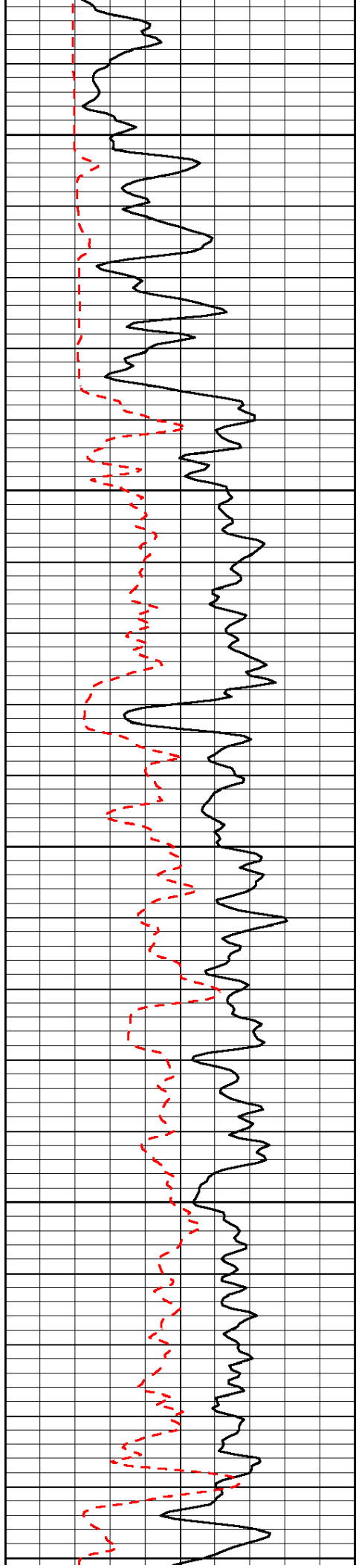
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

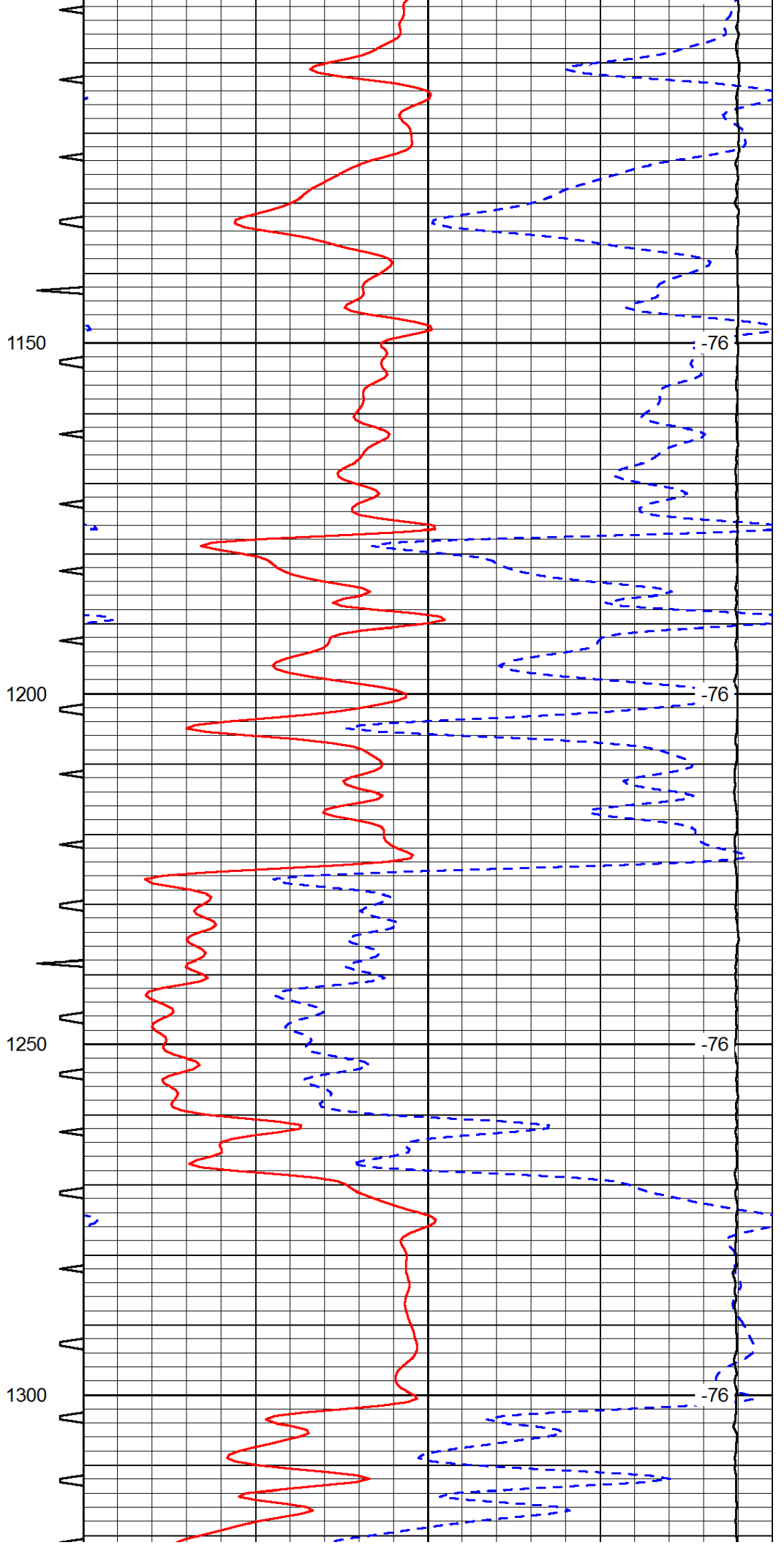
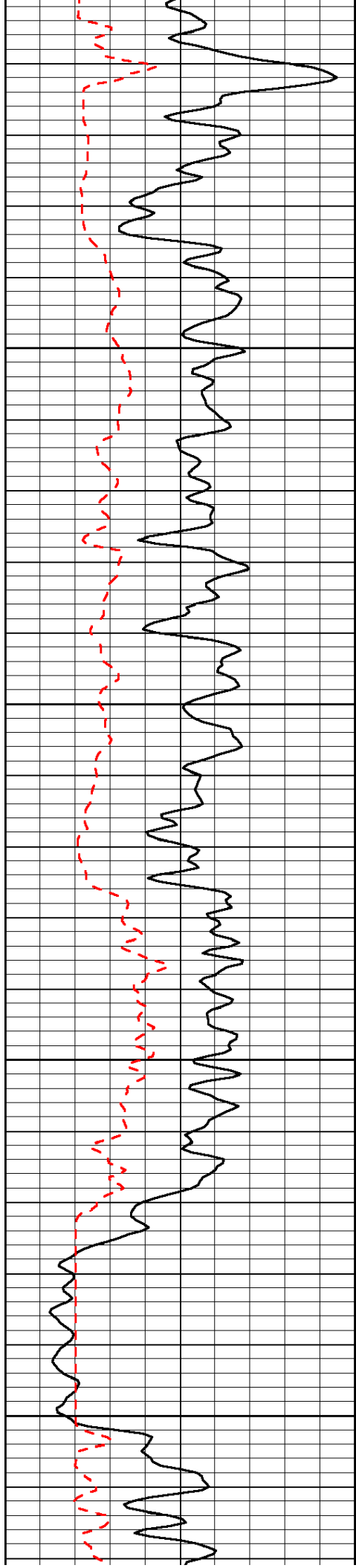
LSPD

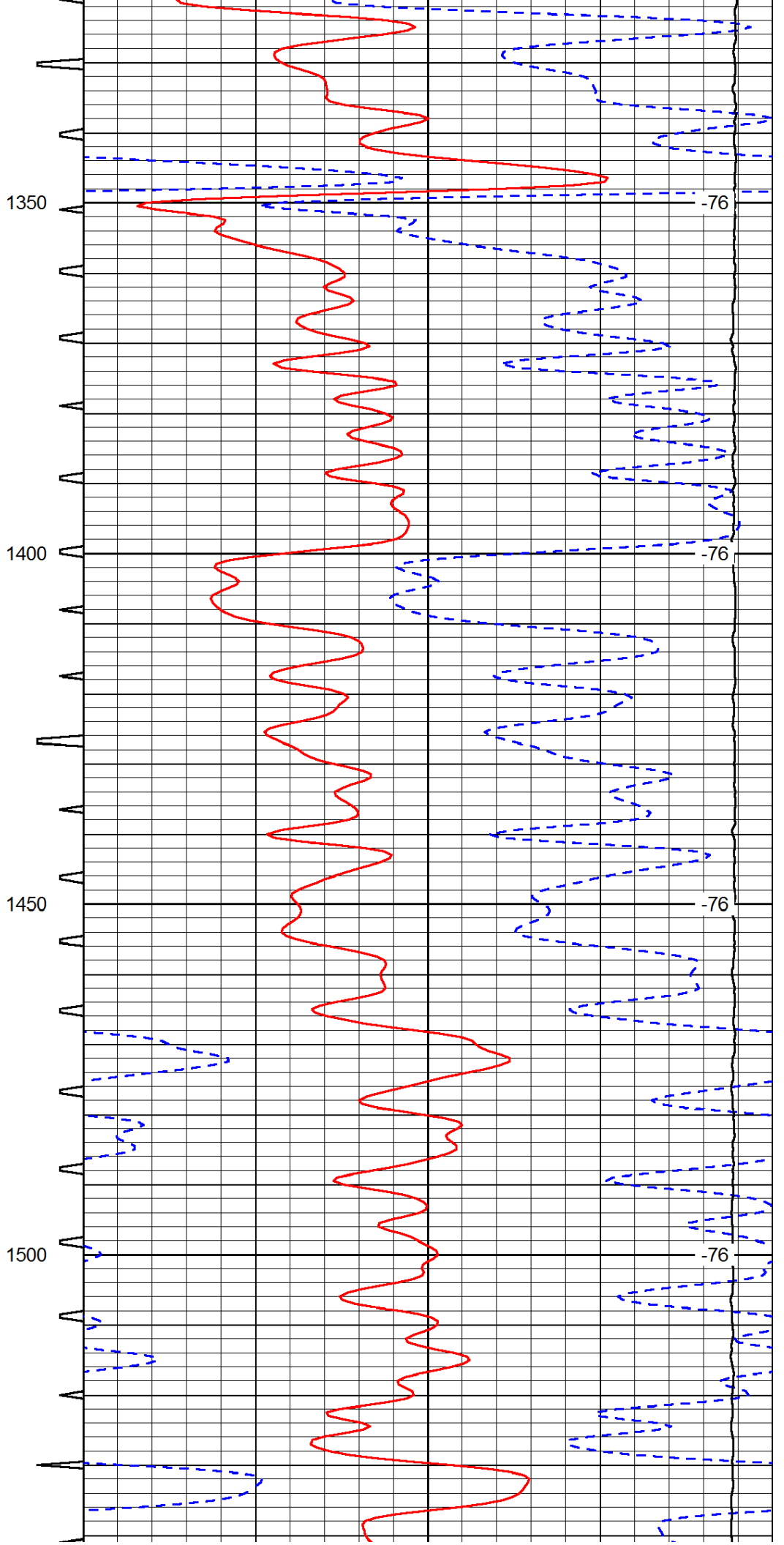
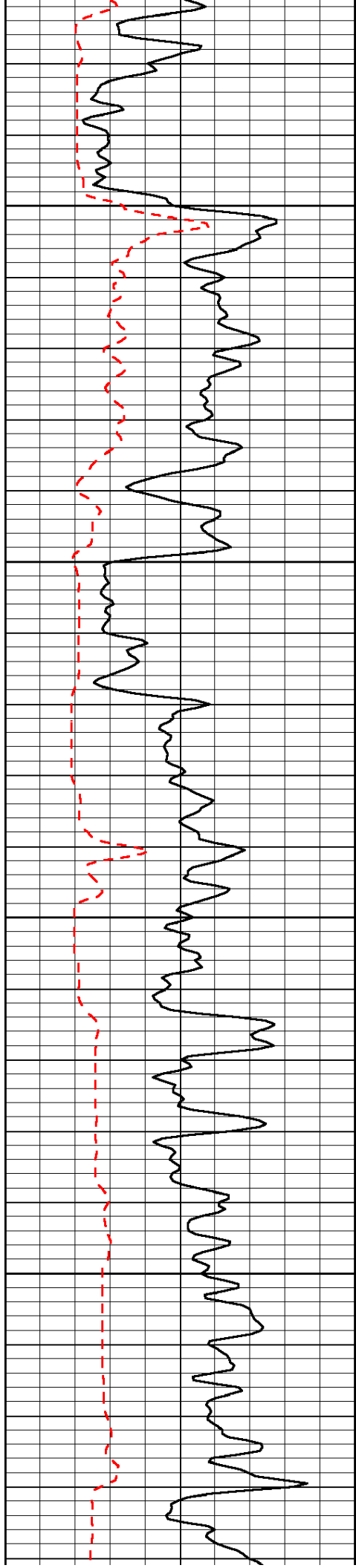


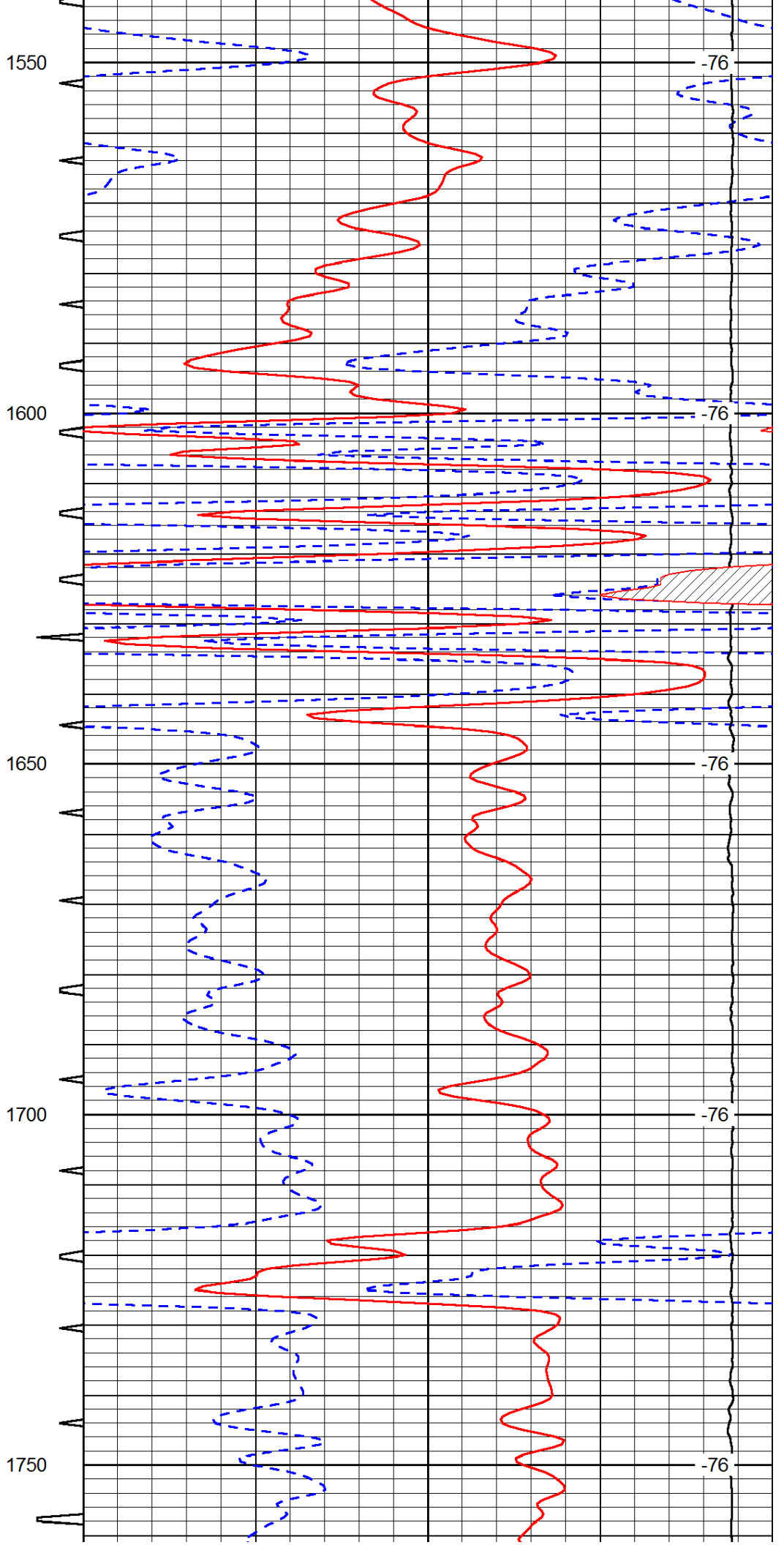
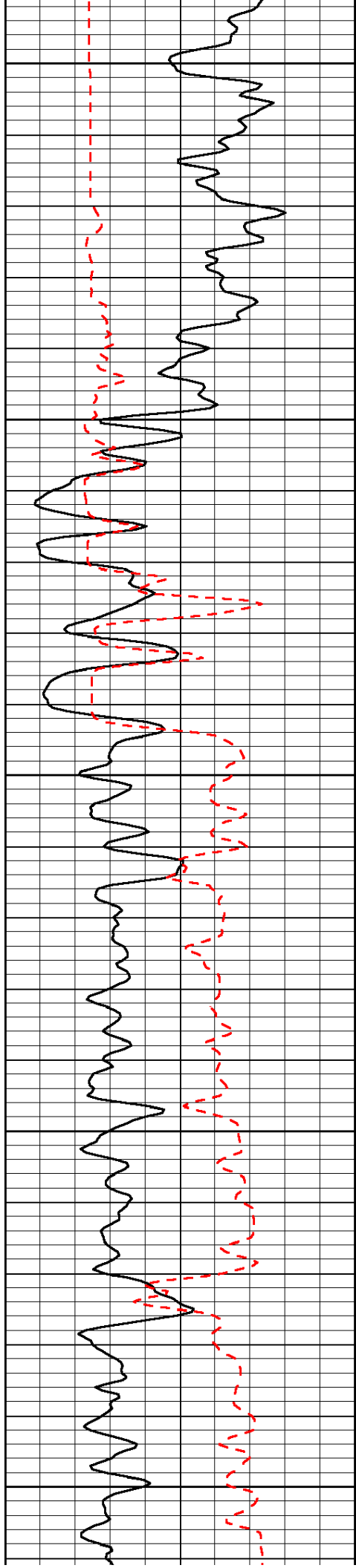


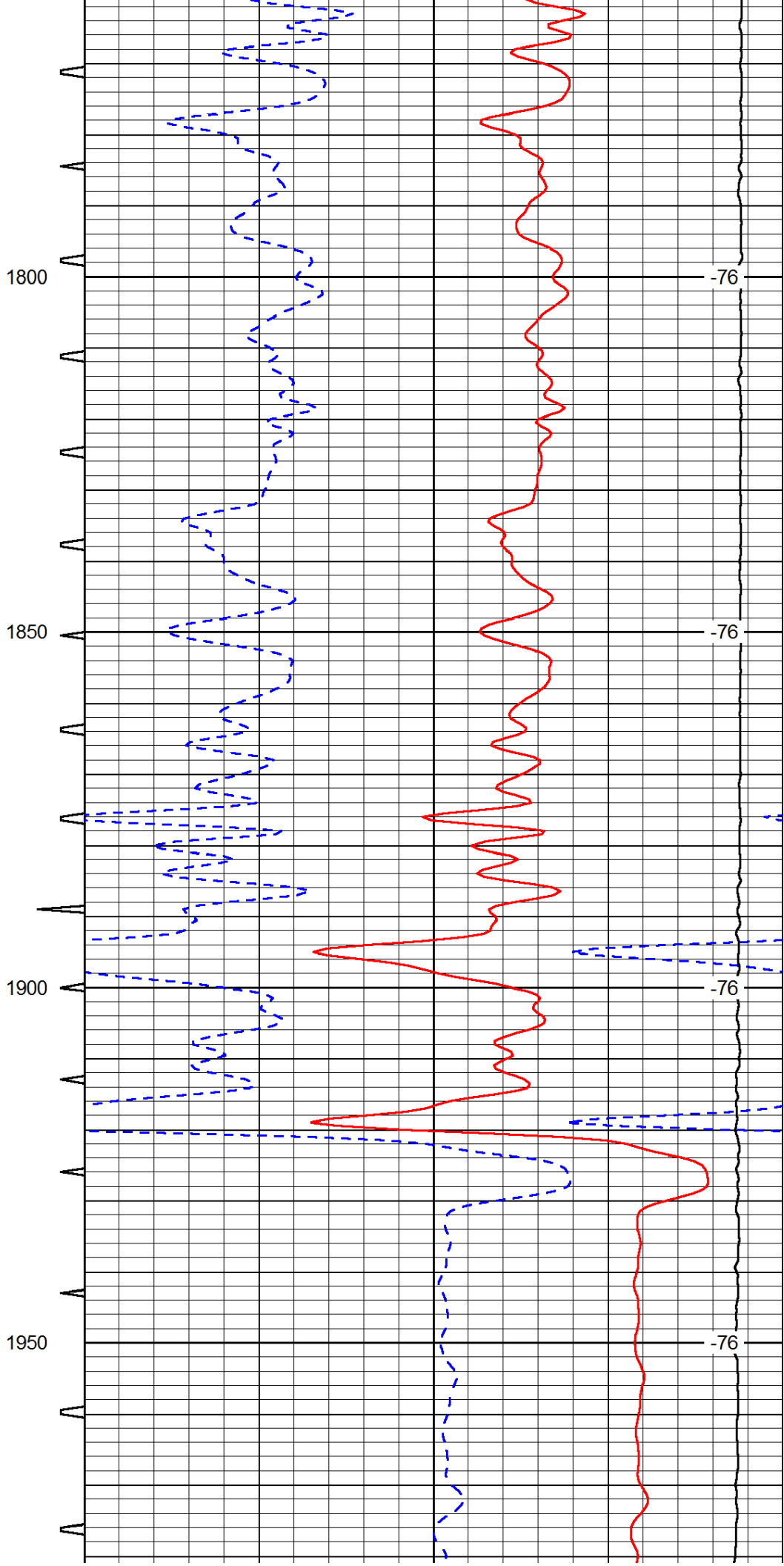
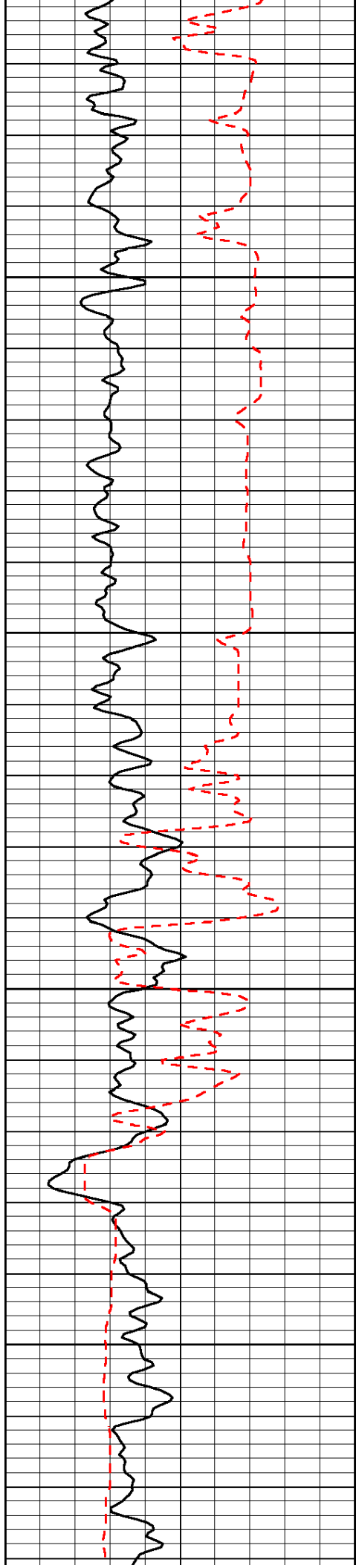


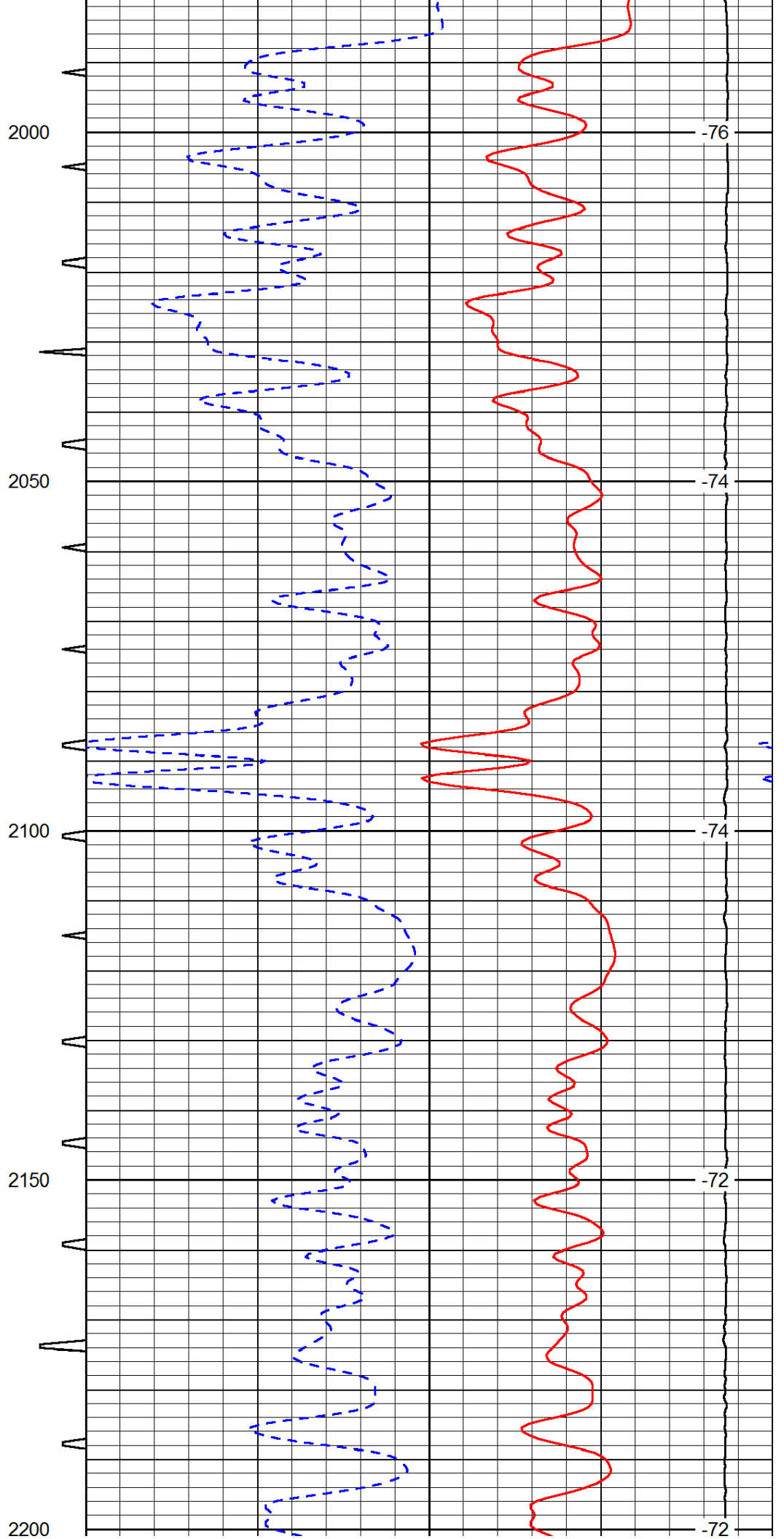
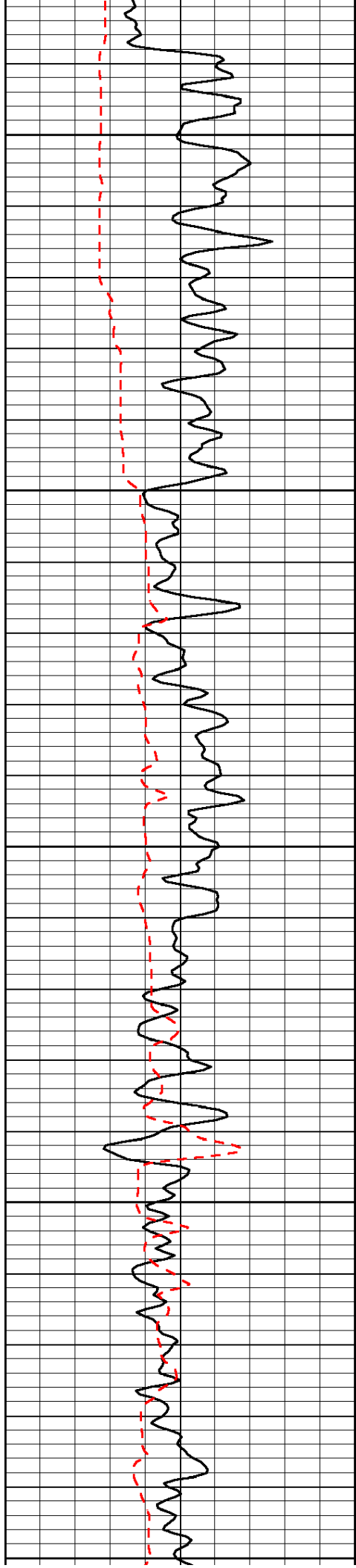


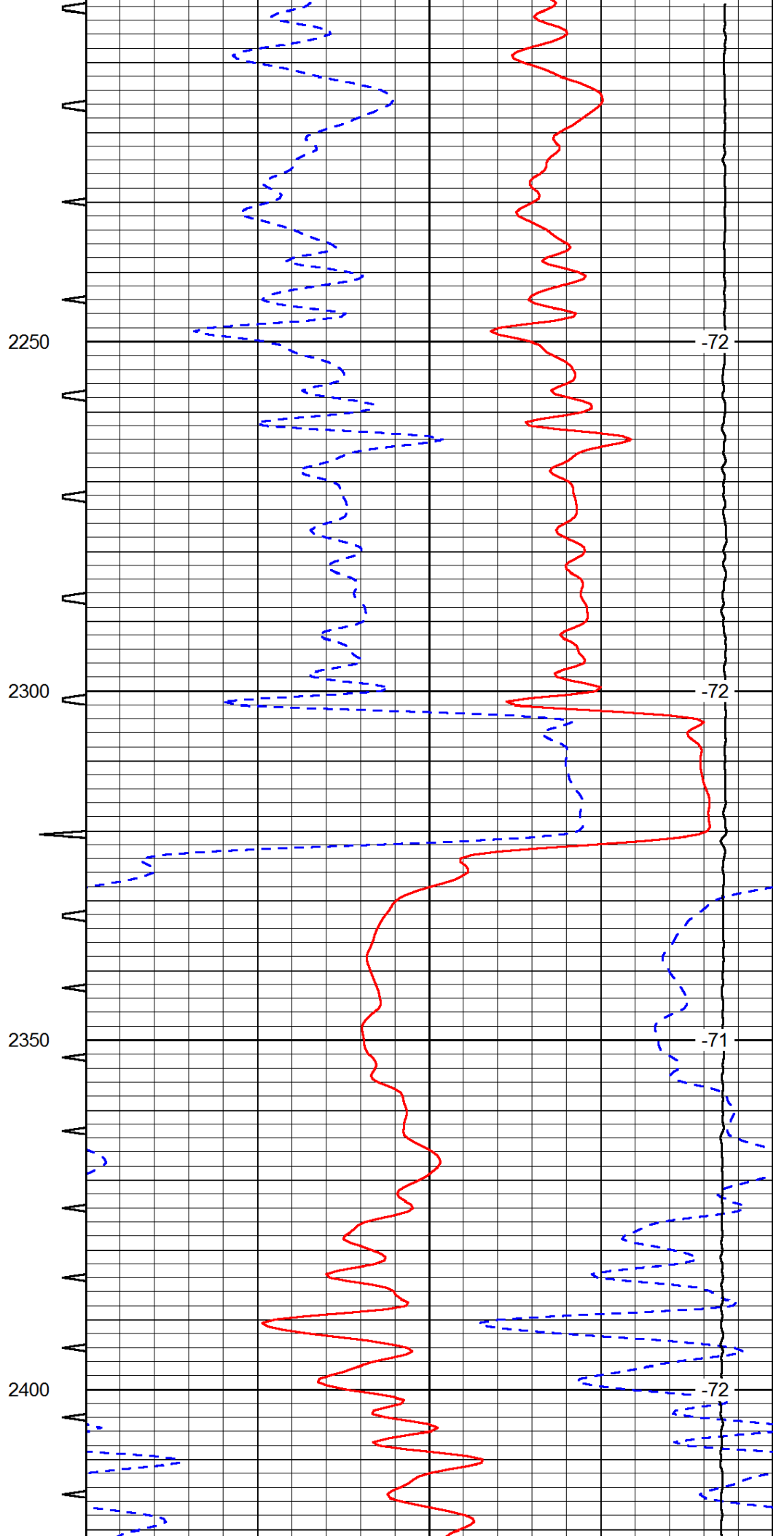
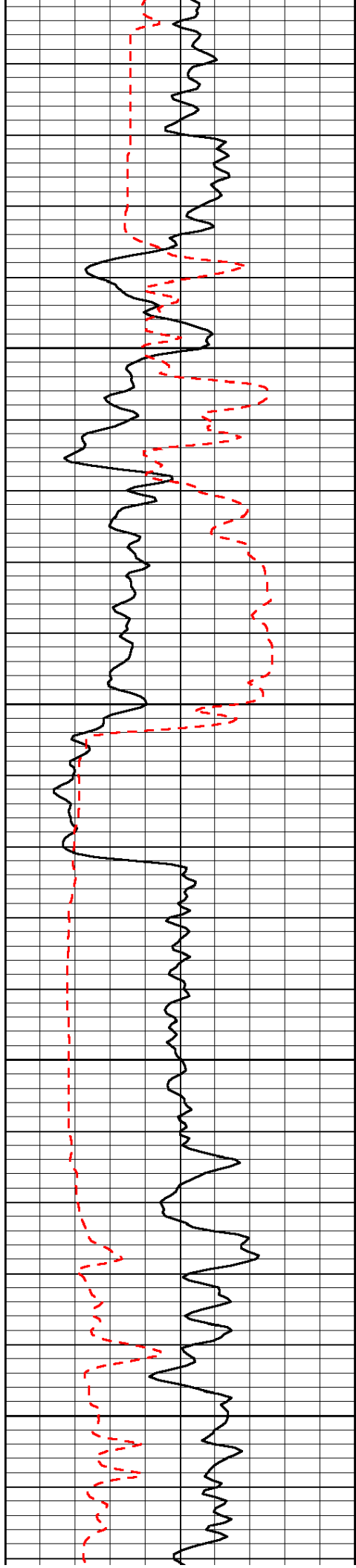


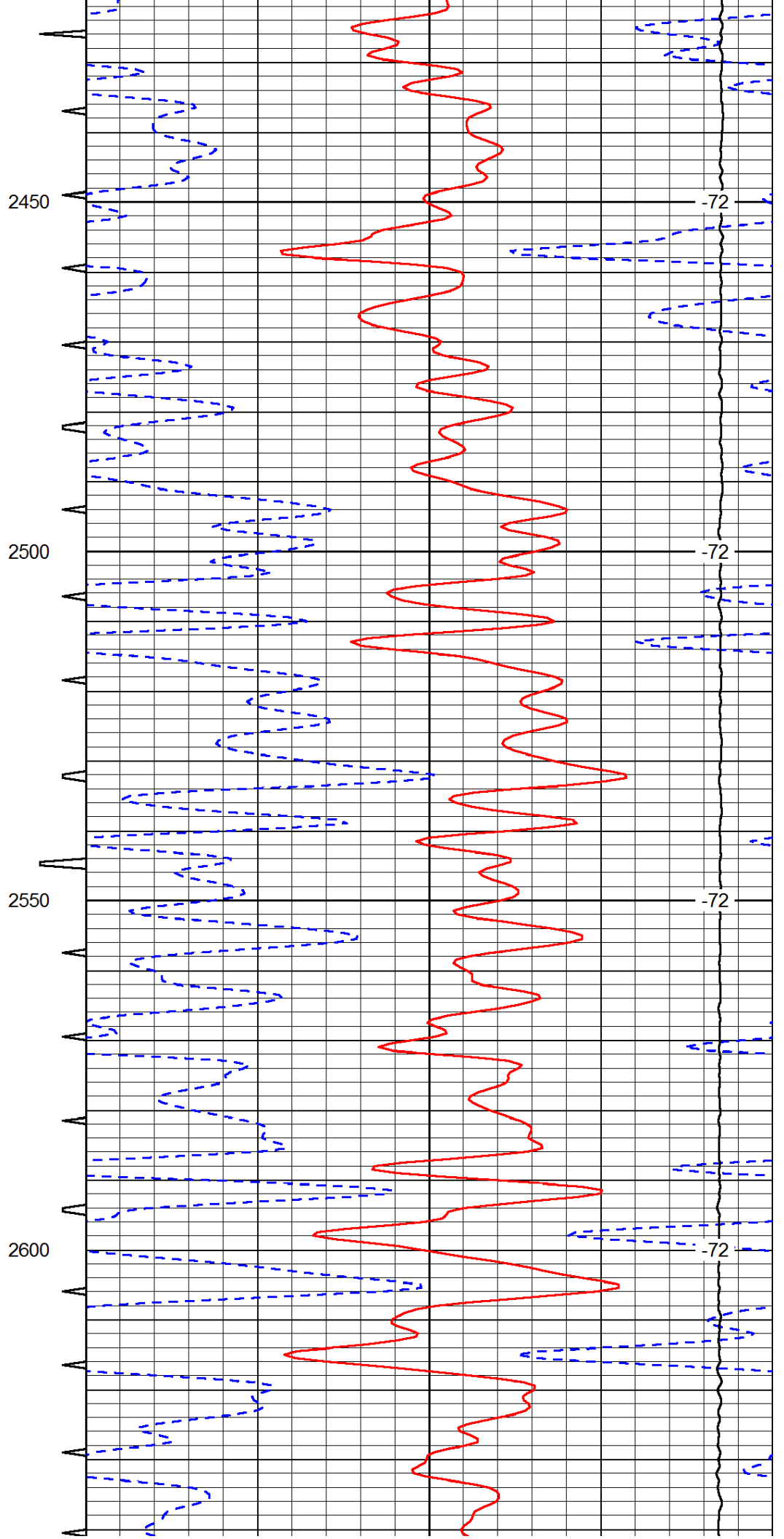
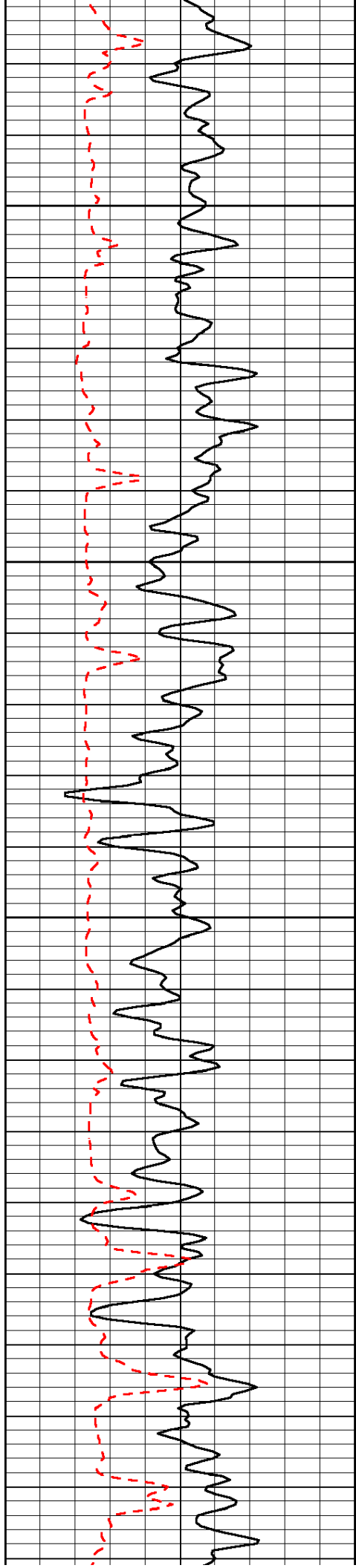


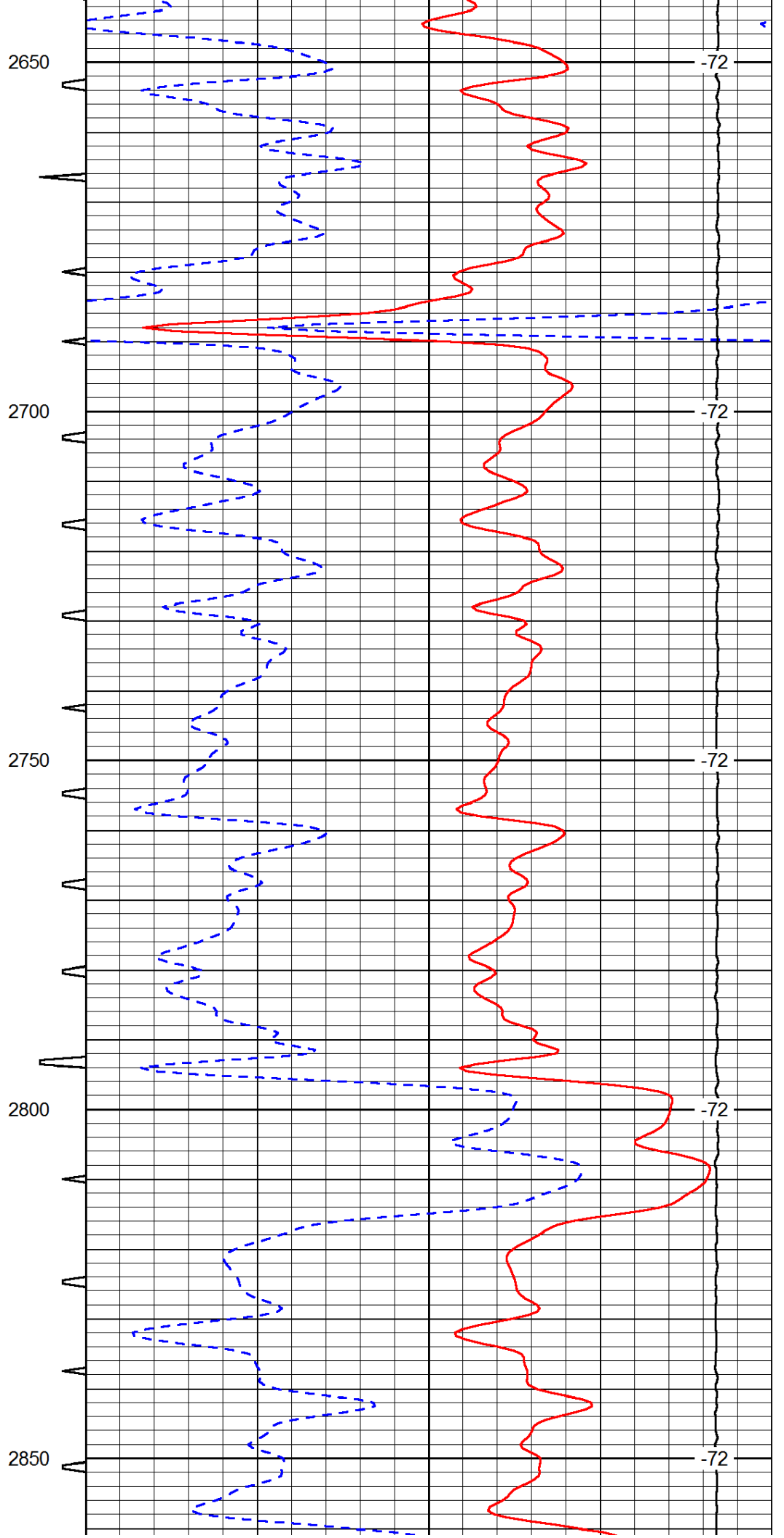
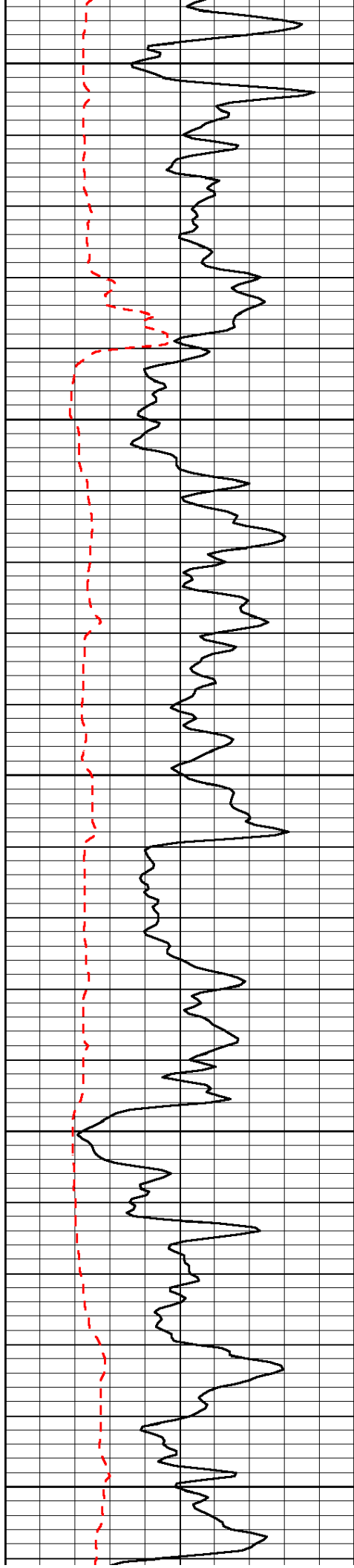


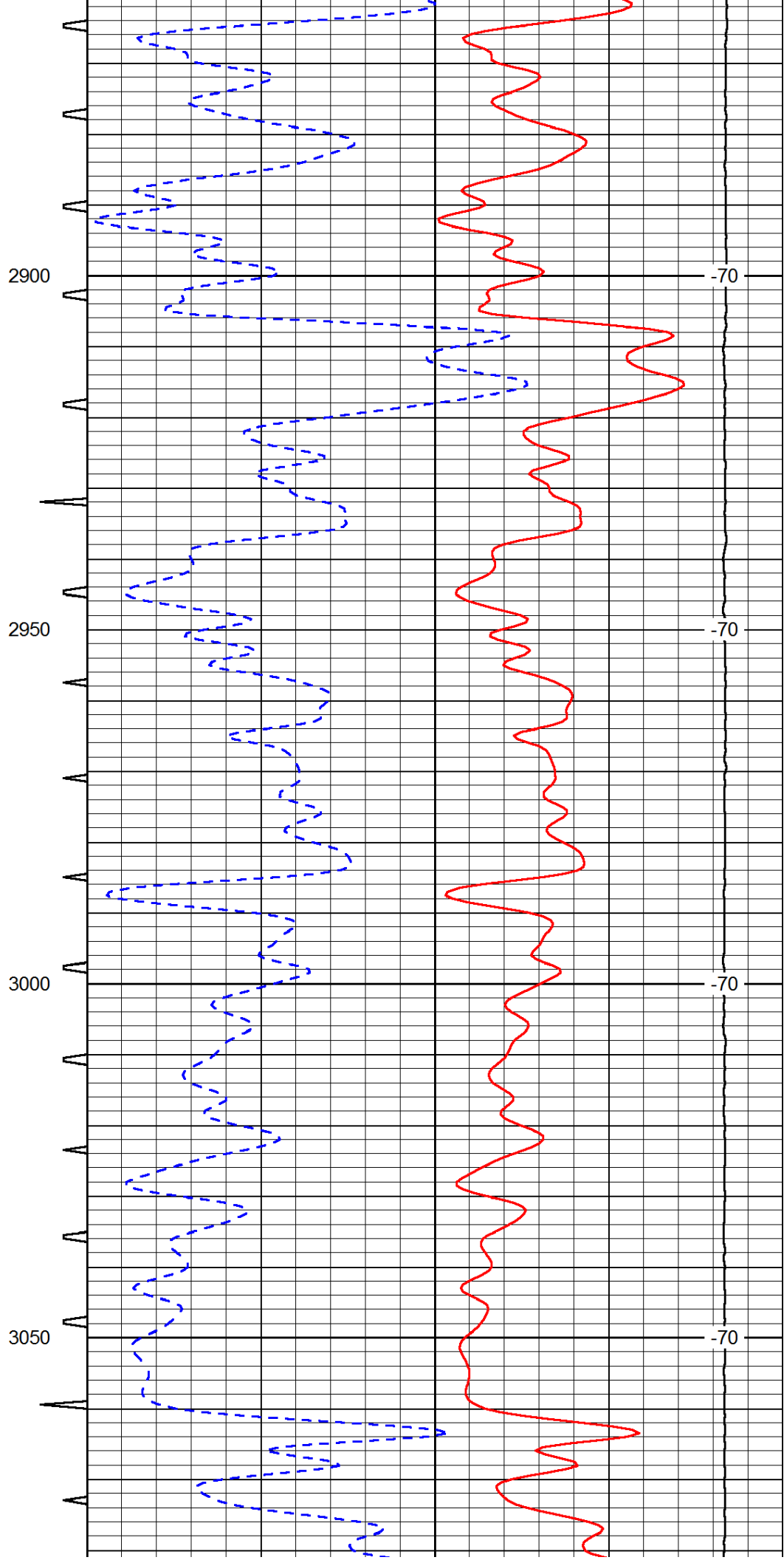
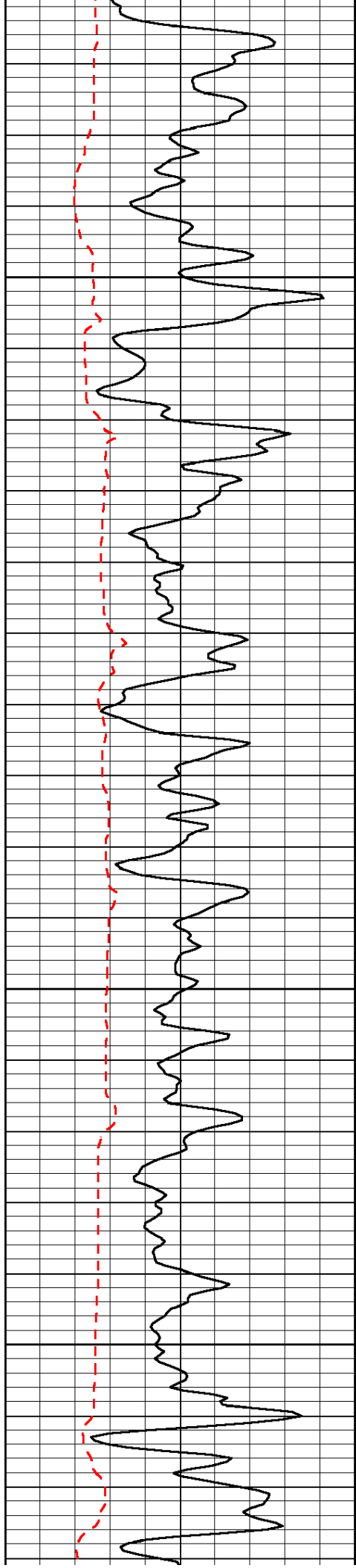


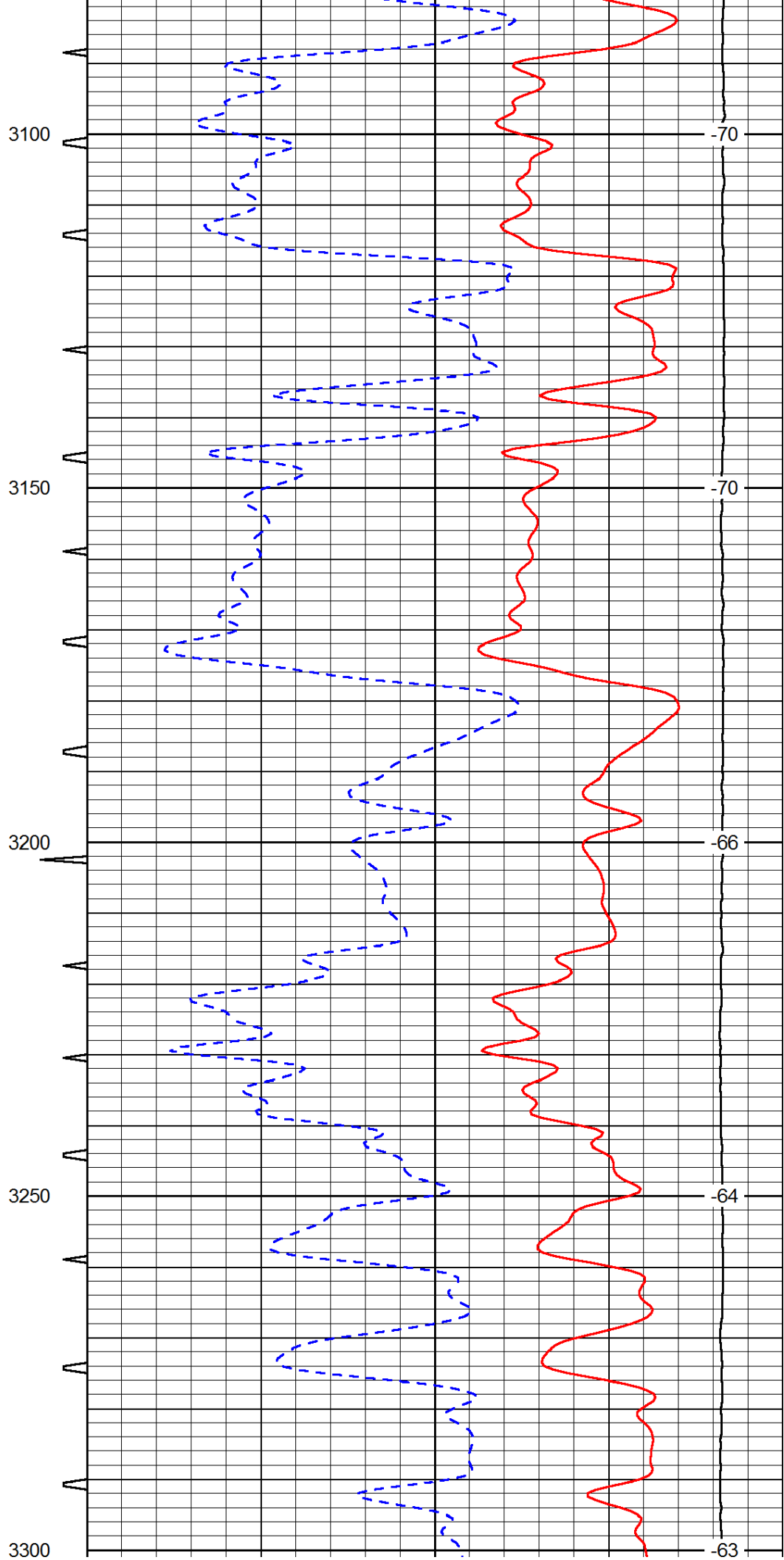
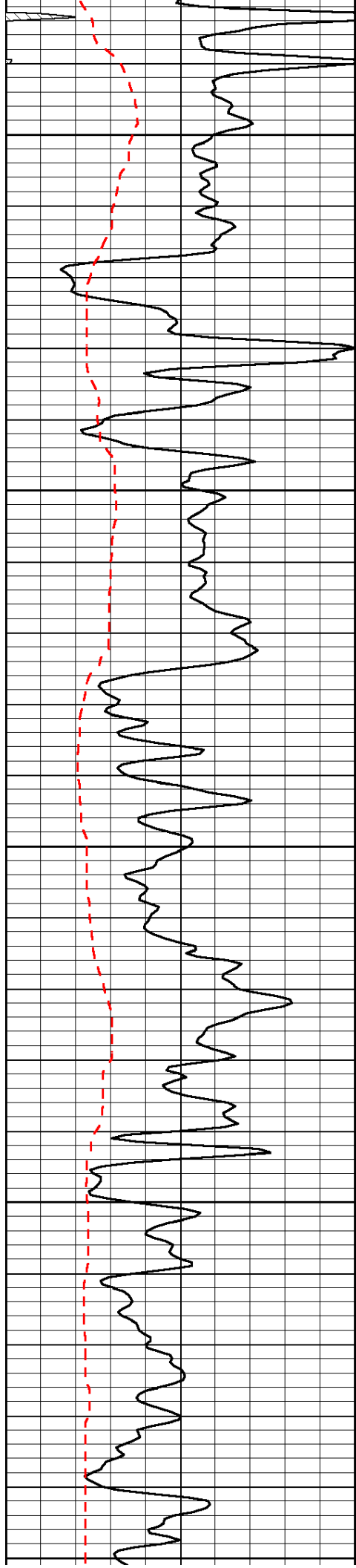


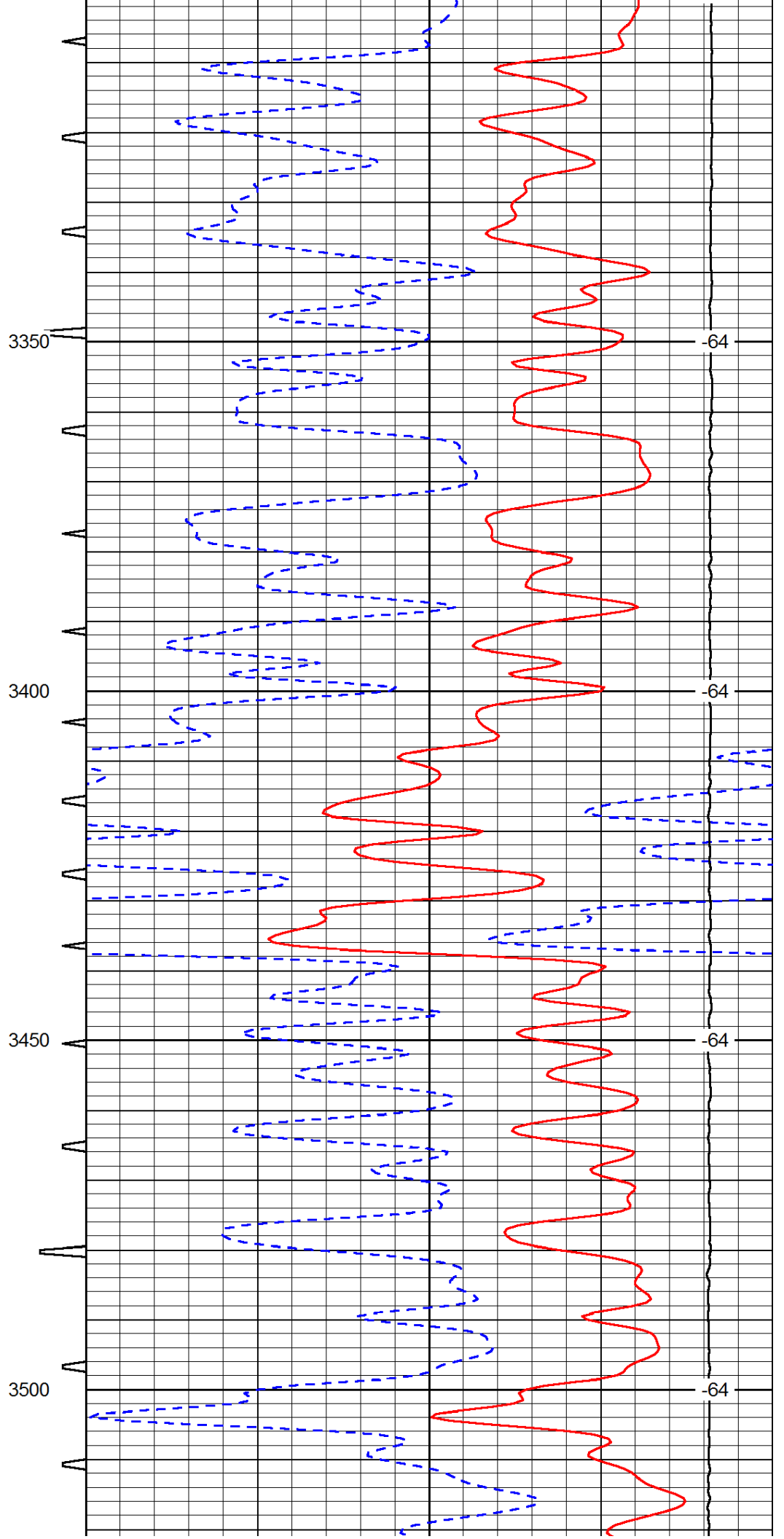
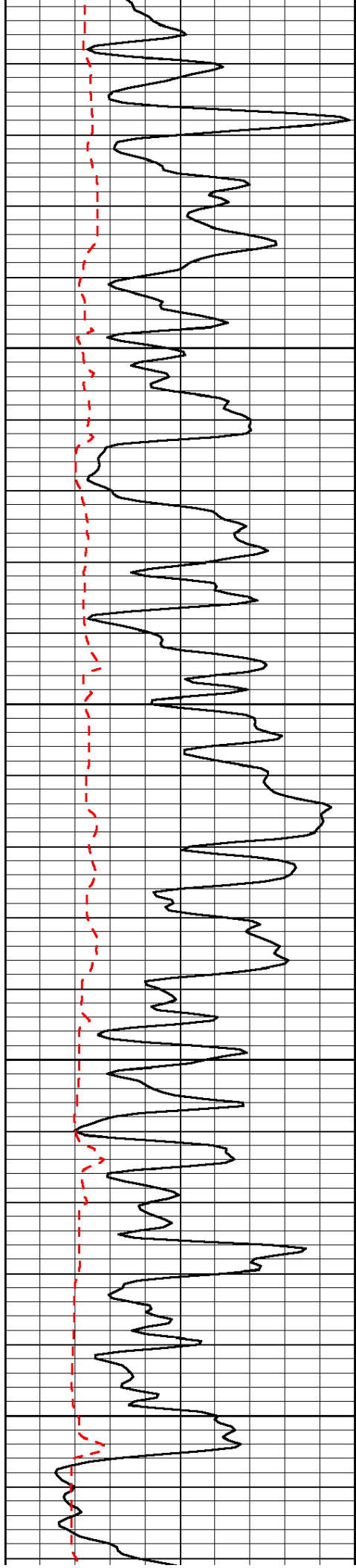


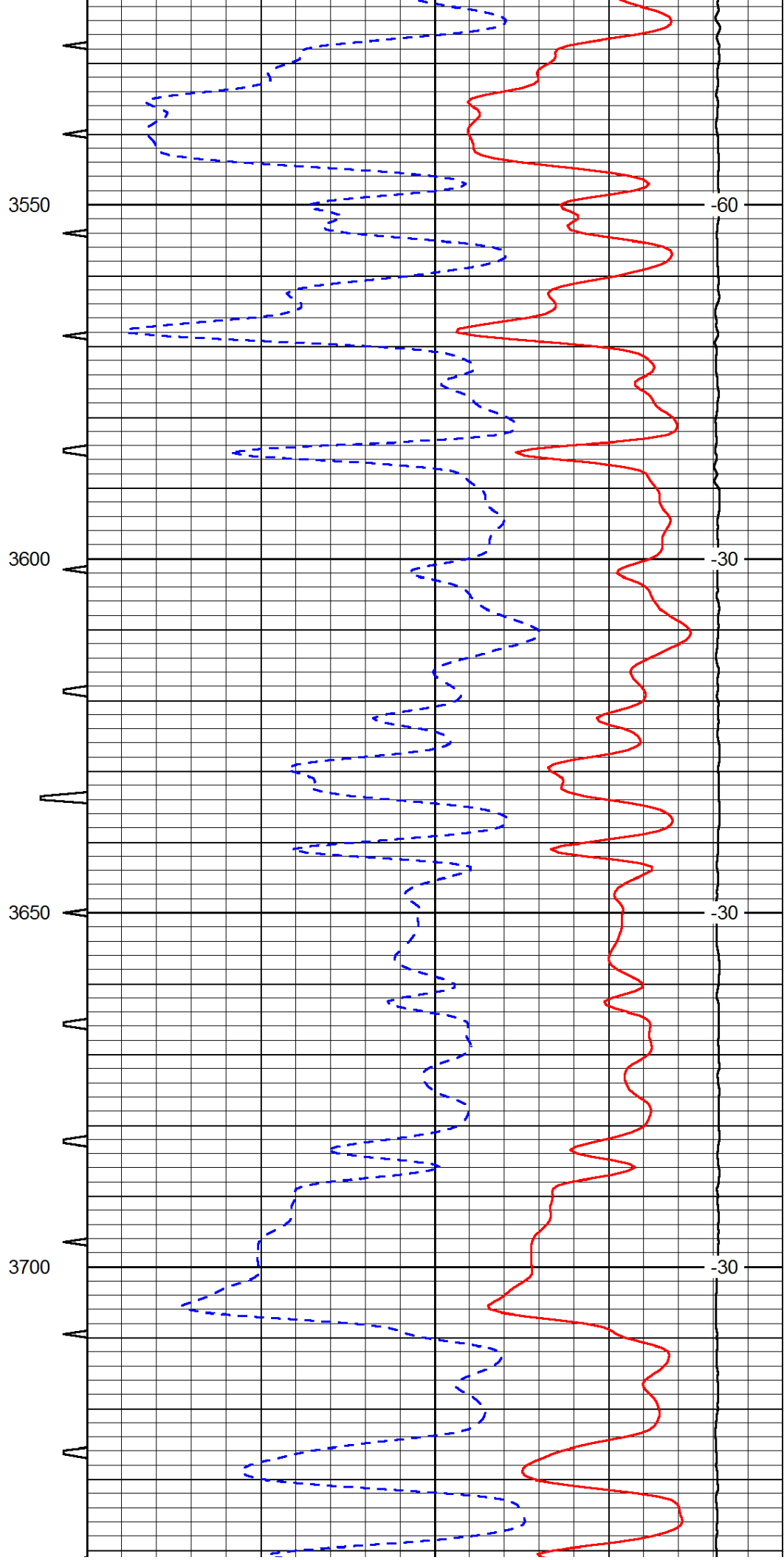
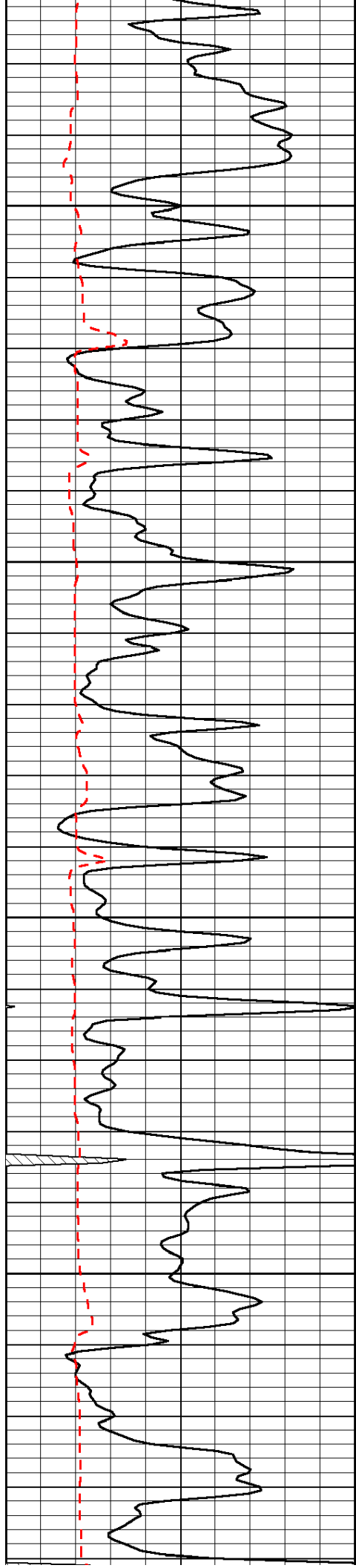


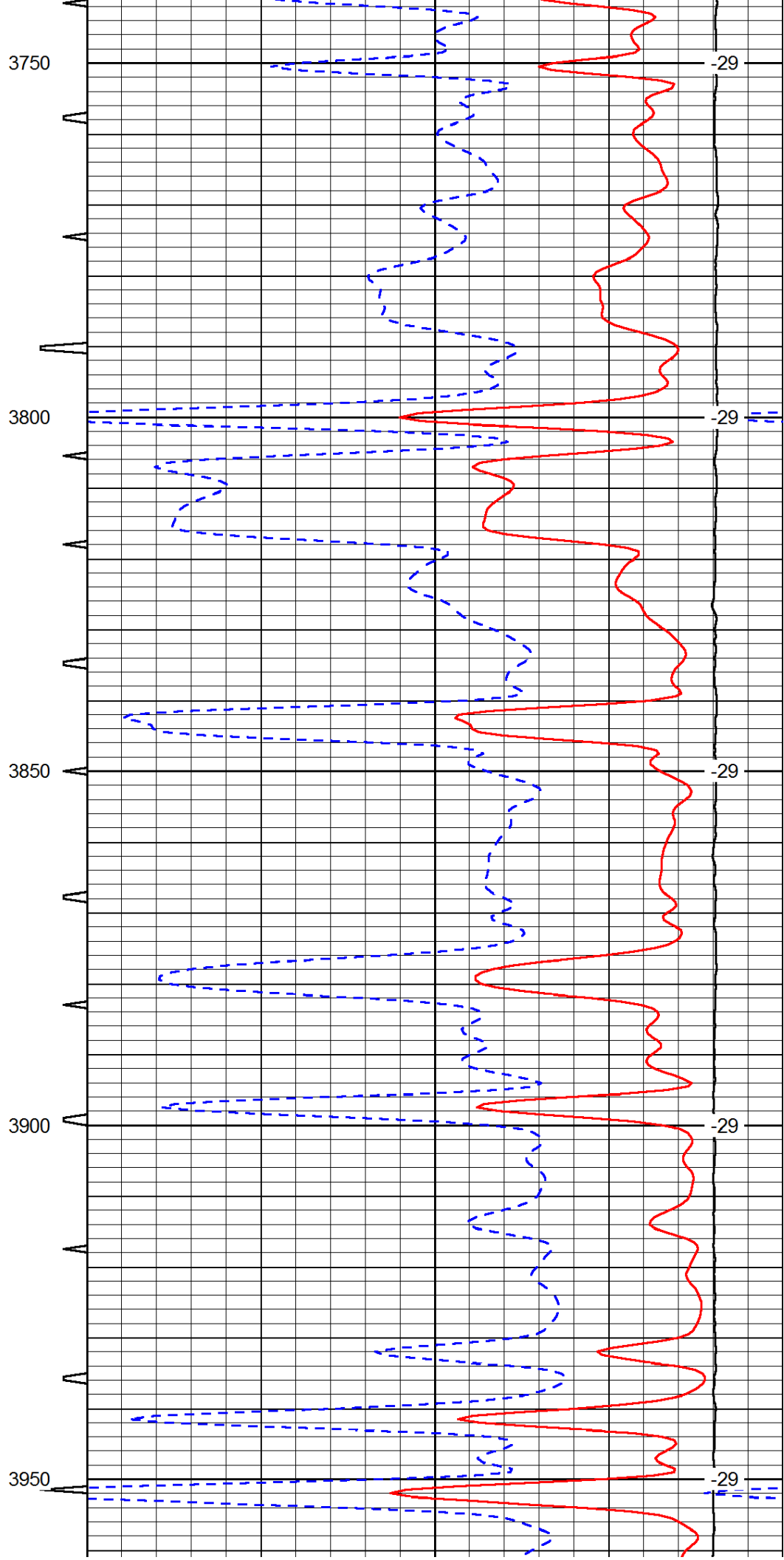
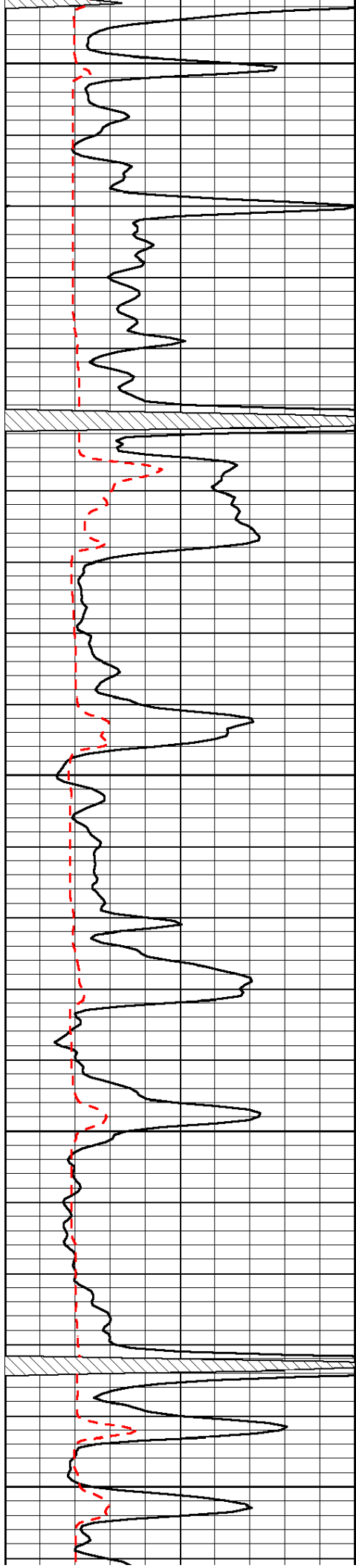


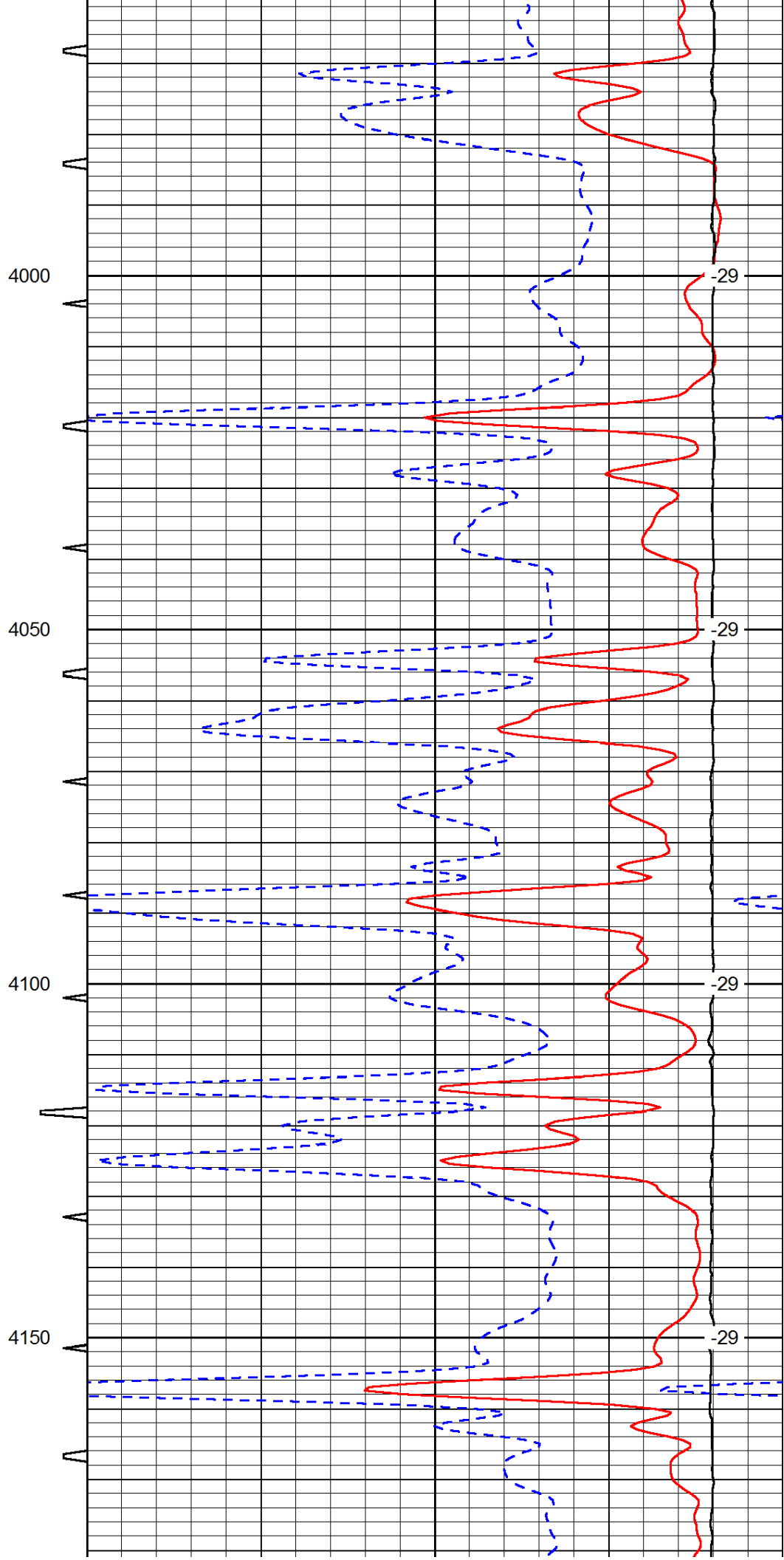
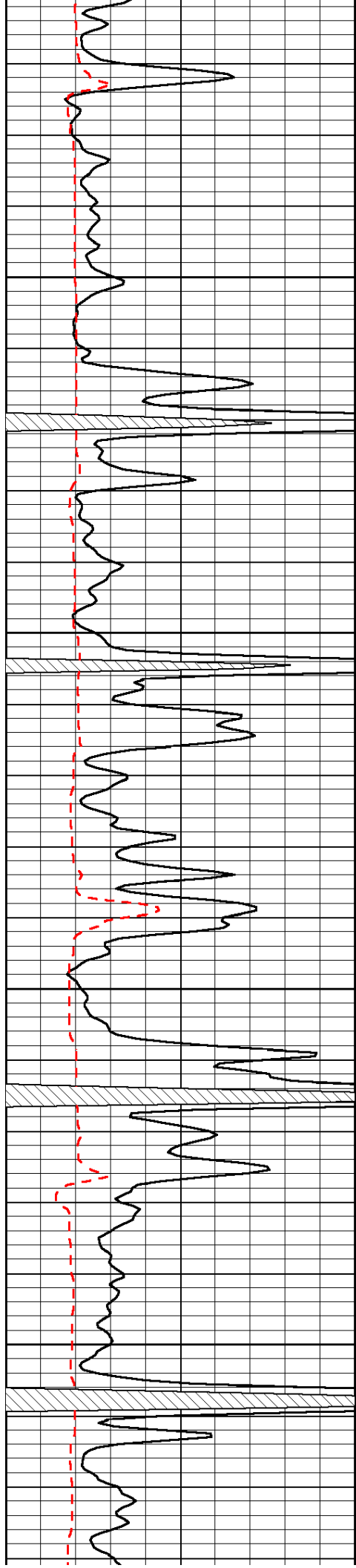


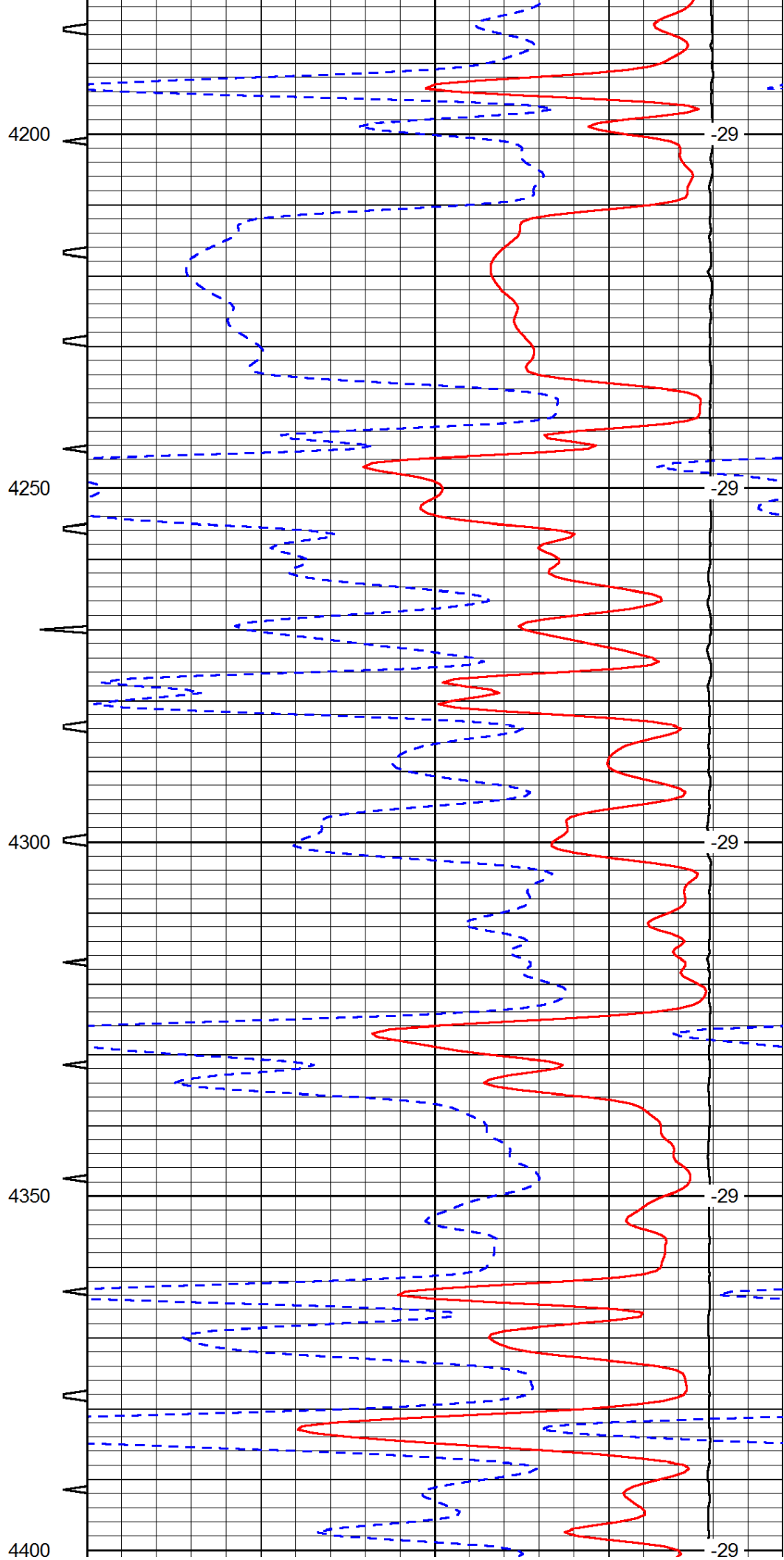
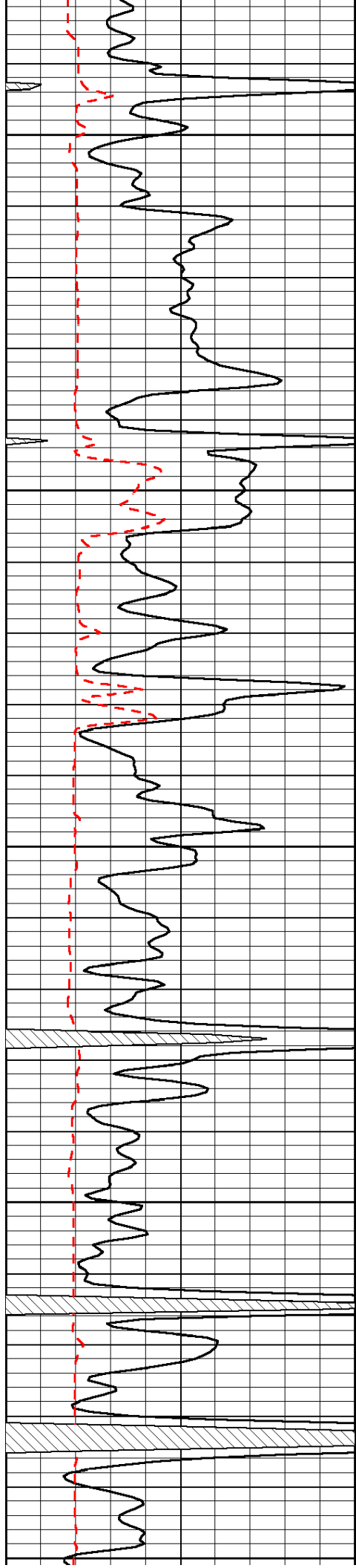


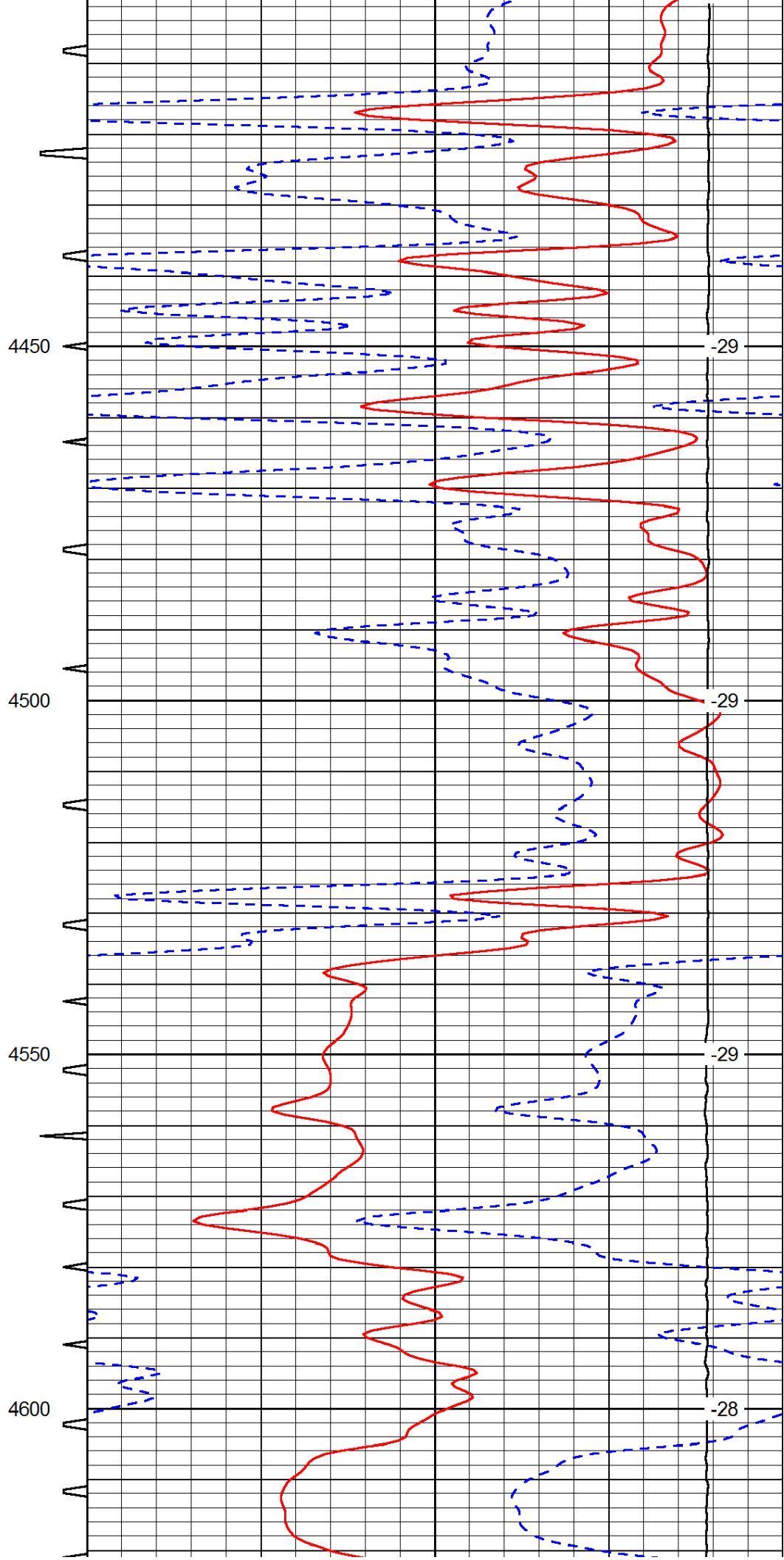
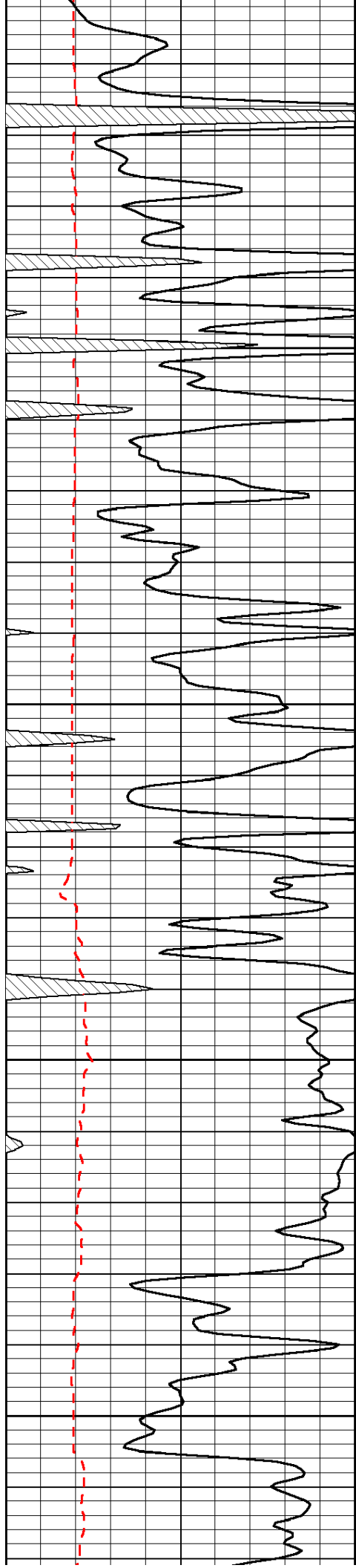


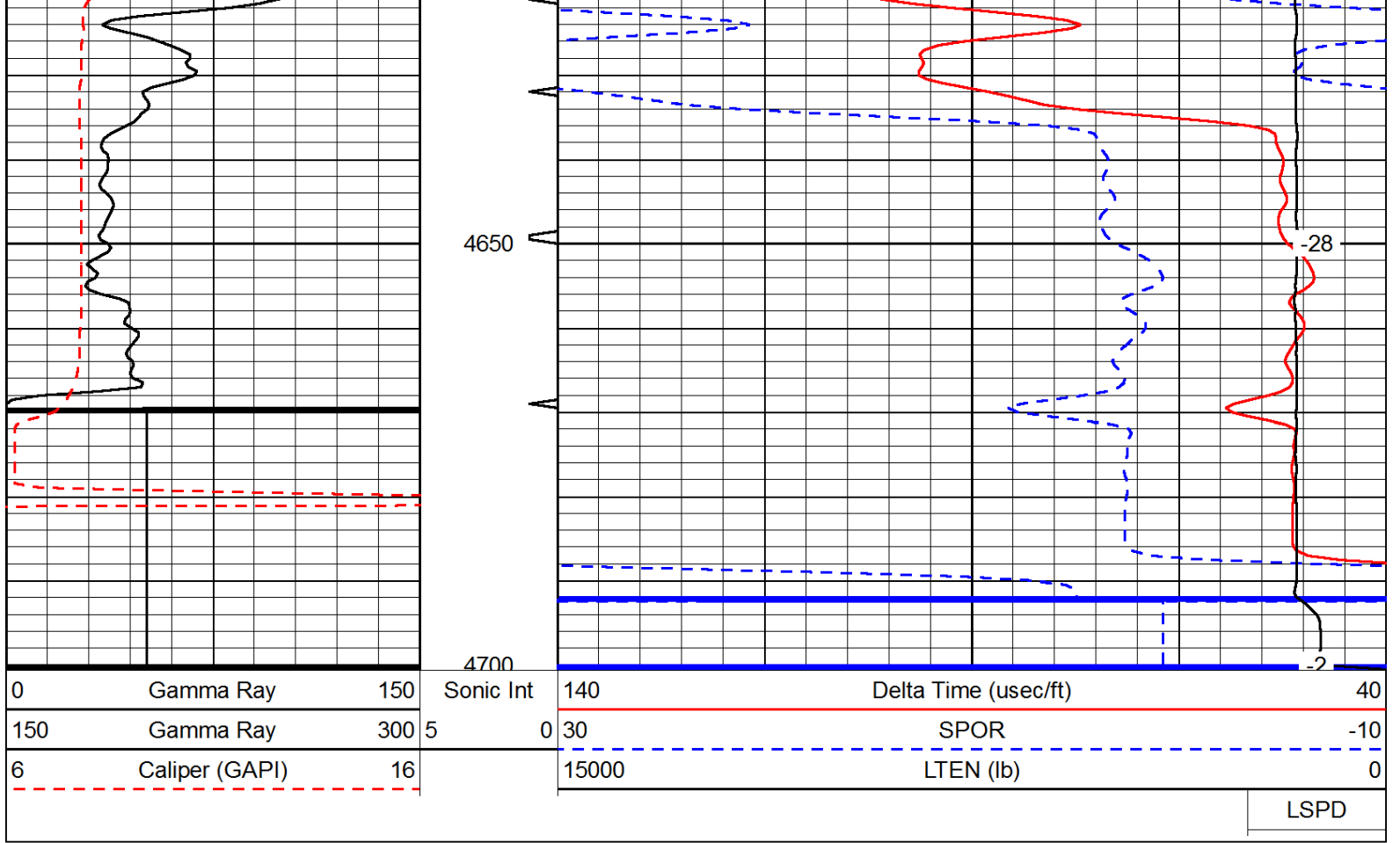














STEVEN P. MURPHY, P.G.

Petroleum Geologist (KS #228)

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: McDaniel #2

Location: Logan County

License Number: API No. 15-109-21096-00-00

Region: Kansas

Spud Date: 5/23/12

Drilling Completed: 6/3/12

Surface Coordinates: 726' FNL & 2890' FWL (Approx. NW SW NW NE)

Section 14 - Township 15 South - Range 34 West

Bottom Hole Coordinates: Same as above (Vertical well w/minimal deviation)

Ground Elevation (ft): 2921'

K.B. Elevation (ft): 2926'

Logged Interval (ft): 3500'

To: TD

Total Depth (ft): 4690' RTD - 4692' LTD

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical/Polymer/Gel (Mudco - Reid Atkins, Mud Engineer)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Norton Oil & Investments, LLC

Address: 1209 W. Park Grove Dr

Manhattan, KS 66503-2469

GEOLOGIST

Name: Steven P. Murphy, PG

Company: Consulting Petroleum Geologist

Address: 3365 County Rd 390

Otis, KS 67565

Cell: 620-639-3030

REMARKS

Log-Tech, Inc. performed the open-hole wireline logging with a stacked Dual Compensated Porosity Log & Dual Induction Log. The final run included a Microresistivity Log & Borehole Compensated Sonic Log. The following are log tops of formations with associated datums (in parentheses) referenced to sea level.

Heebner - 3798 (-872)
Toronto - 3818 (-892)
Lansing - 3846 (-920)
Muncie Creek - 4019 (-1093)
Stark - 4108 (-1233)
Hushpuckney - 4147 (-1182)
Base KC - 4185 (-1259)
Altamont - 4256 (-1330)
Pawnee - 4330 (-104)
Myrick Station - 4366 (-1440)
Fort Scott - 4386 (-1455)
Cherokee - 4416 (-1490)
Johnson Zone - 4451 (-1525)
Morrow Shale - 4516 (-1590)
Mississippian - 4636 (-1710)

DSTs

Drillstem testing was performed by Jim Svaty w/Trilobite Testing. The results are as follows:

DST #1 4070-4100 (LKC "J" Zone

30:30:30:30

IF: BOB in 2 min, no return

FF: BOB in 2-1/2 min, no return

**Recovery: 403' WCM, 310' MCW,
1302' SW**

IHP: 2001 FHP: 1894

IFP: 144-646 ISIP: 1239

FFP: 681-943 FSIP: 1230

BHT - 118 F

Chlorides - 13,000 ppm

DST #2 4250-4305 (Altamont)

Misrun - Packer Failure

DST #3 4266-4305 (Alt B)

30:30:30:45

IF: Built to 1/4", no return

FF: No blow, no return

Recovery: 2' Mud

IHP: 2161 FHP: 1972

IFP: 21-22 ISIP: 234

FFP: 21-30 FSIP: 525

BHT - 114 F

DST #4 4386-4420 (FT SCOTT)

15:30

IF: Wk surf blow died in 15 min, no return

Recovery: None

IHP: 2189 FHP: 2026

IFP: 21-21 ISIP: 28

BHT - 108 F

COMMENTS

LD Drilling - Rig #1 (Toolpusher Rick Wilson) moved onto location on 5/23/2012.

Board - 4119.32

Strap - 4117.93

The strap was 1.39' short to the board. No corrections were made to the geograph and/or the geologist's report. Subsequent logging indicated a difference of 2' long to the RTD of 4690'

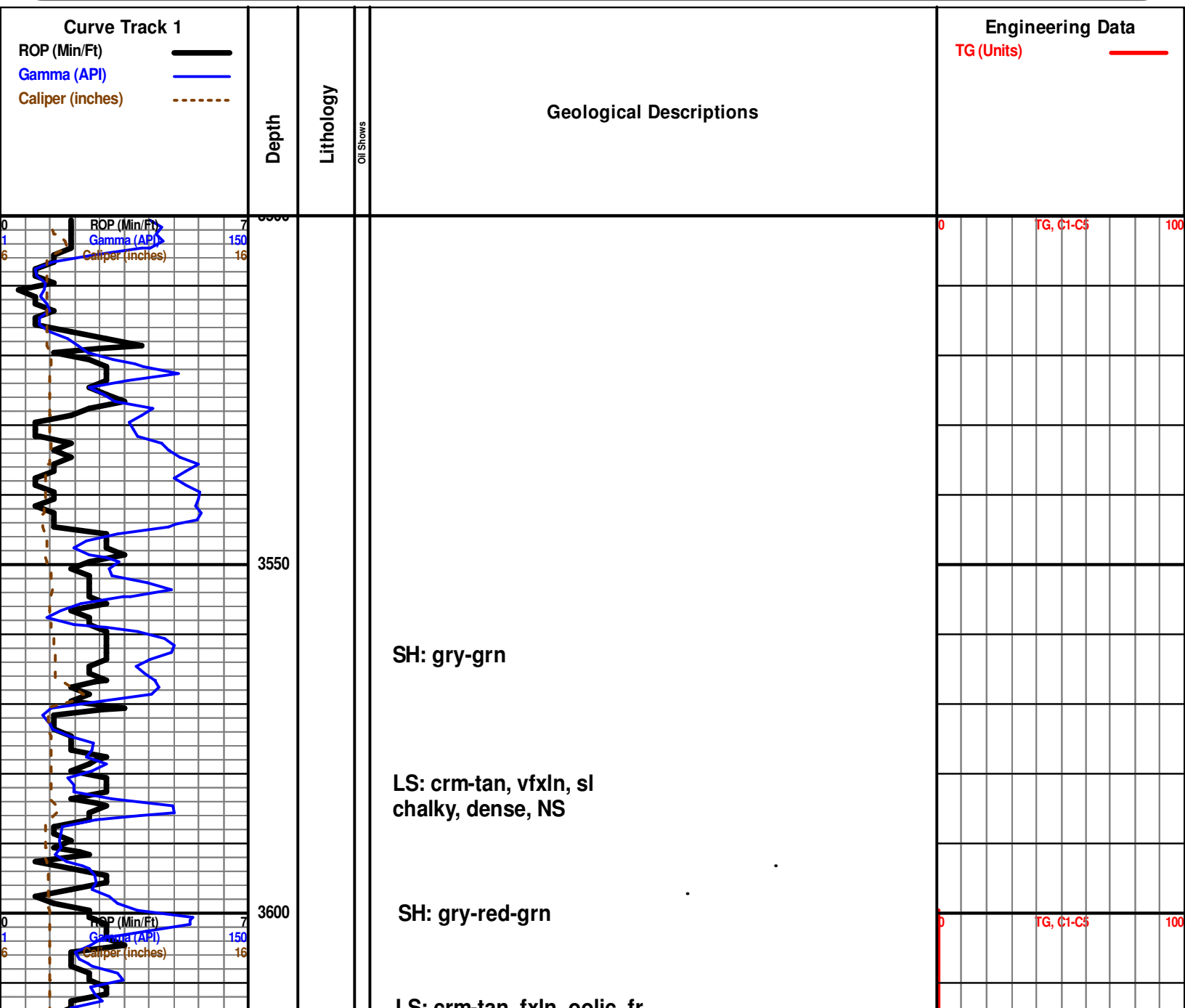
Based on the results of DST # , and sample & log analysis, it was recommended that this well be plugged at a RTD of 4690'.

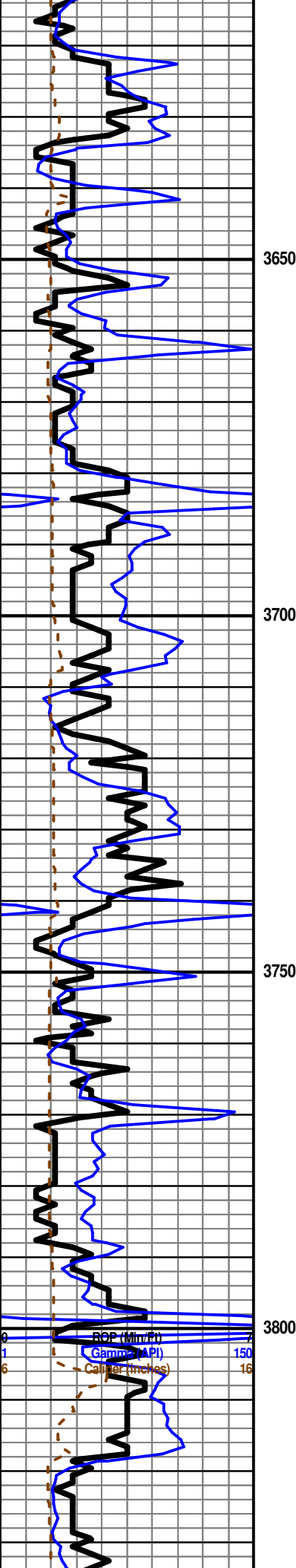
Well samples were collected and forwarded to the Kansas Geological Survey Well Sample Library in Wichita, KS.

Respectfully submitted,

Steven P. Murphy, PG

Kansas License #228





LS: crm-tan, fxl, oolic, fr oomold por, chalky, NS

SH: gry-grn

LS: crm-tan-gry, fxl, sl foss, chalky, dense, NS

LS: crm-tan, vfxln, chalky, dense, NS

SH: gry-blk-grn

LS: crm-tan-gry, vfxln, sl chalky, dense, NS

SH: gry-grn-rust

SH: blk-gry-grn

LS: crm-tan-gry, vfxln, chalky, dense, NS

LS: wht-crm-tan, fxl, oolic, fr oom por, vssfo, v spotty stn, no odor

HEEBNER 3799 (-873)

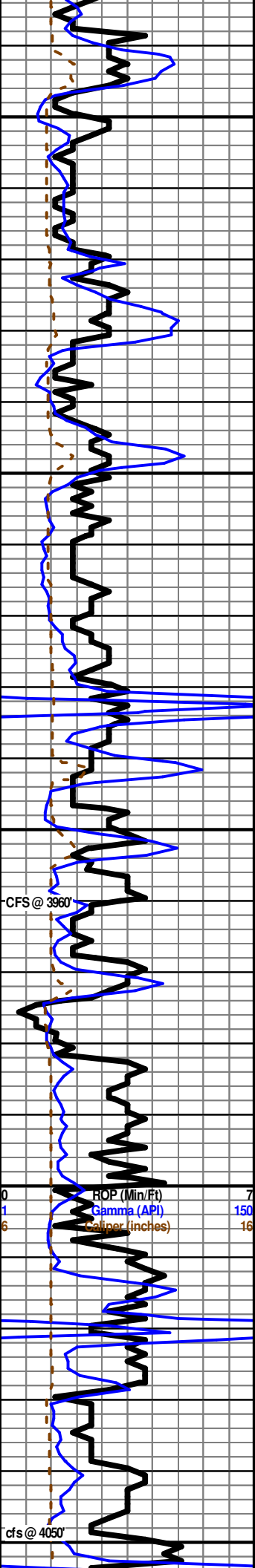
SH: blk, carb

SH: grn-red-blk-gry

TORONTO 3818 (-892)

LS: crm-tan-gry, vxl, sl foss, chalky, dense, NS

0 TG, C1-C5 100



SH: gry-grn-rust, silty

LANSING 3846 (-920)

LS: wht-tan, fxlIn, oolic in pt, mostly dense, sl chalky, NS

LS: crm-gry, vxlIn, oolitic, dense, sl chalky, NS

SH: grn-rust-gry

LS: crm-tan-gry, vfxIn, dense, sl foss, chalky, NS

SH: rust-grn-gry

LS: wht-brn-gry, vfxIn, chalky, dense, NS

LS: as above

LS: crm-tan-gry, vfxIn, dense, chalky, NS

SH: gry-grn-rust

LS: crm-tan-gry, mottled in pt, oolic in pt, fr ppt por, SH: gry-grn-brn

LS: wht-gry, vfxIn, oolitic, chalky, dense, NS

SH: dk gry-grn

LS: crm-tan-gry, vfxIn, oolitic & lithog, chalky, dense, cherty, NS

SH: gry-rust-grn-brn

LS: crm-tan, fxlIn, oolic, fr-gd inter-ool por, chalky, cherty, NS

LS: wht-tan-gry, f-vfxIn, oolic in pt, mostly lithog & v. dense, chalky, pr inxIn por, minor chert, NS

LS: crm-gry, vfxIn, microxIn, sl chalky, minor chert, dense, NS

LS: as above

MUNCIE CRK 4019 (-1093)

SH: blk, carb

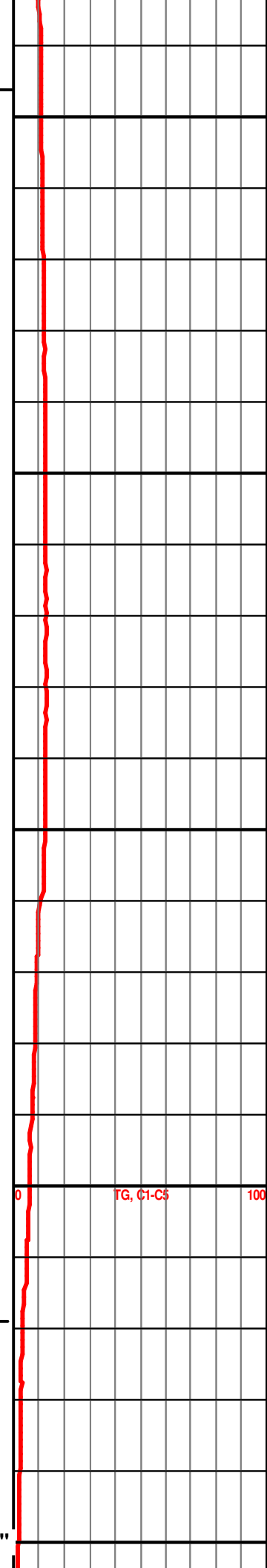
SH: gry-brn-blk

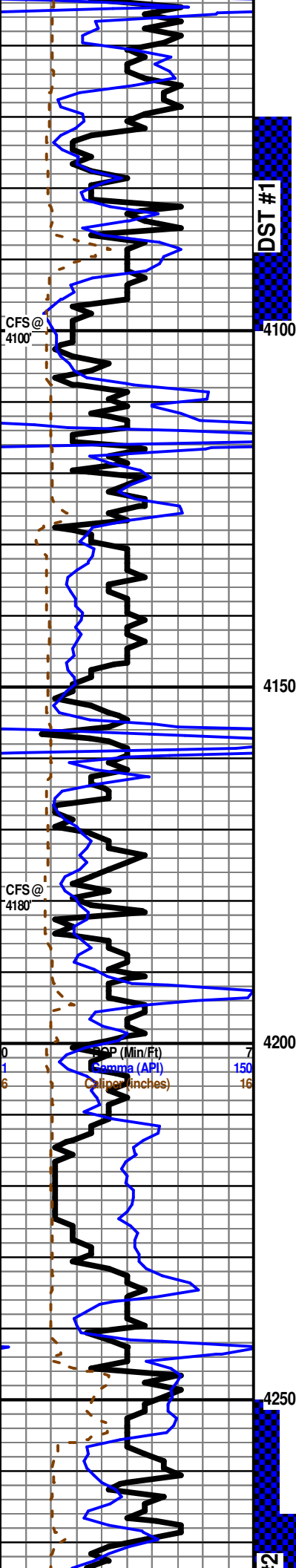
LS: tan-brn-gry, vfxIn, microxIn, cherty, abund pyr, v. dense, NS

LS: as above w/incr in chert & chalk

SH: brn-blk-grn-rust

DST #1 4070-4100 (LKC "J" Zone)





LS: crm-brn-gry, vfxln, microxln, dense, NS

LS: wht-tan, fxl, oolic, fr-gd vug & ppt por, fsfo (hvy-blk), fr sat stn, fr odor

LS: crm-tan-gry, vfxln, dense, NS

LS: crm-tan-brn, vfxln, sl foss, chalky, dense, NS

STARK 4105 (-1179)

SH: blk, carb

LS: crm-tan-gry, vfxln, sl chalky, pelletal, mottled, sl oolic, dense, NS (w/gry-blk-grn shales)

LS: crm-gry, micro-xln, chalky, v dense, NS

HUSHPUCKNEY 4148 (-1222)

SH: blk, carb

LS: crm-tan-gry, vfxln, mottled in pt, chalky, v dense, NS

LS: as above

BKC 4182 (-1256)

SH: blk-gry-brn-grn

LS: crm-brn-gry, mic-xln, v. dense, cherty, NS

LS: as above (1 pc in tray had fr inxln por, sfo (hvy-blk), no stn, no odor)
 LS: crm-tan-gry, f-vfxln, mostly dense, oolic in pt, minor gry siltstone, vssfo in oolic, spotty stn, no odor, mostly barren)

MARMATON 4232 (-1306)

LS: crm-tan, vfxln, sl foss, sl chalky, dense, NS

SH: grn-rust-gry-blk

ALTAMONT 4250 (1324)

LS: crm-tan, micro-xln, v. dense, sl chalky, NS

DST #2 4250-4305 (Altamont)

Misrun - Packer Failure

SH: gry-blk-red-grn-brn

ALTAMONT B 4270 (-1344)

LS: crm-tan, fxl, oolic, ad

DST #3 4266-4305 (Alt B)

Zone)

30:30:30:30

IF: BOB in 2 min, no return

FF: BOB in 2-1/2 min, no return

Recovery: 403' WCM, 310' MCW, 1302' SW

IHP: 2001 FHP: 1894

IFP: 144-646 ISIP: 1239

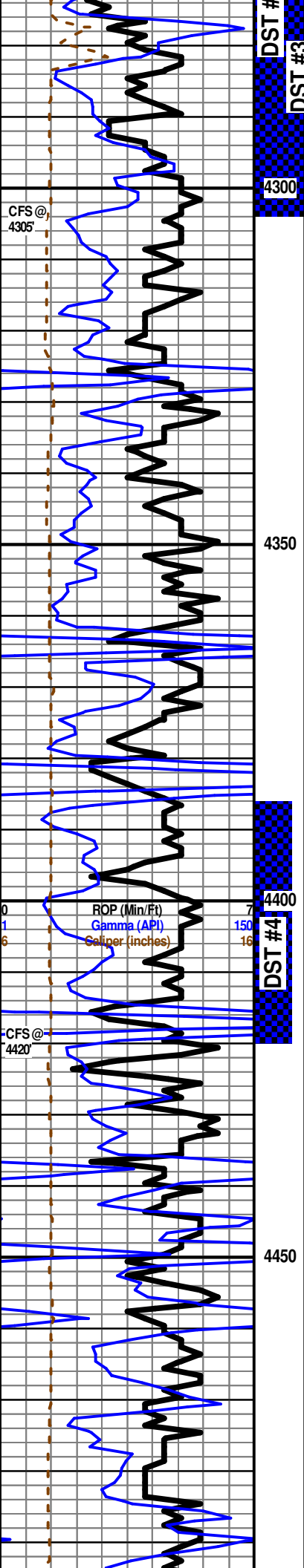
FFP: 681-943 FSIP: 1230

BHT - 118 F

Chlorides - 13,000 ppm

TG, C1-C5

100



LS: crm-tan, blk, ssfo, g
 vug por, fsfo, spotty sat
 stn, gd odor
 30:30:30:45
 IF: Built to 1/4", no return
 FF: No blow, no return
 Recovery: 2' Mud
 IHP: 2161 FHP: 1972
 IFP: 21-22 ISIP: 234
 FFP: 21-30 FSIP: 525
 BHT - 114 F

LS: crm-tan-gry, fxlN, foss,
 sl oolic, chalky, dense, NS

SH: blk, carbonaceous
 PAWNEE 4327 (-1401)

LS: crm-brn-gry, vfxln, sl
 chalky, dense, NS

SH: gry-grn-blk

LS: tan-gry, vfxln, sl foss, sl
 chalky, pelletal in pt, dense,
 NS

SH: blk, carbonaceous
 MYRICK STATION 4364
 (-1438)

LS: brn-gry, vfxln, sl foss,
 mottled, dense, NS

SH: blk, carbonaceous
 FT SCOTT 4385 (-1454)

LS: crm-brn, vfxln, sl foss,
 dense, NS

LS: crm-brn, fxlN, foss,
 oolitic/oolic, mostly dense,
 rare pr-fr inxln por, ssfo,
 spotty stn, sl odor

LS: crm-brn, vfxln, sl foss,
 dense, NS
 CHEROKEE 4415 (-1489)

SH: blk, carbonaceous
 DST #4 4386-4420 (FT
 SCOTT)
 15:30
 IF: Wk surf blow died in 15
 min, no return
 Recovery: None
 IHP: 2189 FHP: 2026
 IFP: 21-21 ISIP: 28
 BHT - 108 F

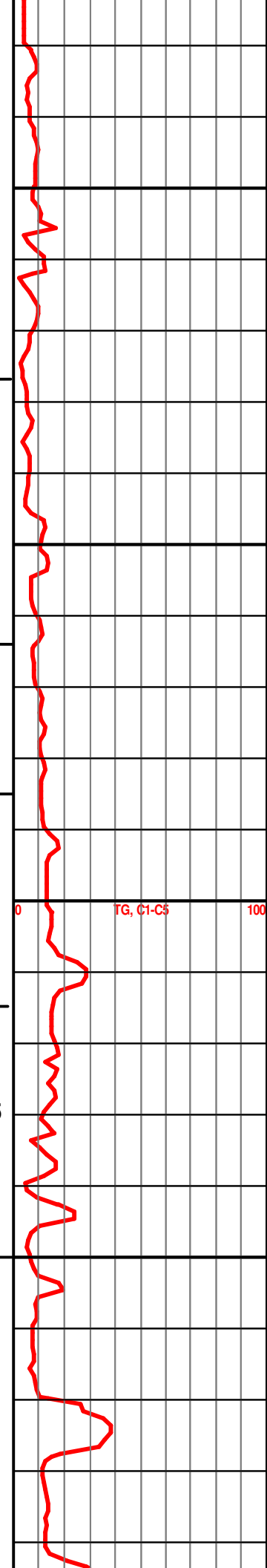
LS & SH: as above

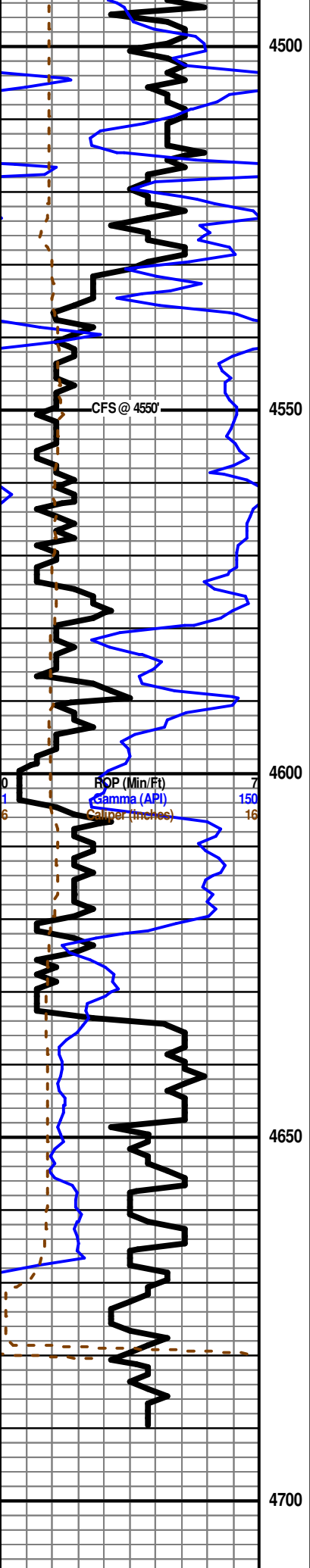
JOHNSON 4450 (-1524)

LS: crm-brn, vfxln, sl foss,
 v. dense, cherty, NS (abund
 blk shale)

LS: crm-tan-brn, vfxln, sl
 foss, sl chalky, v. dense,
 minor chert, w/assoc
 blk-grn sh), NS

LS: crm-brn-gry, vfxln, sl
 foss, oolitic in pt, dense, tr
 edge stn, nsfo, no odor





LS: as above, NS (w/gry-grn sh)

LS: as above w/abund chert, NS

MRW SH 4516 (-1590)

SH: gry-grn-blk

SH: gry-grn-yel-brn-blk

SST: clr, f-mgr, sub-ang, prly std, gd por, NS

SH & SST: as above

SH (mainly blk) & minor amt of SST, NS

SH & minor amt of SST, NS

SST: clr-grn, f-vfg, sub-ang, prly std, dense, mostly non-friable, glauc, abund pyrite, NS

SST: as above w/abund blk shale

SH: blk-gry

SH: as above

MISSISSIPPIAN 4633 (-1707)

LS: crm-tan, vfxln, pelletal, sl chalky, dense, NS

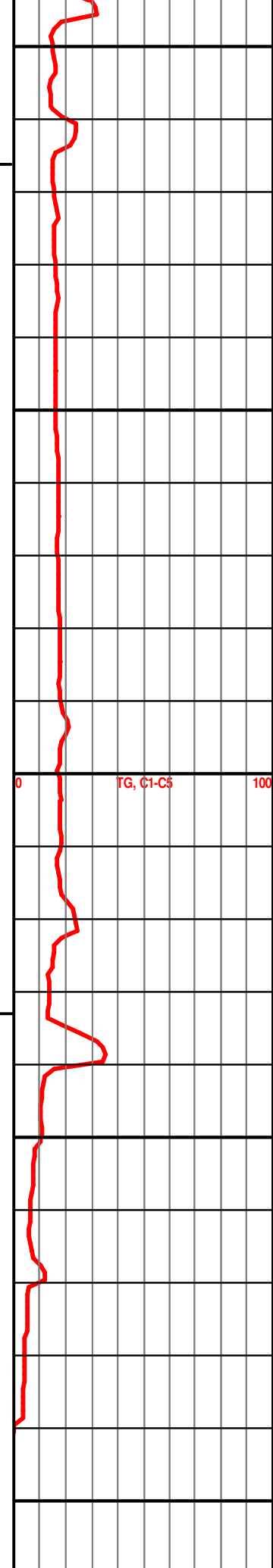
LS: crm-tan, vfxln, dense, NS

LS: as above

LS: as above

RTD - 4690'

LTD - 4692'



TG, C1-C5

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131443
Invoice Date: Jun 3, 2012
Page: 1



Bill To:
K & B Norton Oil Inv. LLC 1209 W Park Grove Dr Manhattan, KS 66503-2469

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
K&B	McDaniel #2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jun 3, 2012	7/3/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
51.25	MAT	FloSeal	2.70	138.38
214.10	SER	Handling	2.10	449.61
35.00	SER	Ton Miles	21.60	756.14
1.00	SER	Plugged to Abandon	1,250.00	1,250.00
35.00	SER	Heavy Vehicle Mileage	7.00	245.00
35.00	SER	Light Vehicle Mileage	4.00	140.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Brandon Wilkinson		

Subtotal	5,915.63
Sales Tax	431.84
Total Invoice Amount	6,347.47
Payment/Credit Applied	
TOTAL	6,347.47

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1183.12

ONLY IF PAID ON OR BEFORE
Jun 28, 2012

ALLIED OIL & GAS SERVICES, LLC 056274

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>6-3-12</u>	SEC. <u>14</u>	TWP. <u>15</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>M^c Daniel</u>	WELL# <u>2</u>	LOCATION <u>Oakley 235 46W 25 SW</u>			COUNTY <u>Lago</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>15 1W NINTO</u>				

CONTRACTOR <u>L D</u>	OWNER <u>same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>2 7/8</u>	T.D. <u>4680</u>
CASING SIZE	DEPTH <u>4680</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2314'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	AMOUNT ORDERED <u>205 sks 6 1/4 496 gal</u>
	<u>1/4" Flo-seal</u>
COMMON <u>123 sks</u>	@ <u>16.25</u> <u>1998.25</u>
POZMIX <u>82 sks</u>	@ <u>8.50</u> <u>692.00</u>
GEL <u>7 sks</u>	@ <u>21.25</u> <u>148.75</u>
CHLORIDE	@
ASC	@
	@
	@
<u>Flo-seal 51.25*</u>	@ <u>2.70</u> <u>138.37</u>
	@
	@
	@
	@
HANDLING <u>214.102 cu/ft</u>	@ <u>2.10</u> <u>449.61</u>
MILEAGE <u>2.35 mile/ton</u>	<u>9.193 ton</u> <u>756.14</u>
	TOTAL <u>4188.62</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Andrew</u>
# <u>428-281</u>	HELPER <u>Jerry</u>
BULK TRUCK	
# <u>342</u>	DRIVER <u>Brandon</u>
BULK TRUCK	
#	DRIVER

REMARKS:

<u>25 sks @ 2314'</u>
<u>100 sks @ 1121'</u>
<u>40 sks @ 340'</u>
<u>10 sks @ 40'</u>
<u>20 sks Ref hole</u>

Thank you

SERVICE

DEPTH OF JOB <u>2314'</u>	
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>35 miles</u>	@ <u>7.00</u> <u>245.00</u>
MANIFOLD	@
<u>light vehicle</u>	@ <u>4.00</u> <u>140.00</u>
	@

CHARGE TO: K + B Norton oil + investments

STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL 1635.00

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	
<u>1 Dry hole plug</u>	@ <u>92.00</u>
	@
	@
	@
	@

TOTAL 92.00

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

SALES TAX (if Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Richard Wilson

SIGNATURE Richard Wilson



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 131270

Invoice Date: May 24, 2012

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:

K & B Norton Oil Inv. LLC
 1209 W Park Grove Dr
 Manhattan, KS 66503-2469

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
K&B	McDaniels #2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 24, 2012	6/23/12

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	16.25	3,006.25
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
200.05	SER	Handling	2.10	420.11
38.00	SER	Ton Miles	21.46	815.31
1.00	SER	Surface	1,125.00	1,125.00
38.00	SER	Heavy Vehicle Mileage	7.00	266.00
1.00	SER	Manifold Head Rental	200.00	200.00
38.00	SER	Light Vehicle Mileage	4.00	152.00
1.00	EQP	Top Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

ALL PRICES ARE NET, PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF

\$ 1297.92

ONLY IF PAID ON OR BEFORE

Jun 18, 2012

Subtotal	6,489.62
Sales Tax	256.32
Total Invoice Amount	6,745.94
Payment/Credit Applied	
TOTAL	6,745.94

ALLIED OIL & GAS SERVICES, LLC 056203

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <u>5-24-12</u>	SEC. # <u>14</u>	TWP. <u>15</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>6:30 PM</u>	JOB START <u>7:00 PM</u>	JOB FINISH <u>9:00 PM</u>
WELL# <u>2</u>		LOCATION <u>Oakley 235 - 4 1/2 W - 2 S - W</u>			COUNTY <u>Linn</u>	STATE <u>Ks.</u>	
LEASE		OLD OR NEW (Circle one) <u>NEW</u>			To 330 Rd 1/2 W Ninto		

CONTRACTOR LD
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 293'
 CASING SIZE 8 5/8 DEPTH 290'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 RES. MAX MINIMUM
 LEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT 17.51

OWNER Same
 CEMENT AMOUNT ORDERED 185 SKS Com 3% CC
2% Gel

EQUIPMENT
 PUMP TRUCK CEMENTER Darren R.
422 HELPER Tyler
 BULK TRUCK
404 DRIVER Brandon
 BULK TRUCK
 DRIVER

COMMON	<u>185 SKS</u>	@ <u>\$16.25</u>	# <u>3006.25</u>
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>\$21.25</u>	# <u>63.75</u>
CHLORIDE	<u>6 SKS</u>	@ <u>\$58.30</u>	# <u>349.80</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>200.05</u>	@ <u>\$2.10</u>	# <u>420.10</u>
MILEAGE	<u>2.13 - 38</u>	@ <u>\$2.35</u>	# <u>815.55</u>
			TOTAL <u>\$4654.61</u>

REMARKS:
Mix 185 SKS Cement
Displace with water
200 lbs Cement Did Circulate

CHARGE TO: K+B Norton Oil Investments
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>290'</u>		
PUMP TRUCK CHARGE			<u>\$1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>38</u>	@ <u>\$7.00</u>	# <u>266.00</u>
MANIFOLD	<u>Head</u>	@	<u>\$200.00</u>
LV Mileage		@ <u>\$4.00</u>	# <u>158.00</u>
		@	<u>433.00</u>
			TOTAL <u>\$1749.00</u>

PLUG & FLOAT EQUIPMENT

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

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

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Richard Wilson
 SIGNATURE [Signature]

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

June 25, 2012

Ken Norton
K & B Norton Oil & Investments, LLC
1209 W. Park Grove Dr.
MANHATTAN, KS 66503

Re: ACO1
API 15-109-21096-00-00
McDaniel 2
NE/4 Sec.14-15S-34W
Logan 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,
Ken Norton