



1100214

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
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Thomason Petroleum, Inc
Well Name	Bollig 1
Doc ID	1100214

Tops

Name	Top	Datum
Anhydrite	2182	+351
Topeka	3583	-1050
Heebner	3796	-1263
Toronto	3819	-1286
L/KC	3834	-1301
BKC	4064	-1531
Pawnee	4175	-1642
Cherokee Shale	4270	-1737
RTD	4340	-1807



Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-065-23849-00-00

Company **Thomason Petroleum, Inc.**
 Well **Bolling #1**
 Field **Ambrose**
 County **Graham** State **Kansas**

Location **1940' FNL & 1480' FEL**

Sec: **21** Twp: **10S** Rge: **25W**

Other Services
DIL
MEL/BHCS

Permanent Datum **Ground Level** Elevation **2507**
 Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

K.B. 2515
 D.F. G.L. 2507

Date **10/13/2012**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4340**

Depth Logger **4342**

Bottom Logged Interval **4321**

Top Logged Interval **3000**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **3500**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **121**

Operating Rig Time **5 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Jeff Lawler**

Borehole Record		Casing Record				
Run No	Bit From	To	Size	Wgt.	From	To
One	12.25	00	223	8.625	23#	00
Two	7.875	223	TD			2.23

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Comments

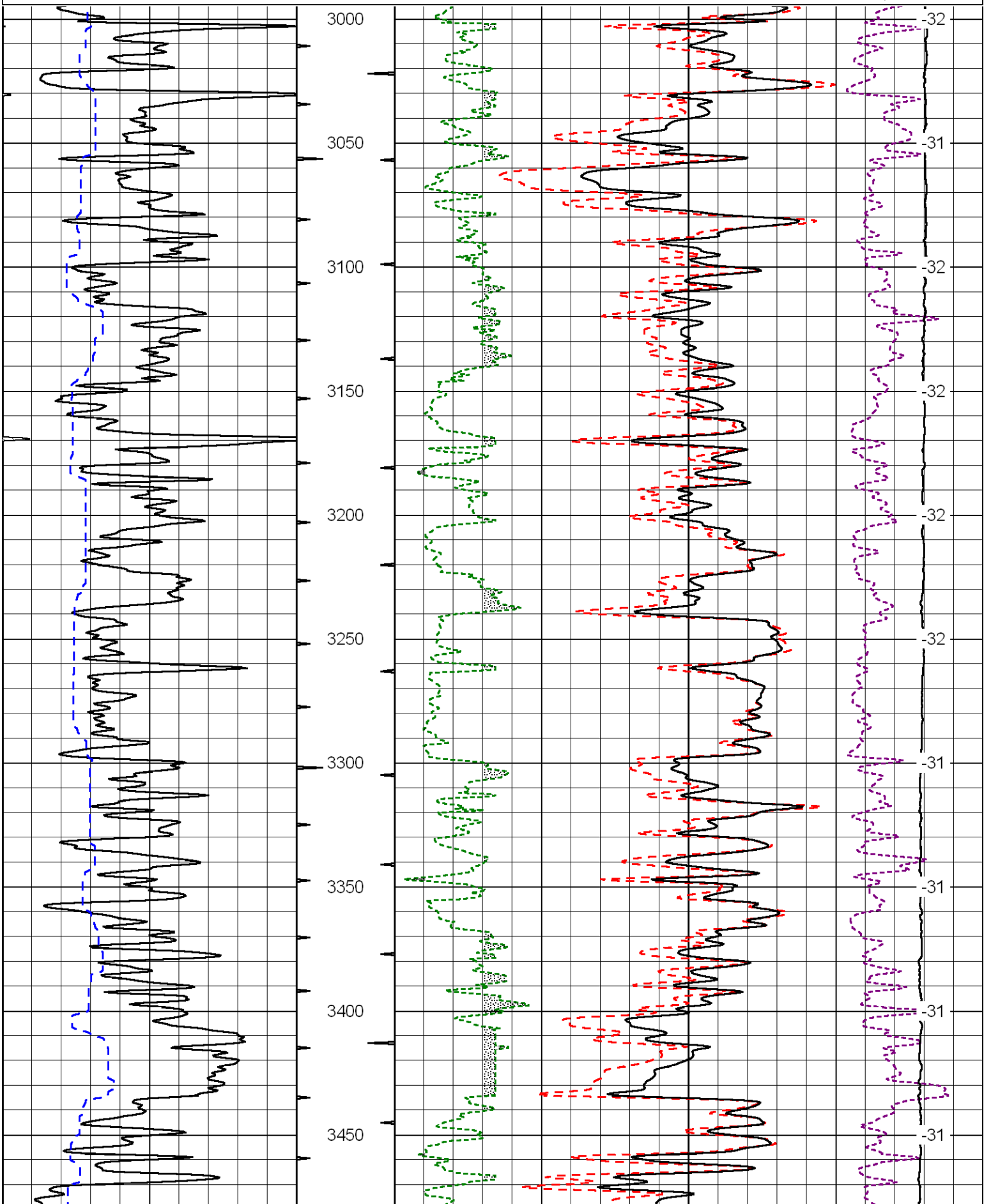
Thank you for using Log-Tech, Inc.
 (785) 625-3858

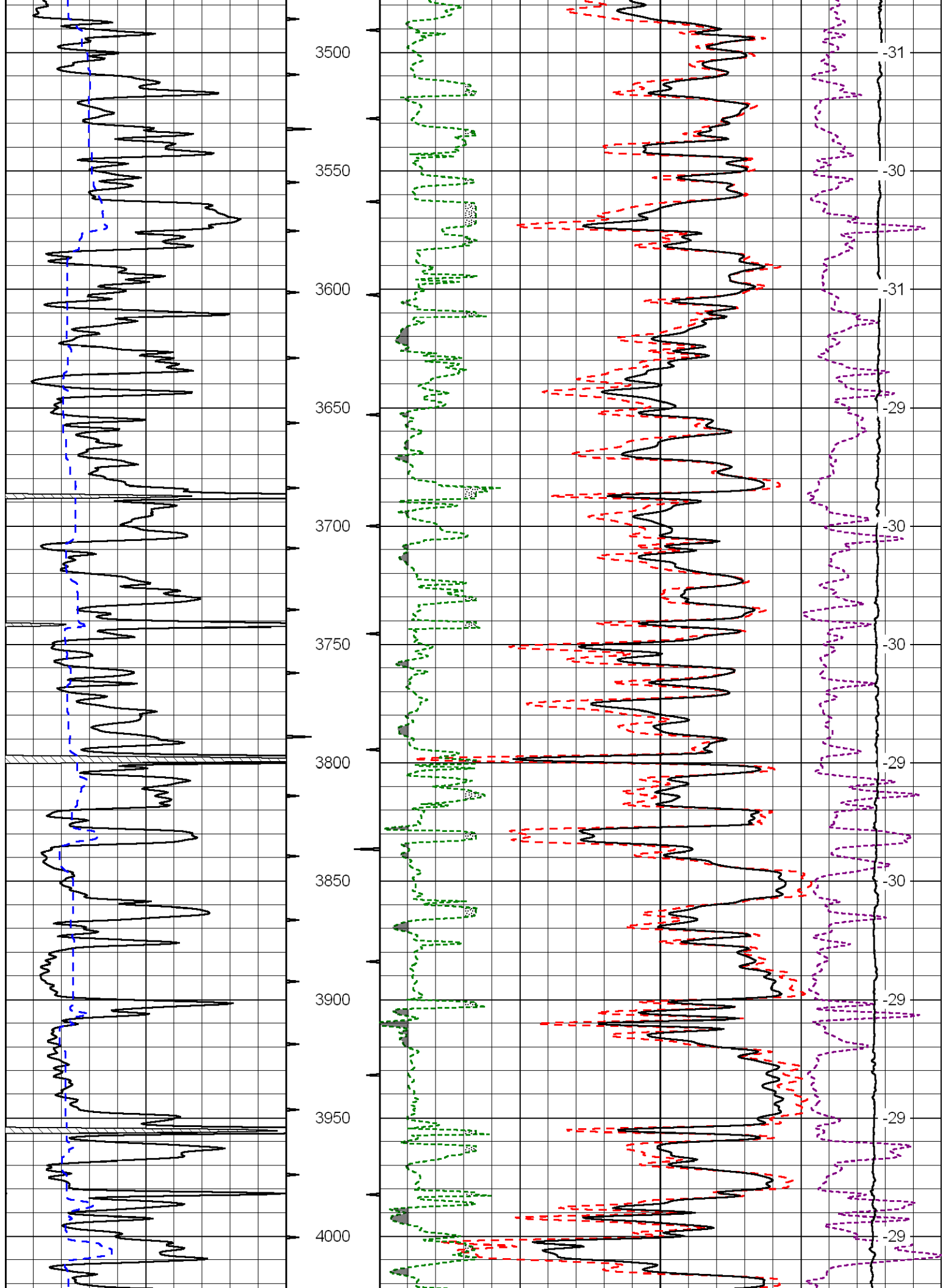
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 1 West, 1/2 North, West into

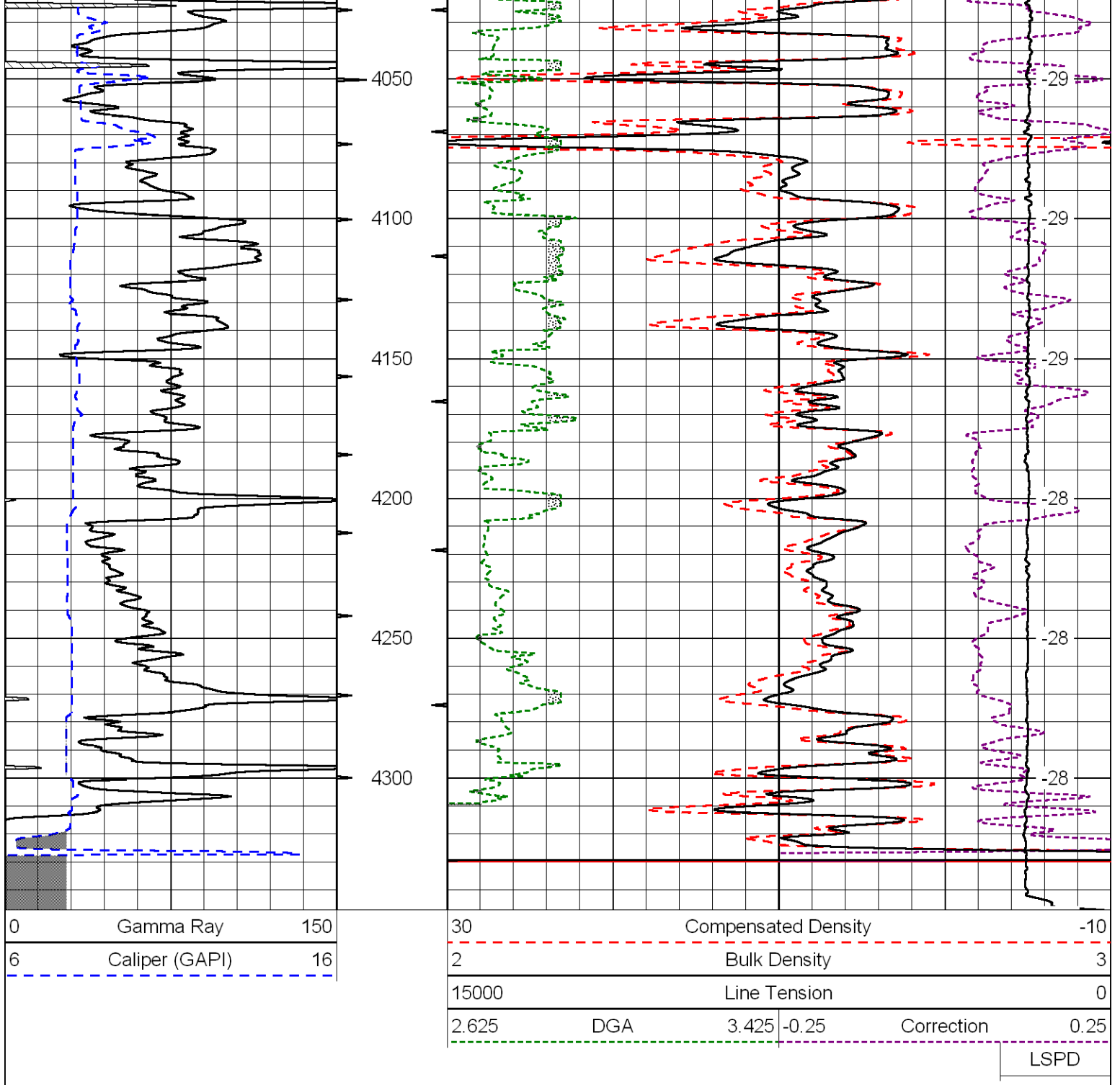
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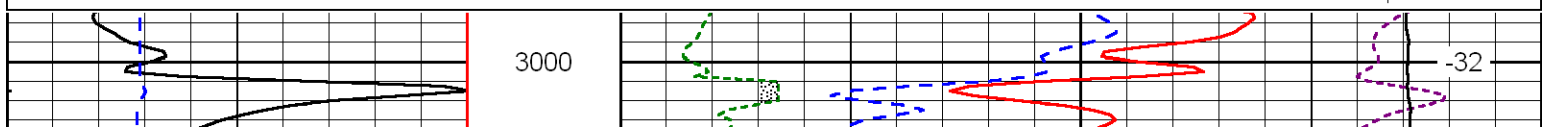
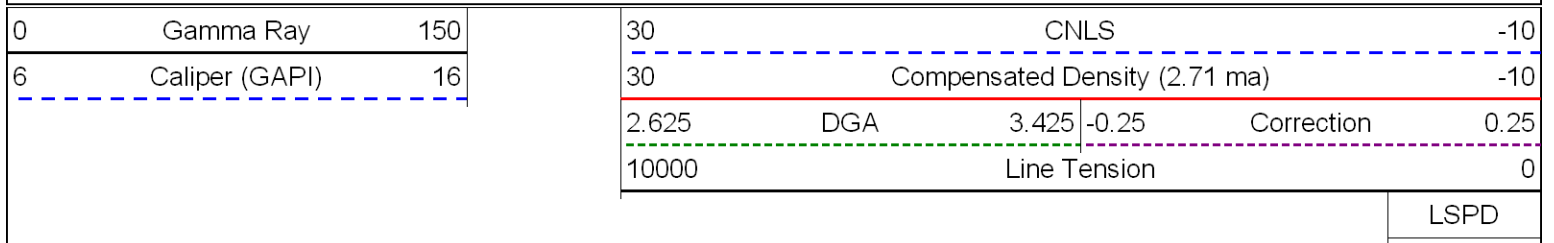
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2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

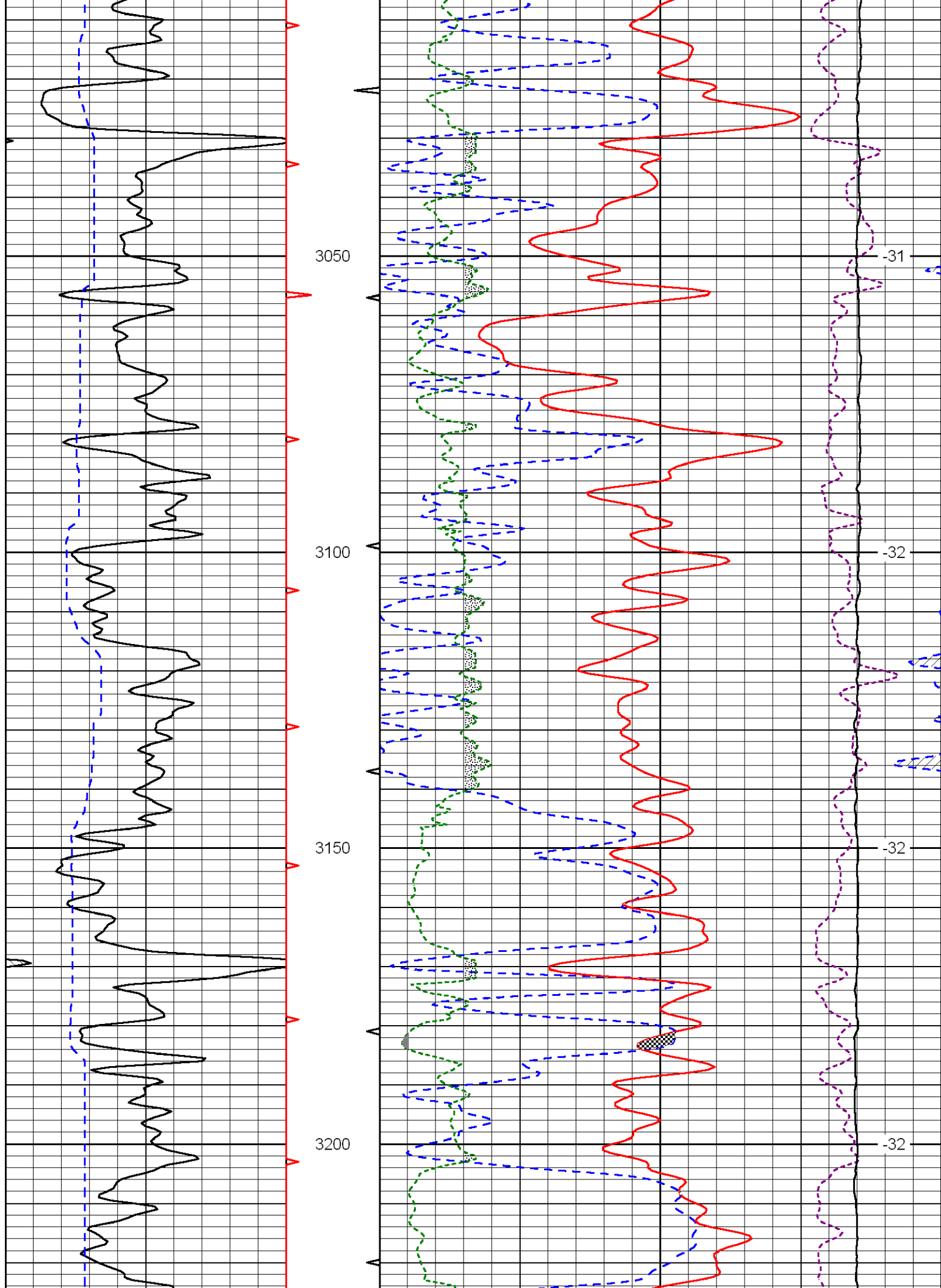


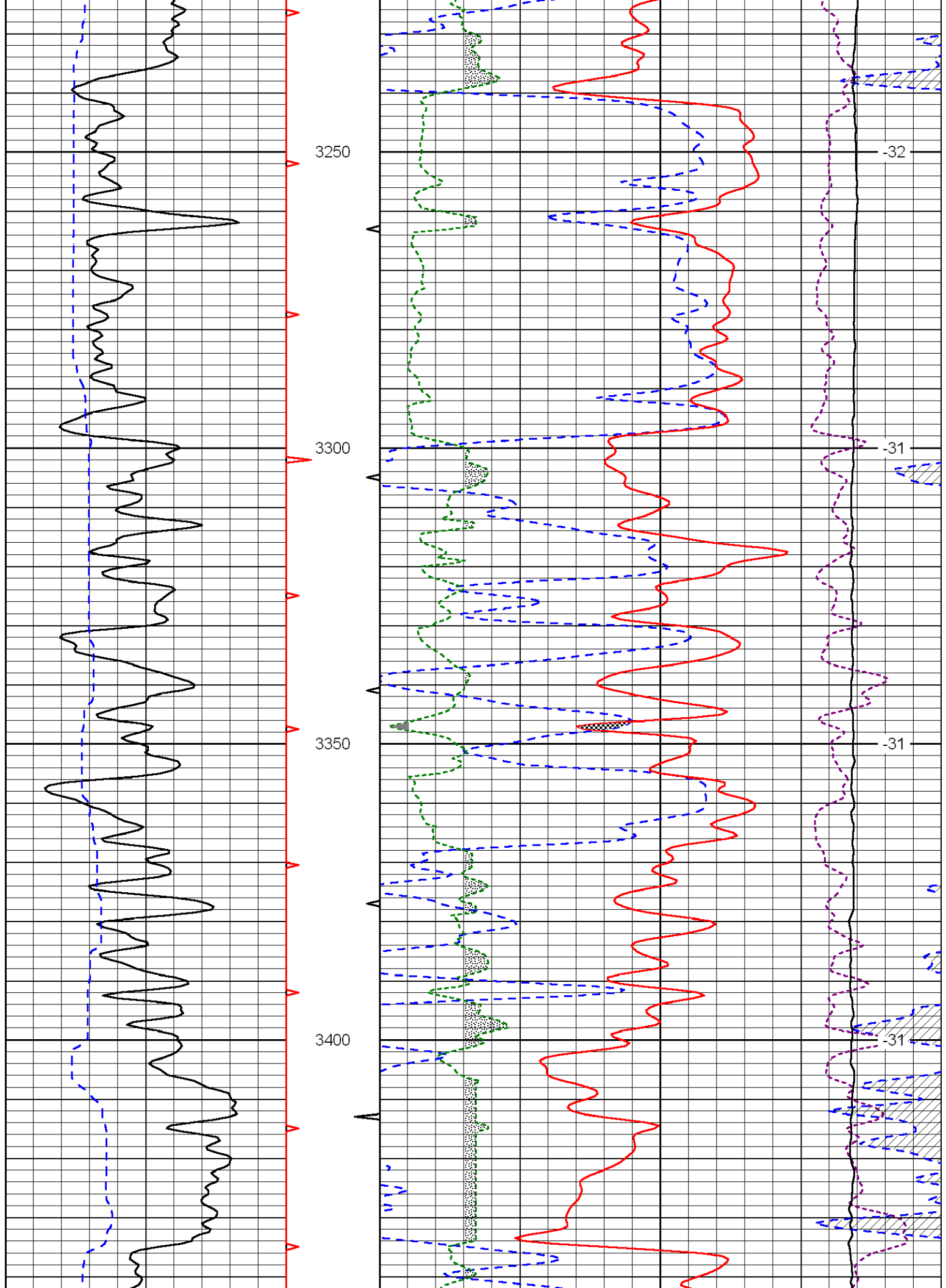


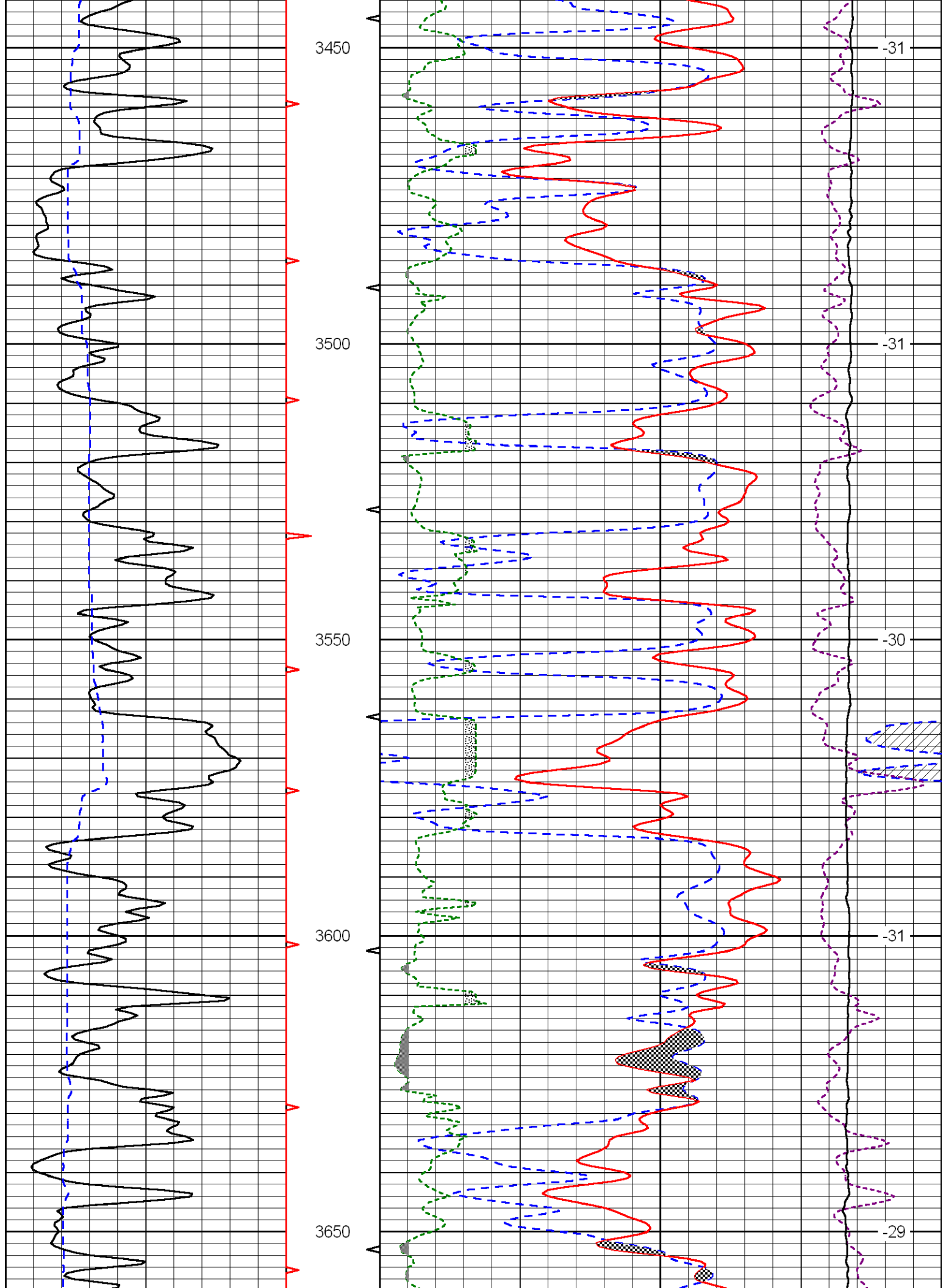


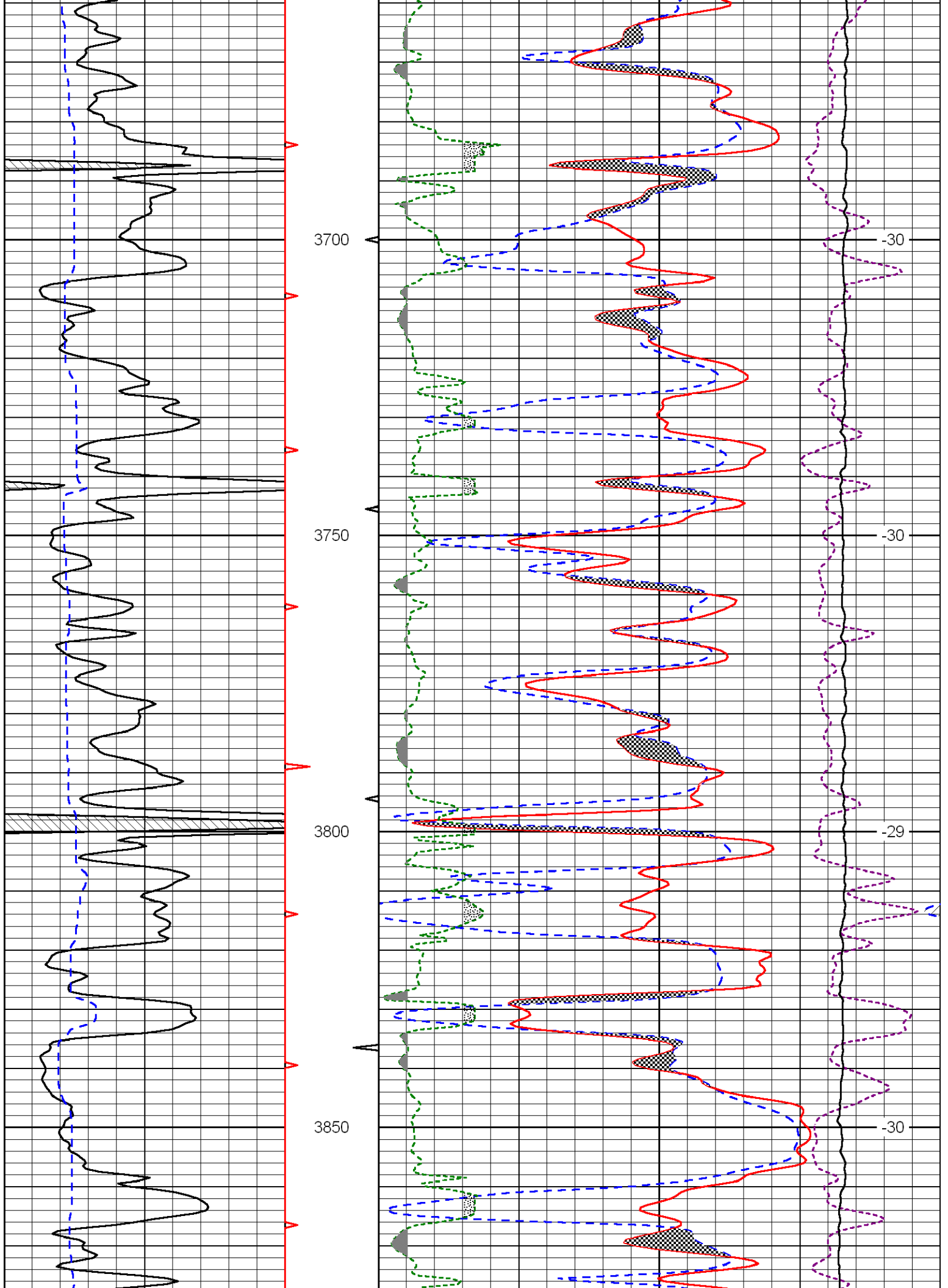
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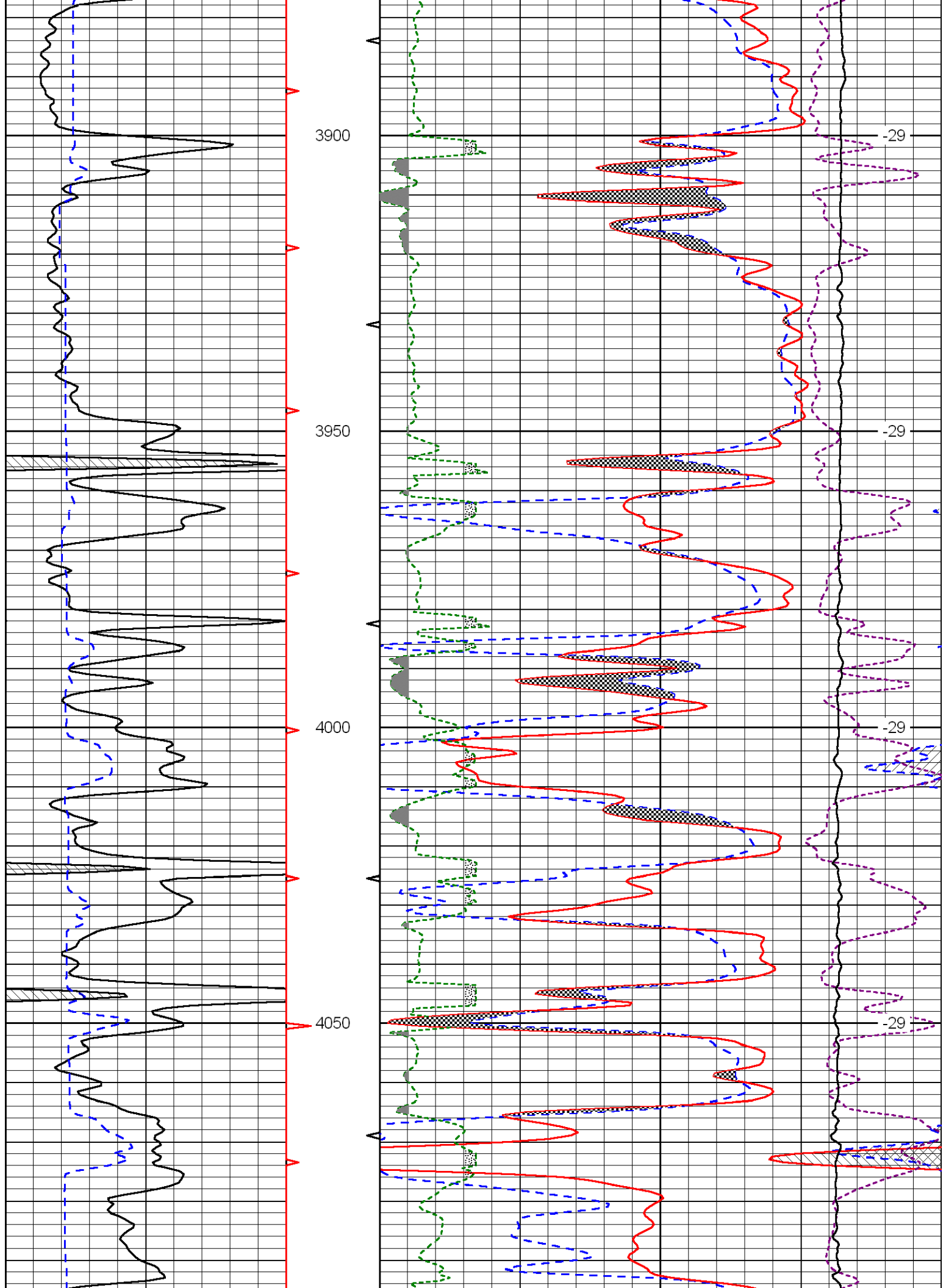


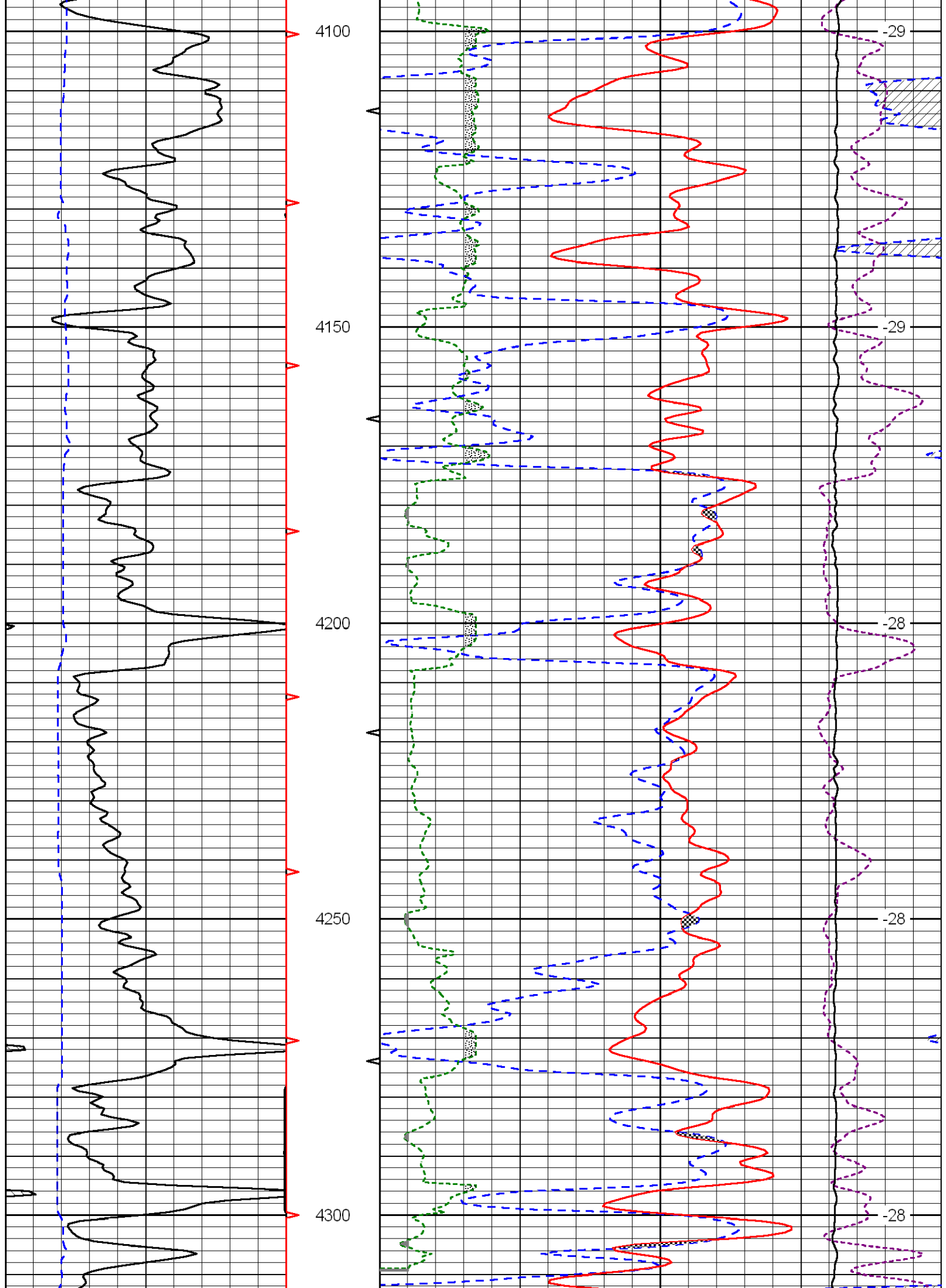


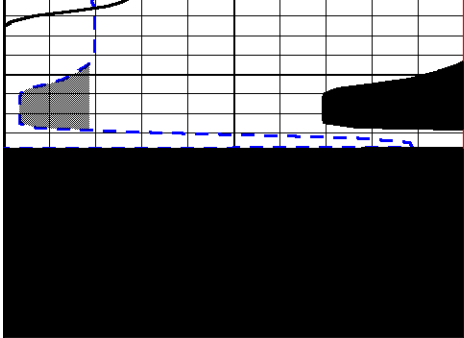




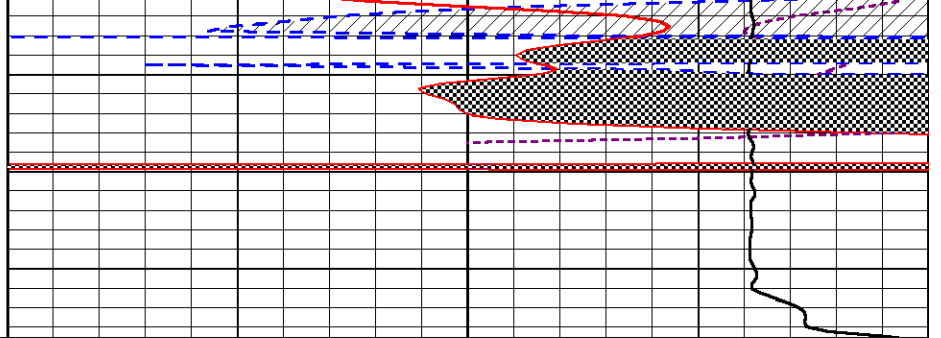








0	Gamma Ray	150
6	Caliper (GAPI)	16



30	CNLS			-10	
30	Compensated Density (2.71 ma)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension			0	

LSPD



Pioneer Energy Services

Dual Induction Log

API No.	15-065-23849-00-00	
Company	Thomason Petroleum, Inc.	
Well	Bolling #1	
Field	Ambrose	
County	Graham	State
		Kansas
Location	1940' FNL & 1480' FEL	
Sec: 21	Twp: 10S	Rge: 25W
Permanent Datum	Ground Level	Elevation 2507
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2515 D.F. 2507 G.L. 2507

Date	10/13/2012
Run Number	One
Depth Driller	4340
Depth Logger	4342
Bottom Logged Interval	4341
Top Log Interval	200
Casing Driller	8.625 @ 223
Casing Logger	223
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3500
Density / Viscosity	9.3 67
pH / Fluid Loss	8.5 8.4
Source of Sample	Flowline
Rm @ Meas. Temp	0.56 @ 66
Rmf @ Meas. Temp	0.42 @ 66
Rmc @ Meas. Temp	0.76 @ 66
Source of Rmf / Rmc	Charts
Rm @ BHT	0.30 @ 121
Operating Rig Time	5 Hours
Max Rec. Temp. F	121
Equipment Number	91
Location	Hays
Recorded By	D. Schmidt
Witnessed By	Jeff Lawler

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Comments

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North to Old Hwy 40, 1 East to 240th, North to Rawlins Co. C Rd,
1 West, 1/2 North, West into

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-200 SP 0

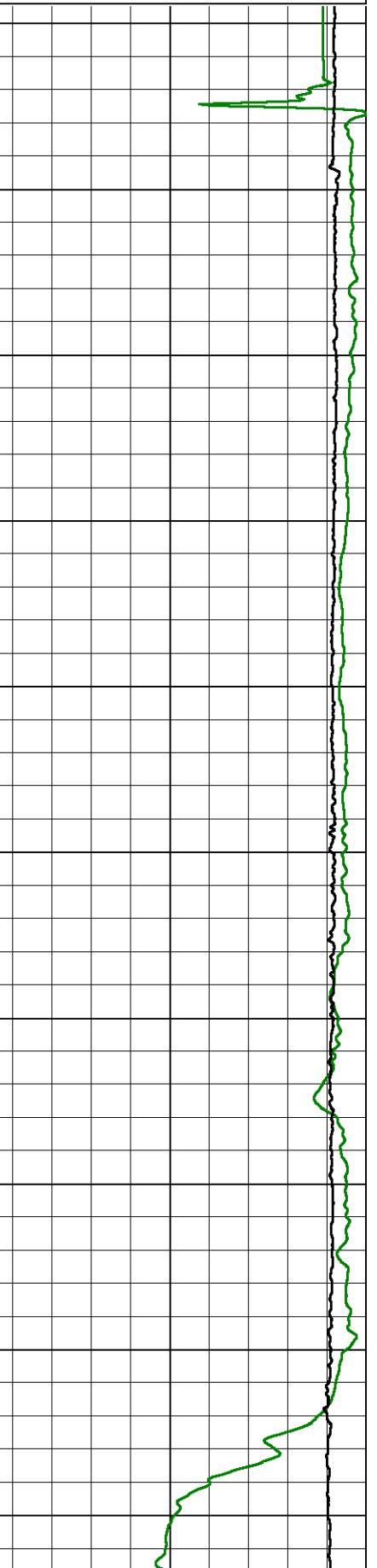
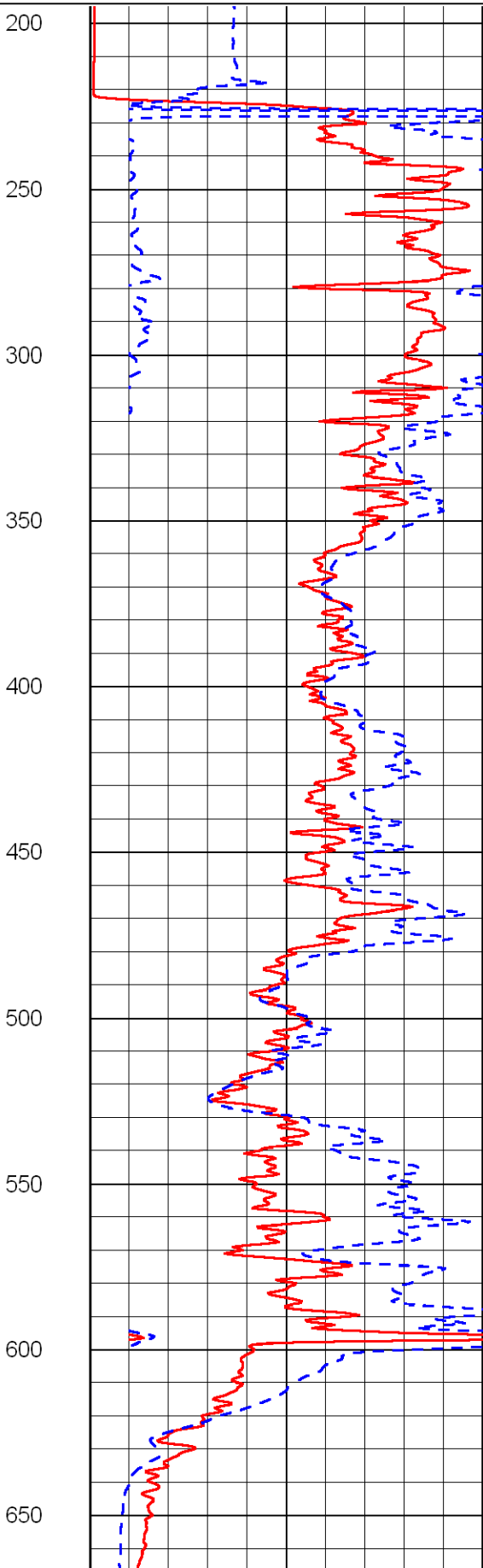
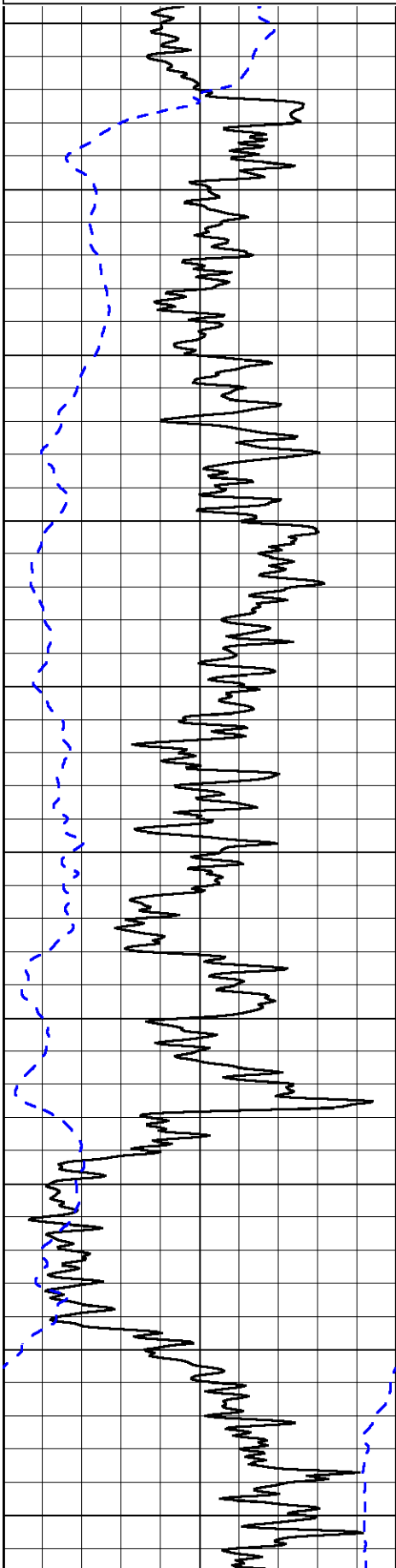
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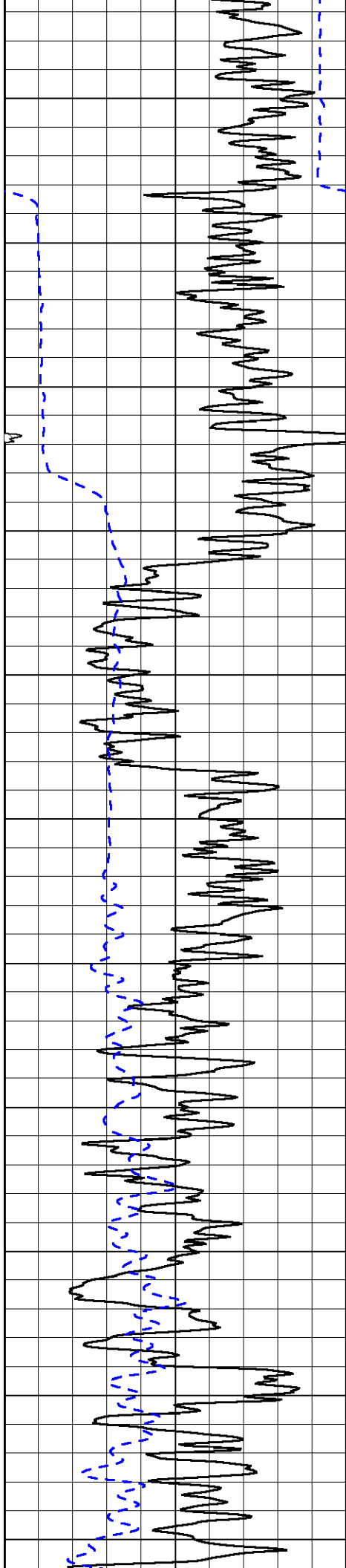
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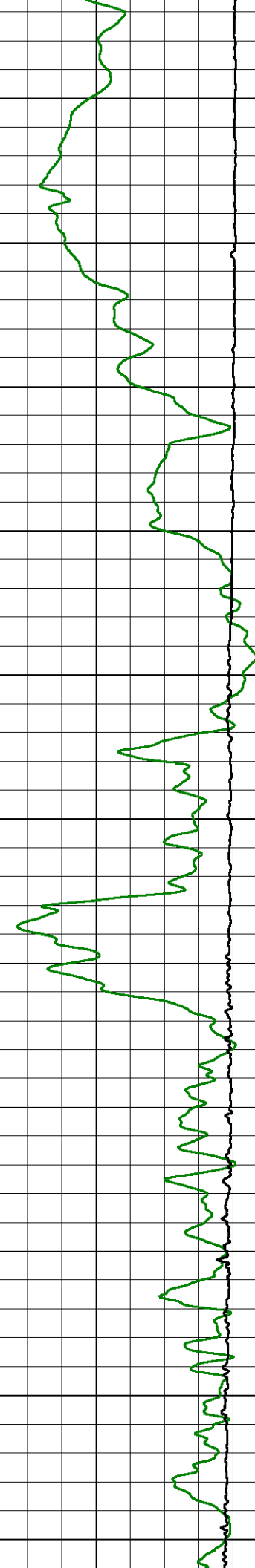
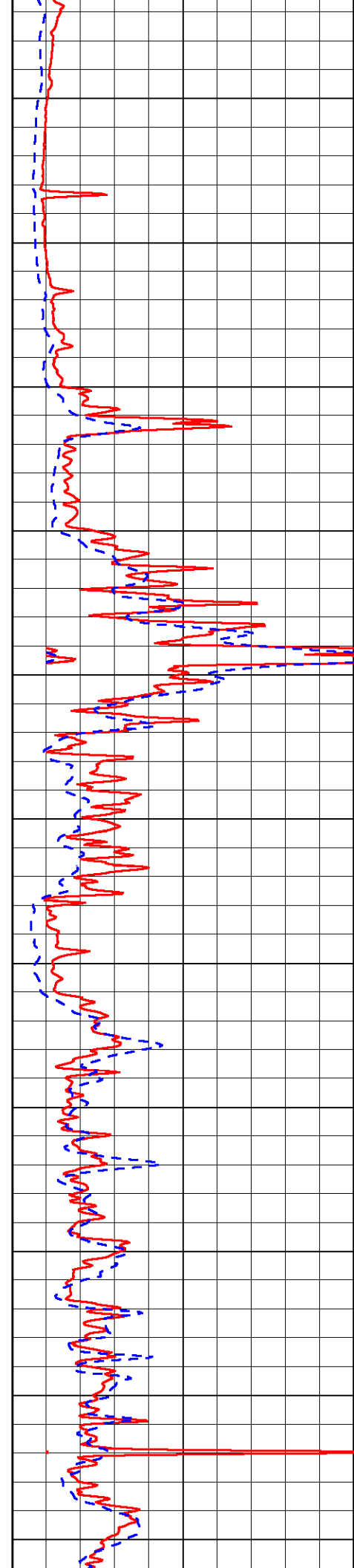
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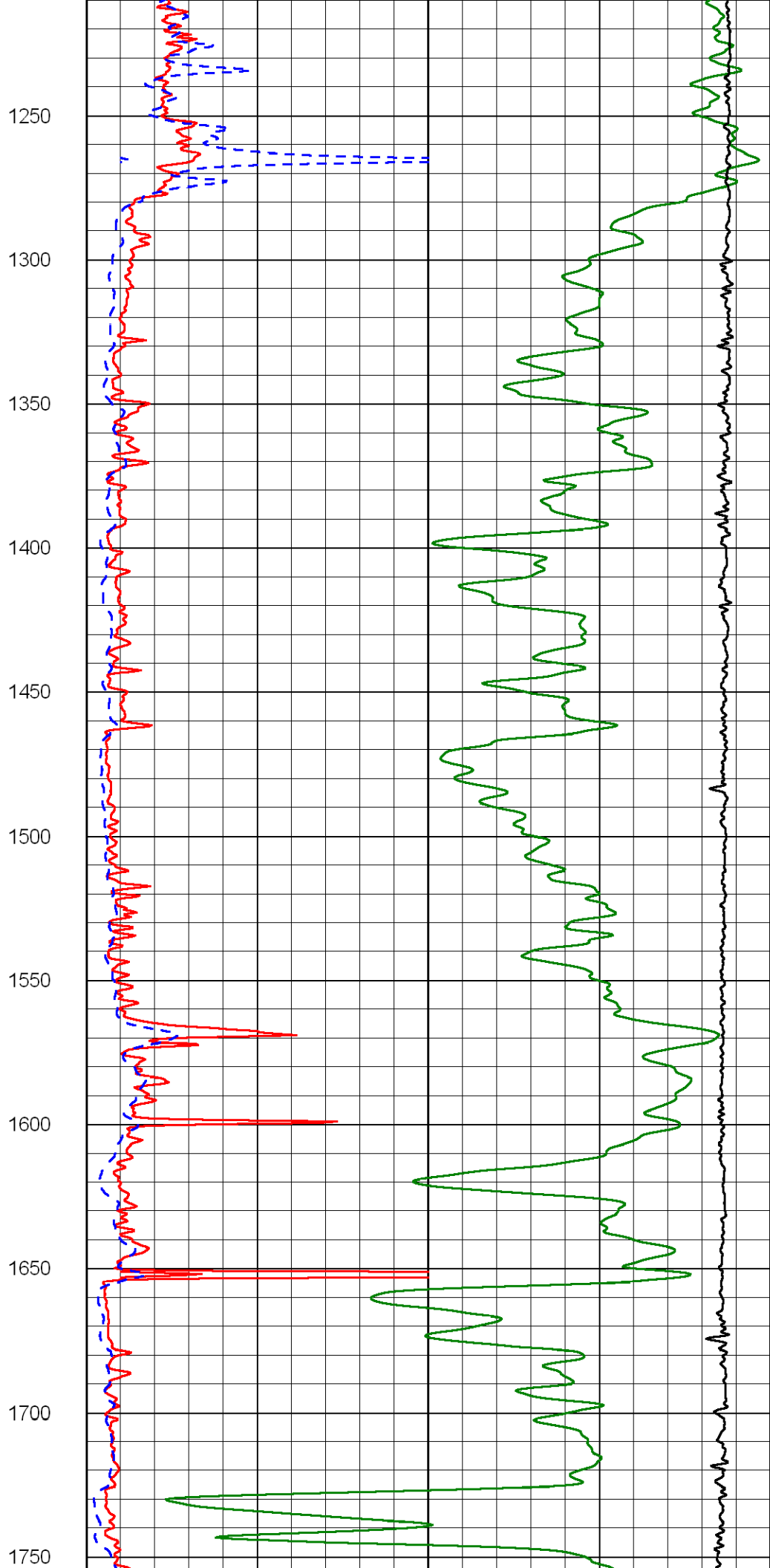
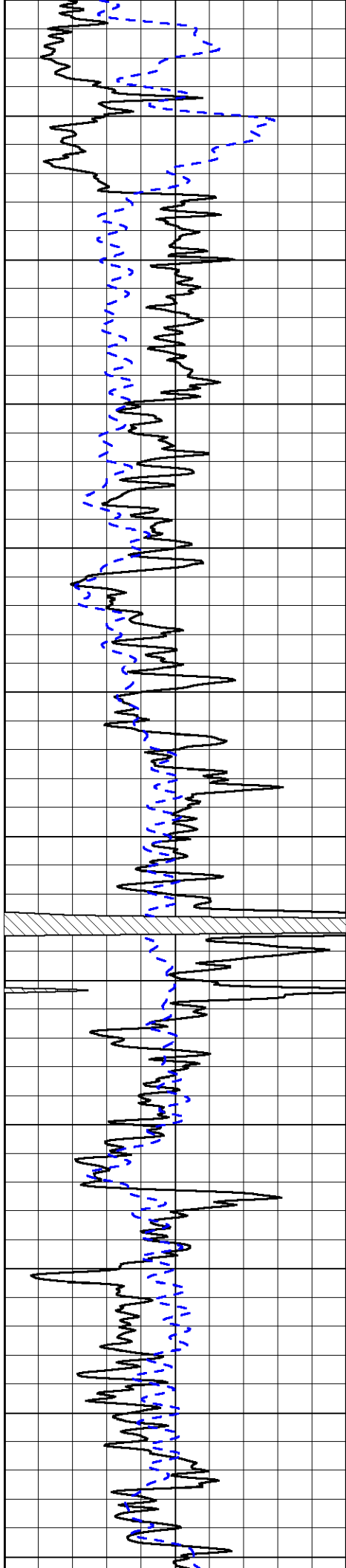
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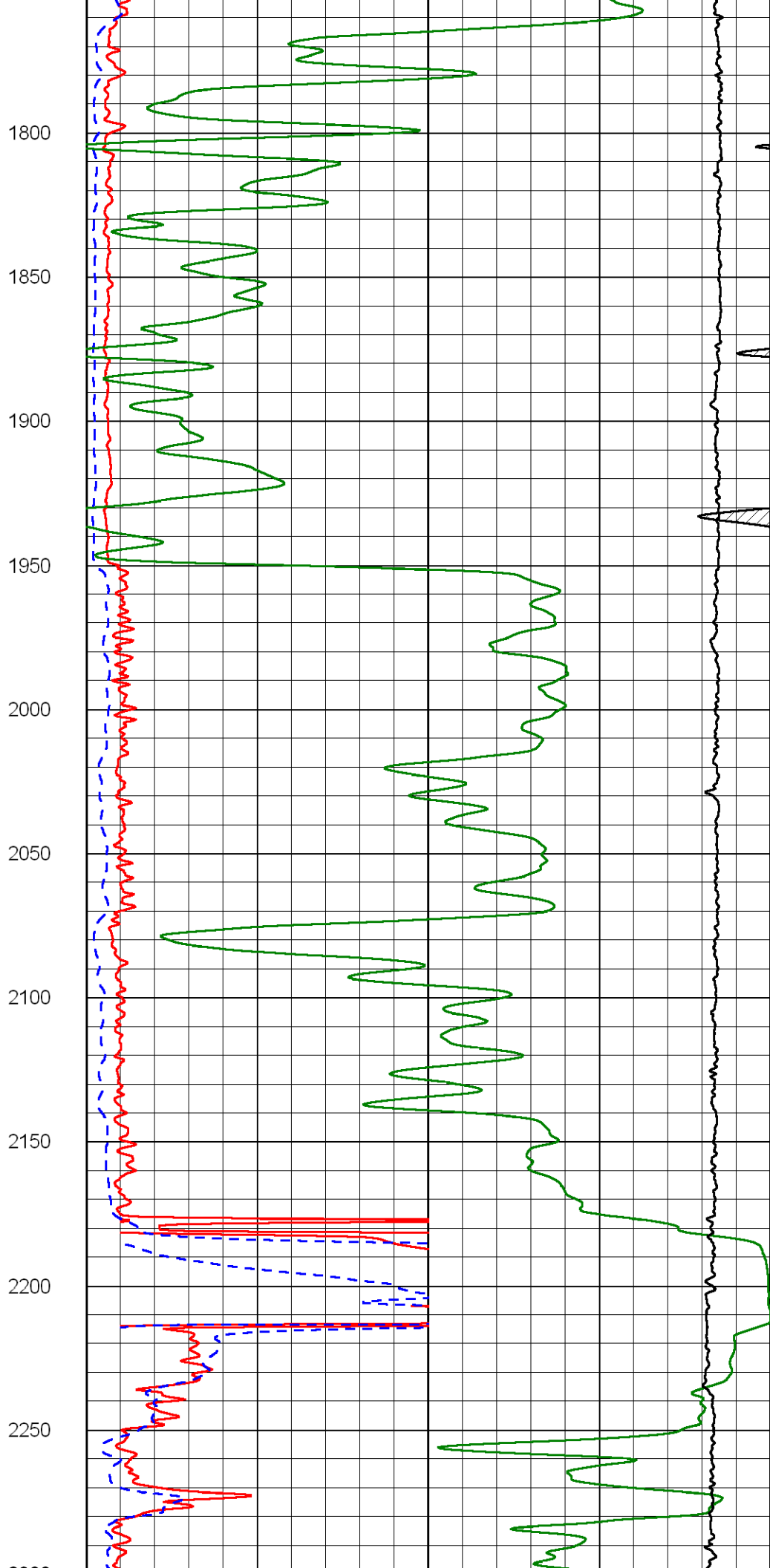
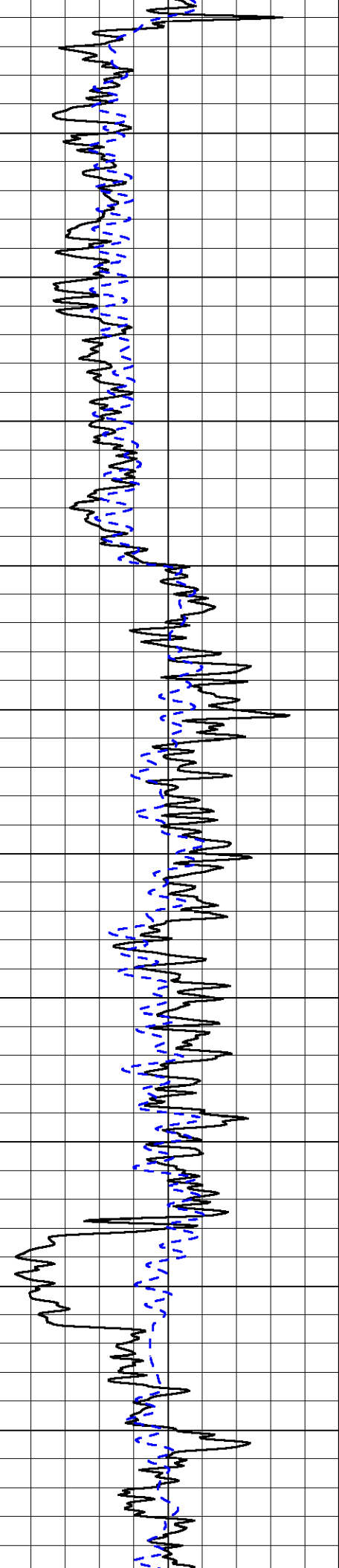


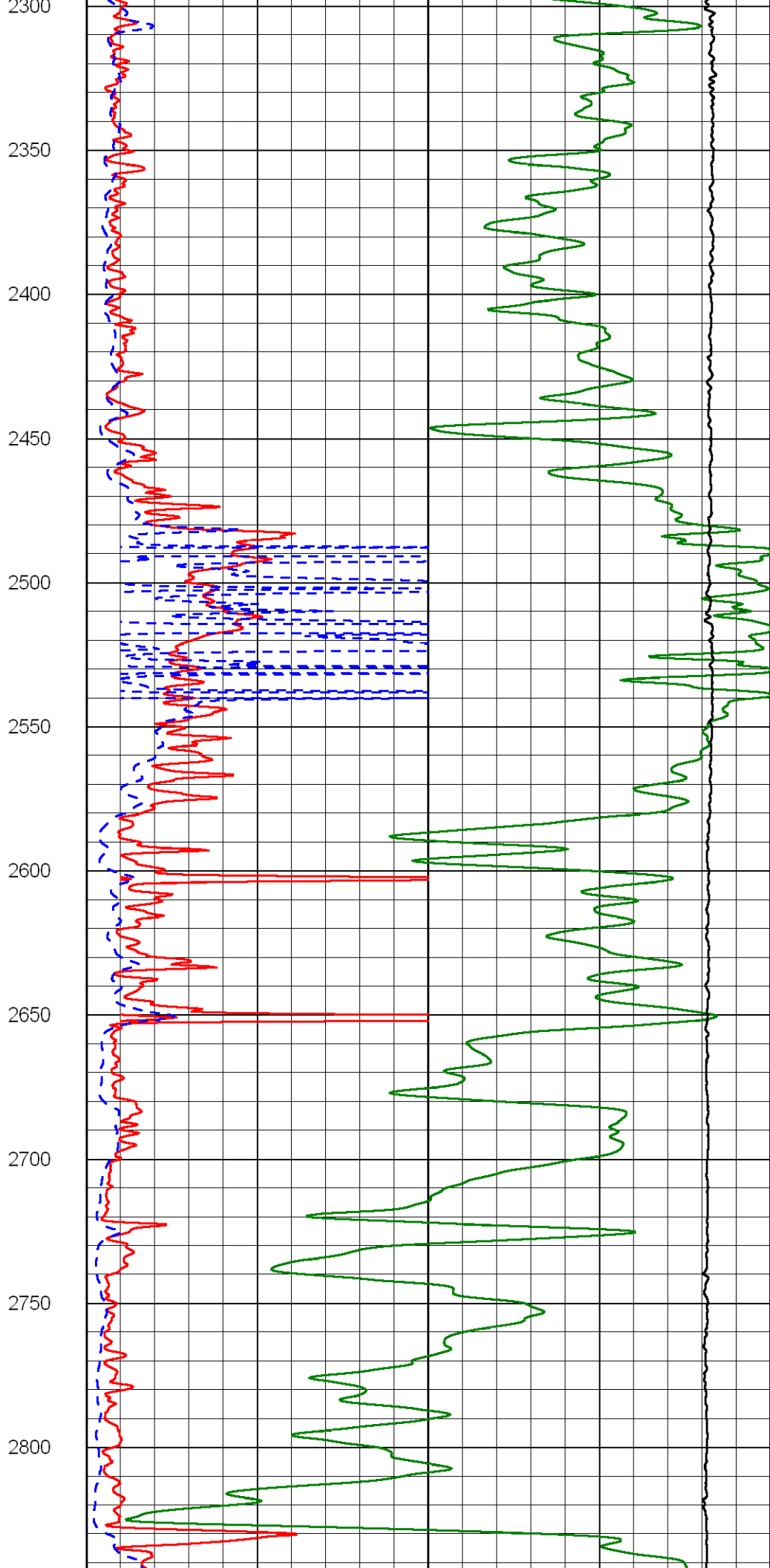
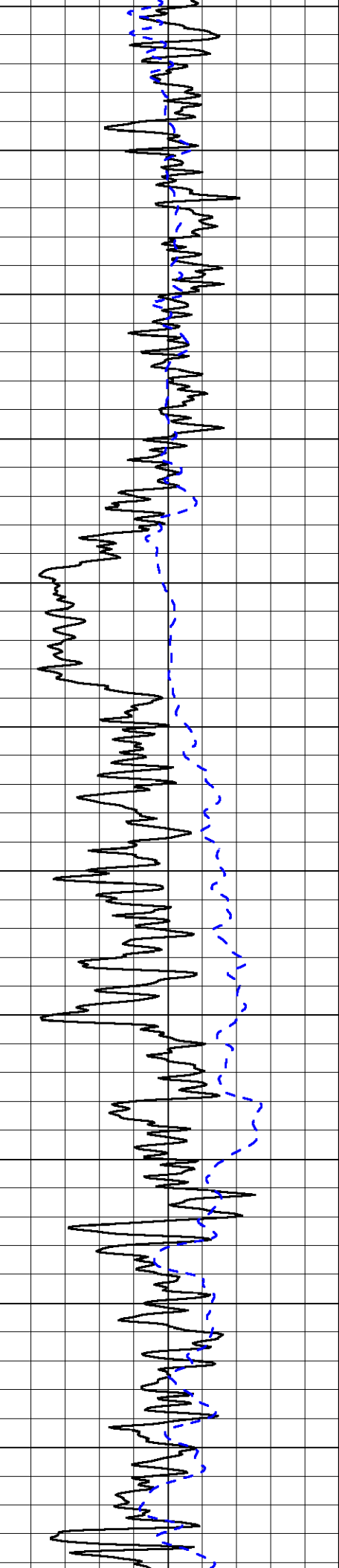


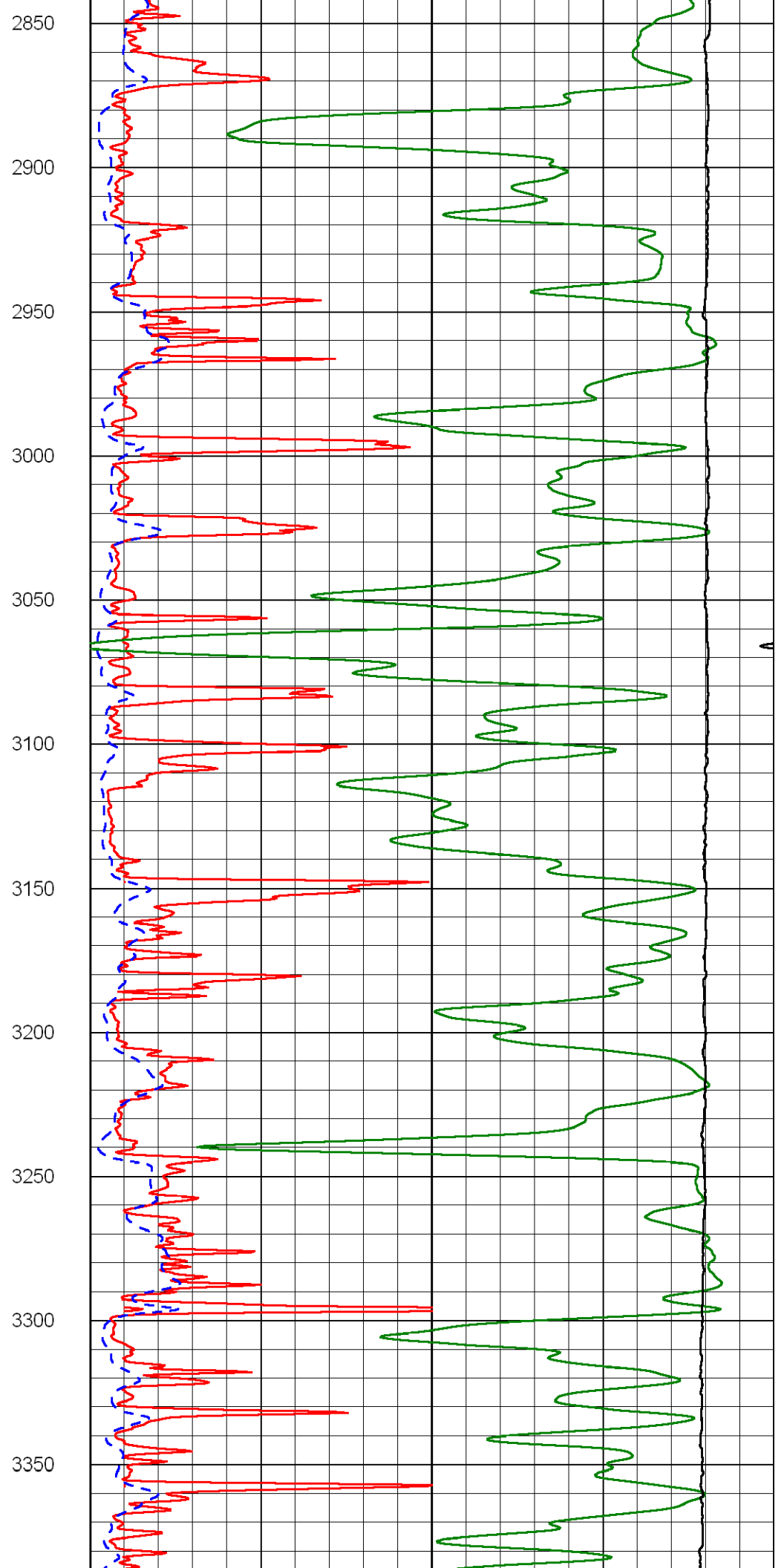
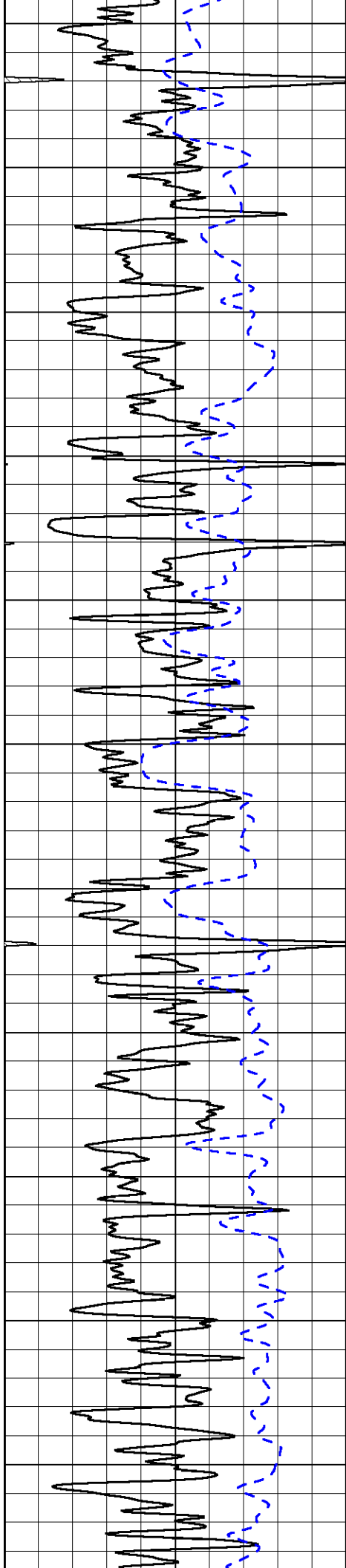
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750
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850
900
950
1000
1050
1100
1150
1200

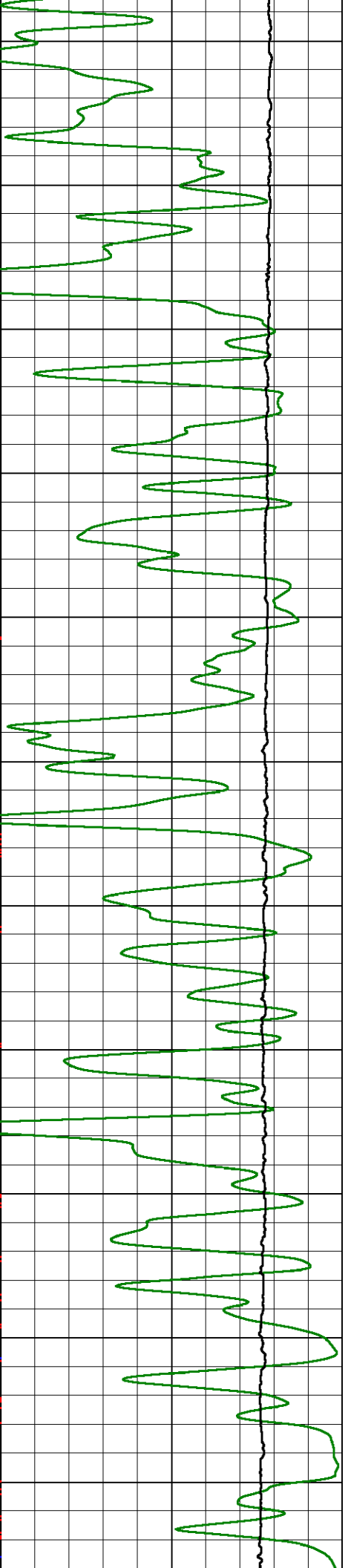
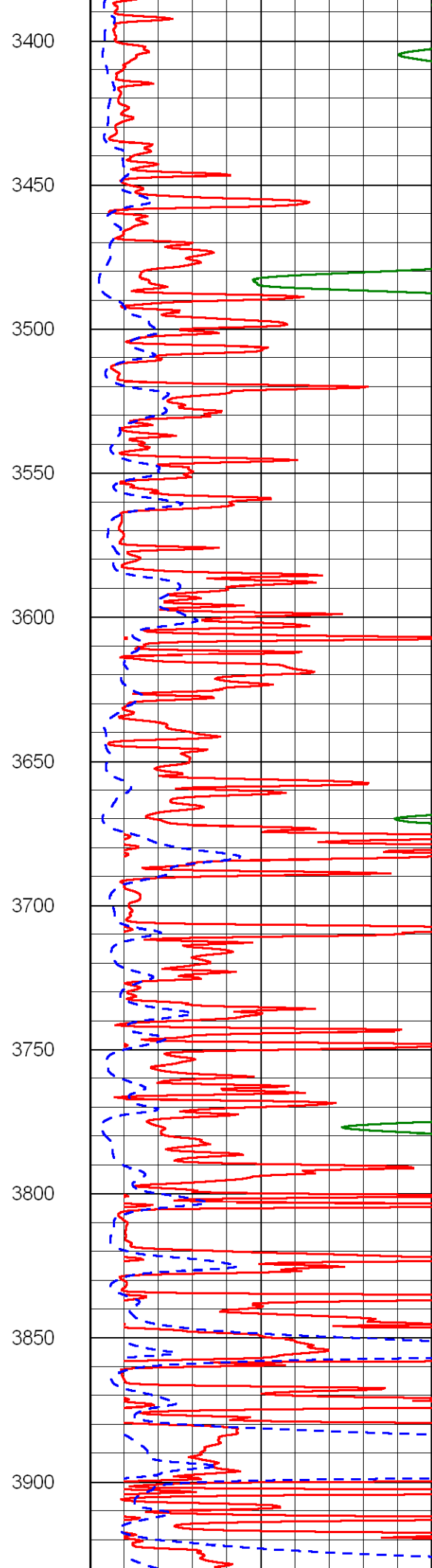
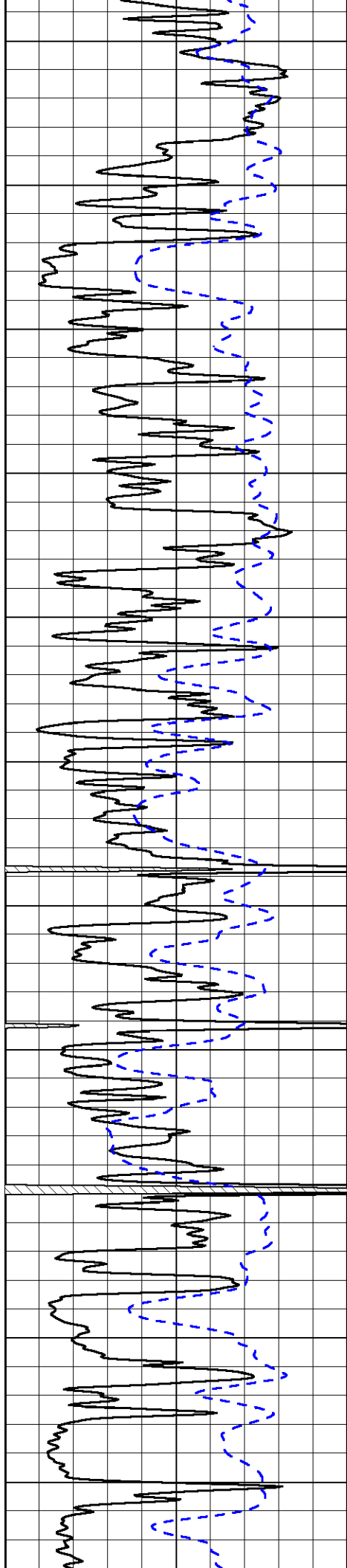


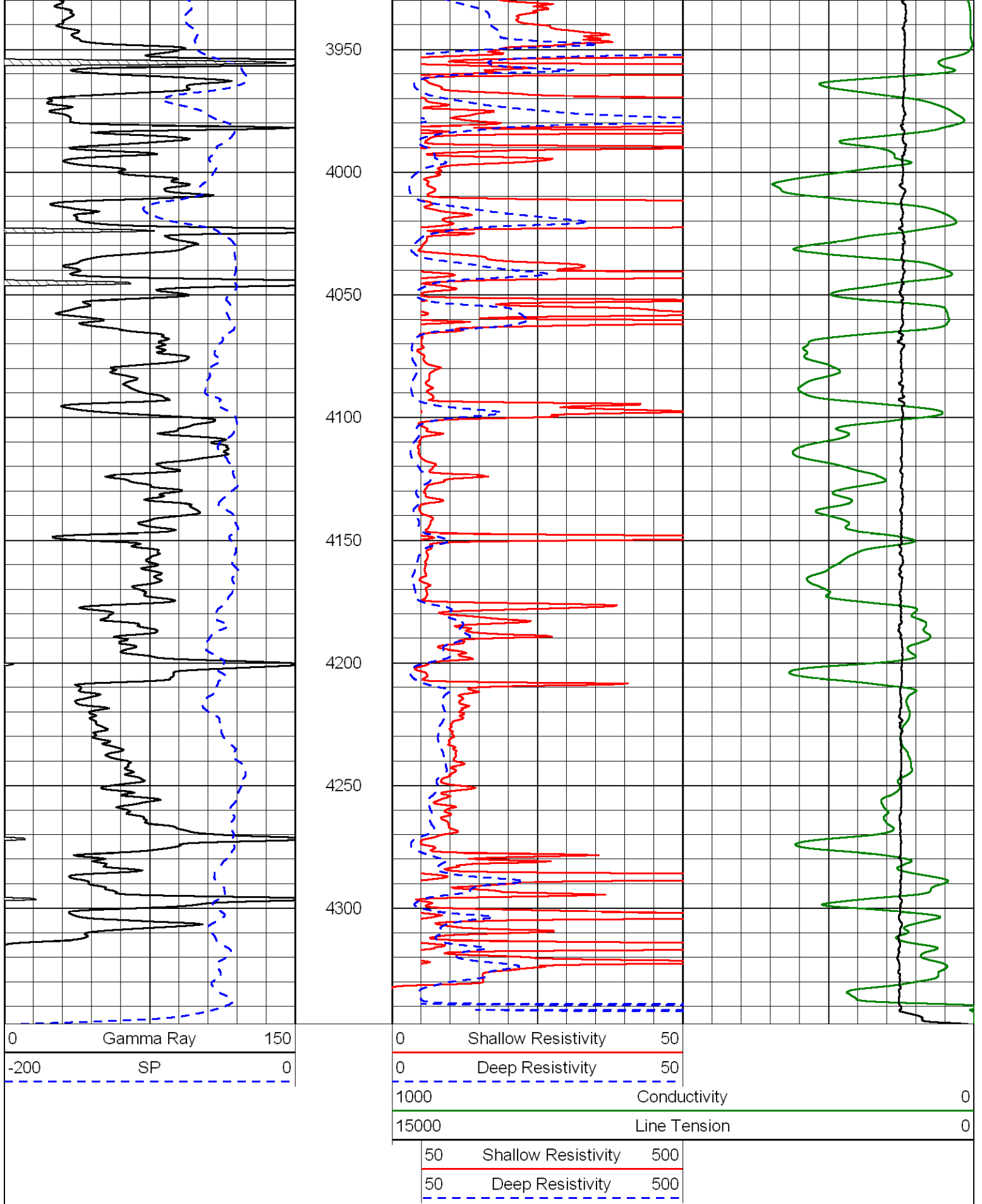










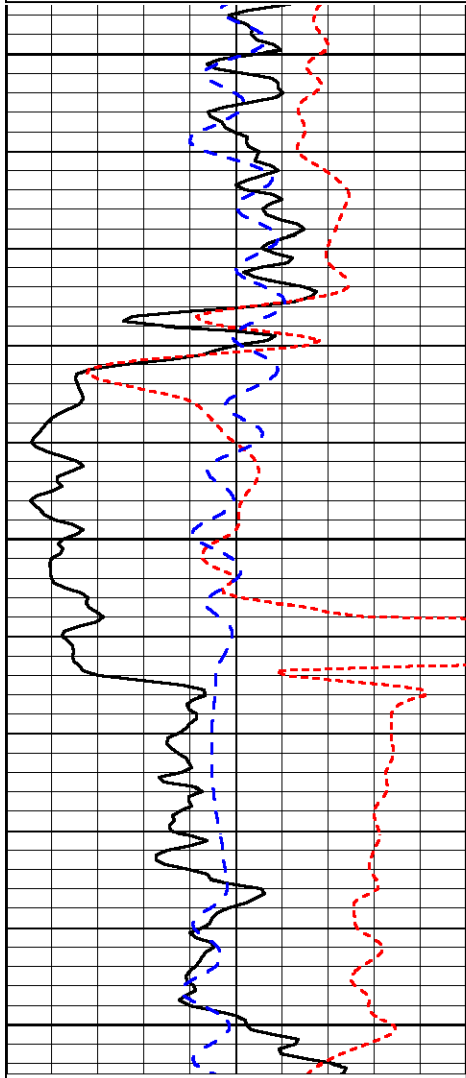


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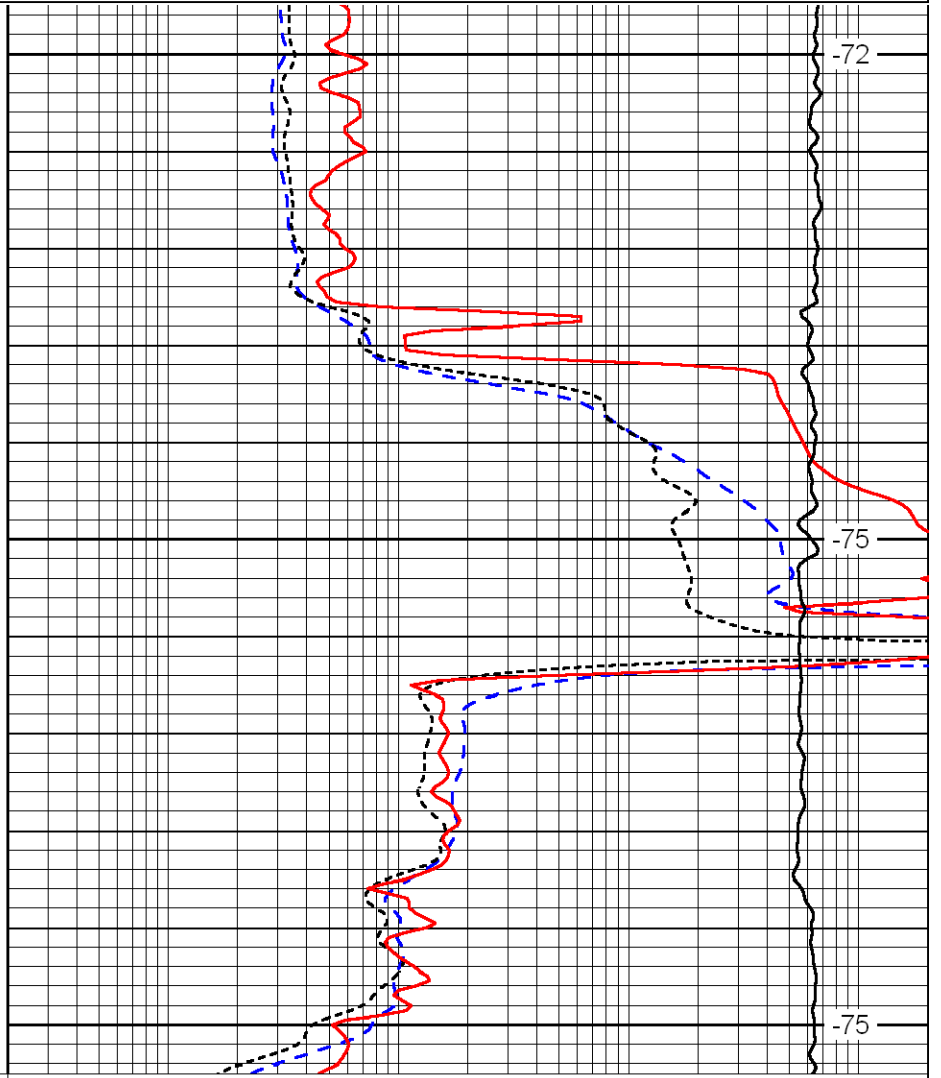
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-200	SP	0

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

LSPD



2150
2200
2250



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

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

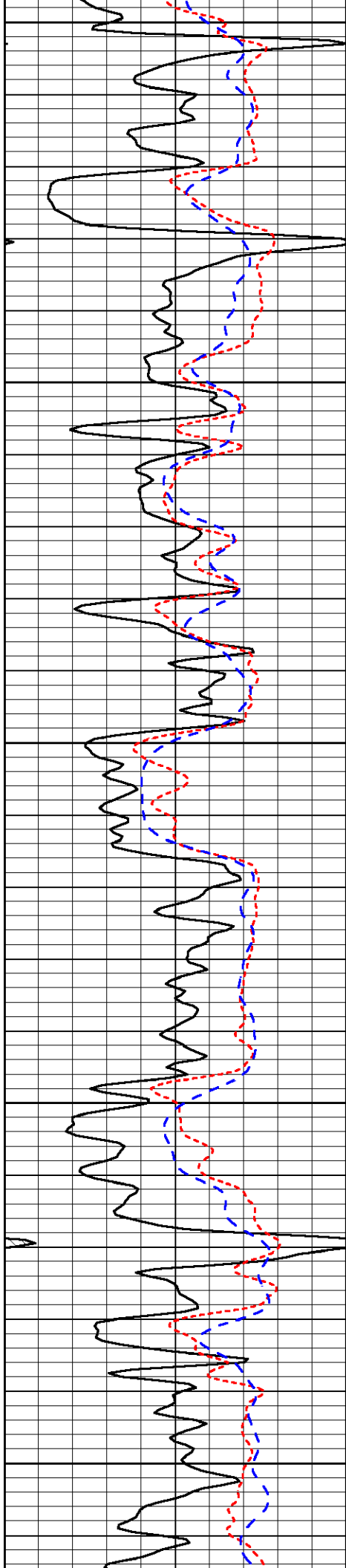
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-160	RXO/RT	40
-200	SP	0

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

LSPD



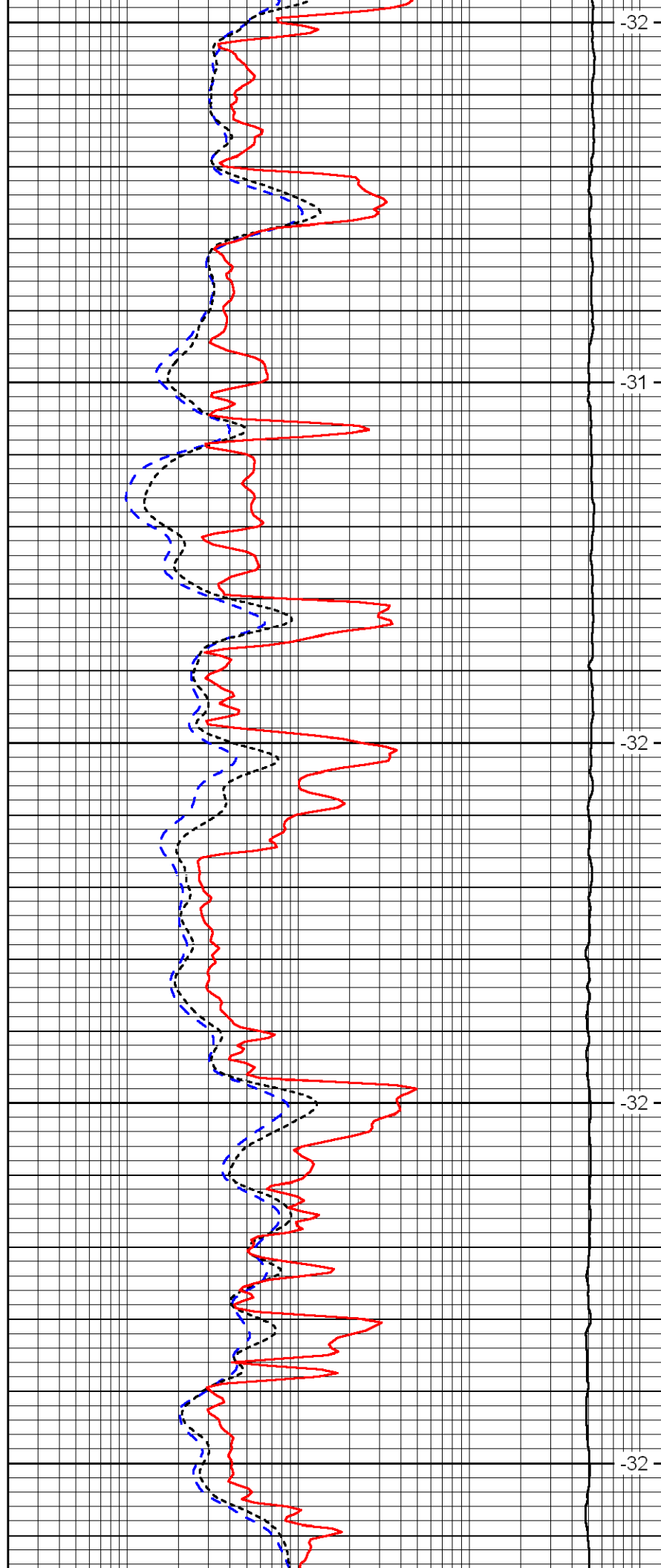
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3050

3100

3150

3200



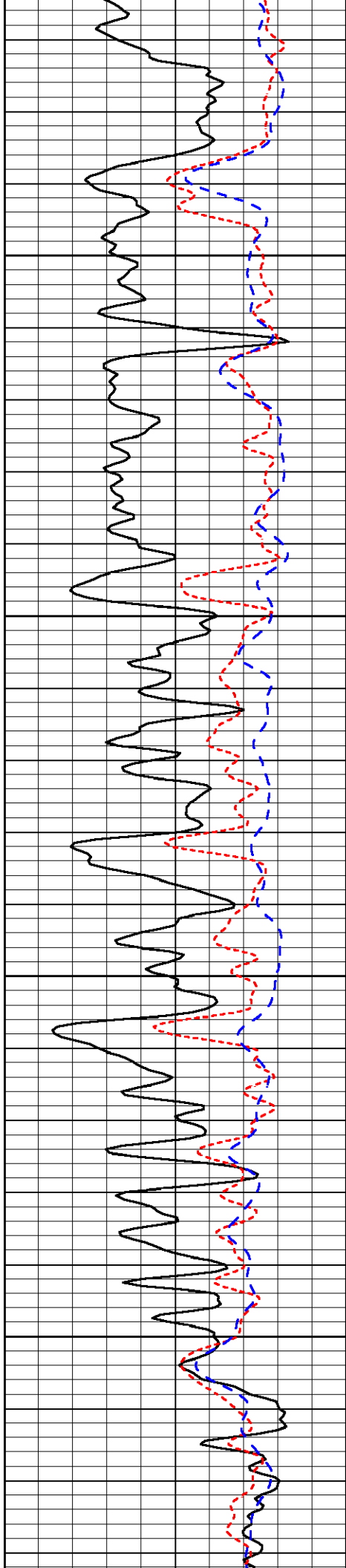
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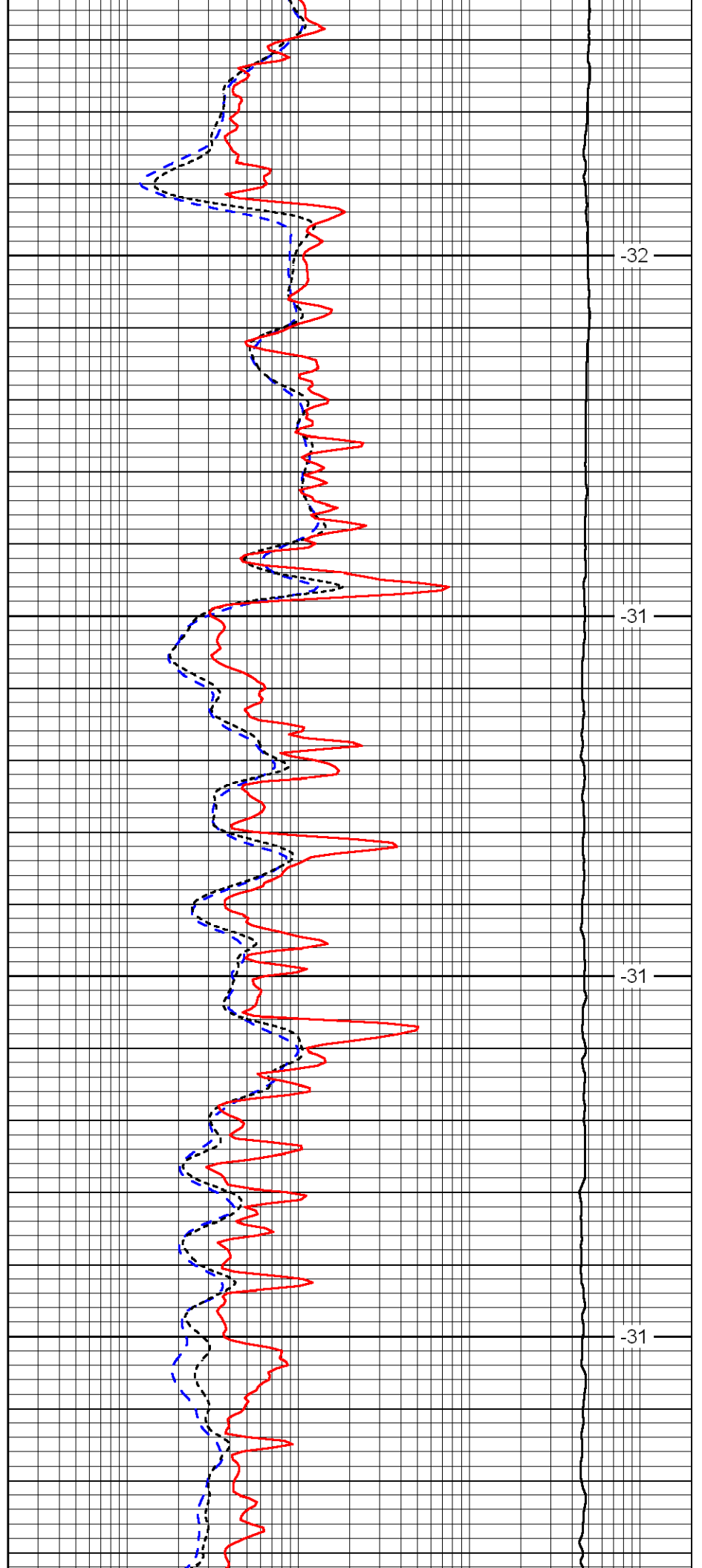


3250

3300

3350

3400

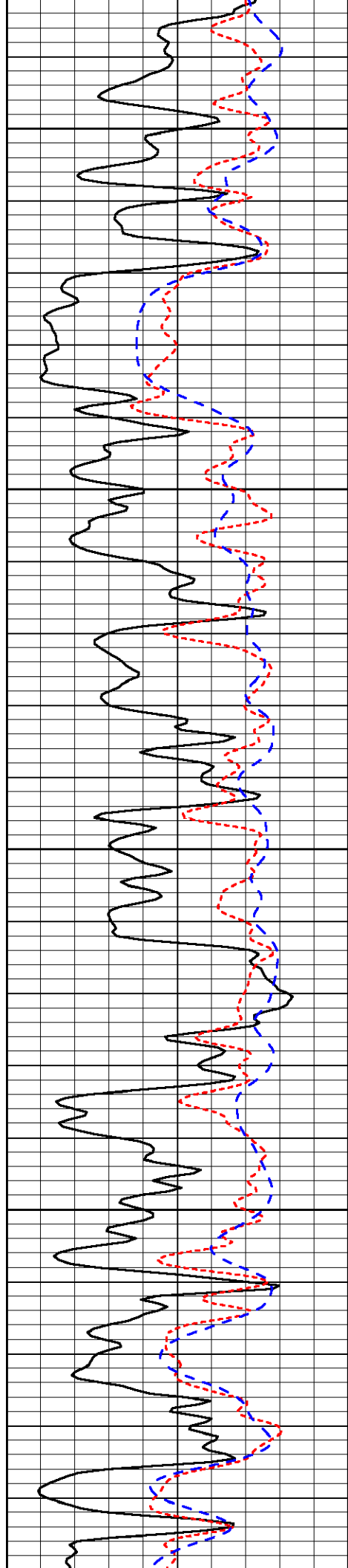


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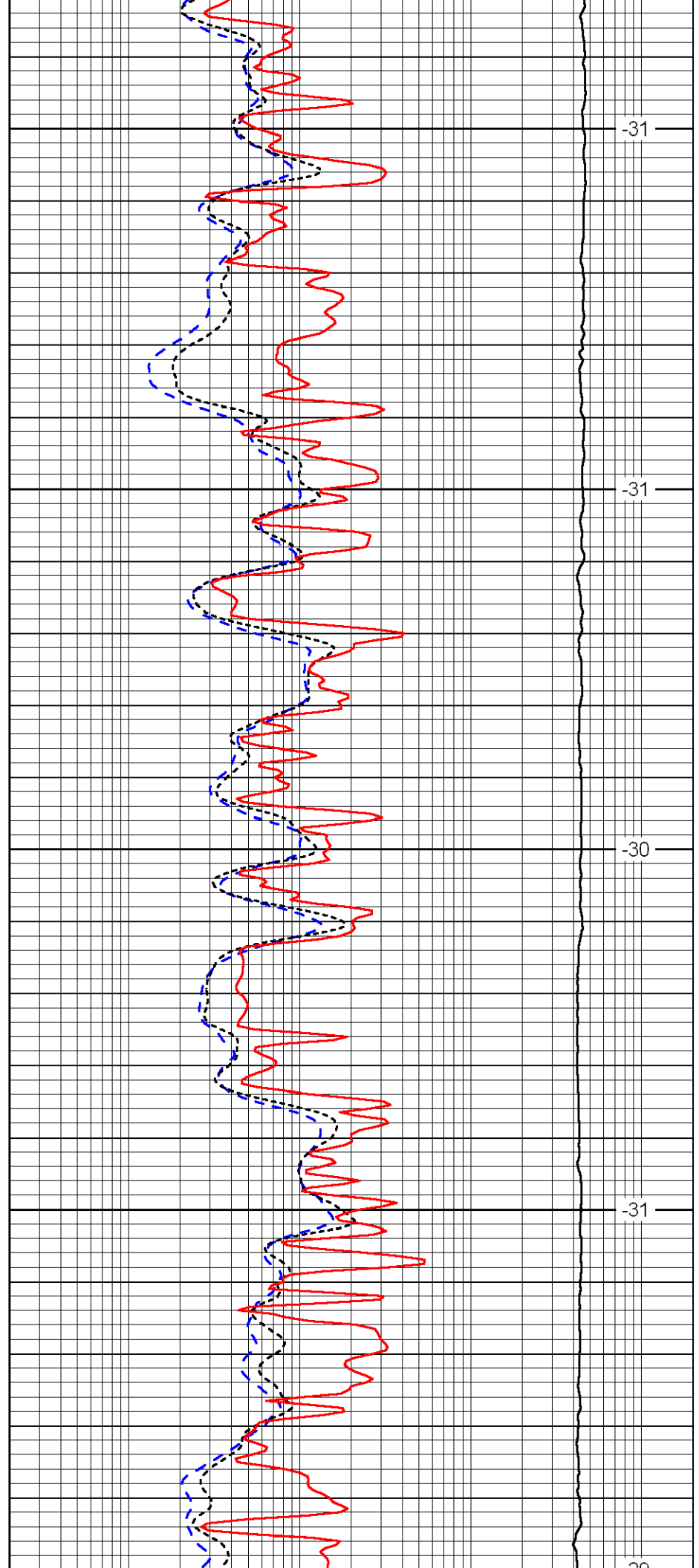
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3550

3600

3650



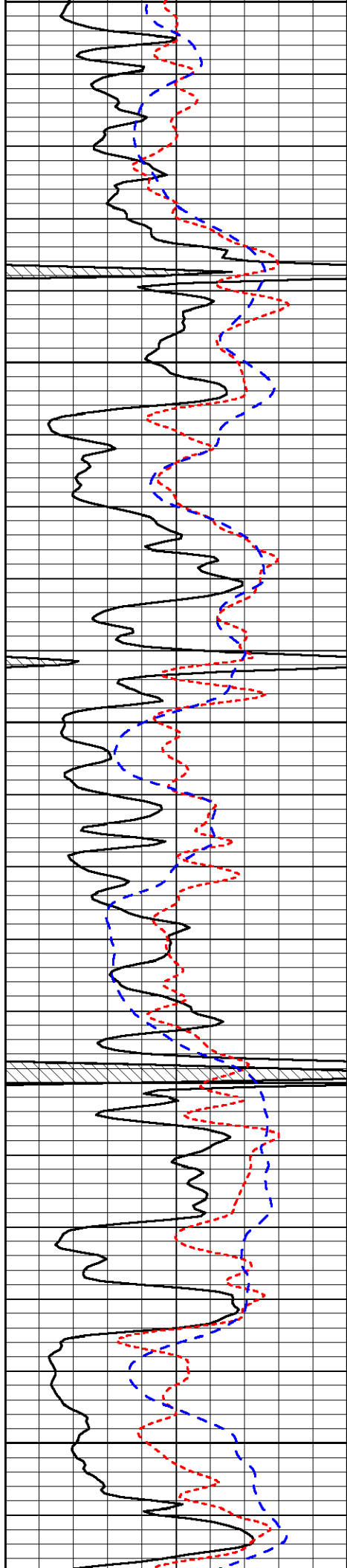
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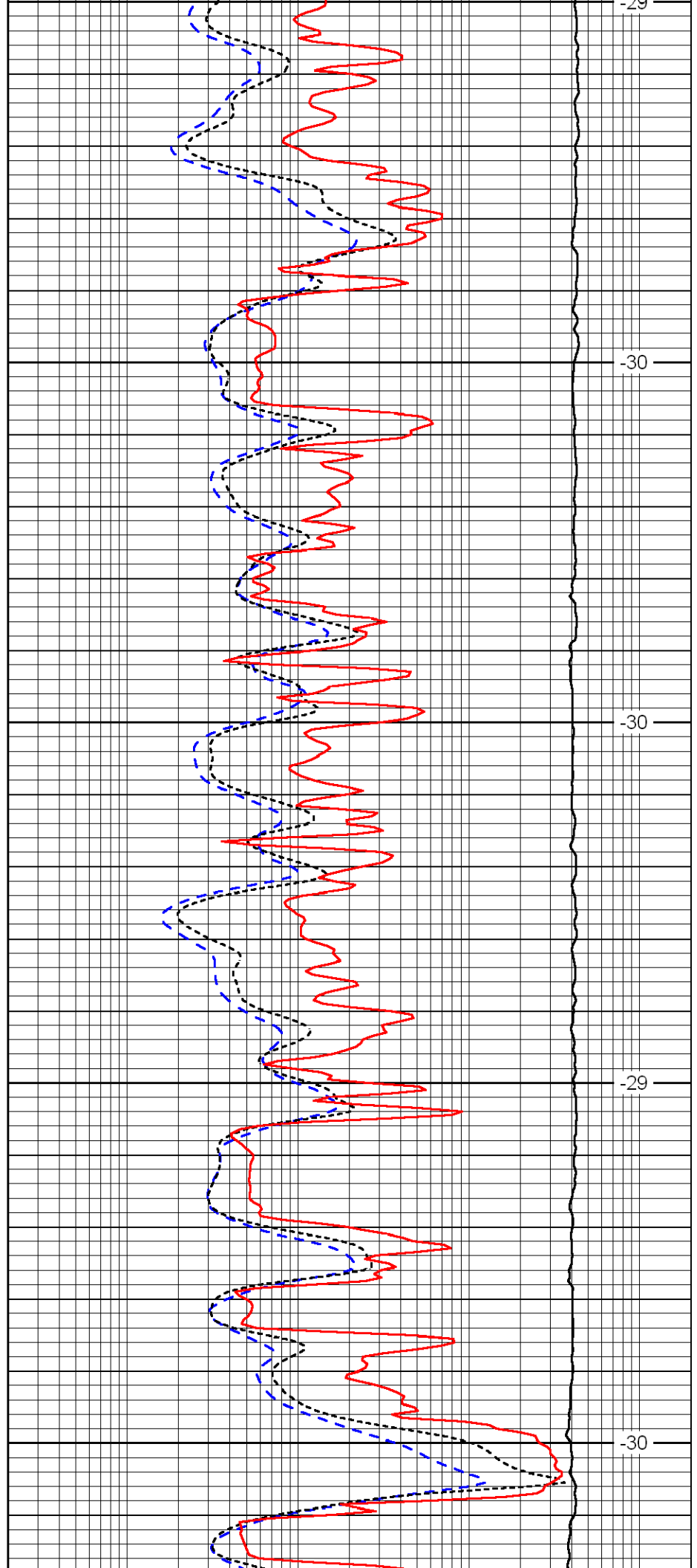
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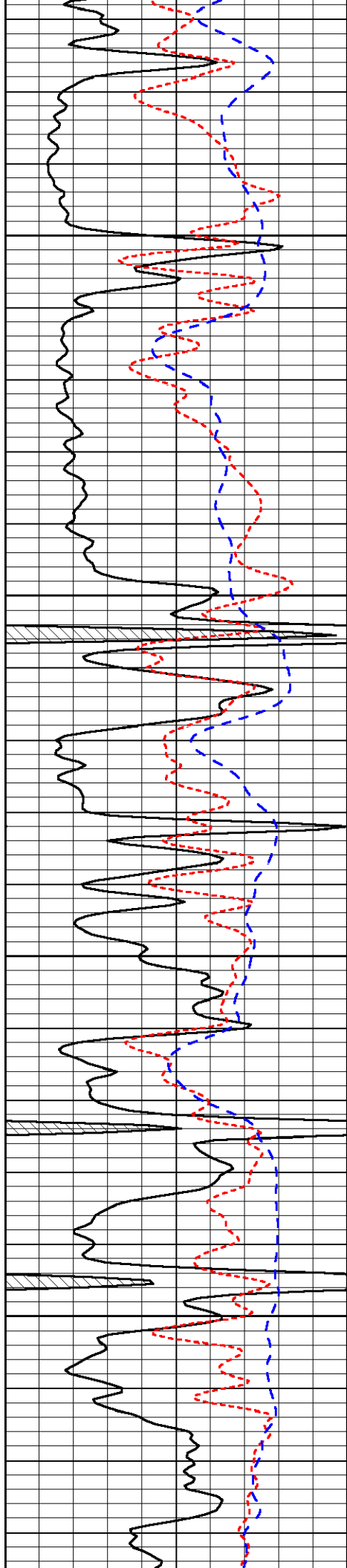
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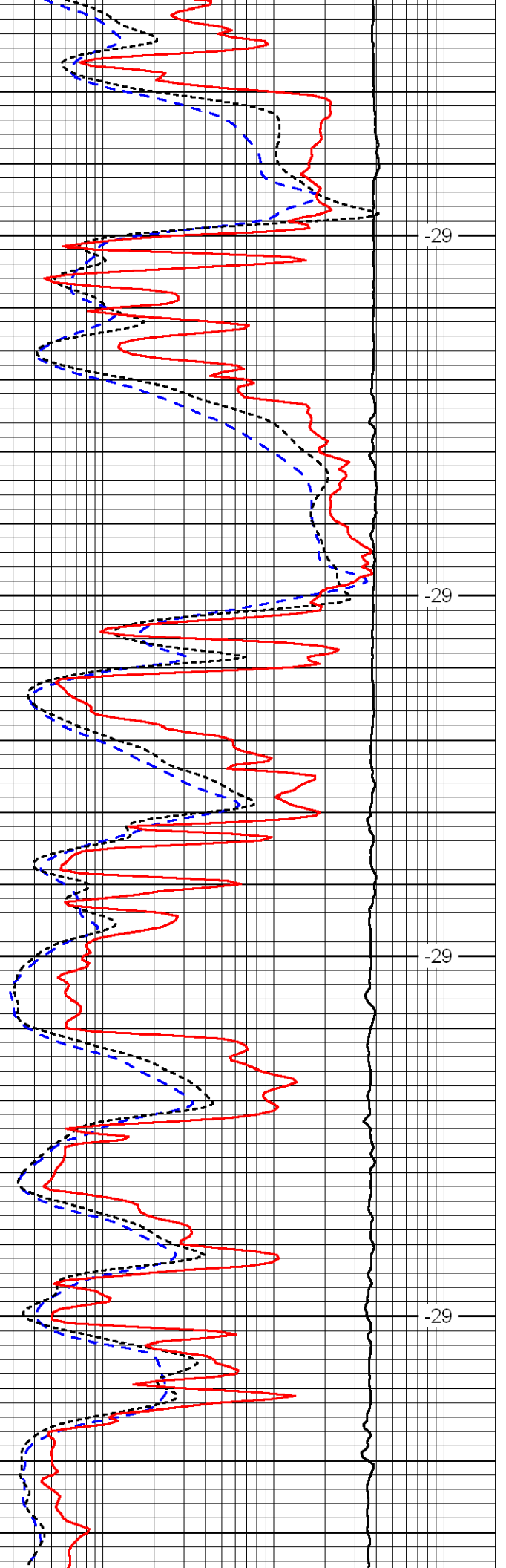


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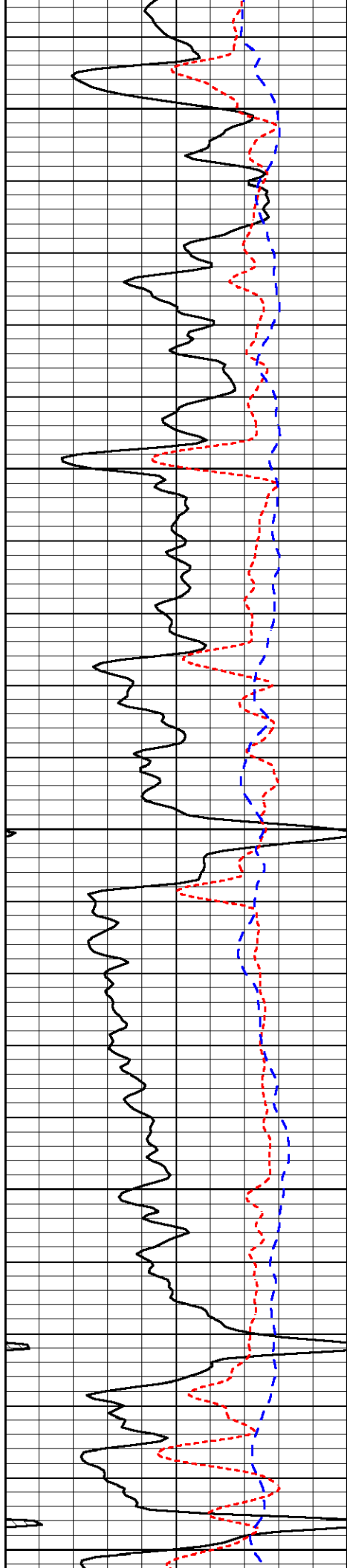


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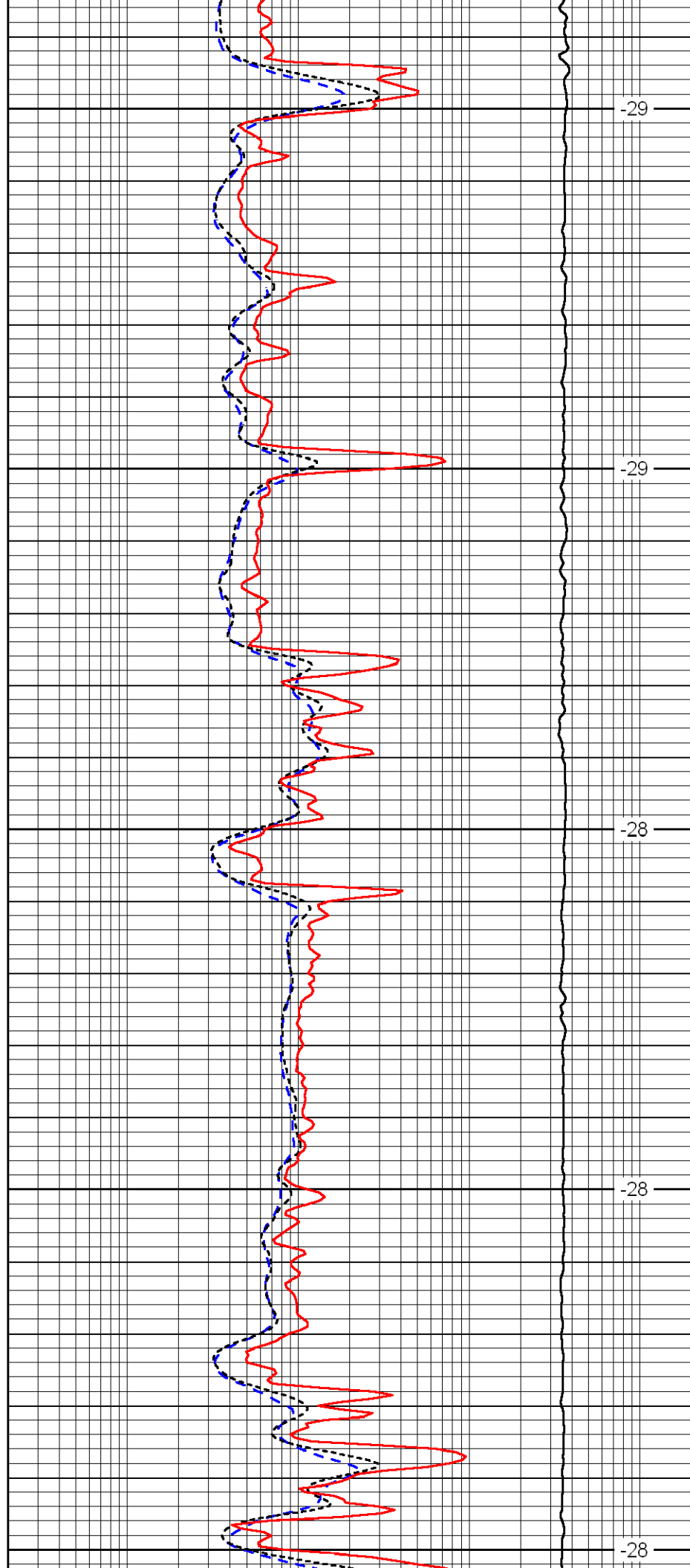
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4150

4200

4250

4300



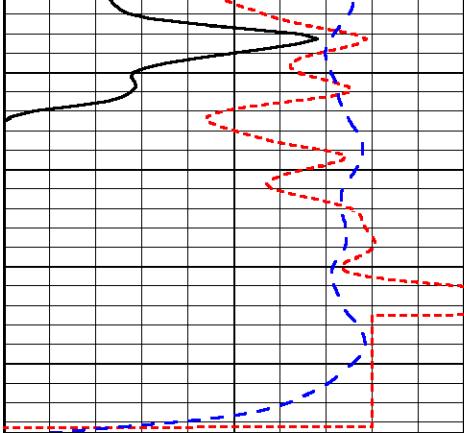
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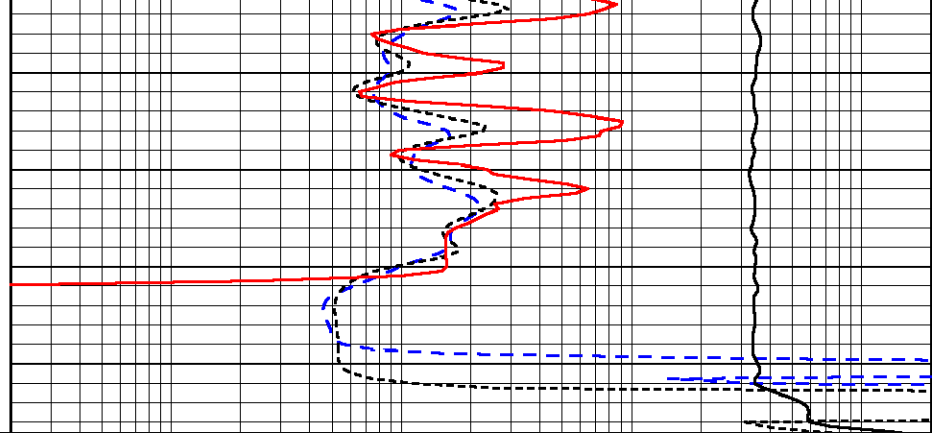
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-28

-28



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



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

LSPD



Pioneer Energy Services

Gamma Ray / Neutron Log

15-065-23849-00-00

Company Thomason Petroleum, Inc.
Well Bollig #1
Field Ambrose
County Graham
State Kansas

Location
 1940' FNL & 1480' FEL

Sec: 21 **Twp:** 10S **Rge:** 25W

Other Services
 CNL/CDL
 MEL/DIL

Permanent Datum Ground Level **Elevation** 2507
Log Measured From Kelly Bushing **8 Ft. Above Perm. Datum**
Drilling Measured From Kelly Bushing

Elevation
 K.B. 2515
 D.F.
 G.L. 2507

Date 10/13/2012

Run Number Two

Type Log GRN

Depth Driller 4340

Depth Logger 4342

Bottom Logged Interval 4331

Top Logged Interval 3000

Type Fluid In Hole Chemical

Salinity, PPM CL 3500

Density 9.3

Level Full

Max. Rec. Temp. F 121

Operating Rig Time 5 Hours

Equipment -- Location 10 Hays

Recorded By D. Schmidt

Witnessed By Jeff Lawler

Borehole Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	223	8.625	23#	00	2.23
Two	7.875	223	TD				

Casing Record

<<< Fold Here >>>

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Comments

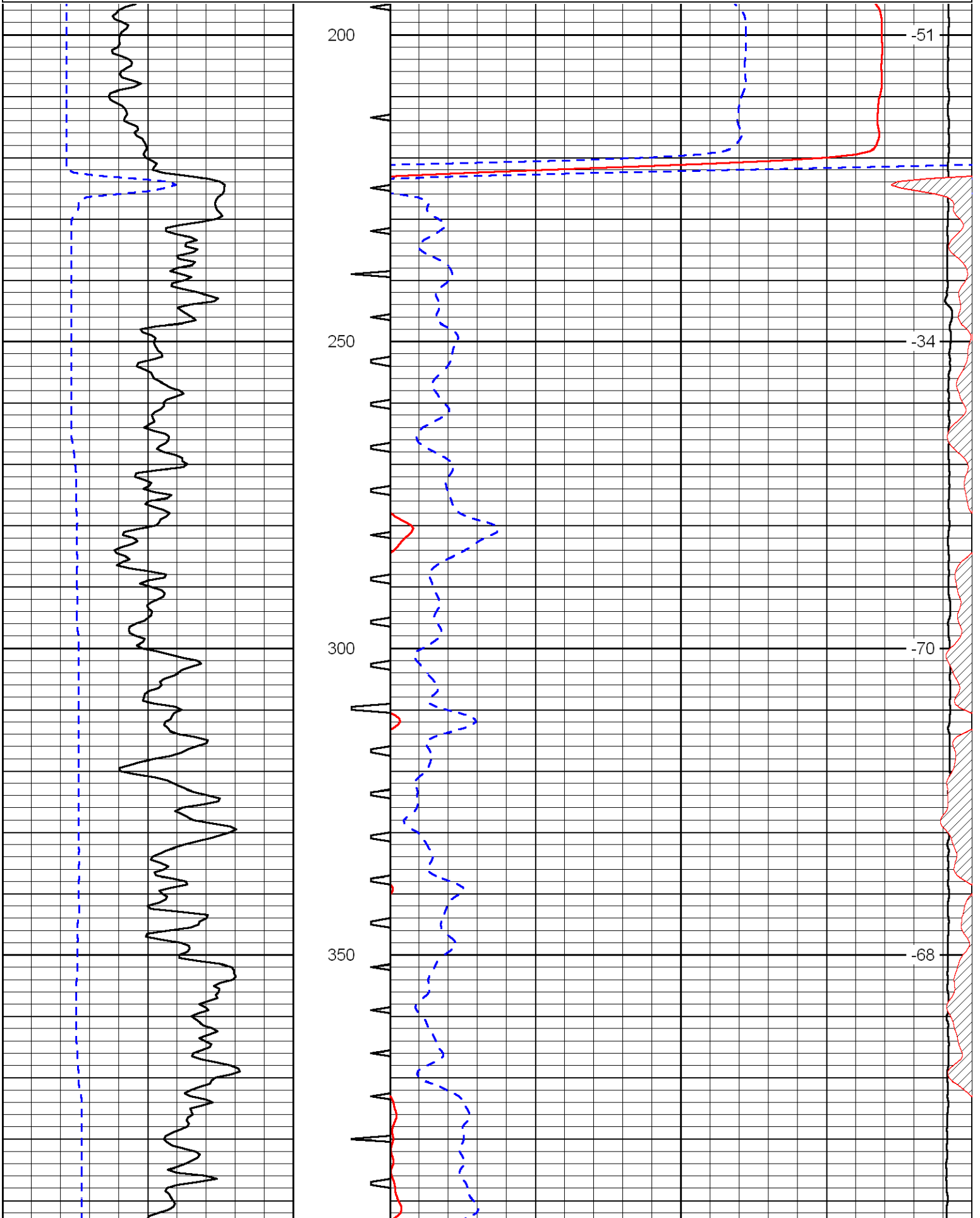
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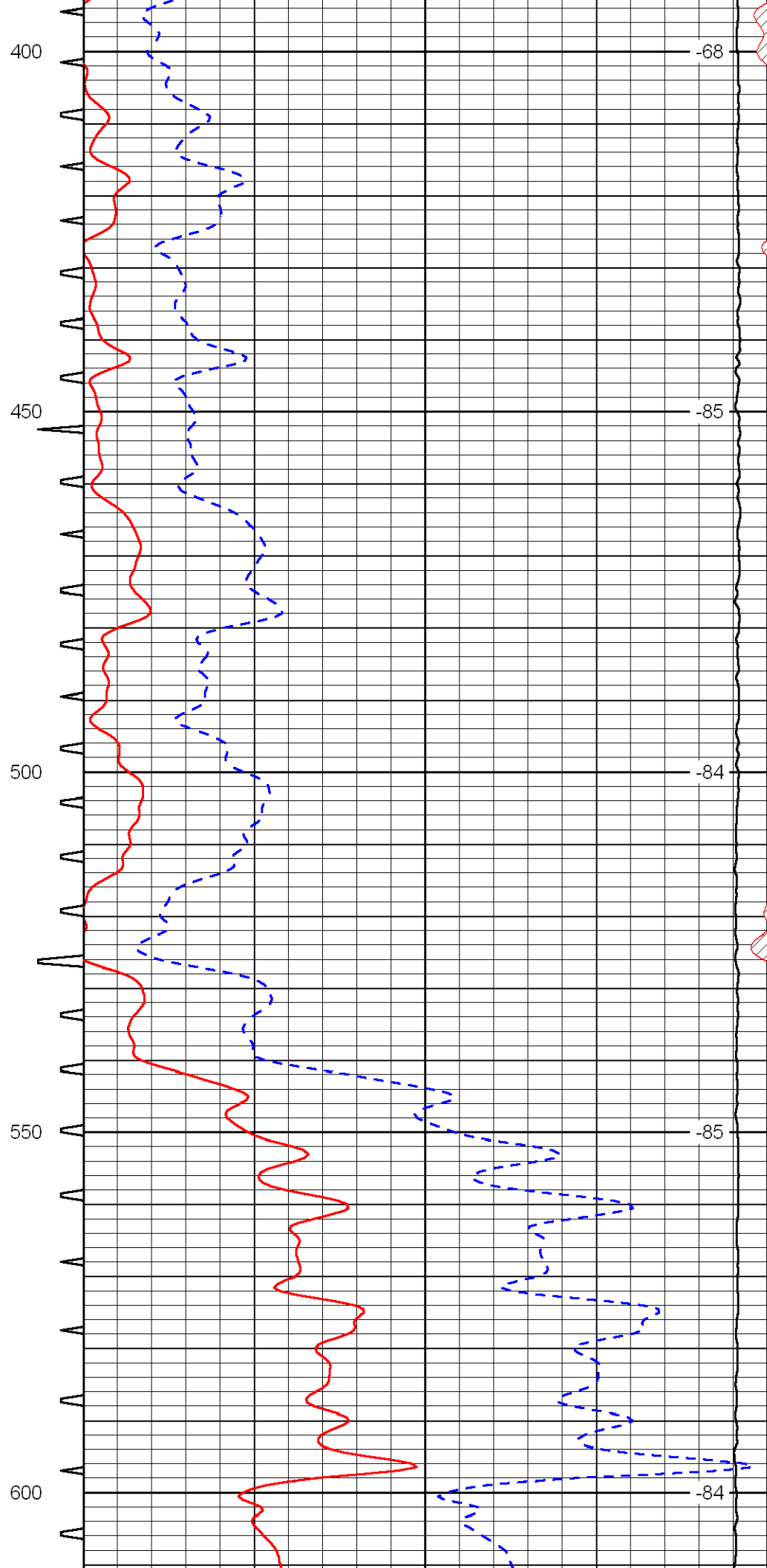
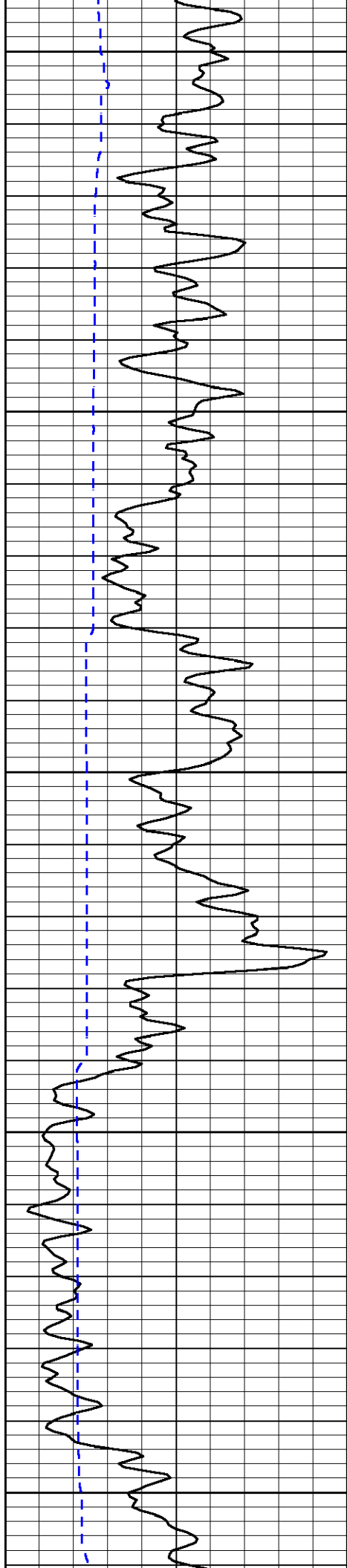
 I-70 & Collyer Exit,
 North to Old Hwy 40, 1 East to 240th, North to Rawlins Co. C Rd,
 1 West, 1/2 North, West into

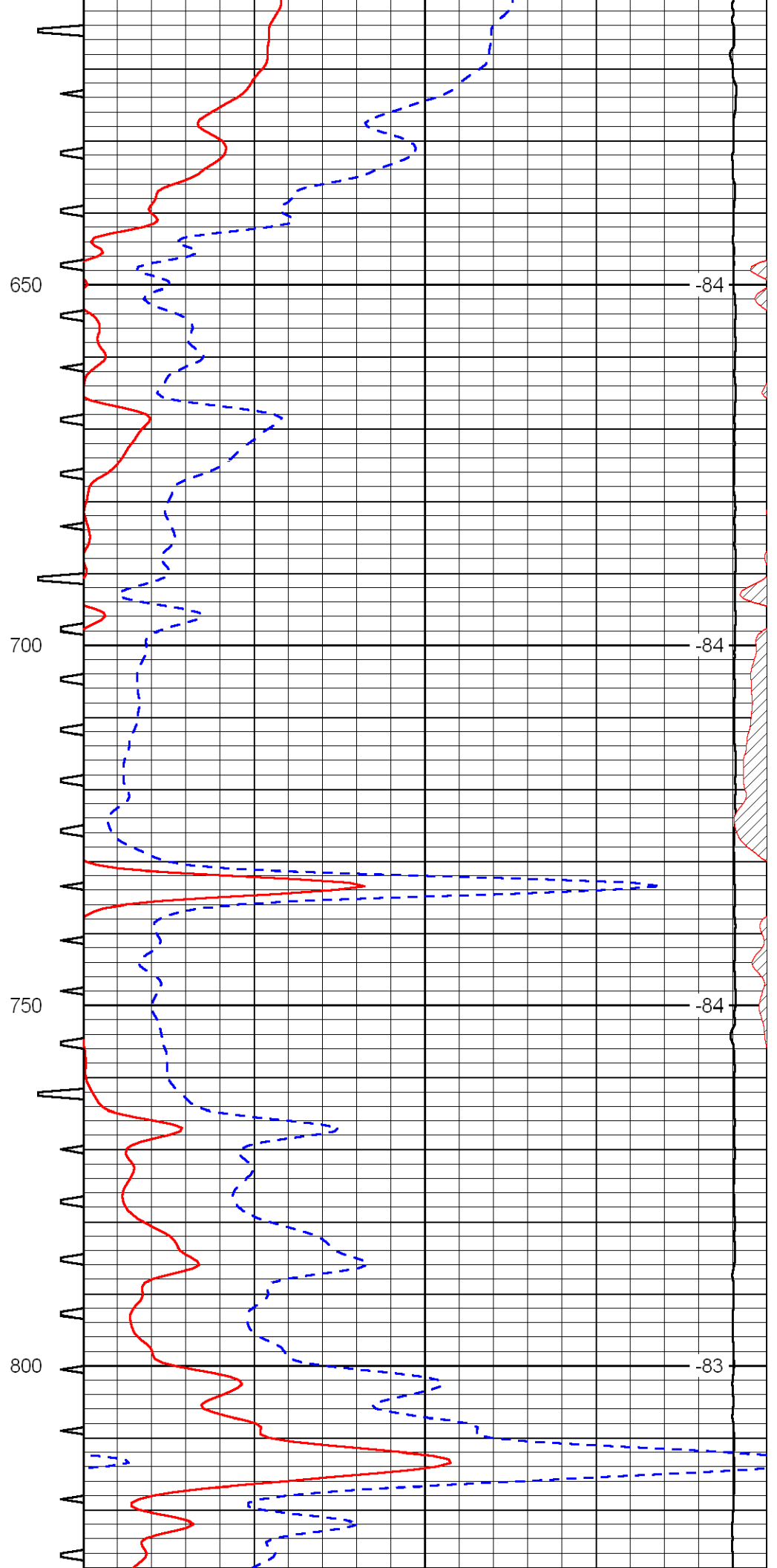
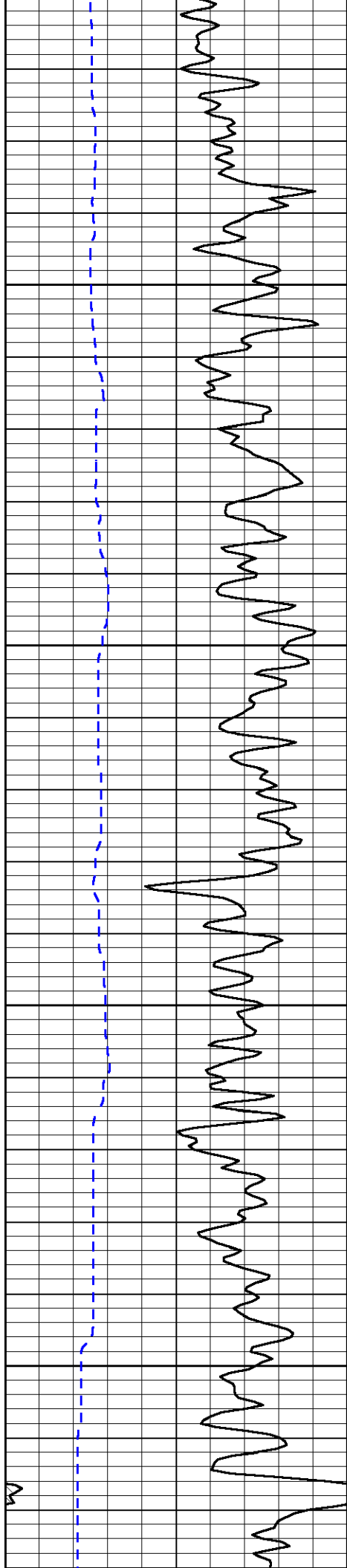
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 Presentation Format: sonic
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 Charted by: Depth in Feet scaled 1:240

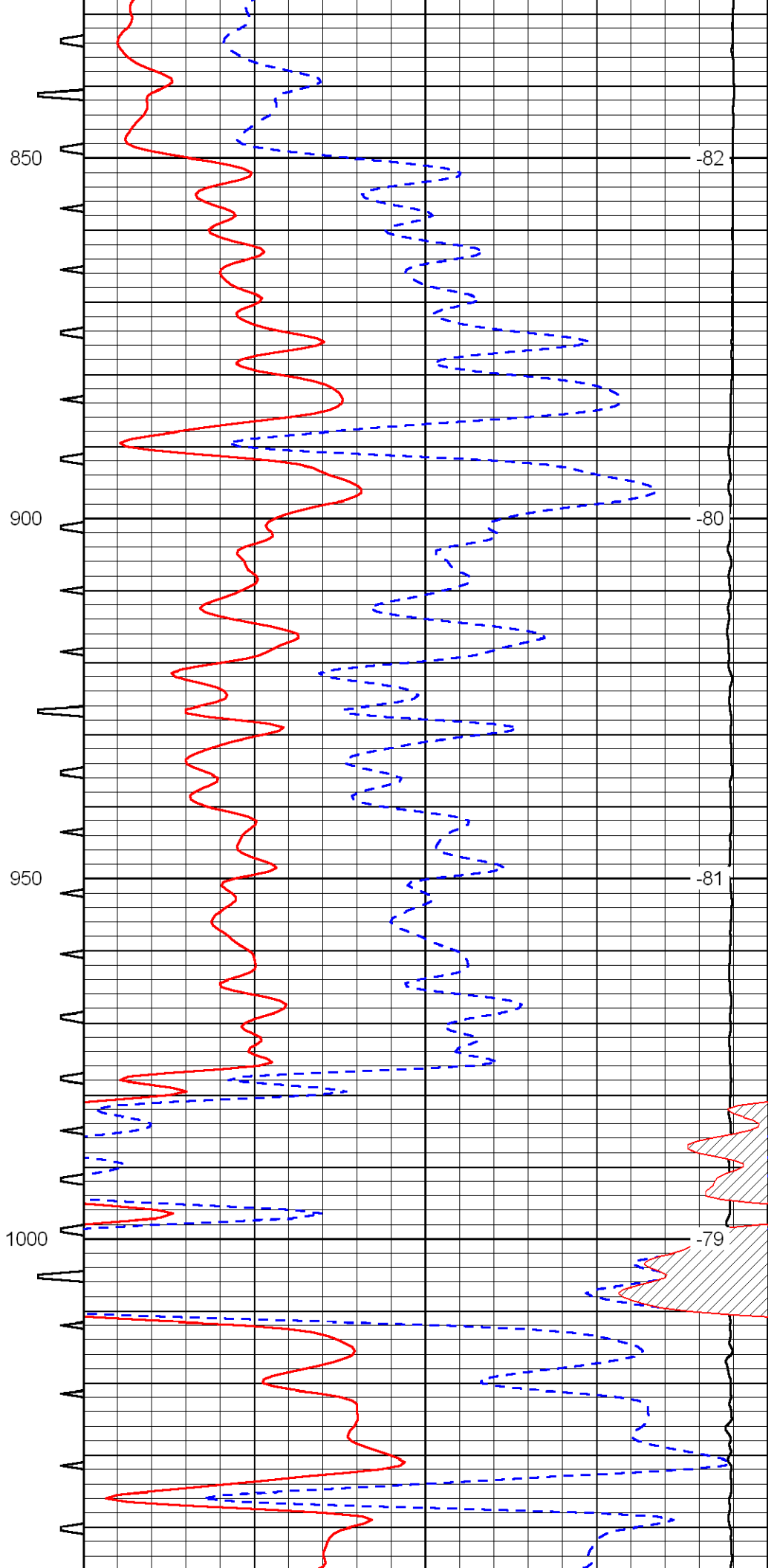
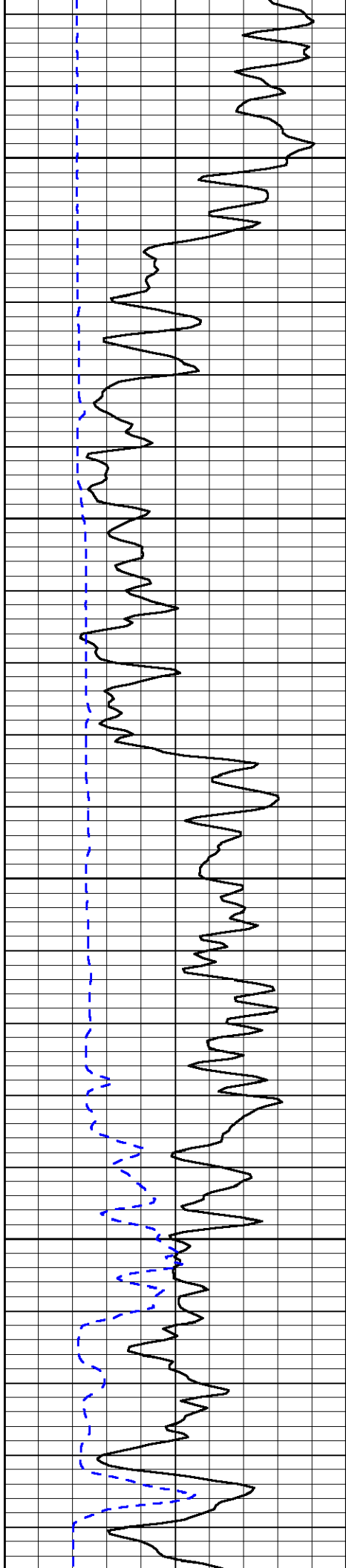
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0

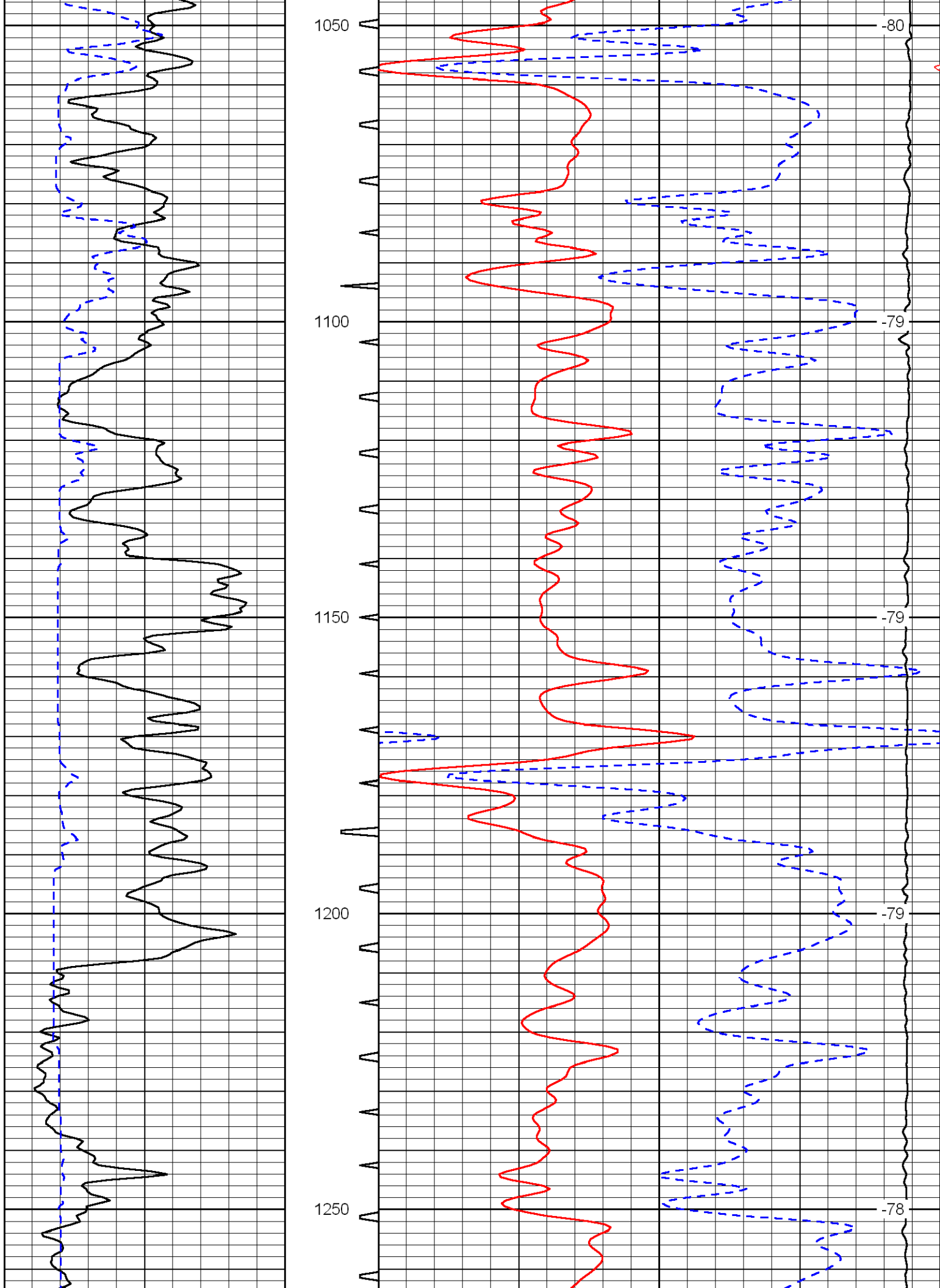
LSPD

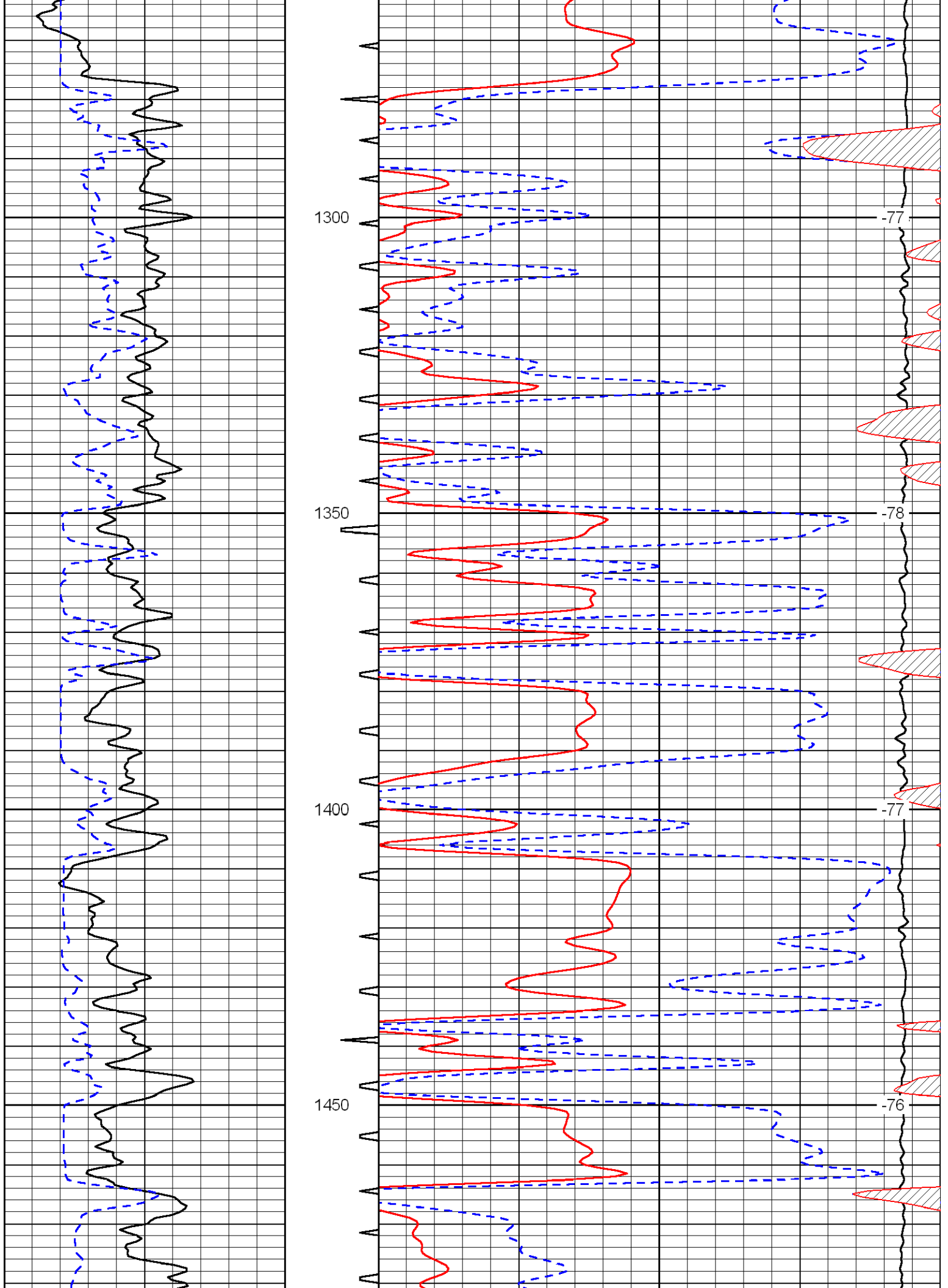


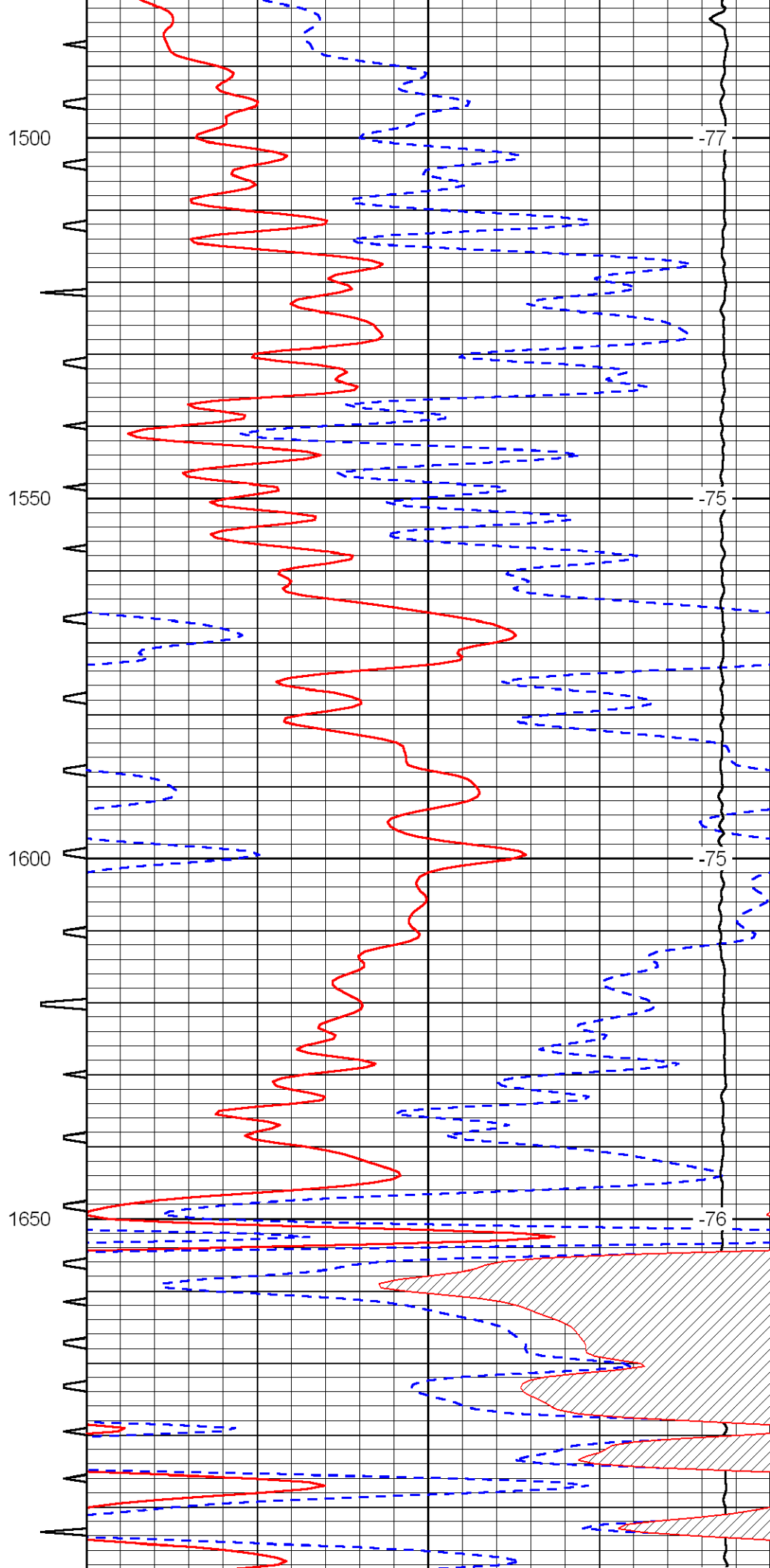
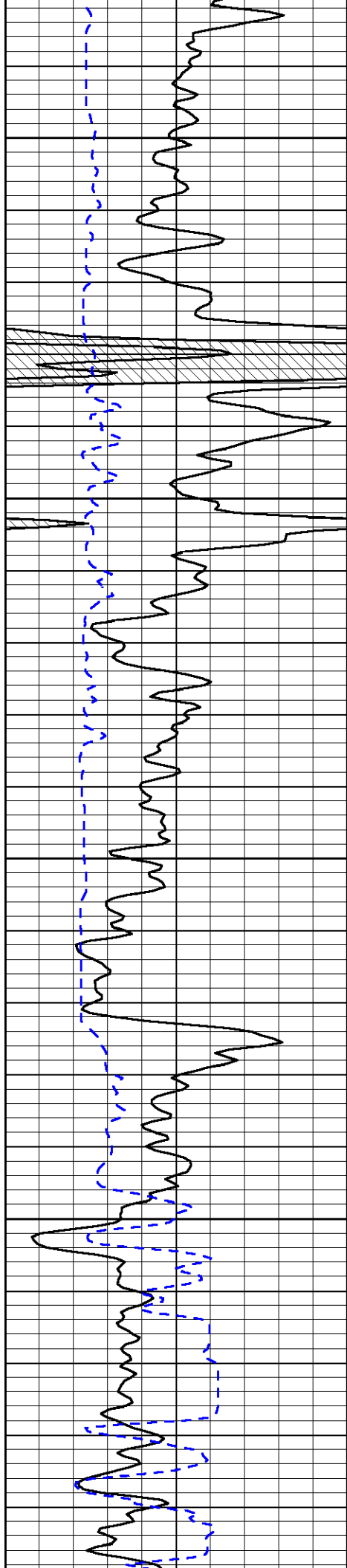


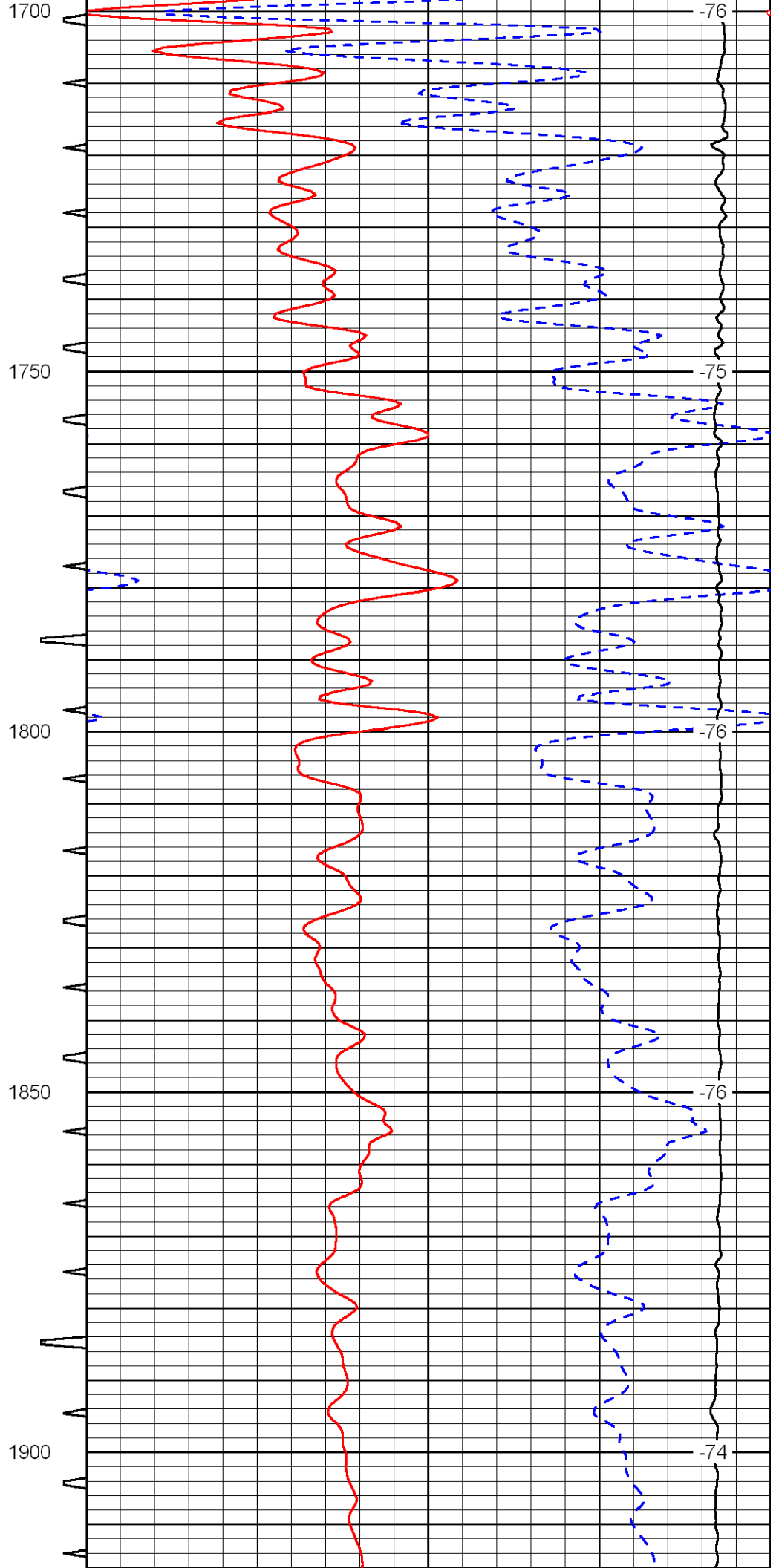
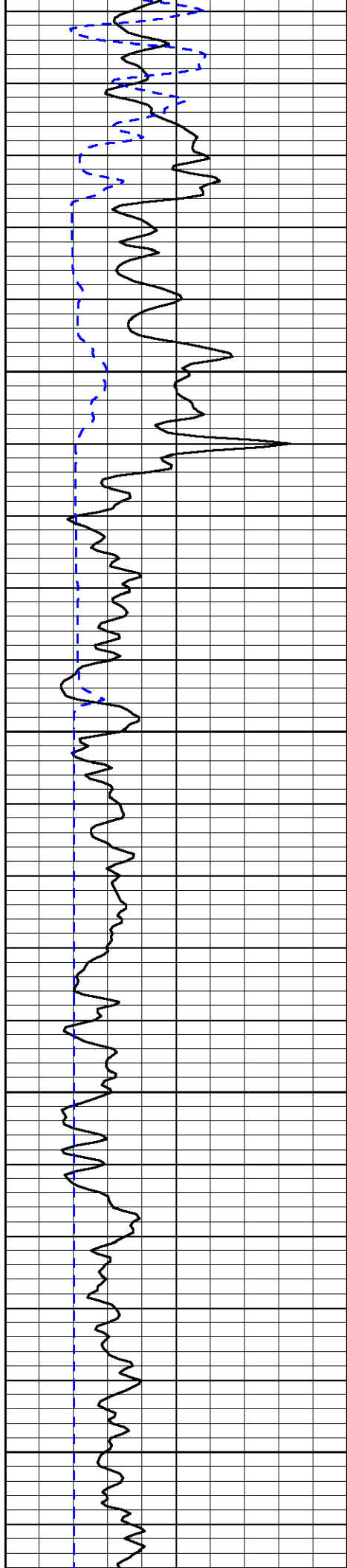


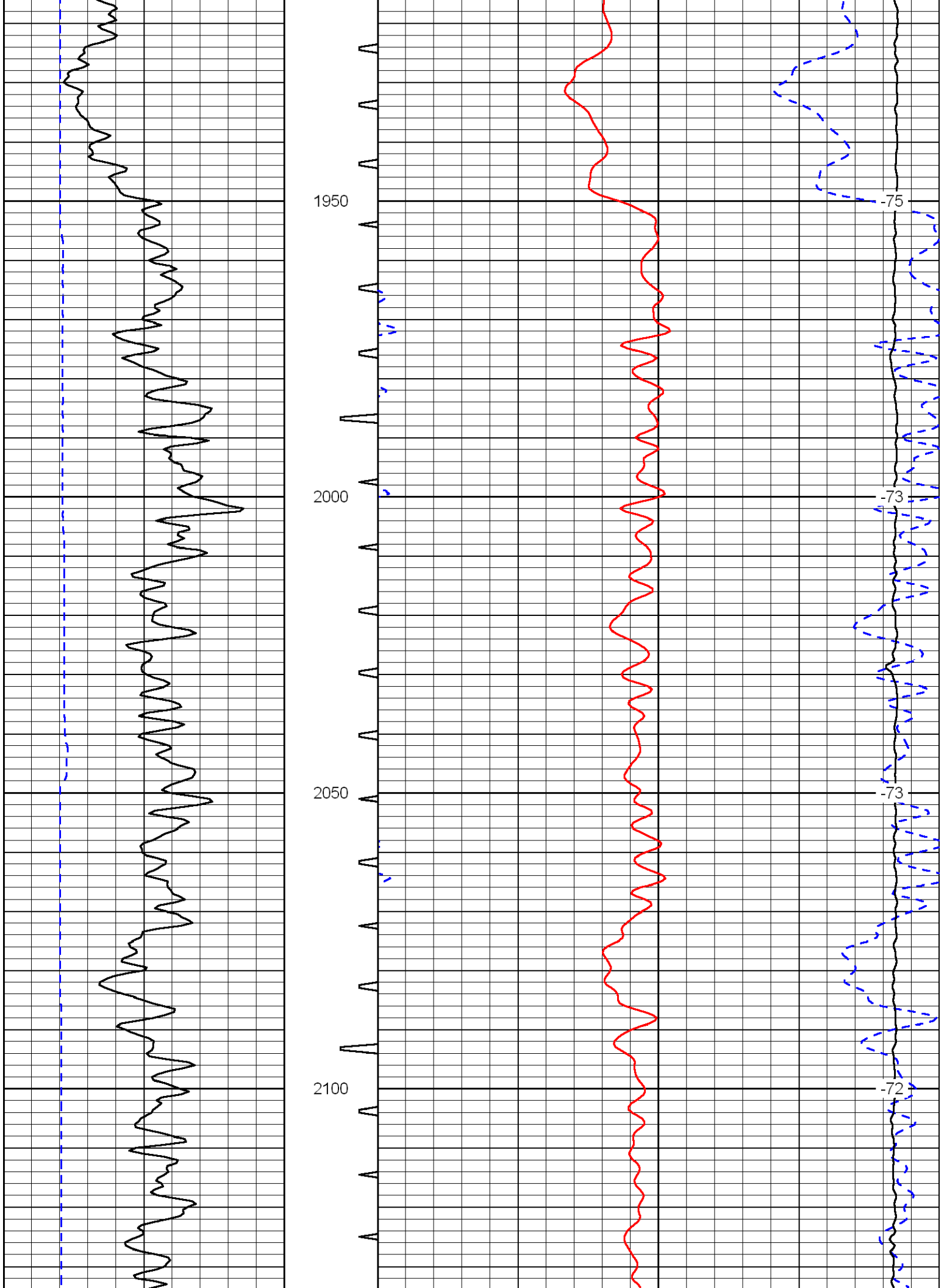


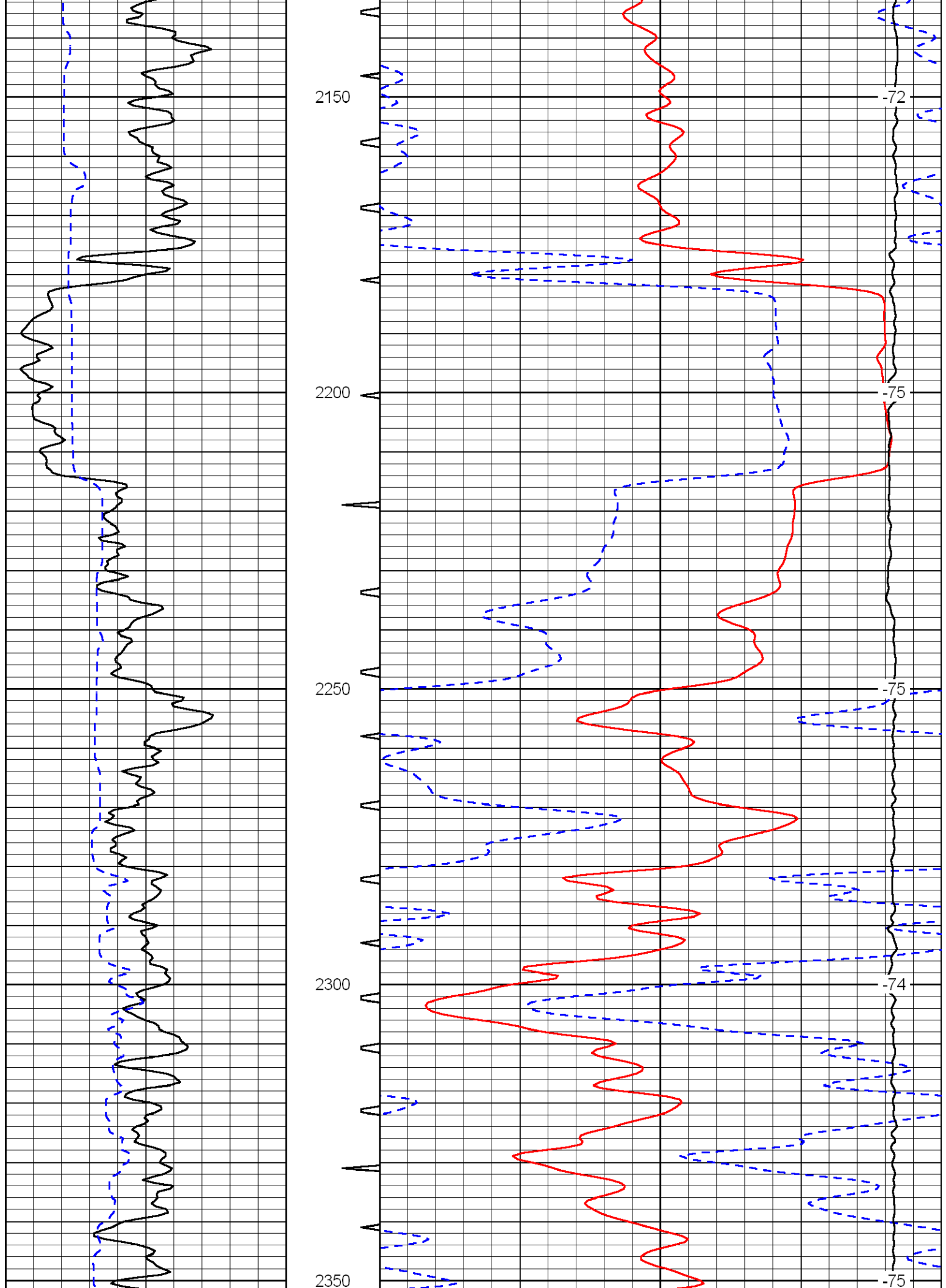


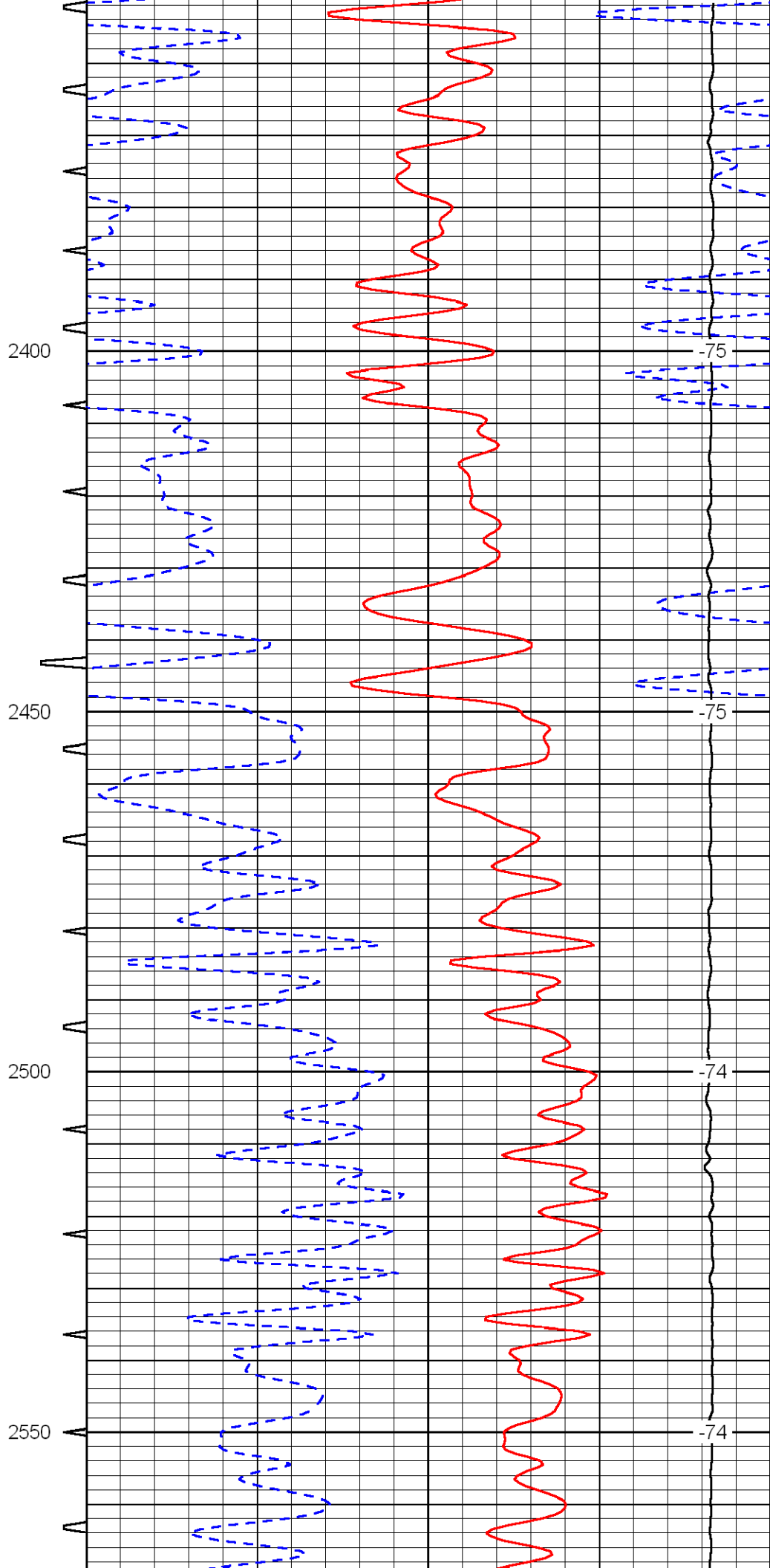
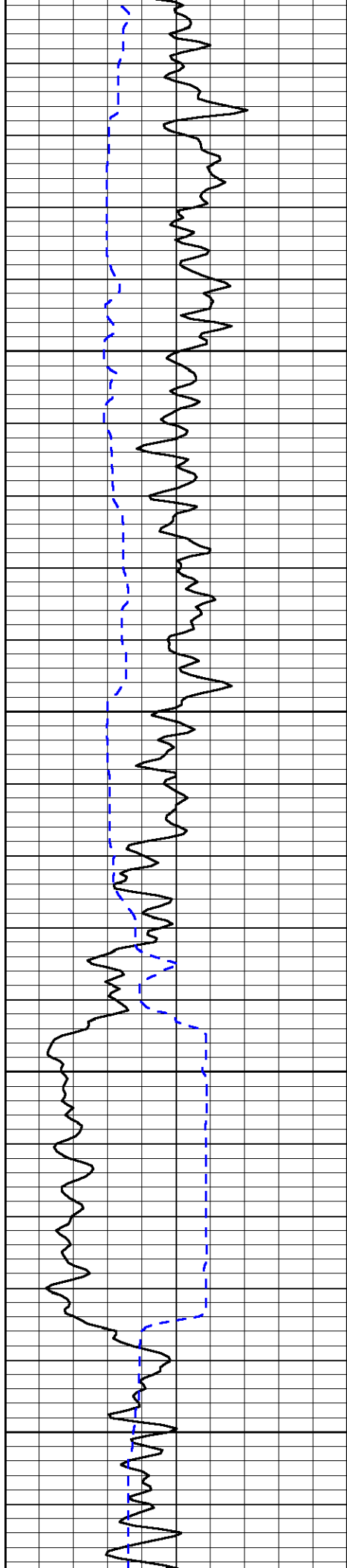


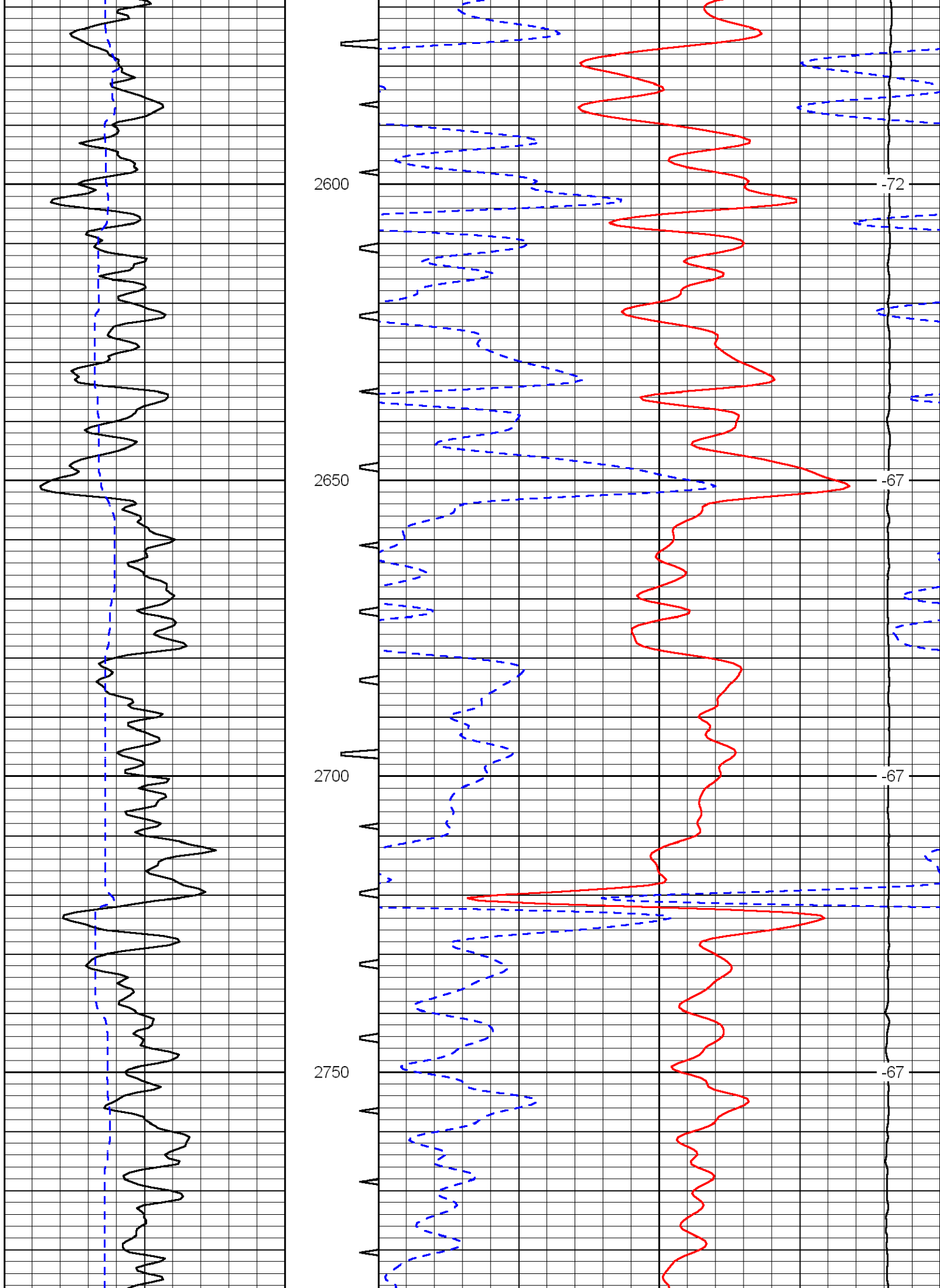


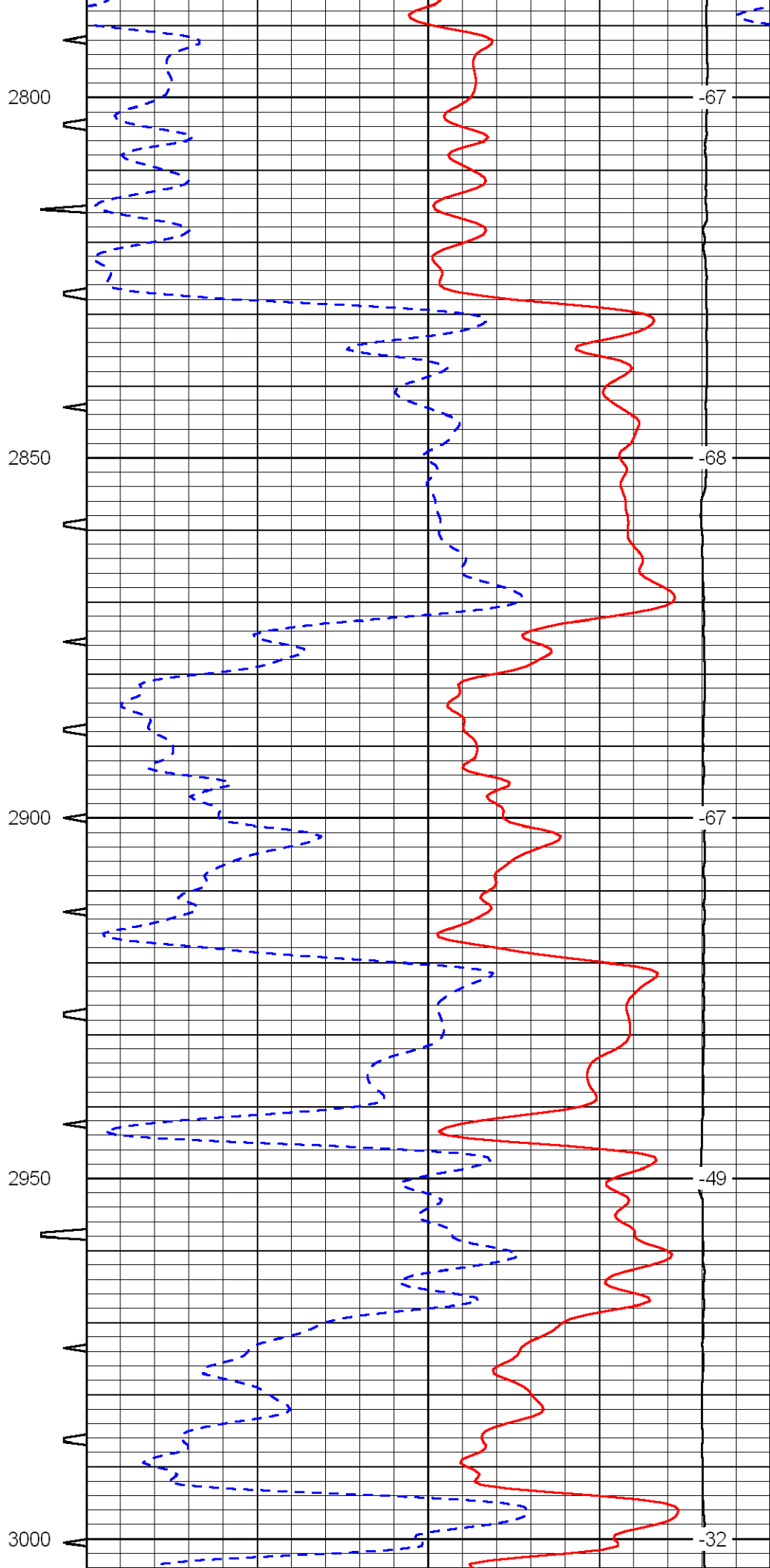
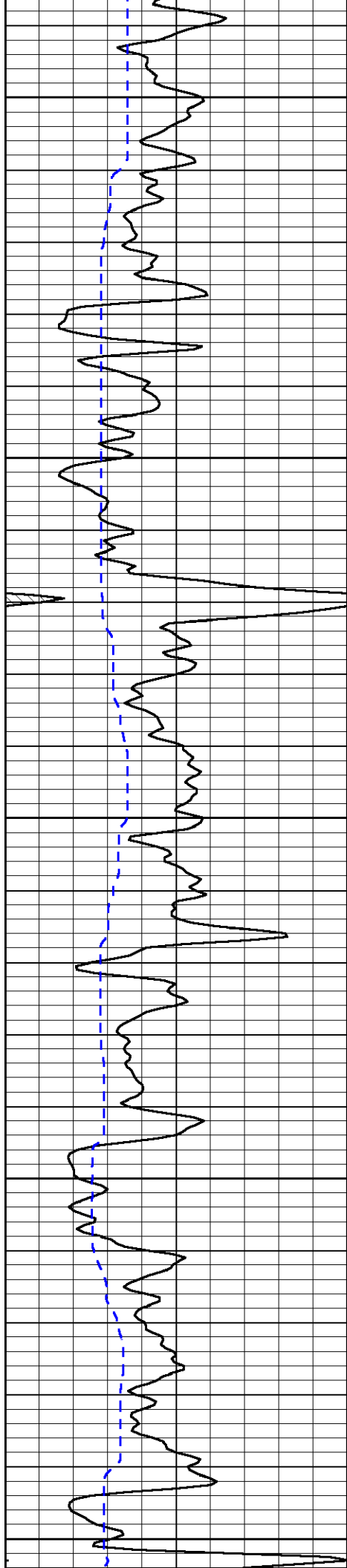


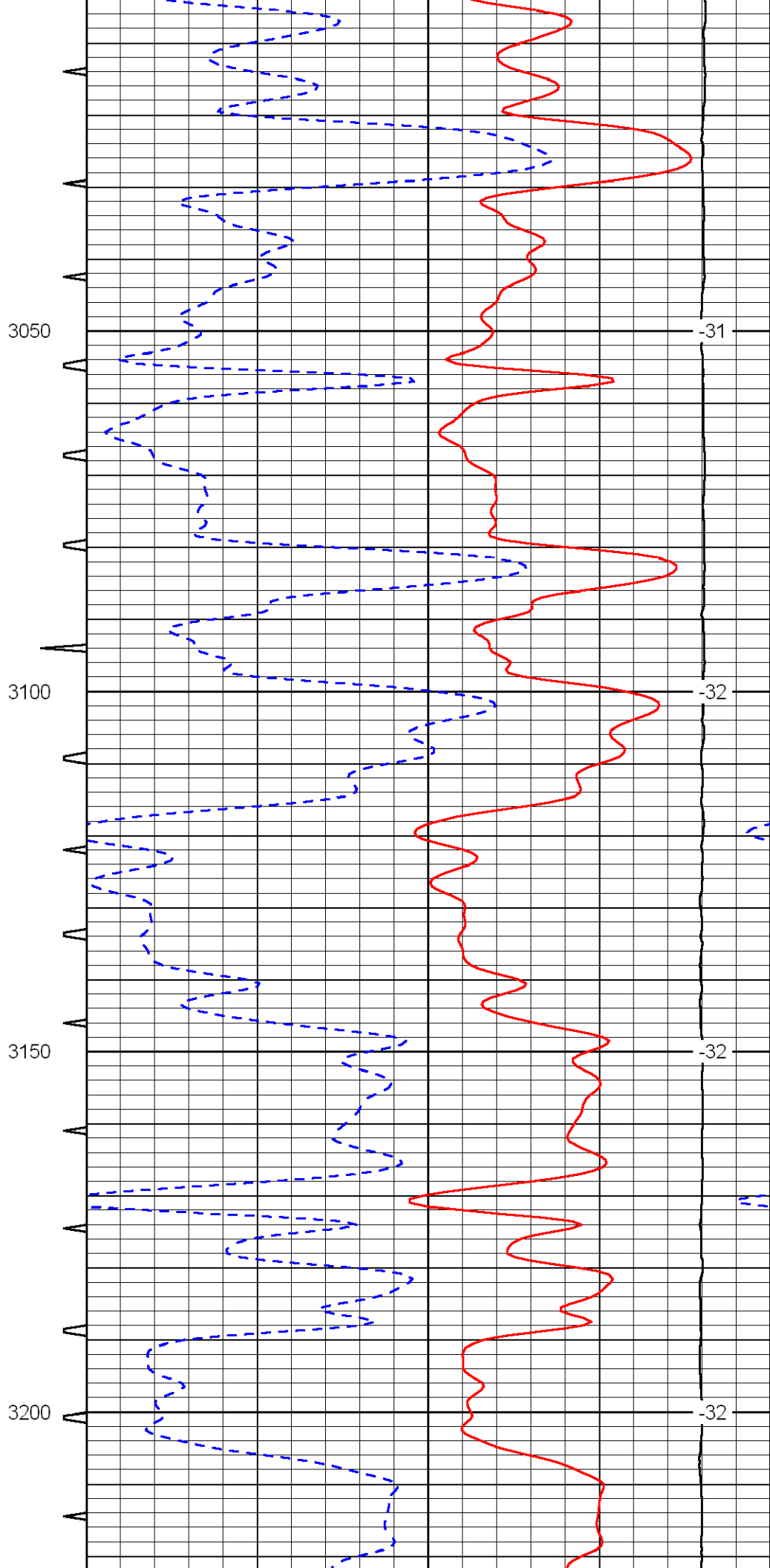
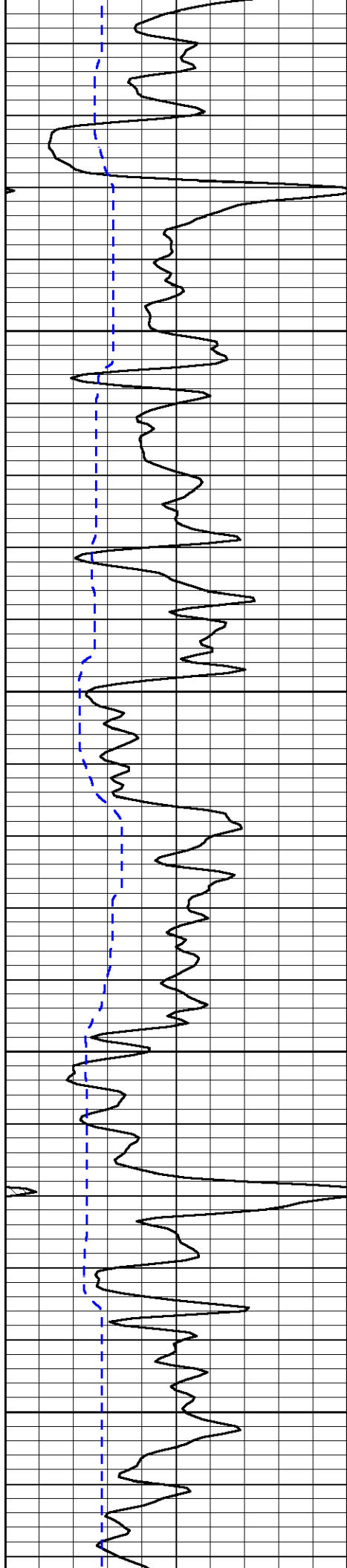


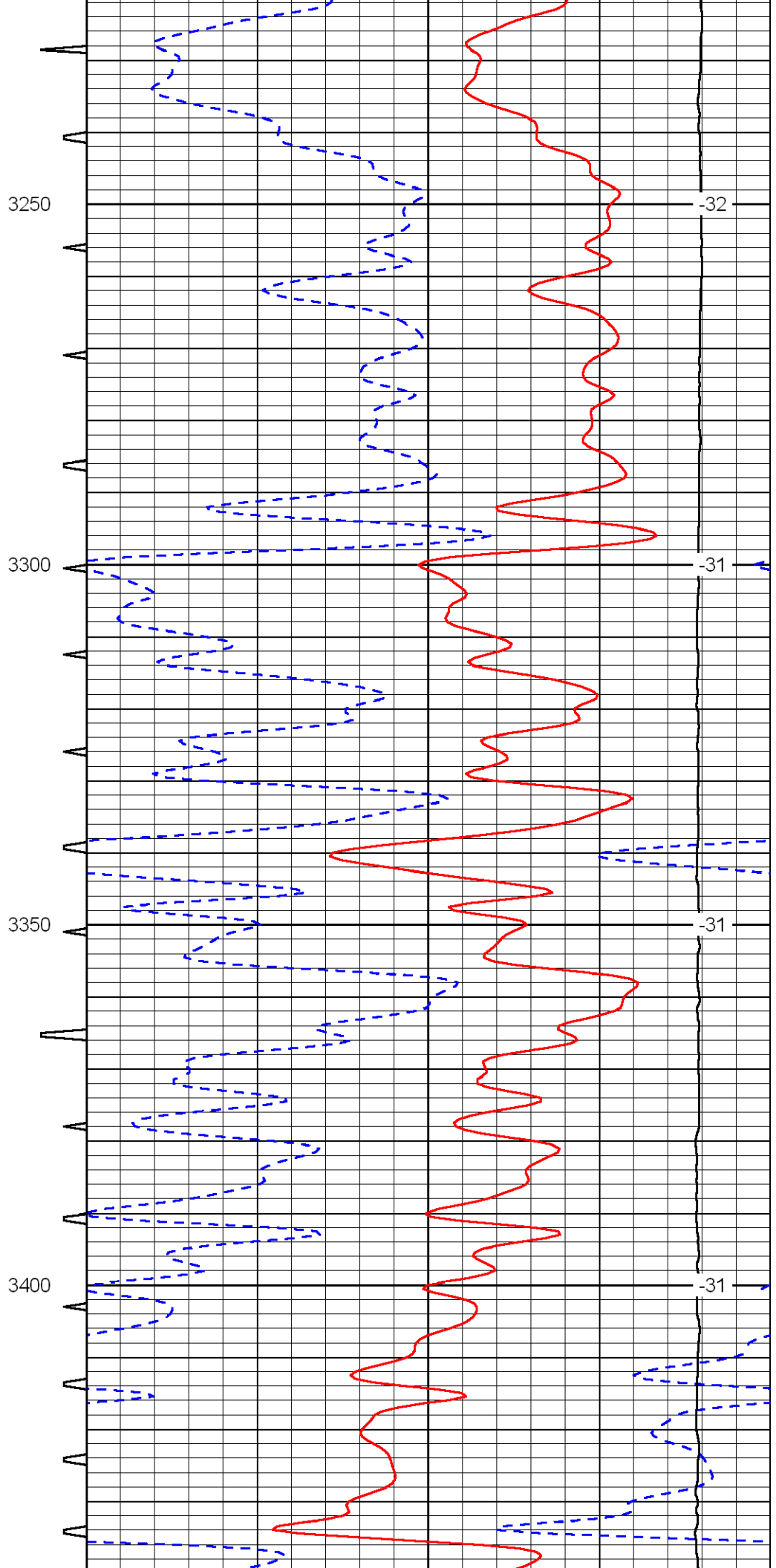
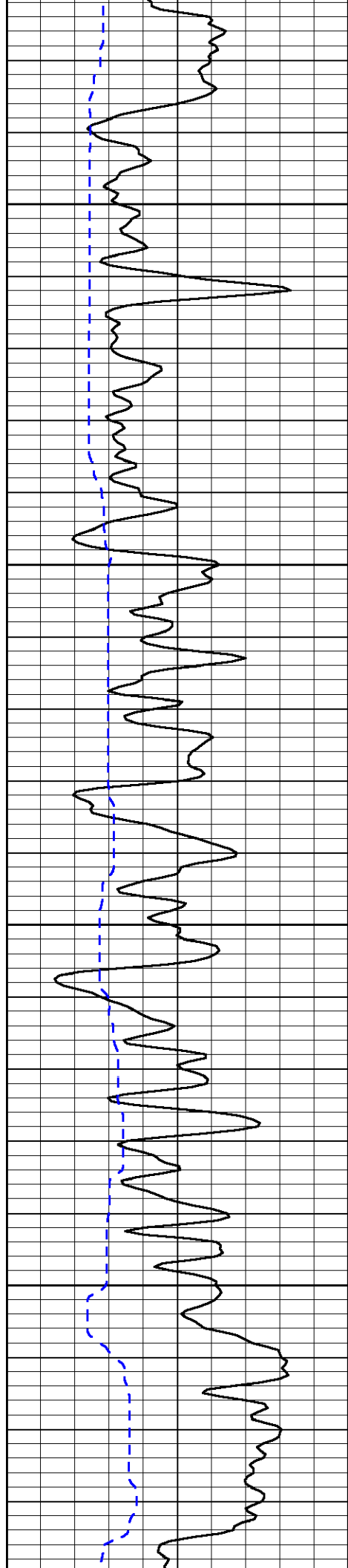


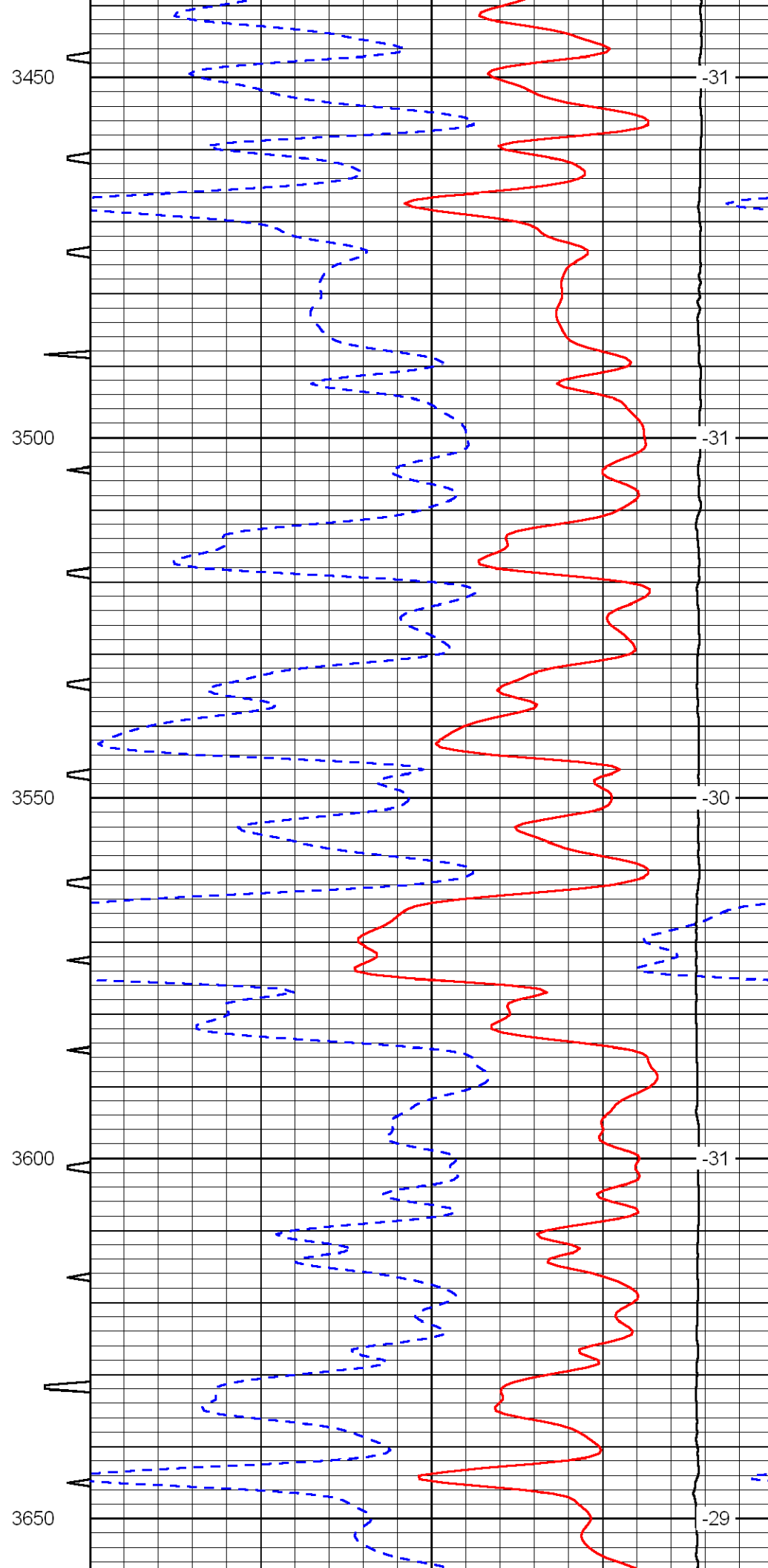
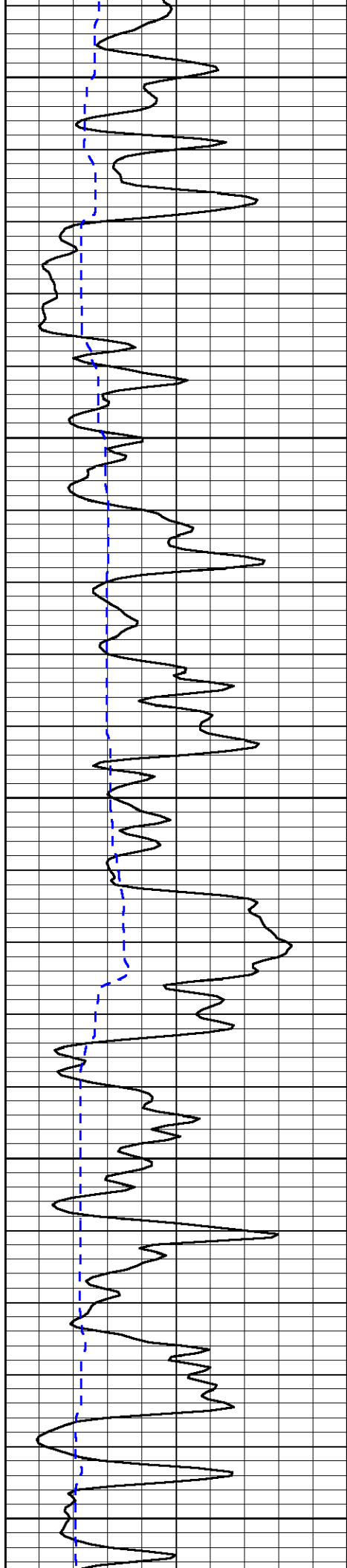


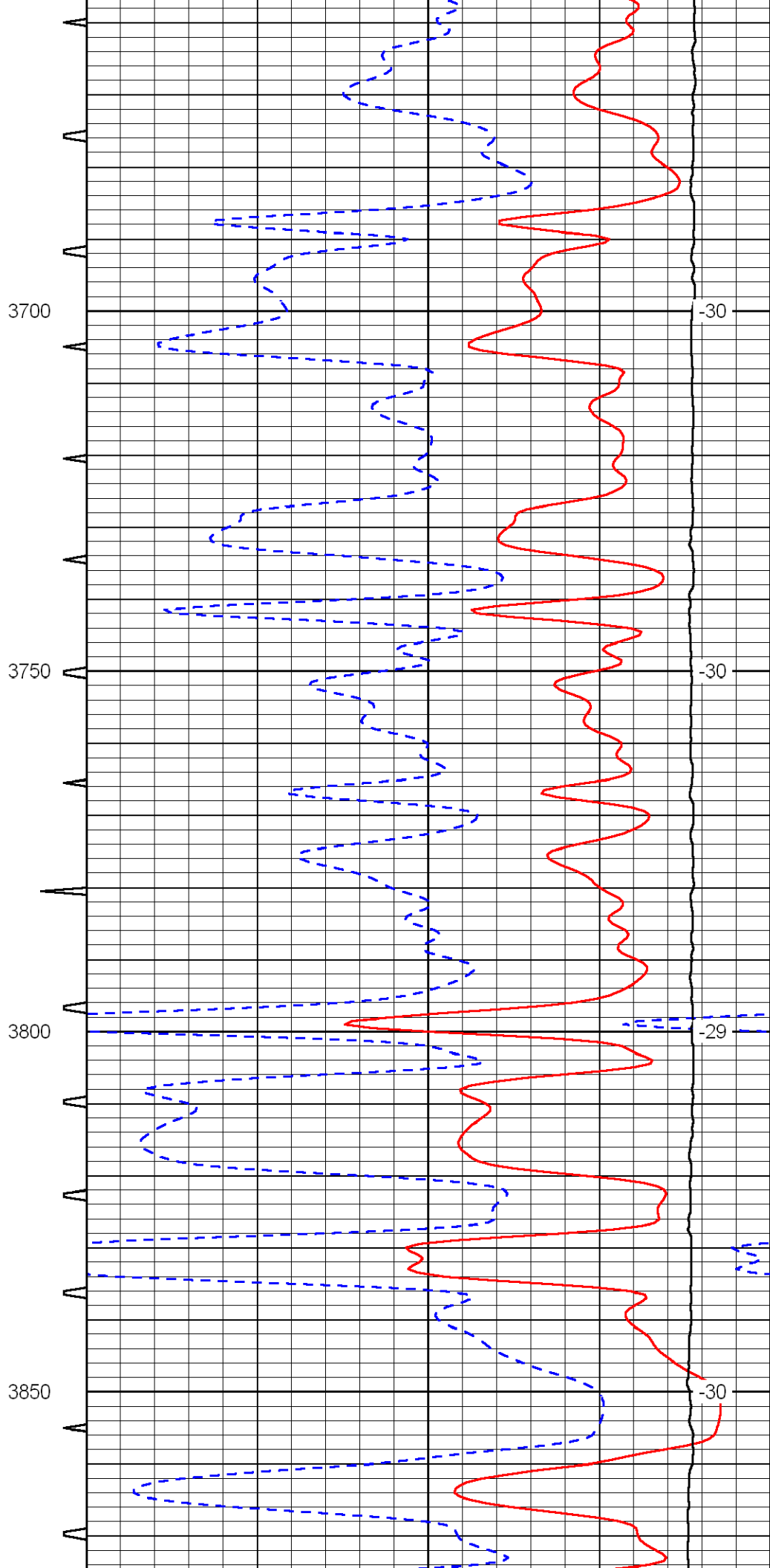
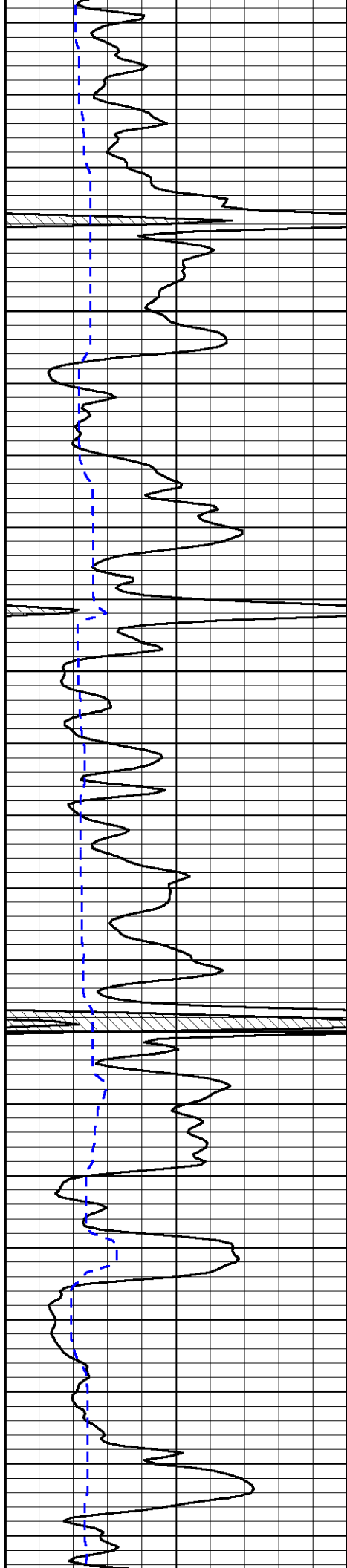


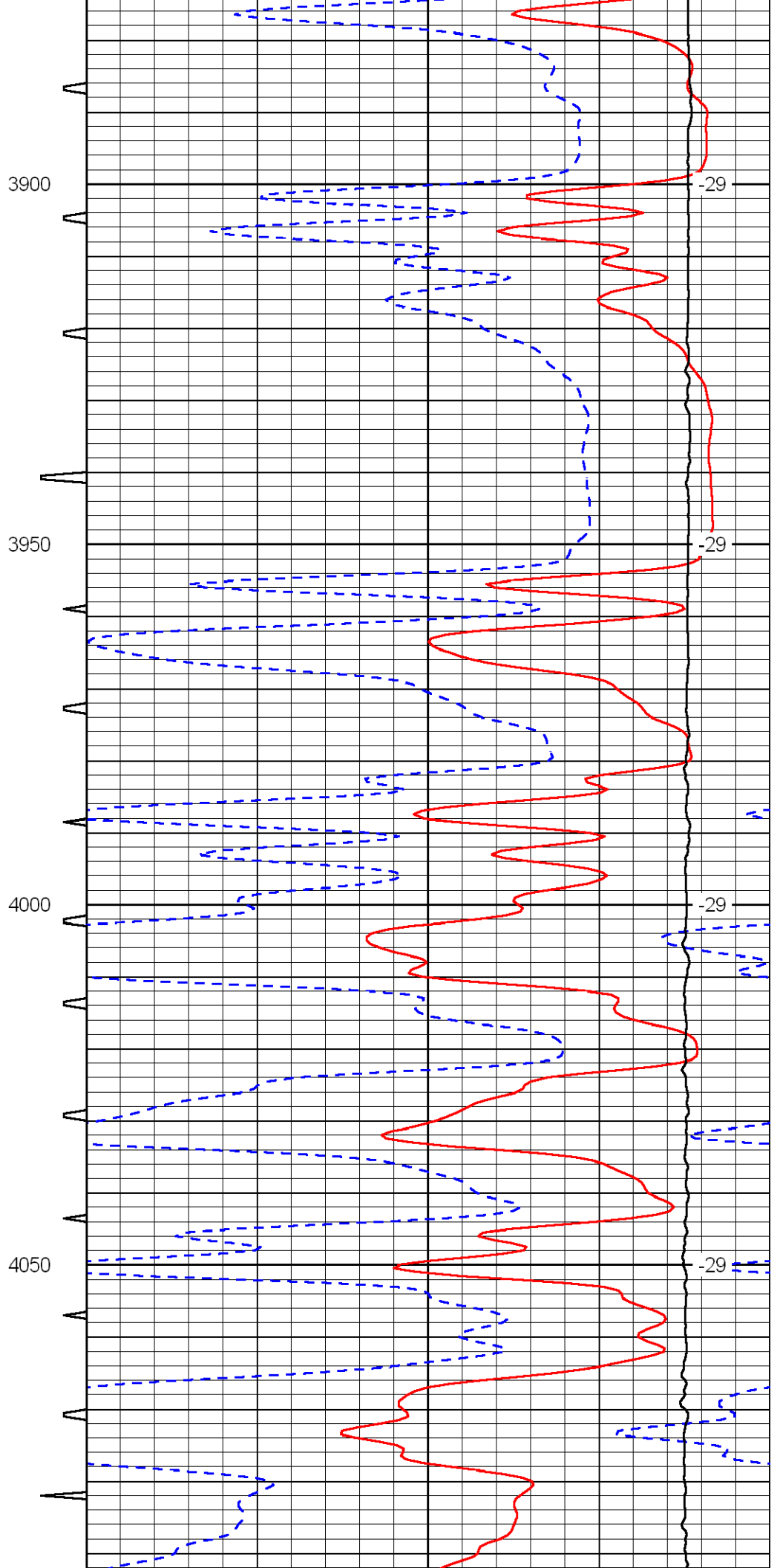
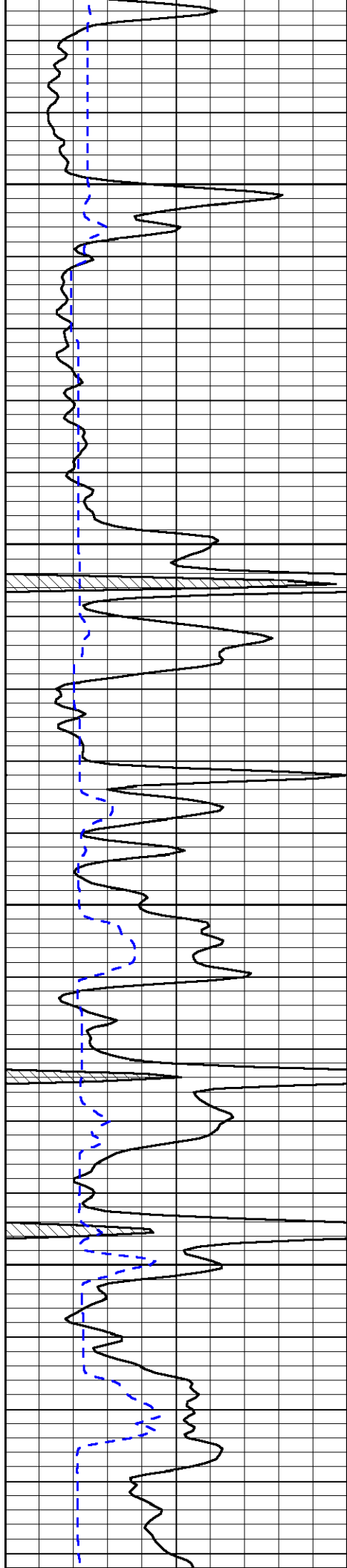


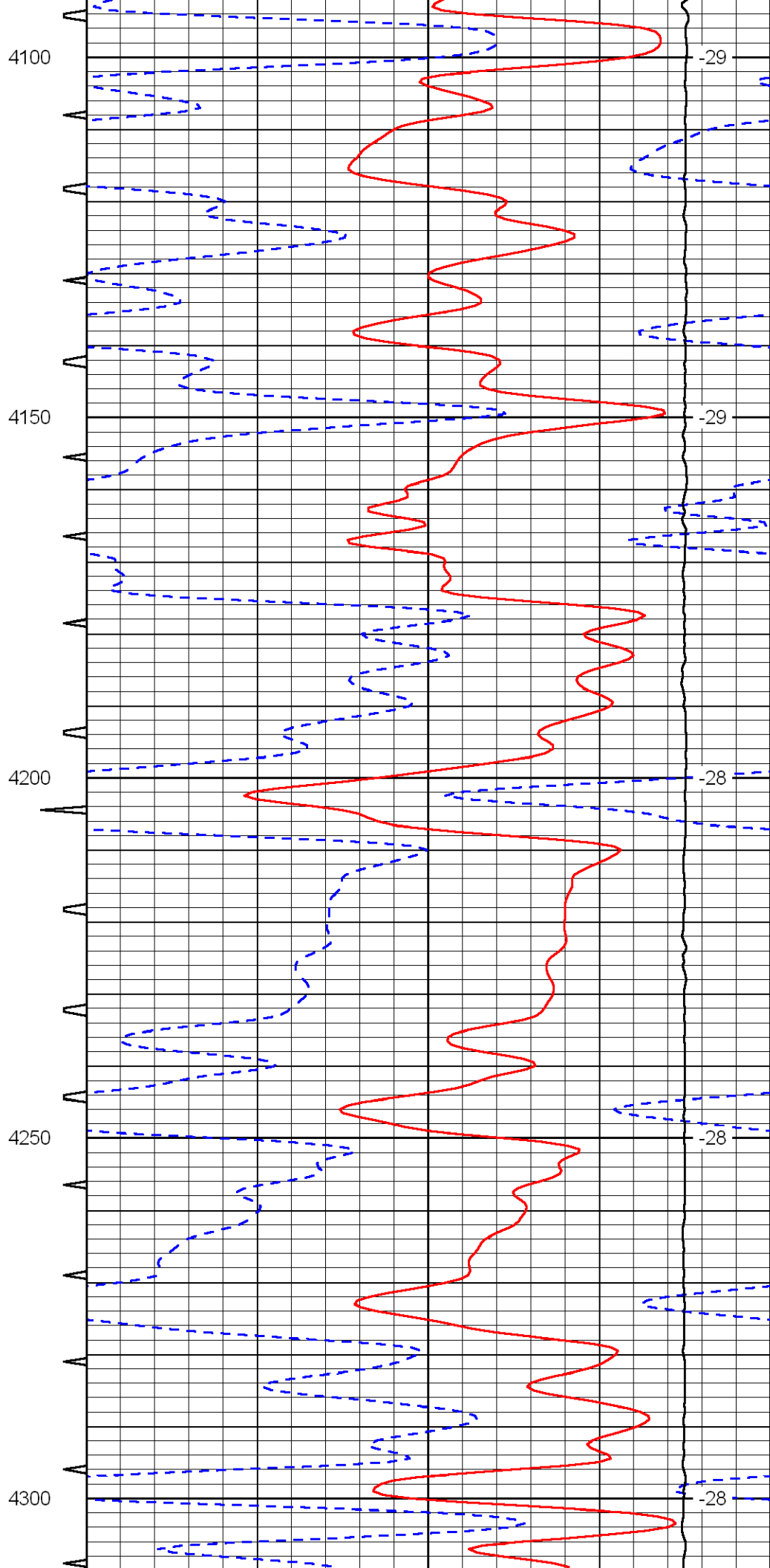
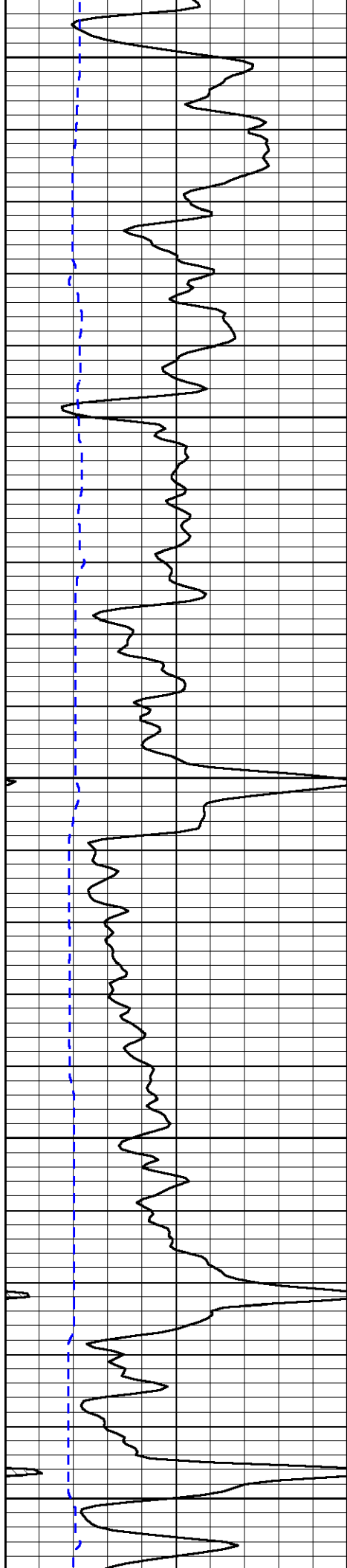


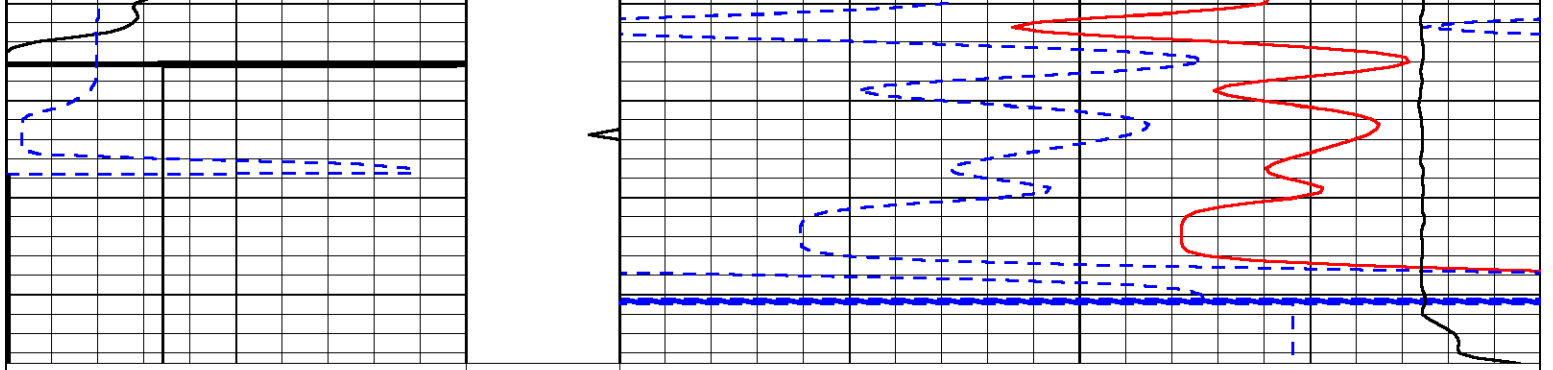












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
						LSPD



Pioneer Energy Services

Microresistivity Log

API No.	15-065-23849-00-00	
Company	Thomason Petroleum, Inc.	
Well	Bolling #1	
Field	Ambrose	
County	Graham	State
		Kansas
Location	1940' FNL & 1480' FEL	
Sec: 21	Twp: 10S	Rge: 25W
Permanent Datum	Ground Level	Elevation 2507
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL DIL/BHCS
		Elevation K.B. 2515 D.F. 2507 G.L. 2507

Date	10/13/2012
Run Number	Two
Depth Driller	4340
Depth Logger	4342
Bottom Logged Interval	4341
Top Log Interval	3000
Casing Driller	8.625 @ 223
Casing Logger	223
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3500
Density / Viscosity	9.3 67
pH / Fluid Loss	8.5 8.4
Source of Sample	Flowline
Rm @ Meas. Temp	0.56 @ 66
Rmf @ Meas. Temp	0.42 @ 66
Rmc @ Meas. Temp	0.76 @ 66
Source of Rmf / Rmc	Charts
Rm @ BHT	0.30 @ 121
Operating Rig Time	5 Hours
Max Rec. Temp. F	121
Equipment Number	91
Location	Hays
Recorded By	D. Schmidt
Witnessed By	Jeff Lawler

<<< 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

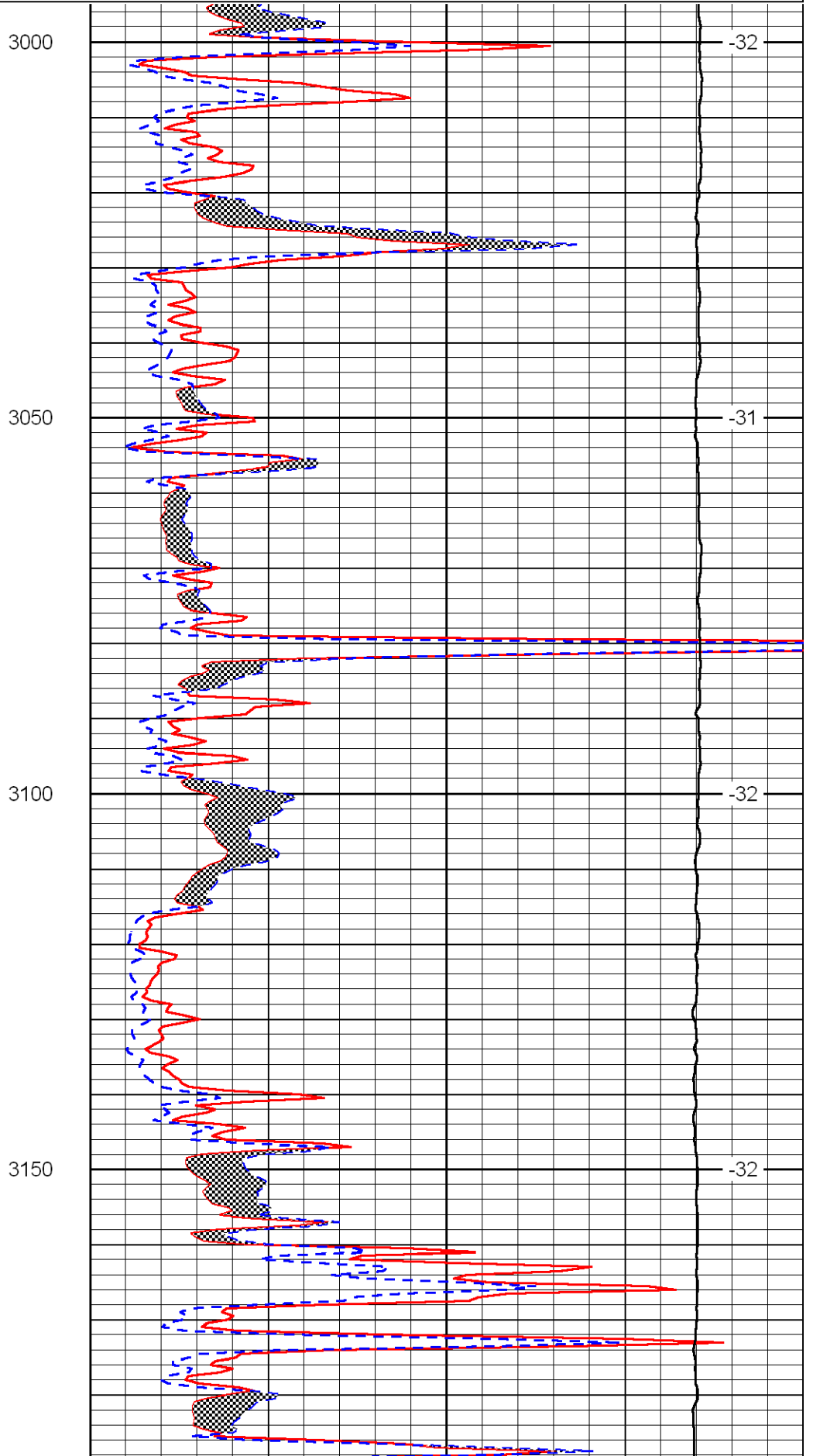
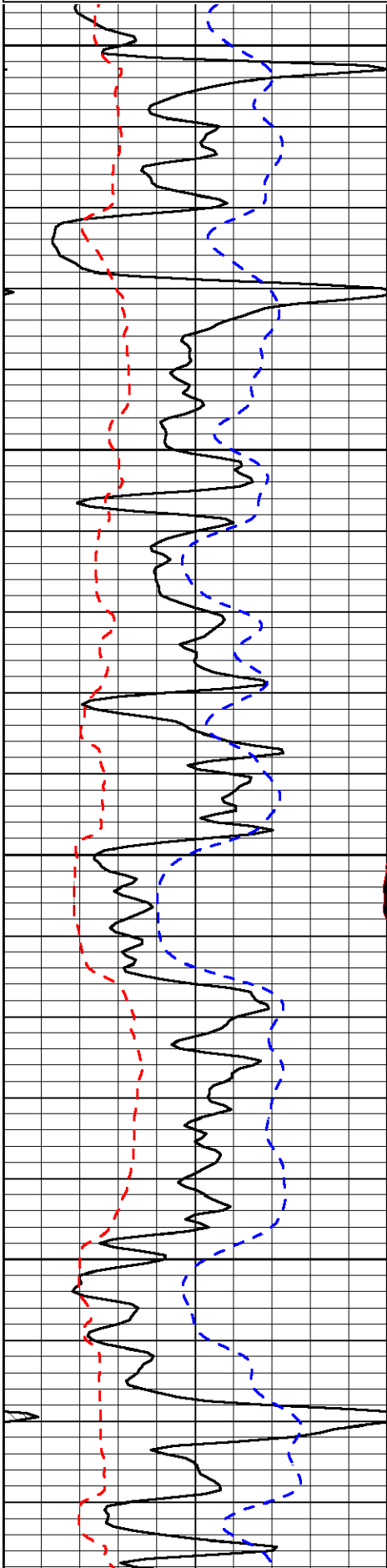
Thank you for using Log-Tech, Inc.
(785) 625-3858

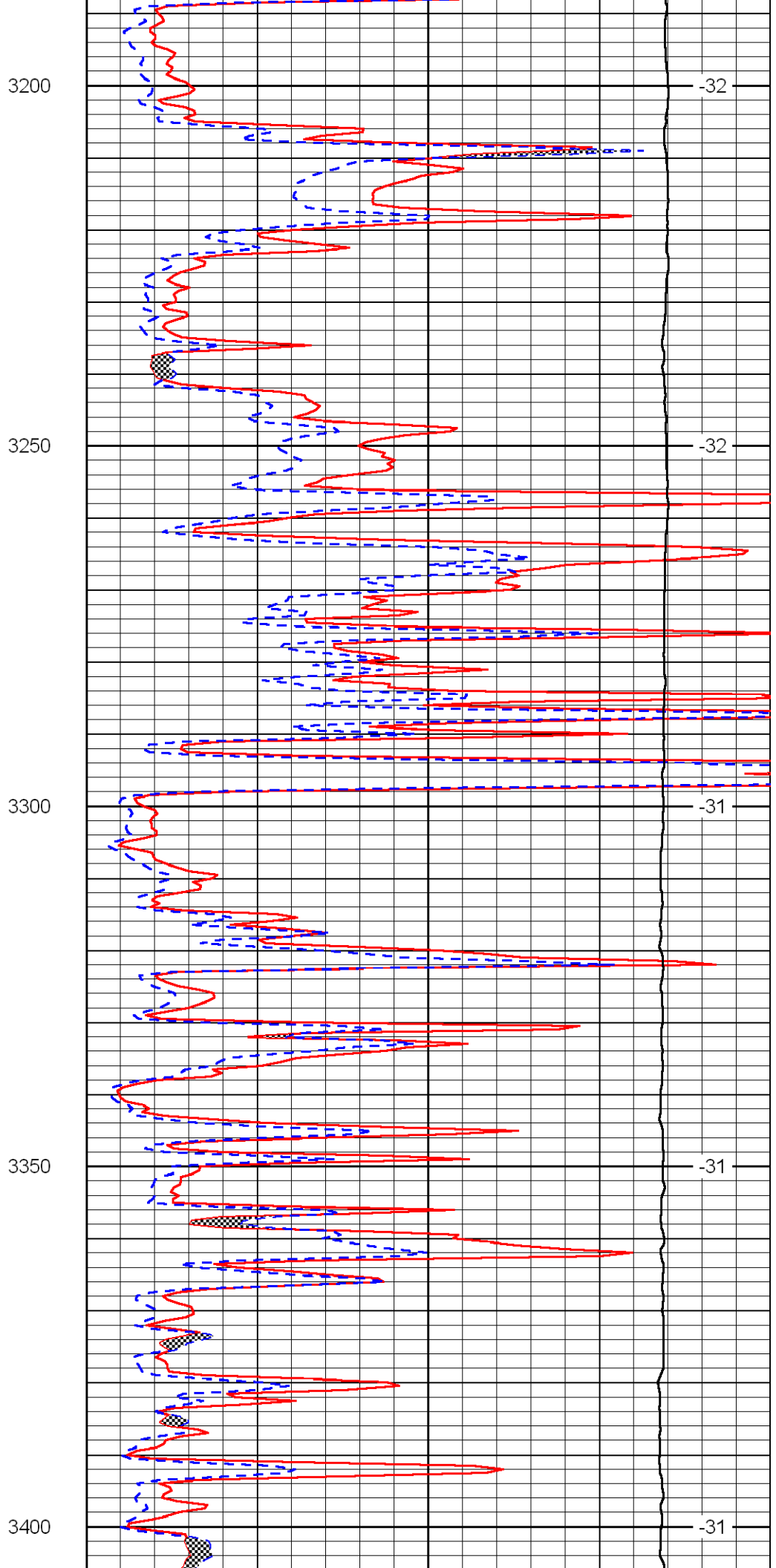
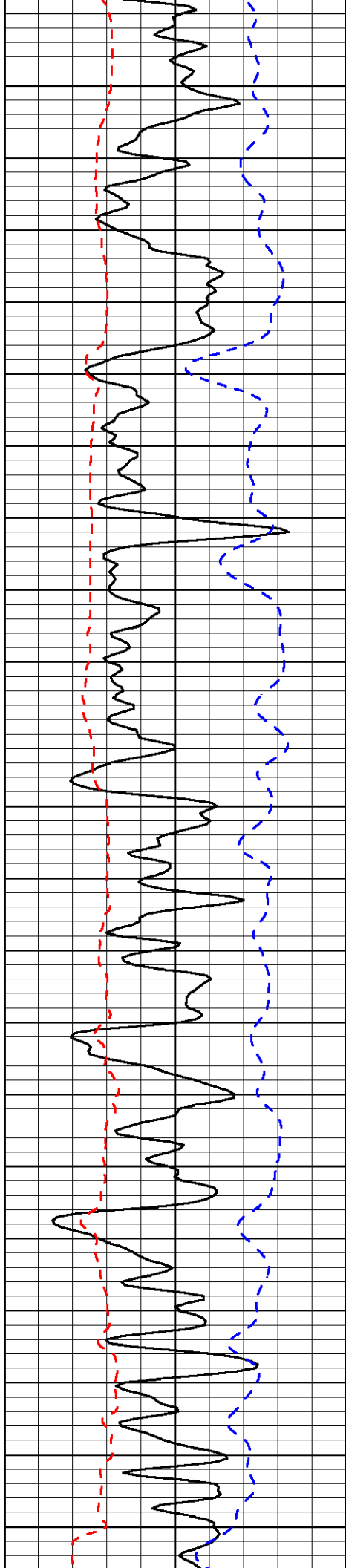
I-70 & Collyer Exit,
North to Old Hwy 40, 1 East to 240th, North to Rawlins Co. C Rd,
1 West, 1/2 North, West into

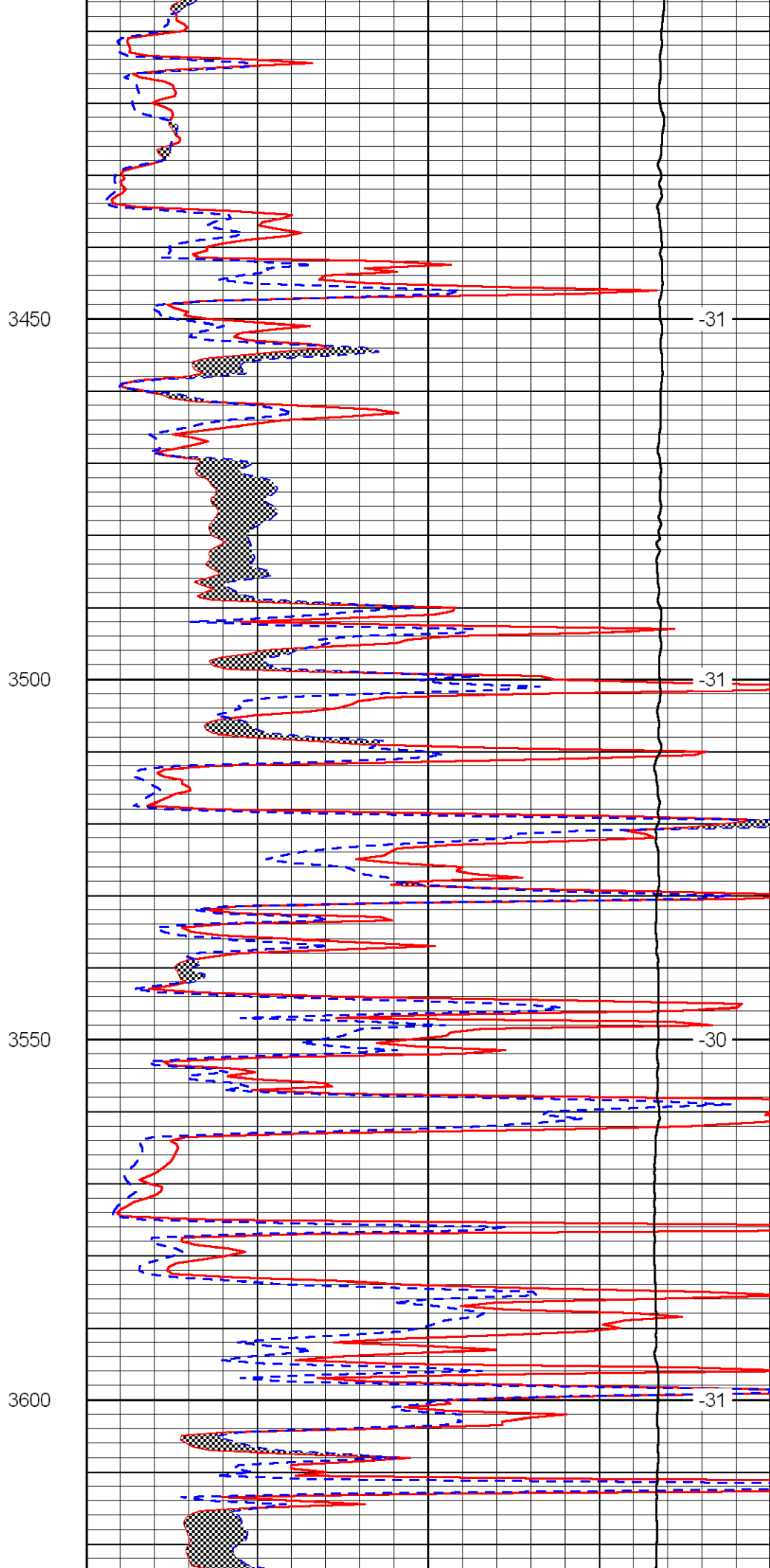
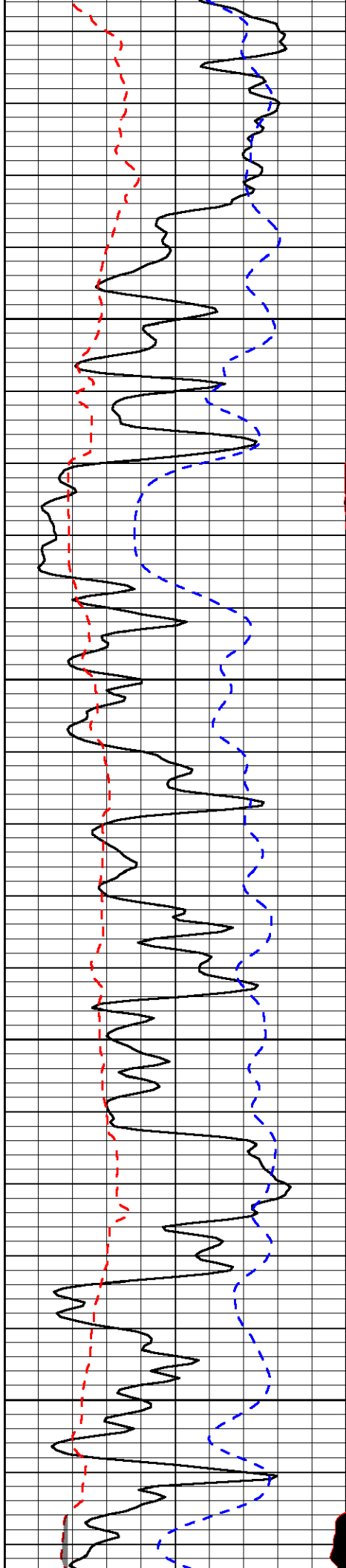
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 Dataset Pathname: dil/thomstack
 Presentation Format: micro
 Dataset Creation: Sun Oct 14 01:02:58 2012
 Charted by: Depth in Feet scaled 1:240

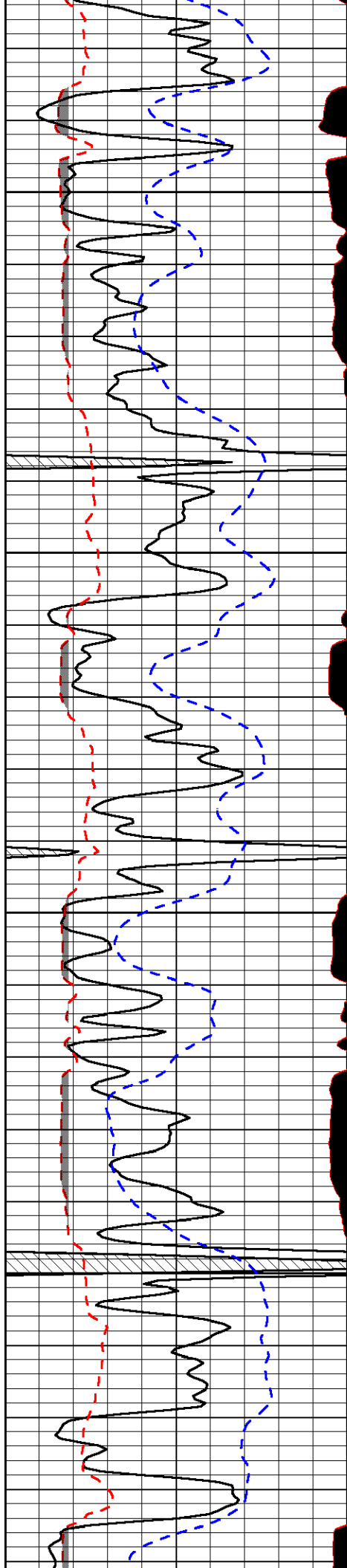
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6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0

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







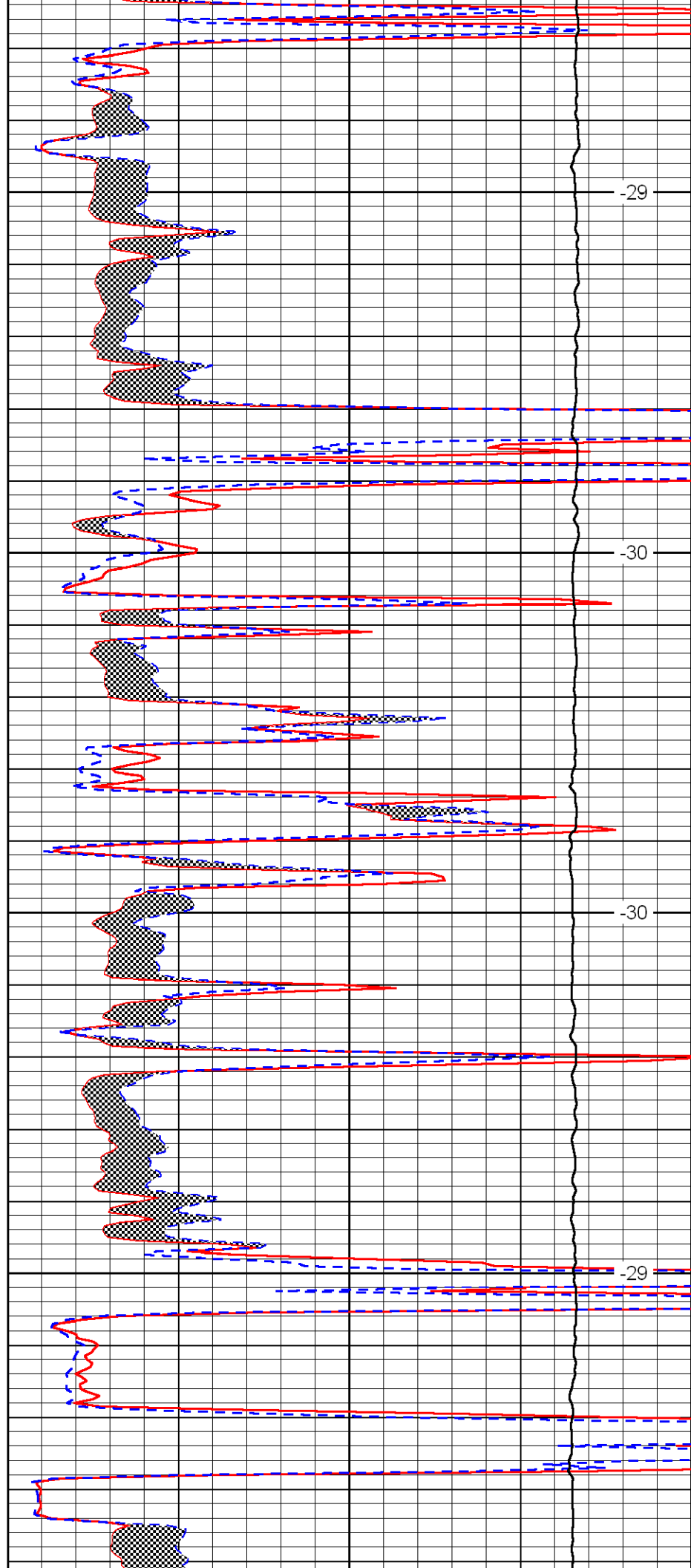


3650

3700

3750

3800

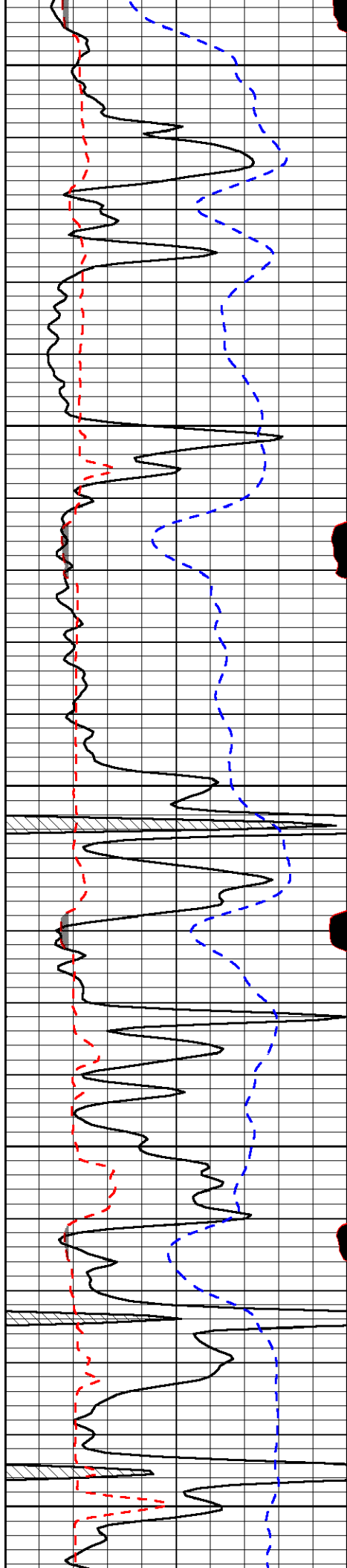


-29

-30

-30

-29



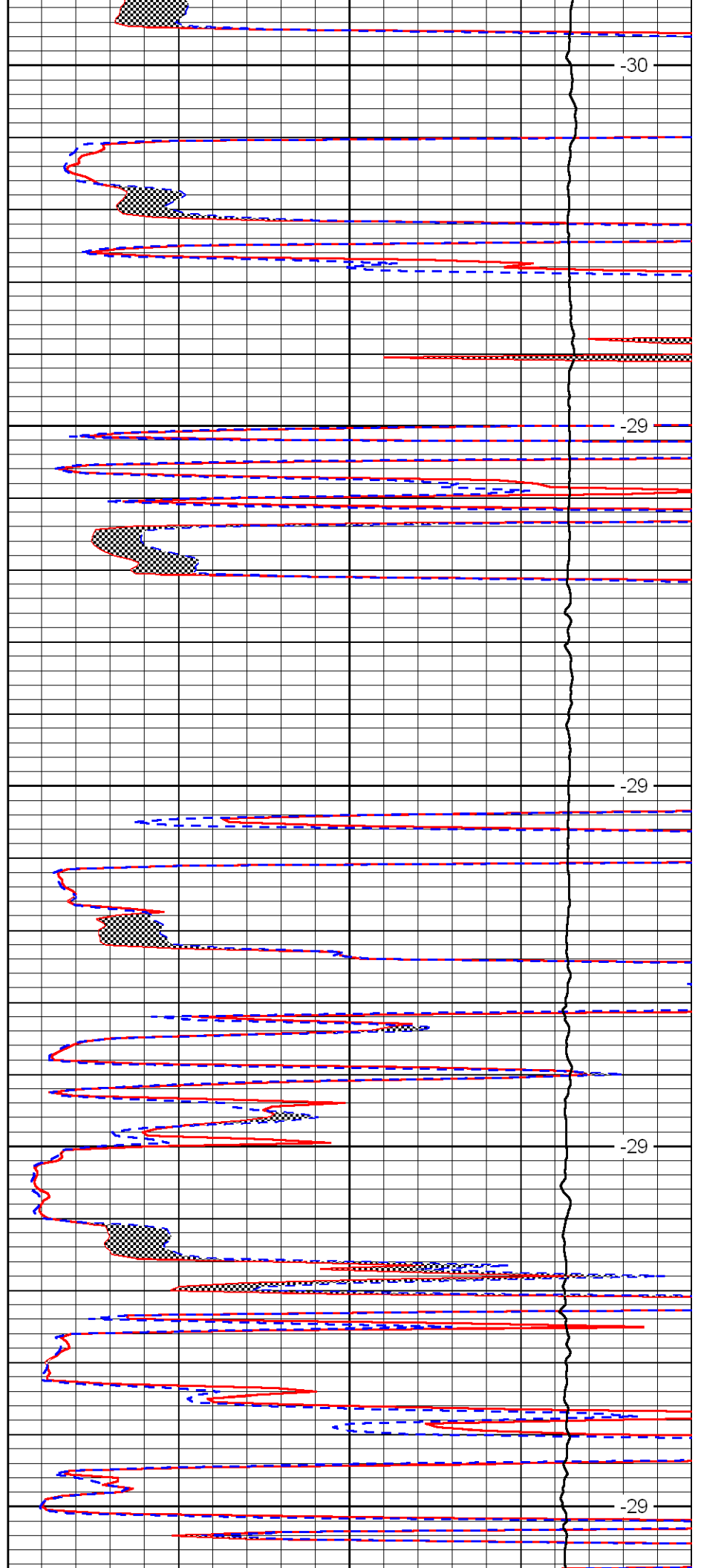
3850

3900

3950

4000

4050



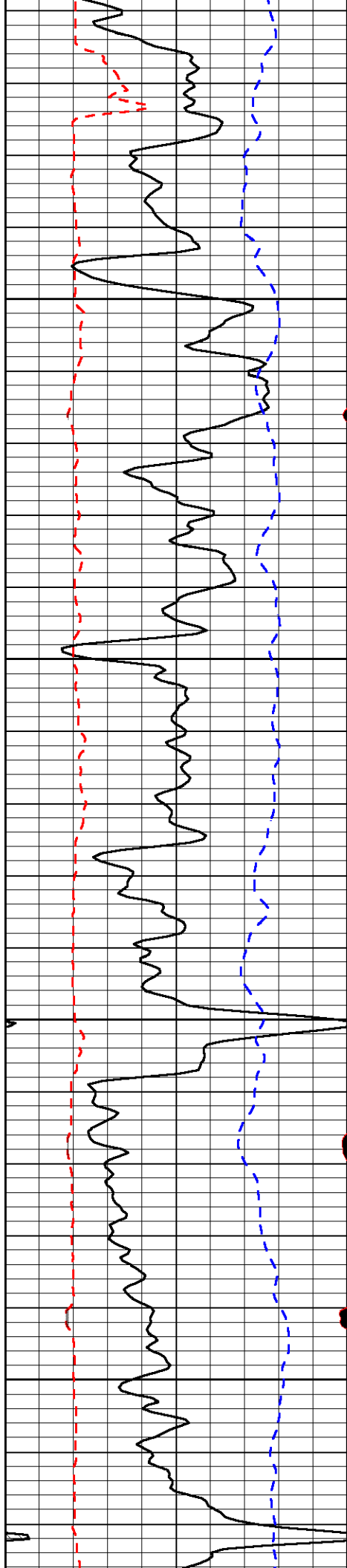
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-29

-29

-29

-29

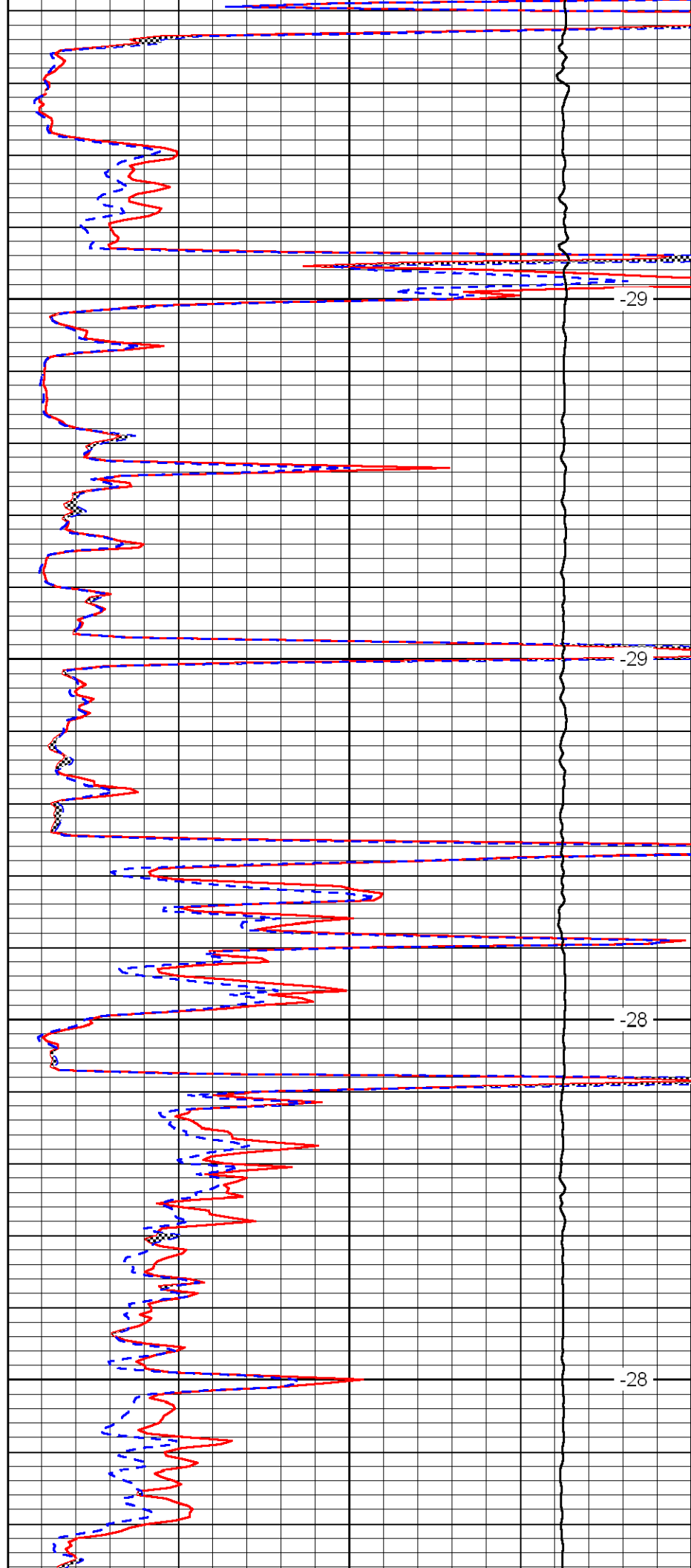


4100

4150

4200

4250

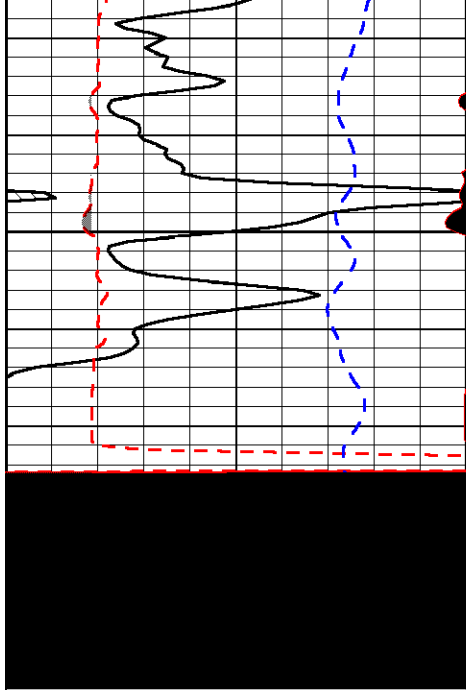


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-29

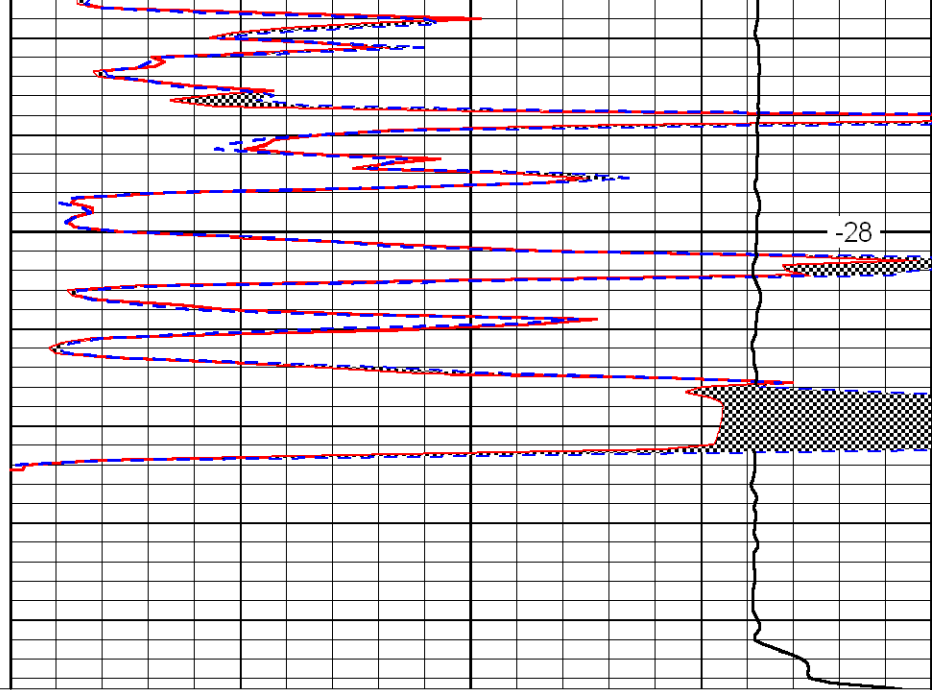
-28

-28



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

4300



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

-28

LSPD

OPERATOR

Company: THOMASON PETROLEUM, INC.
 Address: 2717 CANAL BLVD.
 PO BOX 875
 HAYS, KS 67601
 Contact Geologist: STEVEN THOMASON
 Contact Phone Nbr: (785) 625-9045
 Well Name: BOLLIG #1
 Location: NE SW NE 21-10S-25W
 Pool:
 State: KANSAS
 API: 15-065-23849-0000
 Field: AMBROSE
 Country: USA

Scale 1:240 Imperial

Well Name: BOLLIG #1
 Surface Location: NE SW NE 21-10S-25W
 Bottom Location:
 API: 15-065-23849-0000
 License Number: 9957
 Spud Date: 10/6/2012 Time: 2:15 PM
 Region: GRAHAM
 Drilling Completed: 10/13/2012 Time: 5:45 PM
 Surface Coordinates: 1940' FNL & 1480' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2525.00ft
 K.B. Elevation: 2533.00ft
 Logged Interval: 3000.00ft To: 4242.00ft
 Total Depth: 4340.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -100.1127948 Latitude: 39.1698860
 N/S Co-ord: 1940' FNL
 E/W Co-ord: 1480' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 259-3737
 Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: DISCOVERY DRILLING
 Rig #: #1
 Rig Type: MUD ROTARY
 Spud Date: 10/6/2012 Time: 2:15 PM
 TD Date: 10/13/2012 Time: 5:45 PM
 Rig Release: 10/14/2012 Time: 8:00 PM

ELEVATIONS

K.B. Elevation: 2533.00ft Ground Elevation: 2525.00ft
 K.B. to Ground: 8.00ft

NOTES

THE BOLLIG #1 WAS DRILLED ON A SEISMIC HIGH. DUE TO THE LACK OF ECONOMICAL RECOVERY ON ALL THE DRILL STEM TESTS AND STRUCTURAL POSITION DECISION WAS MADE TO PLUG AND ABONDON THE WELL. RECOMMENDATION FOR FURTHER EXPLORATION ON THIS PROSPECT TO BE DEVELOPED.

WELL SUMMARY SHEET

FORMATION	BOLLIG #1				P&A 2-72				P&A 1-90				•																
	SE SE NW 21-10-25				SE SE NE 21-10-25				E2 NE SE 21-10-25				SW SE NW 22-10-25																
	2533		2525		2532		2532		2548		2548		2526																
	LOG TOPS	SAMPLE TOPS	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.															
ANHYDRITE TOP	2182	351	2177	356	2173	352	-	1	+	4	2178	354	-	3	+	2	2182	366	-	15	-	10	2155	371	-	20	-	15	
BASE	2213	320	2215	318							2213	319	+	1	-	1	2223	325	-	5	-	7	2190	336	-	16	-	18	
TOPEKA	3583	-1050	3588	-1055	3580	-1055	+	5	+	0	3578	-1046	-	4	-	9													
HEEBNER SHALE	3796	-1263	3797	-1264	3801	-1276	+	13	+	12	3792	-1260	-	3	-	4	3800	-1252	-	11	-	12	3772	-1246	-	17	-	18	
TORONTO	3819	-1286	3821	-1288	3826	-1301	+	15	+	13	3814	-1282	-	4	-	6	3822	-1274	-	12	-	14	3795	-1269	-	17	-	19	
LKC	3834	-1301	3834	-1301	3838	-1313	+	12	+	12	3831	-1299	-	2	-	2	3836	-1288	-	13	-	13	3811	-1285	-	16	-	16	
STARK SHALE	4023	-1490	4027	-1494							4021	-1489	-	1	-	5							4000	-1474	-	16	-	20	
BKC	4064	-1531	4067	-1534	4069	-1544	+	13	+	10	4061	-1529	-	2	-	5							4045	-1519	-	12	-	15	
MARMATON	4077	-1544	4080	-1547																			4059	-1533	-	11	-	14	
PAWNEE	4175	-1642	4179	-1646																			4153	-1627	-	15	-	19	
FT SCOTT																													
CHEROKEE	4270	-1737	4270	-1737																			4243	-1717	-	20	-	20	
RTD			4340	-1807	4075	-1550					4080	-1548					4090	-1542					4280	-1754	-			53	
LTD	4342	-1809																					4286	-1760	-			49	

DST #1 LKC D-F 3878' - 3921'



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomason Petroleum Inc.
2717 Canah Blvd. P.O. Box 875 Hays KS 67601
ATTN: Jeff Lawler

21/10s/15w Graham KS
Bollig #1
Job Ticket: 48239 **DST#: 1**
Test Start: 2012.10.11 @ 02:00:00

GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:46:30
 Time Test Ended: 08:33:30

Interval: **3878.00 ft (KB) To 3921.00 ft (KB) (TVD)**
 Total Depth: 3921.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder/Milbur
 Unit No: 57

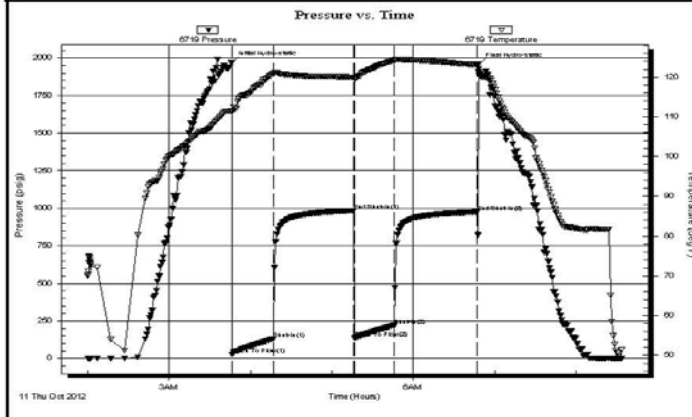
Reference Elevations: 2533.00 ft (KB)
 2525.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press@RunDepth: 221.06 psig @ 3879.00 ft (KB)
 Start Date: 2012.10.11 End Date: 2012.10.11
 Start Time: 02:00:05 End Time: 08:33:29

Capacity: 8000.00 psig
 Last Calib.: 2012.10.11
 Time On Btm: 2012.10.11 @ 03:46:00
 Time Off Btm: 2012.10.11 @ 06:48:00

TEST COMMENT: 30 IF: Built to BOB (11") in 12 min
 60 IS: No Blow
 30 FF: Built to BOB in 17 min
 60 FS: No Blow

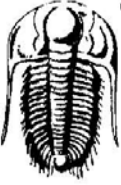


Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.67	111.48	Initial Hydro-static
1	27.62	111.16	Open To Flow (1)
31	130.63	120.86	Shut-in(1)
90	983.60	119.97	End Shut-In(1)
91	136.36	119.66	Open To Flow (2)
120	221.06	124.18	Shut-In(2)
181	975.46	123.12	End Shut-In(2)
182	1961.47	121.25	Final Hydro-static

Length (ft)	Description	Volume (bbl)
247.00	mcw 90%W 10%M	3.20
190.00	mcw w/trace of oil 54%W 46%M	2.67
3.00	mcw/oil spots 1%O 51%W 48%M	0.04

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

DST #2 LKC H-I 3952' - 4009'

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Thomason Petroleum Inc. 2717 Canah Blvd. P.O. Box 875 Hays KS 67601 ATTN: Jeff Lawler	21/10s/15w Graham KS Bollig #1 Job Ticket: 48240 DST#: 2 Test Start: 2012.10.11 @ 19:55:00

GENERAL INFORMATION:

Formation: **LKC "H - I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:35:30
 Time Test Ended: 02:42:30

Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57

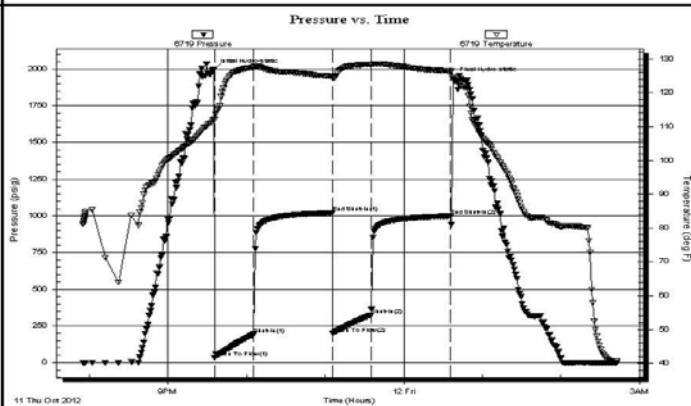
Interval: **3952.00 ft (KB) To 4009.00 ft (KB) (TVD)**
 Total Depth: 4009.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2533.00 ft (KB)
 2525.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press@RunDepth: 324.76 psig @ 3953.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.10.11	End Date: 2012.10.12
Start Time: 19:55:05	End Time: 02:42:29
	Last Calib.: 2012.10.12
	Time On Btm: 2012.10.11 @ 21:35:00
	Time Off Btm: 2012.10.12 @ 00:37:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 6 1/4 min.
 60 - IS: Bled off, blow back built to 1 1/2"
 30 - FF: Blow built to BOB in 9 1/4 min.
 60 - FS: Bled off, blow back built to 2"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.50	112.28	Initial Hydro-static
1	34.09	112.13	Open To Flow (1)
31	193.83	127.59	Shut-In(1)
91	1021.08	124.83	End Shut-In(1)
91	199.44	124.44	Open To Flow (2)
120	324.76	128.32	Shut-In(2)
181	998.98	126.39	End Shut-In(2)
183	1937.03	124.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
566.00	MCWw /trace oil 90%w, 10%m	7.68
95.00	SO/ MV 51%w, 41%m, 6%g, 2%o	1.33
6.00	CO 91%o, 5%g, 4%m	0.08
0.00	GIP = 145'	0.00

* Recovery from multiple tests

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

DST #3 LKC J-L 4008' - 4073' (MISRUN)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Thomason Petroleum Inc.
 2717 Canah Blvd. P.O. Box 875 Hays KS 67601
 ATTN: Jeff Lawler

21/10s/15w Graham KS
Bolilig #1
 Job Ticket: 48241 **DST#:3**
 Test Start: 2012.10.12 @ 12:55:00

GENERAL INFORMATION:

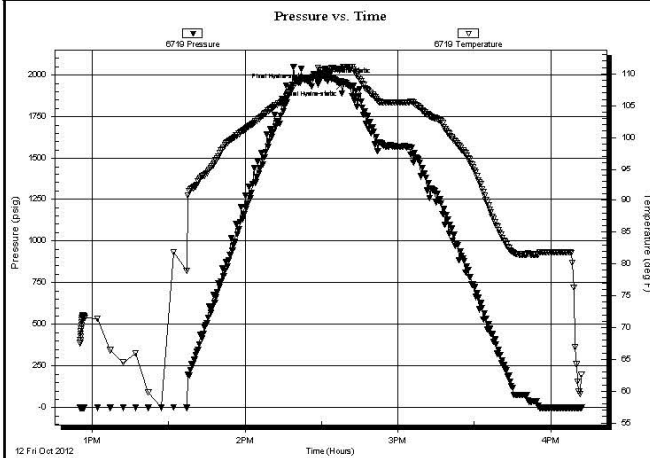
Formation: **LKC "J - L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 16:12:00
 Interval: **4008.00 ft (KB) To 4073.00 ft (KB) (TVD)**
 Total Depth: 4073.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2533.00 ft (KB)
 2525.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press@RunDepth: psig @ 4009.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.12 End Date: 2012.10.12 Last Calib.: 2012.10.12
 Start Time: 12:55:00 End Time: 16:12:00 Time On Btm: 2012.10.12 @ 14:25:30
 Time Off Btm: 2012.10.12 @ 14:26:00

TEST COMMENT: Packer Failure
 Reset tool 2 more times - still failed
 pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1962.87	109.37	Initial Hydro-static
1	1931.00	109.37	Final Hydro-static
13	1950.28	111.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	Mud 100%	2.96

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 48241

Printed: 2012.10.12 @ 16:26:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Thomason Petroleum Inc.
 2717 Canah Blvd. P.O. Box 875 Hays KS 67601
 ATTN: Jeff Lawler

21/10s/15w Graham KS
Bolilig #1
 Job Ticket: 48242 **DST#:4**
 Test Start: 2012.10.12 @ 16:35:00

GENERAL INFORMATION:

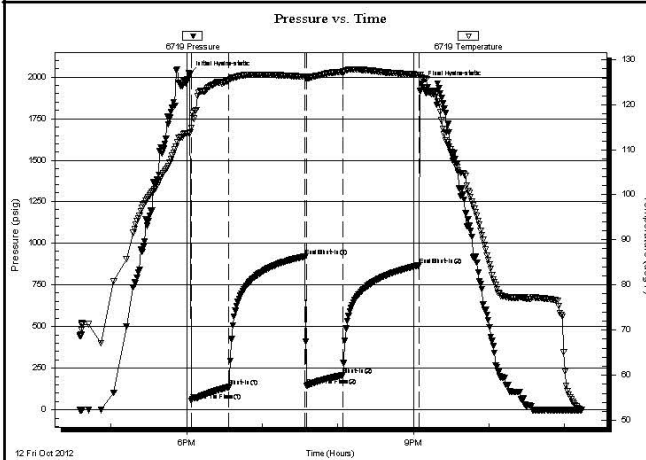
Formation: **LKC "J - L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:03:30
 Time Test Ended: 23:14:00
 Interval: **4002.00 ft (KB) To 4073.00 ft (KB) (TVD)**
 Total Depth: 4073.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2533.00 ft (KB)
 2525.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press@RunDepth: 208.46 psig @ 4009.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.12 End Date: 2012.10.12 Last Calib.: 2012.10.12
 Start Time: 16:35:05 End Time: 23:13:59 Time On Btm: 2012.10.12 @ 18:02:30
 Time Off Btm: 2012.10.12 @ 21:06:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 7 min.
 60 - ISI: Bled off, No blowback
 30 - FF: Blow built to BOB in 17 min.
 60 - FSI: Bled off, No blowback



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.70	113.87	Initial Hydro-static
1	54.31	114.90	Open To Flow(1)
31	137.38	125.51	Shut-In(1)
92	919.85	126.27	End Shut-In(1)
93	144.52	126.00	Open To Flow(2)
122	208.46	127.33	Shut-In(2)
182	865.81	126.72	End Shut-In(2)
184	1962.36	126.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
187.00	MCW w/trace oil 86%w, 14%m	2.36
125.00	SO/MCW 69%w, 29%m, 2%o	1.75
63.00	SOCWM 46%m, 46%w, 5%g, 3%o	0.88
35.00	SOCM 97%m, 3%o	0.49
0.00	GIP = 30'	0.00

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 48242

Printed: 2012.10.12 @ 23:56:15

ROCK TYPES

Cht	shale, grn	shale, red	Lscongl
Dolsec	shale, gry	Shcol	
Lmst fw7>	Carbon Sh	Ss	

ACCESSORIES

MINERAL
 * Sandy

STRINGER
 ~~~~ Chert

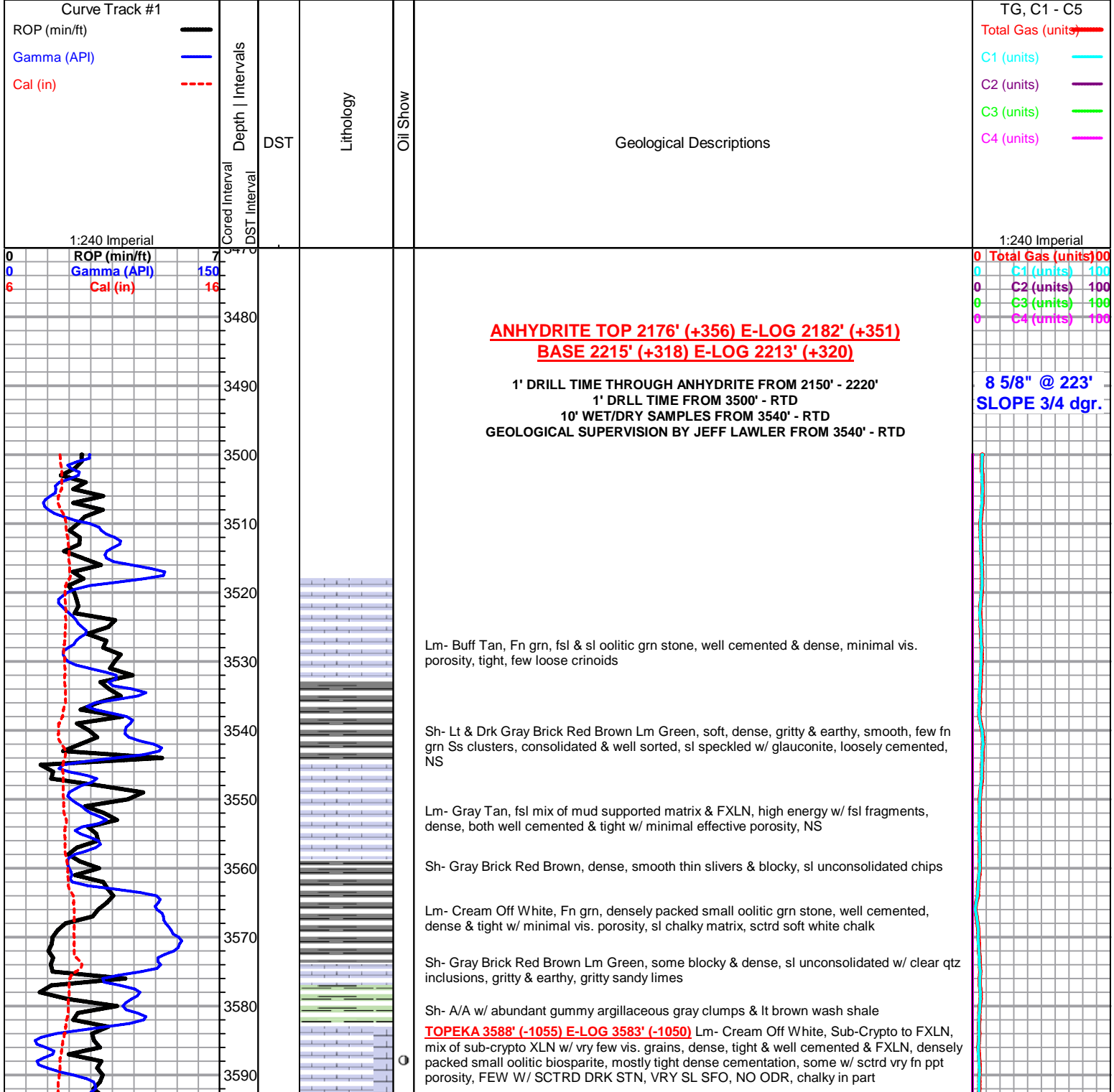
**TEXTURE**  
 C Chalky

**OTHER SYMBOLS**

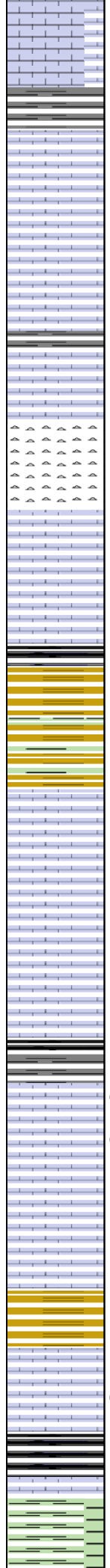
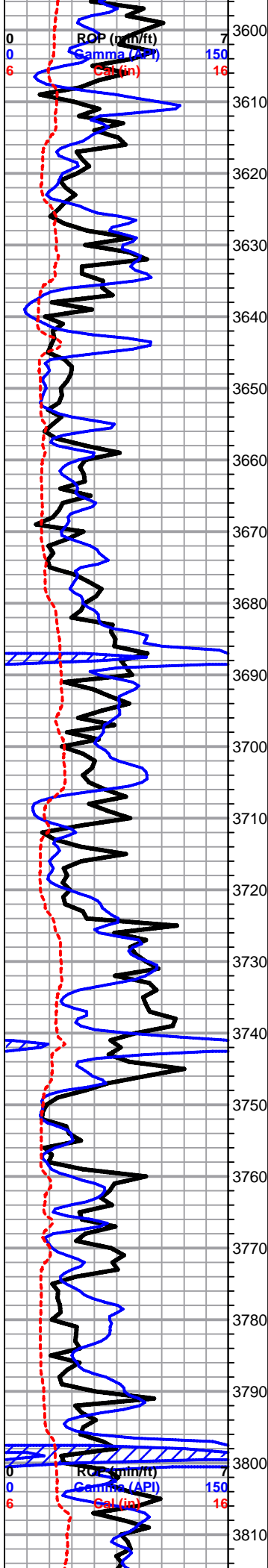
- MISC**
- Daily Report
  - Digital Photo
  - Document
  - Folder
  - Link
  - Vertical Log File
  - Horizontal Log File
  - Core Log File
  - Drill Cuttings Rpt

- DST**
- DST Int
  - DST alt
  - Core

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Lm- Cream Gray, Fn grn, dense, sl chalky, gritty & well cemented, clean & barren, Drk Gray FXLN cherty ls, heavily mottled, tight w/ no vis. porosity

Sh- Lt Gray, sl unconsolidated, calcareous

Lm- Off White, VF grn, dense, well cemented, tight w/ minimal vis. porosity, very clean

Lm- Cream Tan, FXLN, dense, tight w/ siliceous cementation, sl mottled & trashy

Lm- Cream Off White, VFXLN, dense, tight w/ minimal vis. grains & porosity, clean, few sctrd soft white chalk

Lm- Cream Off White, Med XLN, gritty, loosely cemented, sl fsl, some sl chalky in part, moderately developed w/ sctrd fn ppt porosity, clean & barren

Chert- White Off White, sl fsl fresh bedded angular chert, some gritty sl dolomitic chert

Lm- Cream Off White, Fn grn, gritty & grainy, vry loosely cemented, sl chalky in part, sctrd vry fn ppt porosity, clean & barren

Lm- Cream, FXLN, dense, well cemented, sl fsl, poorly developed sctrd ppt porosity, clean & barren

Sh- Black Gray, dense, fissile, carbonaceous, soft vry thin gray slivers

Sh- Lm Green Brown, sl waxy, gritty & earthy

Lm- Cream Off White, FXLN, densely packed micro oolitic grainstone, sl oolitic, sctrd poor skeltal dissolution, vry loosely cemented, well developed w/ consistant vry fn ppt porosity, clean & barren, few chips of gritty sl dolomitic chert

Sh- Black Gray Maroon, fissile & slaty, carbonaceous, thin gray slivers

Lm- Cream Tan, Fn grn, fsl, gritty, moderately developed w/ sctrd fn ppt porosity, sctrd recrystallized secondary porosity, SCTRD LT STN, SL SFO, FNT ODR

Lm- Cream Off White, Med XLN, fsl & oolitic, moderately well developed interoolitic ppt porosity, some w/ sl chalky matrix, sctrd white chalk, FR GSY STN, SFO, FR ODR UPON CRUSH

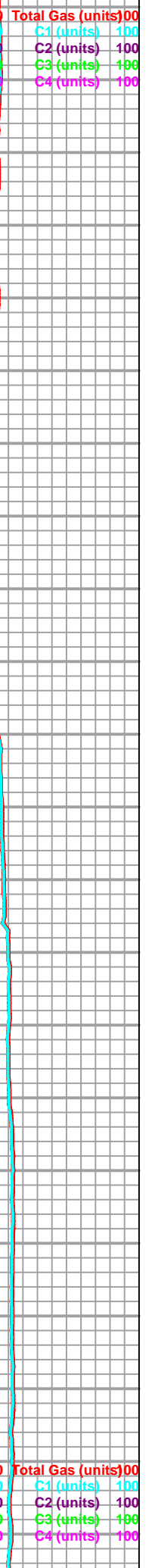
Lm- Cream Off White, FXLN, sl fsl, loosely cemented w/ consistant vry fn ppt porosity, clean & barren

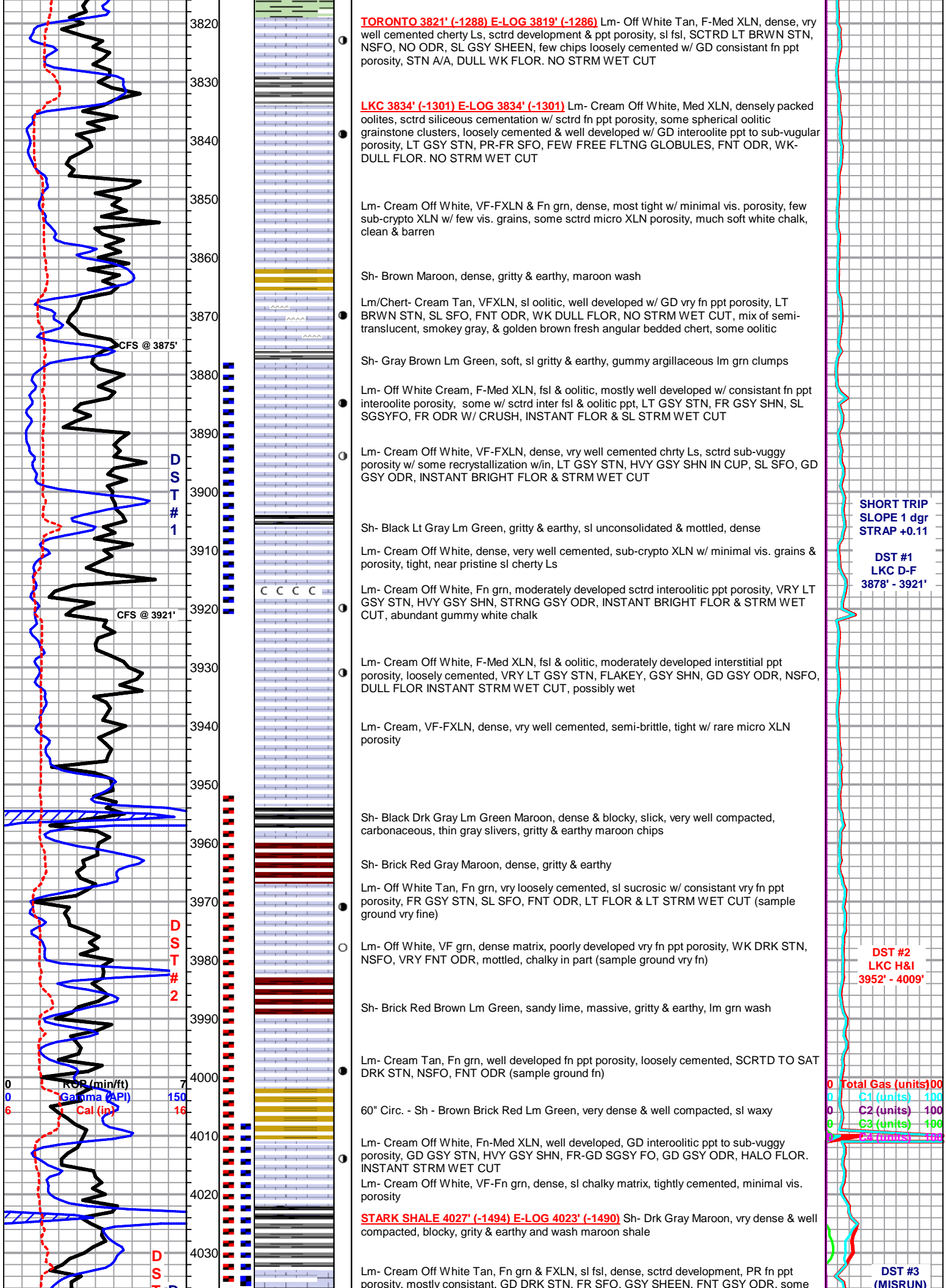
Sh- Brown Lm Green, dense & blocky

Lm- Cream Off White, FXLN, fsl mix of massive, well cemented, w/ sctrd fn ppt porosity & dense sl cherty Ls, much soft white chalk, 1-2 CHIPS W/ WK SPOTTY STN, NSFO, NO ODR

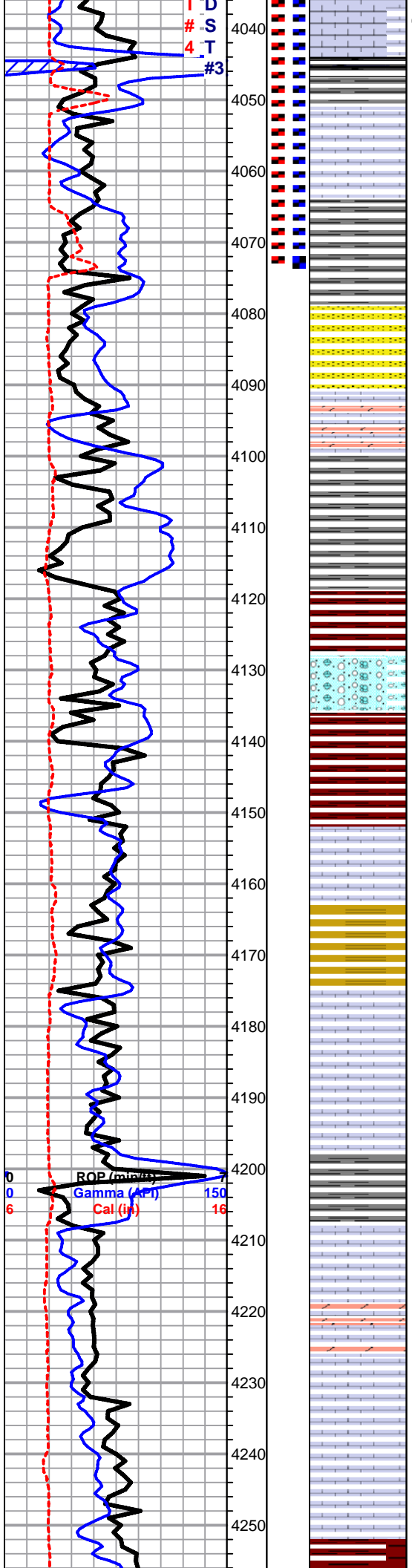
**HEEBNER 3797' (-1264) E-LOG 3796' (-1263)** Black Gray Brown, fissile, slaty, carbonaceous, dense, well compacted, gritty & earthy

Sh- Lm Green Dove Gray, abundant gummy argillaceous clumps









sctrd white chalk & some dense algal Ls

Sh- Black Gray Maroon, sl unconsolidated, gummy argillaceous gray clumps, gritty & earthy

Lm- Cream Tan Buff, FXLN, dense, poorly developed w/ PR vis. porosity, sl fsl, few chips w/ dense secondary micro XLN fenestral porosity, chips of salmon fresh bedded chert, all clean & barren

**BKC 4067' (-1534) E-LOG 4064' (-1531)** Sh- Gray Red Lm Green, abundant gummy argillaceous gray & lm grn clumps

Sh- Gray Maroon, sl unconsolidated & pebbly massive drk gray chips, abundant gummy argillaceous lt gray clumps, maroon gritty & earthy chips

Ss- Abundant mix of fn grn red loosely cemented & sl shaley Ss & lt red and white sandy lime

Lm/Dolomite- Mix of Salmon gritty sl cherty dolomite, tight w/ minimal vis. porosity, Fn grn & FXLN dense Ls, sl fsl w/ poorly developed porosity, some w/ sl chalky matrix, all clean & barren

Sh- Drk & Lt Gray Lm Green, massive dark gray chips, sl unconsolidated & pebbly, soft gray & lm grn wash shale

Sh- Maroon Brick Red, gummy argillaceous maroon clumps & wash, waxy, blocky & dense

Ls Conglomerate- A/A w/ unconsolidated sandy red shale/Ss, conglomerate Ls

Sh- Red Gray, abundant gummy argillaceous clumps

Sh- Abundant red wash & gummy argillaceous clumps

Lm- White Cream, Crypto XLN-FXLN, mix of sl fsl FXLN, dense, tight w/ minimal vis. porosity & crypto XLN w/o vis. grains/porosity, some sl cherty Ls

Sh- Various dark colored shales & red Ss, gummy argillaceous clumps

**PAWNEE 4179' (-1646) E-LOG 4175' (-1642)** Lm/Chert- FXLN, mix of gritty, well cemented w/ minimal vis. porosity, gritty cherty dolomite & Salmon colored chert

A/A w/ more gritty cherty dolomite, few buff dense siliceous very well cemented cherty Ls

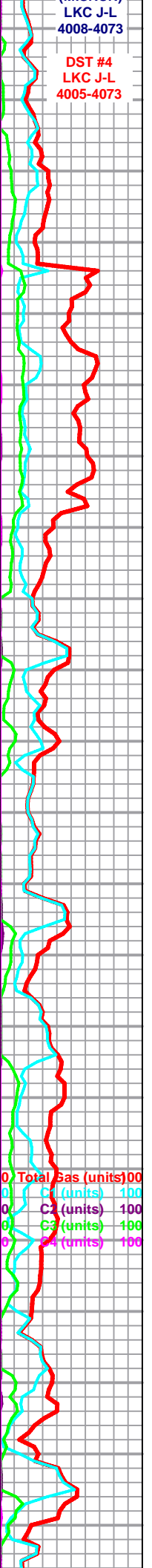
Lm- Buff Fn grn, dense, vry well cemented gritty dolomitic Ls, tight w/ minimal vis. porosity

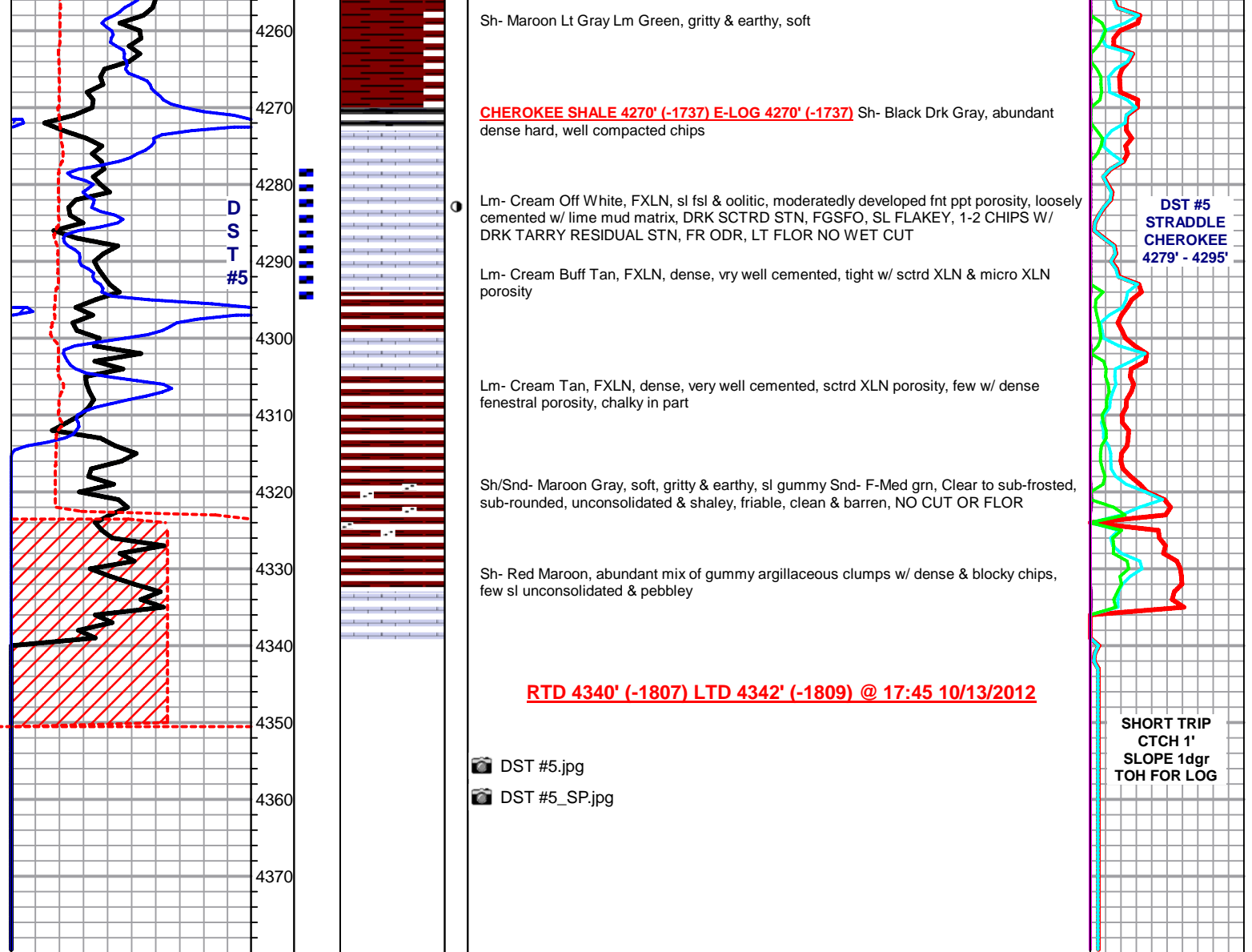
Sh- Gray Maroon, dense & dense, gritty & earthy, some gray wash

Lm/Chert- A/A w/ gritty Tan & Off White dolomitic chert, clean & barren

Lm- A/A w/ few VF-Fn grn, vry dense & vry well cemented, tight w/ no vis. porosity

Lm- A/A, abundant buff dense hard, well cemented, tight w/ no vis. porosity







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  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 08, 2012

Steven Thomason  
Thomason Petroleum, Inc  
2717 Canah Blvd.  
PO BOX 875  
HAYS, KS 67601

Re: ACO1  
API 15-065-23849-00-00  
Bollig 1  
NE/4 Sec.21-10S-25W  
Graham 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,  
Steven Thomason

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 3339

Cell 785-324-1041

|                     |              |      |            |      |         |       |                                                                                  |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
|---------------------|--------------|------|------------|------|---------|-------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----|-------------|--|--------|---------|--|
| Date                | 10-14-12     | Sec. | 21         | Twp. | 10      | Range | 25                                                                               | County                                                                                                                                                                         | Graham | State | Ks | On Location |  | Finish | 4:45 PM |  |
| Lease               | Bollig       |      | Well No.   |      | 1       |       | Location St. Peter, Ks - 25, 100, 1/2 N, W Hnto                                  |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Contractor          | Discovery #1 |      |            |      |         |       |                                                                                  | Owner                                                                                                                                                                          |        |       |    |             |  |        |         |  |
| Type Job            | Plug         |      |            |      |         |       |                                                                                  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |        |       |    |             |  |        |         |  |
| Hole Size           | 7 7/8"       |      | T.D.       |      | 4340'   |       | Charge To                                                                        |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Csg.                |              |      | Depth      |      |         |       | Thomason Petroleum Inc.                                                          |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Tbg. Size           | 4 1/2" D.P.  |      | Depth      |      | 2200'   |       | Street 2717 Canah BLVD. - P.O. Box 875                                           |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Tool                |              |      | Depth      |      |         |       | City Hay's State Ks 67601                                                        |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Cement Left in Csg. |              |      | Shoe Joint |      |         |       | The above was done to satisfaction and supervision of owner agent or contractor. |                                                                                                                                                                                |        |       |    |             |  |        |         |  |
| Meas Line           |              |      | Displace   |      | H2O/mud |       | Cement Amount Ordered 220 sx 60/40 4% bol 1/4#                                   |                                                                                                                                                                                |        |       |    |             |  |        |         |  |

**EQUIPMENT**

|         |    |     |          |       |  |  |          |
|---------|----|-----|----------|-------|--|--|----------|
| Pumptrk | 15 | No. | Cementer | Brett |  |  | Flo-seal |
|         |    |     | Helper   |       |  |  | Common   |
| Bulktrk | 1  | No. | Driver   | Heath |  |  | Poz. Mix |
|         |    |     | Driver   |       |  |  |          |
| Bulktrk | 1  | No. | Driver   | Rick  |  |  | Gel.     |
|         |    |     | Driver   |       |  |  |          |

**JOB SERVICES & REMARKS**

|                             |  |                         |
|-----------------------------|--|-------------------------|
| Remarks:                    |  | Calcium                 |
| Rat Hole                    |  | Hulls                   |
| Mouse Hole                  |  | Salt                    |
| Centralizers                |  | Flowseal                |
| Baskets                     |  | Kol-Seal                |
| D/V or Port Collar          |  | Mud CLR 48              |
| 2200' - 25 sx               |  | CFL-117 or CD110 CAF 38 |
| 1260' - 100 sx              |  | Sand                    |
| 275' - 40 sx                |  | Handling                |
| 40' - 10 sx w/ plug + Hulls |  | Mileage                 |

**FLOAT EQUIPMENT**

|                      |  |                   |
|----------------------|--|-------------------|
| Rathole - 30 sx      |  | Guide Shoe        |
| Mousehole - 15 sx    |  | Centralizer       |
| Cement did Circulate |  | Baskets           |
|                      |  | AFU Inserts       |
|                      |  | Float Shoe        |
|                      |  | Latch Down        |
|                      |  | 1 - Dry hole plug |
|                      |  | Pumptrk Charge    |
|                      |  | Mileage           |

|  |  |              |
|--|--|--------------|
|  |  | Tax          |
|  |  | Discount     |
|  |  | Total Charge |

X Signature *[Handwritten Signature]*

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5236

|                     |                     |          |                |                                     |              |       |                                                                                  |                                                                                                                                                                                |        |       |    |             |  |        |         |
|---------------------|---------------------|----------|----------------|-------------------------------------|--------------|-------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----|-------------|--|--------|---------|
| Date                | 10-6-12             | Sec.     | <del>36</del>  | Twp.                                | <del>6</del> | Range | <del>19</del>                                                                    | County                                                                                                                                                                         | Graham | State | KS | On Location |  | Finish | 7.00 pm |
| Lease               | <del>Cottrell</del> | Well No. | <del>301</del> | Location St Peter 25 W 1/2 N W into |              |       |                                                                                  |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Contractor          | Discovery Rig 1     |          |                |                                     |              |       |                                                                                  | Owner                                                                                                                                                                          |        |       |    |             |  |        |         |
| Type Job            | Surface             |          |                |                                     |              |       |                                                                                  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |        |       |    |             |  |        |         |
| Hole Size           | 12 1/4              |          | T.D.           |                                     | 223          |       | Charge To                                                                        |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Csg.                | 46 5/8              |          | Depth          |                                     | 223          |       | <del>Total Production</del>                                                      |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Tbg. Size           |                     |          | Depth          |                                     |              |       | Street                                                                           |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Tool                |                     |          | Depth          |                                     |              |       | Thomason petroleum                                                               |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Cement Left in Csg. | 20 ft               |          | Shoe Joint     |                                     | 20 ft        |       | City                                                                             |                                                                                                                                                                                |        |       |    |             |  |        |         |
| Meas Line           |                     |          | Displace       |                                     | 13 BBL       |       | State                                                                            |                                                                                                                                                                                |        |       |    |             |  |        |         |
|                     |                     |          |                |                                     |              |       | The above was done to satisfaction and supervision of owner agent or contractor. |                                                                                                                                                                                |        |       |    |             |  |        |         |
|                     |                     |          |                |                                     |              |       | Cement Amount Ordered 150 3% CC 2% gel                                           |                                                                                                                                                                                |        |       |    |             |  |        |         |

**EQUIPMENT**

|                                   |    |     |          |      |          |     |
|-----------------------------------|----|-----|----------|------|----------|-----|
| Pumptrk                           | 5  | No. | Cementer | Math | Common   | 150 |
|                                   |    |     | Helper   |      |          |     |
| Bulktrk                           | 14 | No. | Driver   | Dave | Poz. Mix |     |
|                                   |    |     | Driver   |      |          |     |
| Bulktrk                           | pu | No. | Driver   | Cody | Gel.     | 3   |
|                                   |    |     | Driver   |      |          |     |
| <b>JOB SERVICES &amp; REMARKS</b> |    |     |          |      |          |     |
| Remarks:                          |    |     |          |      |          |     |
| Rat Hole                          |    |     |          |      |          |     |
| Mouse Hole                        |    |     |          |      |          |     |
| Centralizers                      |    |     |          |      |          |     |
| Baskets                           |    |     |          |      |          |     |
| D/V or Port Collar                |    |     |          |      |          |     |

Lease Bollig 1  
21-10-25  
Cement did circulate

|                         |     |
|-------------------------|-----|
| Hulls                   |     |
| Salt                    |     |
| Flowseal                |     |
| Kol-Seal                |     |
| Mud CLR 48              |     |
| CFL-117 or CD110 CAF 38 |     |
| Sand                    |     |
| Handling                | 150 |
| Mileage                 |     |

**FLOAT EQUIPMENT**

|             |  |
|-------------|--|
| Guide Shoe  |  |
| Centralizer |  |
| Baskets     |  |
| AFU Inserts |  |
| Float Shoe  |  |
| Latch Down  |  |

Pumptrk Charge Surface  
Mileage 34

X Signature *Cliff Mansfield*

Tax  
Discount  
Total Charge

