1049552

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31938
Name: Indian Oil Co., Inc.
Address 1: PO BOX 209
Address 2: 2507 SE US 160 HWY
City: MEDICINE LODGE State: KS Zip: 67104 + 0209
Contact Person: Anthony Farrar
Phone: (620) 886-3763
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Scott Alberg
Purchaser: N/A

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] 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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

01/05/2011	01/14/2011	01/14/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23635-00-00
Spot Description:
SW-SE-SW-NW Sec. 1 Twp. 30 S. R. 15 [ ] East [x] West
2550 Feet from [x] North / [ ] South Line of Section
750 Feet from [ ] East / [x] West Line of Section

Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW

County: Barber
Lease Name: Lambert Well #: 1
Field Name:
Producing Formation: NA
Elevation: Ground: 1882 Kelly Bushing: 1903
Total Depth: 4670 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 307 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 36000 ppm Fluid volume: 1800 bbls
Dewatering method used: Evaporated

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

- [x] **Letter of Confidentiality Received**
  Date: 02/02/2011
- [x] **Confidential Release Date:** 02/01/2013
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** NAOMI JAMES **Date:** 02/04/2011

Side Two

1049552

Operator Name: Indian Oil Co., Inc. Lease Name: Lambert Well #: 1

Sec. 1 Twp. 30 S. R. 15 ☐ East ☑ West County: Barber

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface Casing	12.25	8.625	23	307	3% CC	220	2% GEL

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	Lambert 1
Doc ID	1049552

All Electric Logs Run

Dual Induction
Porosity
Microresistivity
BHC Sonic

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	Lambert 1
Doc ID	1049552

Tops

Name	Top	Datum
Herrington	2156	-253
B/Florence	2413	-510
Onaga Shale	2950	-1047
Wabaunsee	2993	-1090
Heebner Shale	3782	-1979
Brown Lime	3966	-2063
Lansing	3980	-2077
B/KC	4364	-2491
Cherokee Sand	4468	-2565
Viola	4524	-2621
Simpson Shale	4586	-2683

KANSAS
CORPORATION COMMISSION

Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner

January 18, 2011

Anthony Farrar
Indian Oil Co., Inc.
PO BOX 209
2507 SE US 160 HWY
MEDICINE LODGE, KS 67104-0209

Re: ACO1
API 15-007-23635-00-00
Lambert 1
NW/4 Sec.01-30S-15W
Barber 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,
Anthony Farrar

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Indian Oil Co
PO Box 209
Medicine Lodge, KS 67104

ATTN: Scott Alberg

#1 Lambert

1-30S-15W Barber

Job Ticket: 039273 **DST#: 1**

Test Start: 2011.01.10 @ 05:40:04

GENERAL INFORMATION:

Formation: **H Zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:19:04
Time Test Ended: 14:40:34

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

Interval: 4148.00 ft (KB) To 4170.00 ft (KB) (TVD)
Total Depth: 4170.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

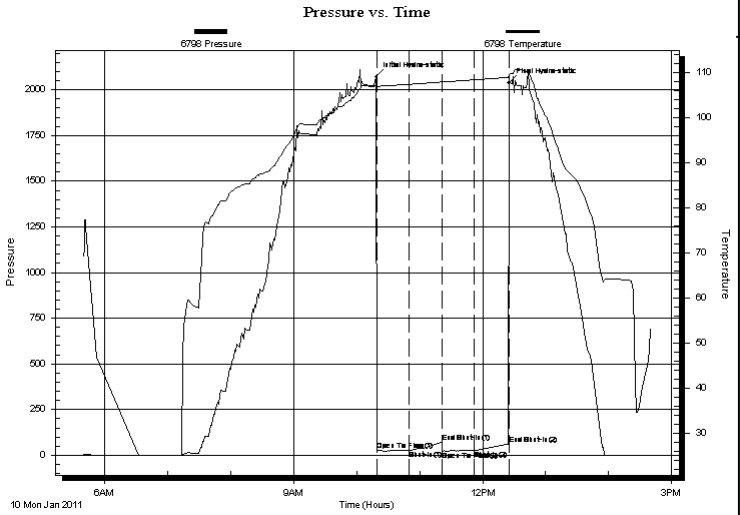
Reference Elevations: 1903.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 25.83 psig @ 4149.00 ft (KB)
Start Date: 2011.01.10 End Date: 2011.01.10
Start Time: 05:40:05 End Time: 14:40:34

Capacity: 8000.00 psig
Last Calib.: 2011.01.10
Time On Btm: 2011.01.10 @ 10:18:34
Time Off Btm: 2011.01.10 @ 12:25:19

TEST COMMENT:
IF: Weak Blow , 1/2 inch
ISI: No Blow back
FF: Weak Blow , 1/2 inch
FSI: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.34	107.16	Initial Hydro-static
1	24.81	106.76	Open To Flow (1)
32	25.40	107.41	Shut-In(1)
63	71.30	107.93	End Shut-In(1)
63	21.27	107.92	Open To Flow (2)
94	25.83	108.42	Shut-In(2)
127	62.66	108.94	End Shut-In(2)
127	2039.21	109.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg Mud	0.07

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Scott Alberg

#1 Lambert

1-30S-15W Barber

Job Ticket: 039273 **DST#: 1**

Test Start: 2011.01.10 @ 05:40:04

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7900.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

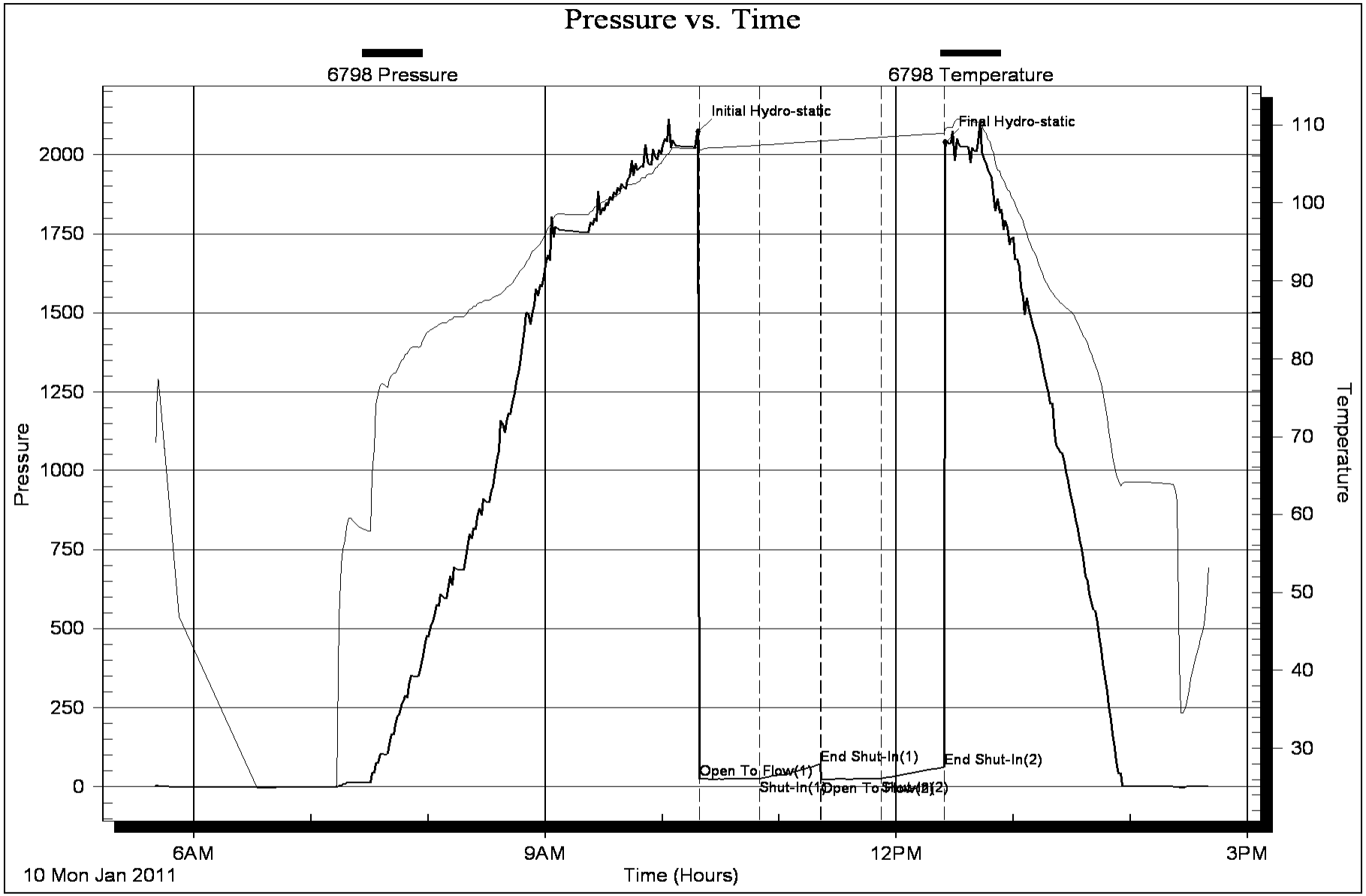
Length ft	Description	Volume bbl
5.00	Drlg Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
30
6AM
9AM
12PM
3PM
10 Mon Jan 2011
Time (Hours)

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Scott Alberg

#1 Lambert

1-30S-15W Barber

Job Ticket: 039274 **DST#: 2**

Test Start: 2011.01.12 @ 01:16:28

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:19:43
Time Test Ended: 11:16:28

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

Interval: 4444.00 ft (KB) To 4500.00 ft (KB) (TVD)
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

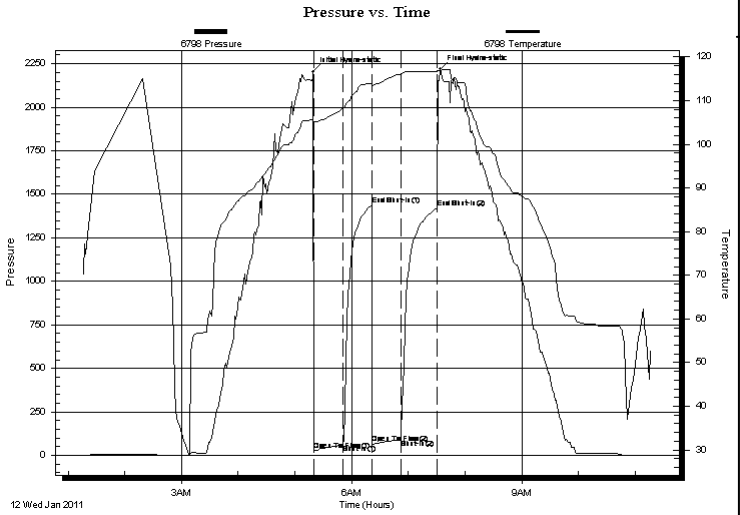
Reference Elevations: 1903.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 93.78 psig @ 4445.00 ft (KB)
Start Date: 2011.01.12 End Date: 2011.01.12
Start Time: 01:16:29 End Time: 11:16:28

Capacity: 8000.00 psig
Last Calib.: 2011.01.12
Time On Btm: 2011.01.12 @ 05:19:13
Time Off Btm: 2011.01.12 @ 07:33:58

TEST COMMENT:
IF: Weak Blow , 2 inches
ISI: No Blow back
FF: Weak Blow , 2 inches
FSI: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.42	105.68	Initial Hydro-static
1	29.18	104.67	Open To Flow (1)
32	61.21	108.21	Shut-In(1)
63	1440.69	113.92	End Shut-In(1)
63	68.39	113.23	Open To Flow (2)
93	93.78	116.13	Shut-In(2)
132	1419.93	116.80	End Shut-In(2)
135	2217.16	116.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWCM 5%g 45%w 50%m	0.84
60.00	GWCM 5%g 30%w 65%m	0.84
30.00	GCM 5%g 95%m	0.42

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co

PO Box 209
Medicine Lodge, KS 67104

ATTN: Scott Alberg

#1 Lambert

1-30S-15W Barber

Job Ticket: 039274 **DST#: 2**

Test Start: 2011.01.12 @ 01:16:28

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

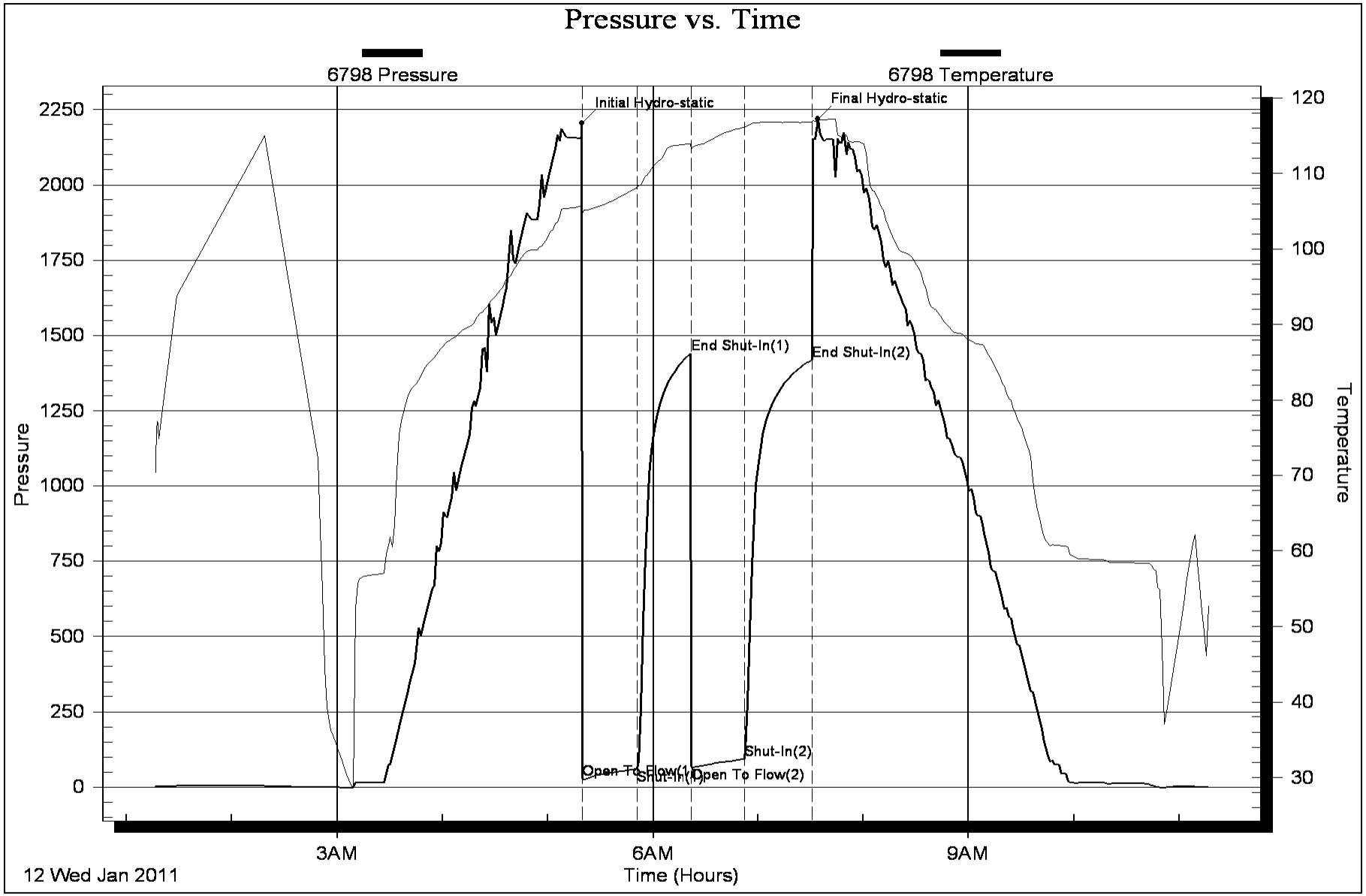
Length ft	Description	Volume bbl
60.00	GWCM 5%g 45%w 50%m	0.842
60.00	GWCM 5%g 30%w 65%m	0.842
30.00	GCM 5%g 95%m	0.421

Total Length: 150.00 ft Total Volume: 2.105 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
40
30
3AM
6AM
9AM
12 Wed Jan 2011
Time (Hours)

ALLIED CEMENTING CO., LLC. 040684

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge

DATE 1-14-2011	SEC. 1	TWP. 30	RANGE 15	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 5:15 Am
LEASE Lambert	WELL # 1		LOCATION Sun City, KS. 5 north 3/4 west North into			COUNTY Barber	STATE Ks
OLD OR NEW (Circle one)							

CONTRACTOR VAL #2
TYPE OF JOB Rotary Plug
HOLE SIZE 7 7/8 T.D.
CASING SIZE 8 5/8" DEPTH 300'
TUBING SIZE DEPTH
DRILL PIPE 4 1/2" DEPTH 760'
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT fresh water

OWNER Indian Oil Co.

CEMENT

AMOUNT ORDERED 170 sx 60:40:4% Gel

COMMON	102 sx	@ 15.45	1575.90
POZMIX	68 sx	@ 8.00	544.00
GEL	6 sx	@ 20.80	124.80
CHLORIDE		@	
ASC		@	
HANDLING	176	@ 2.40	422.40
MILEAGE	176/·10/25		440.00
		TOTAL	3107.10

EQUIPMENT

PUMP TRUCK # 414-302 CEMENTER Carl Badling
HELPER Ron Gilley
BULK TRUCK # 364 DRIVER Kevin W. (SB)
BULK TRUCK # DRIVER

REMARKS:

1st plug 760' - pump 50 sx
2nd Plug 350' - Pump 50 sx
3rd Plug 60' Pump 20 sx
Plug Rat Hole w/ 30 sx
Mouse Hole w/ 20 sx

SERVICE

DEPTH OF JOB	760'		
PUMP TRUCK CHARGE		1017.00	
EXTRA FOOTAGE		@	
MILEAGE	25	@ 7.00	175.00
MANIFOLD		@	
		TOTAL	1192.00

CHARGE TO: Indian Oil Co.
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

TOTAL

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

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

PRINTED NAME Rick Smith

SIGNATURE Rick Smith

ALLIED CEMENTING CO., LLC. 040682

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge

DATE 1-5-2010	SEC. 1	TWP. 30s	RANGE 15 w	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 9:30 Am
LEASE Lambert	WELL # 1		LOCATION Sun City KS. 5 N, ½ W, curve north & into			COUNTY Barber	STATE KS.
OLD ~~OR NEW~~ (Circle one)							

CONTRACTOR VAL #2

OWNER Indian Oil Co.

TYPE OF JOB surface

HOLE SIZE 12¼ T.D. 312'

CASING SIZE 8 5/8 DEPTH 309'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 250 MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 18 ¼ Bbls

CEMENT

AMOUNT ORDERED 220 sx 60:40:2% Gel + 3% cc

COMMON	132 sx	@ 15.45	2039.40
POZMIX	88 sx	@ 8.00	704.00
GEL	4 sx	@ 20.80	83.20
CHLORIDE	7 sx	@ 58.00	407.40
ASC		@	
HANDLING	231	@ 2.40	554.40
MILEAGE	231/-10/25		577.50
		TOTAL	4365.90

EQUIPMENT

PUMP TRUCK # 360-265 CEMENTER Carl Baldwin
HELPER Jason Thimesch

BULK TRUCK # 364 DRIVER CB

BULK TRUCK # DRIVER

REMARKS:

Run 309' 8 5/8 casing
Break circulation w/ Rig
Mix 220 sx 60-40-2+3% cc
Release plug
Displace with 18¼ Bbls
+ shut in, leave 20' Cement in pipe
Cement Did circulate

SERVICE

DEPTH OF JOB	309		
PUMP TRUCK CHARGE			1018.00
EXTRA FOOTAGE		@	
MILEAGE	25	@ 7.00	175.00
MANIFOLD		@	
		TOTAL	1193.00

CHARGE TO: Indian Oil Co.

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1- wooden plug	@	68.00
	TOTAL	68.00

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

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Rick Smith

SIGNATURE Rick Smith

LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No.
15-007-23,635-00-00

Company: Indian Oil Company
Well: Lambert No.1
Field: Wildcat
County: Barber State: Kansas

Location: SW SE SW NW
2550' FNL & 750' FWL

Sec: 1 Twp: 30S Rge: 15W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum: Ground Level Elevation 1893
Log Measured From: Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

Elevation
K.B. 1903
D.F.
G.L. 1893

Date	1/13/2011			
Run Number	One			
Depth Driller	4670			
Depth Logger	4673			
Bottom Logged Interval	4672			
Top Log Interval	300			
Casing Driller	8.625 @ 307			
Casing Logger	307			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	5,000			
Density / Viscosity	9.4	57		
pH / Fluid Loss	10.5	8.8		
Source of Sample	Flowline			
Rm @ Meas. Temp	.5 @ 54			
Rmf @ Meas. Temp	.38 @ 54			
Rmc @ Meas. Temp	.68 @ 54			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.22 @ 125			
Operating Rig Time	4 1/2 Hours			
Max Rec. Temp. F	125			
Equipment Number	15			
Location	Hays			
Recorded By	C. Desaire			
Witnessed By	Anthony Farrar			

<<< 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
Coats, 3 W,
1 S, 1 W, 3 S,
1 1/2 W, N Into

Database File: c:\warrior\data\indian oil_lambert no.1\indianhd.db
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Dataset Creation: Thu Jan 13 15:39:49 2011
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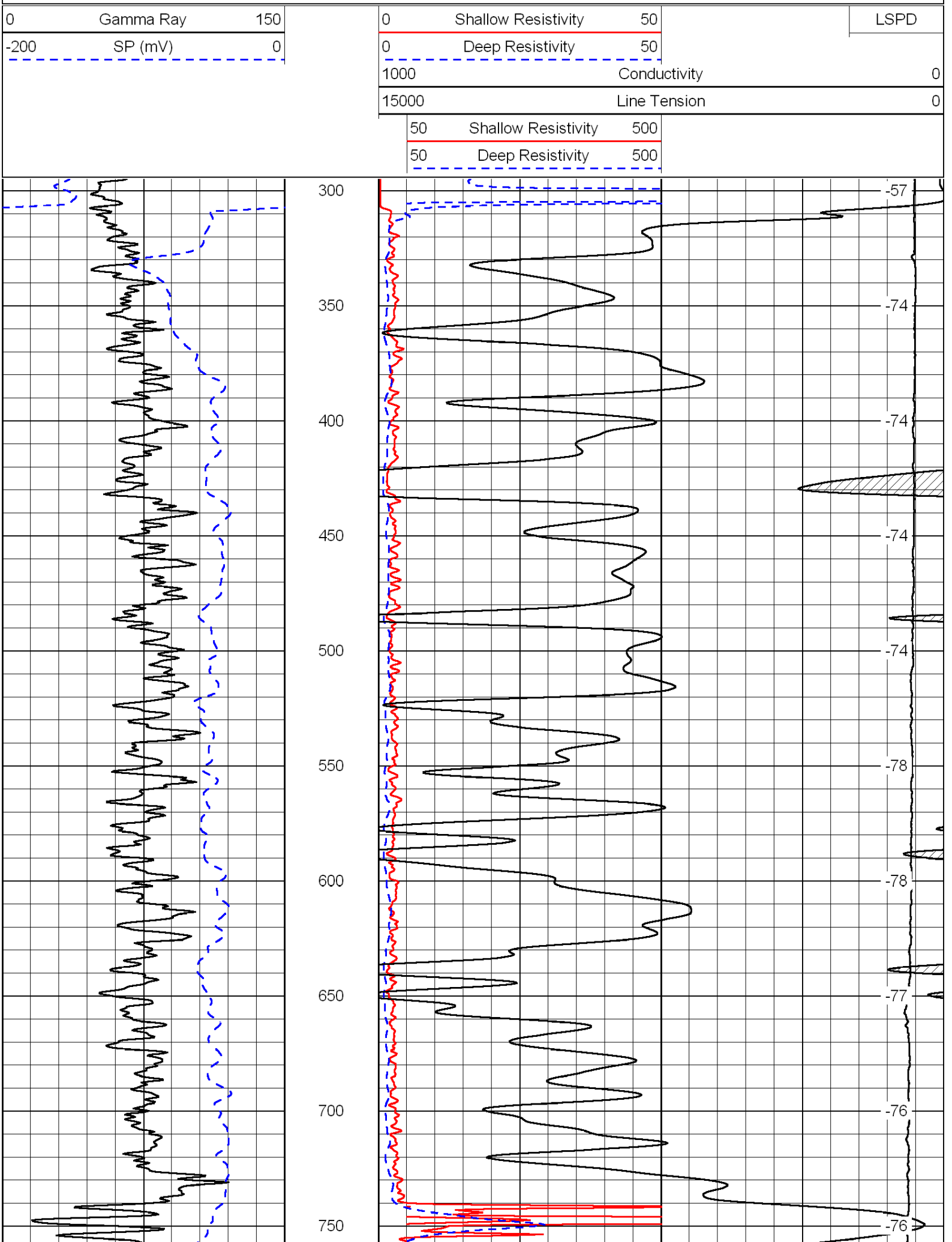
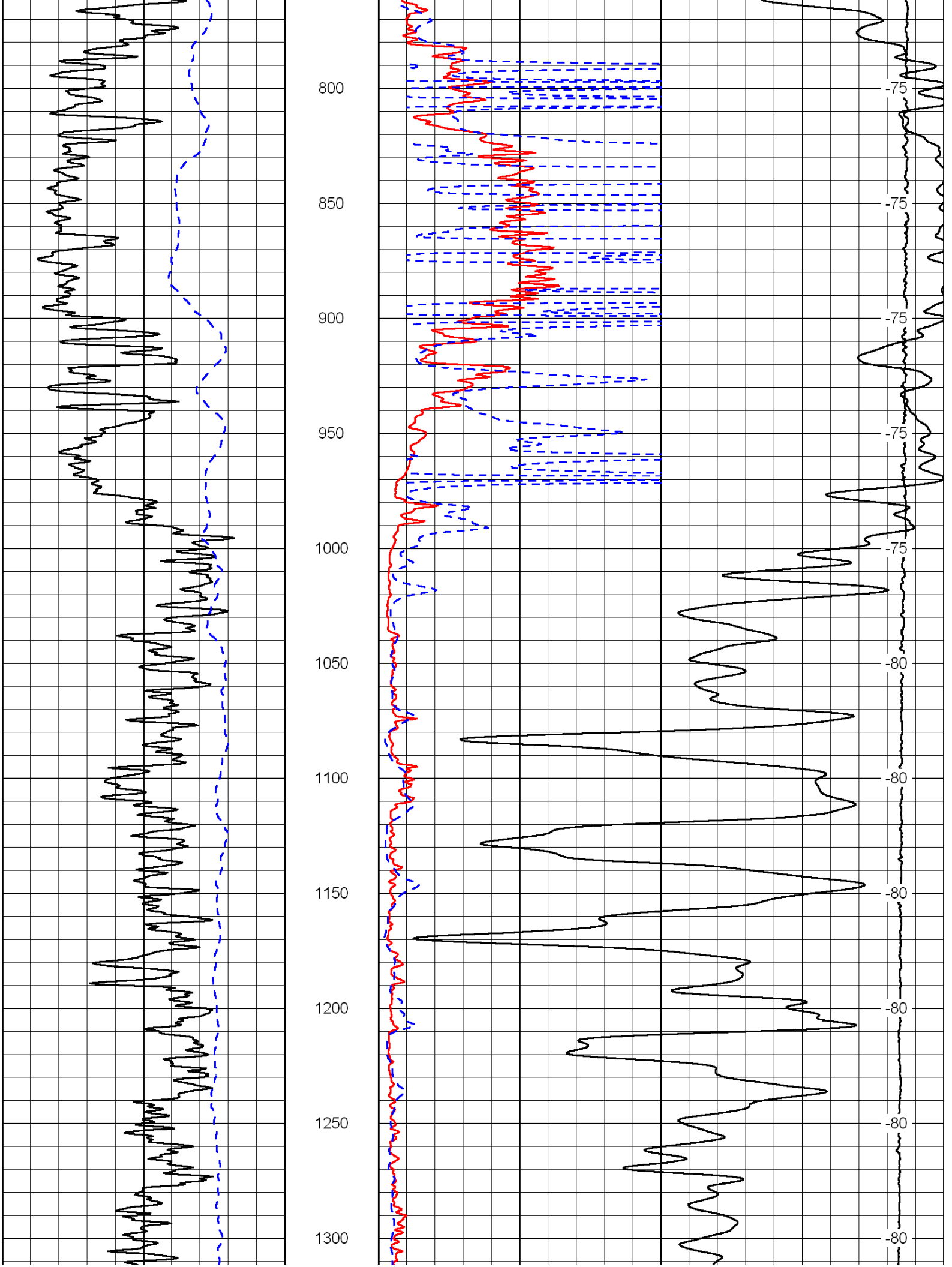
Charted by: Depth in Feet scaled 1:500

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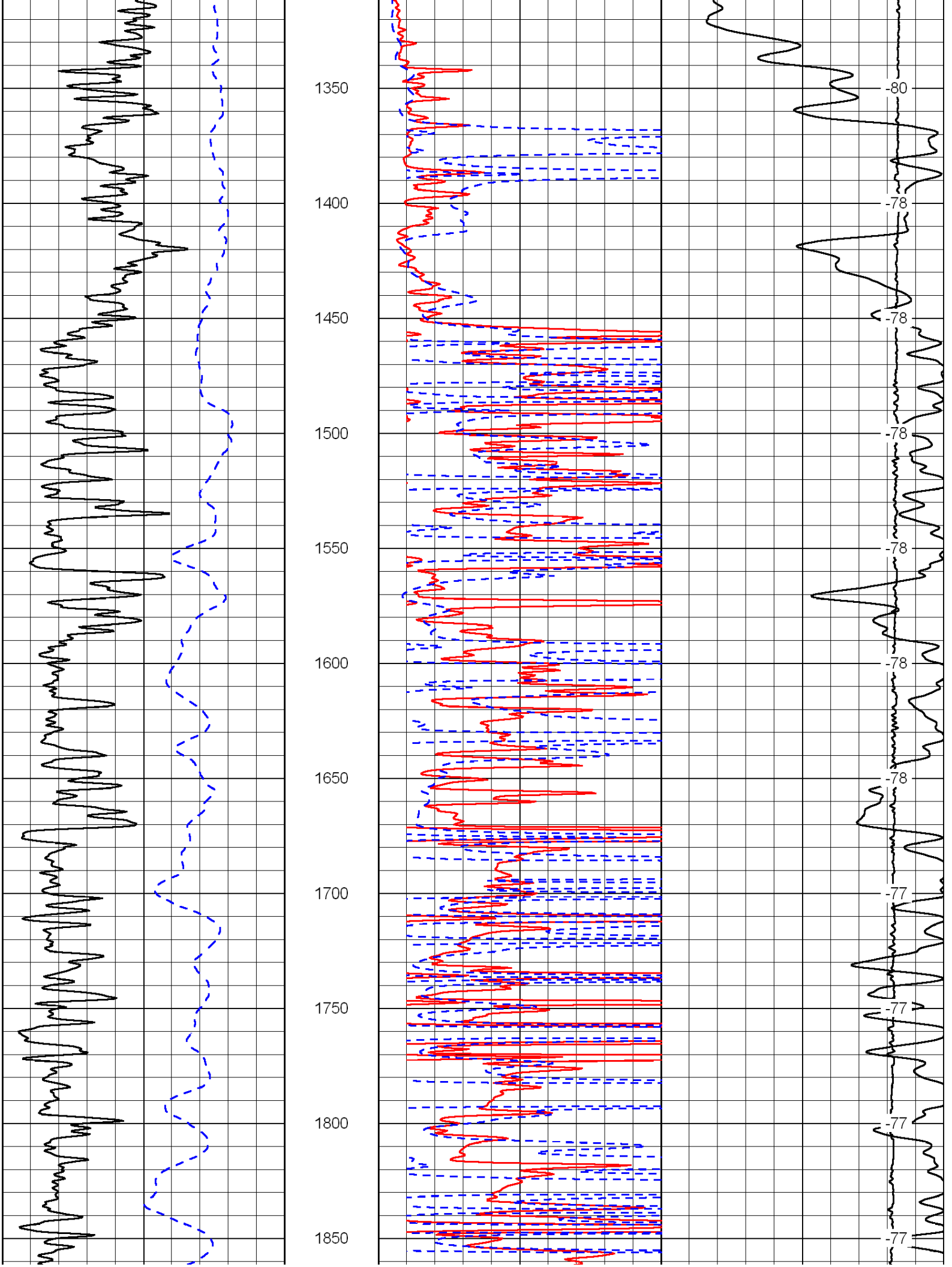
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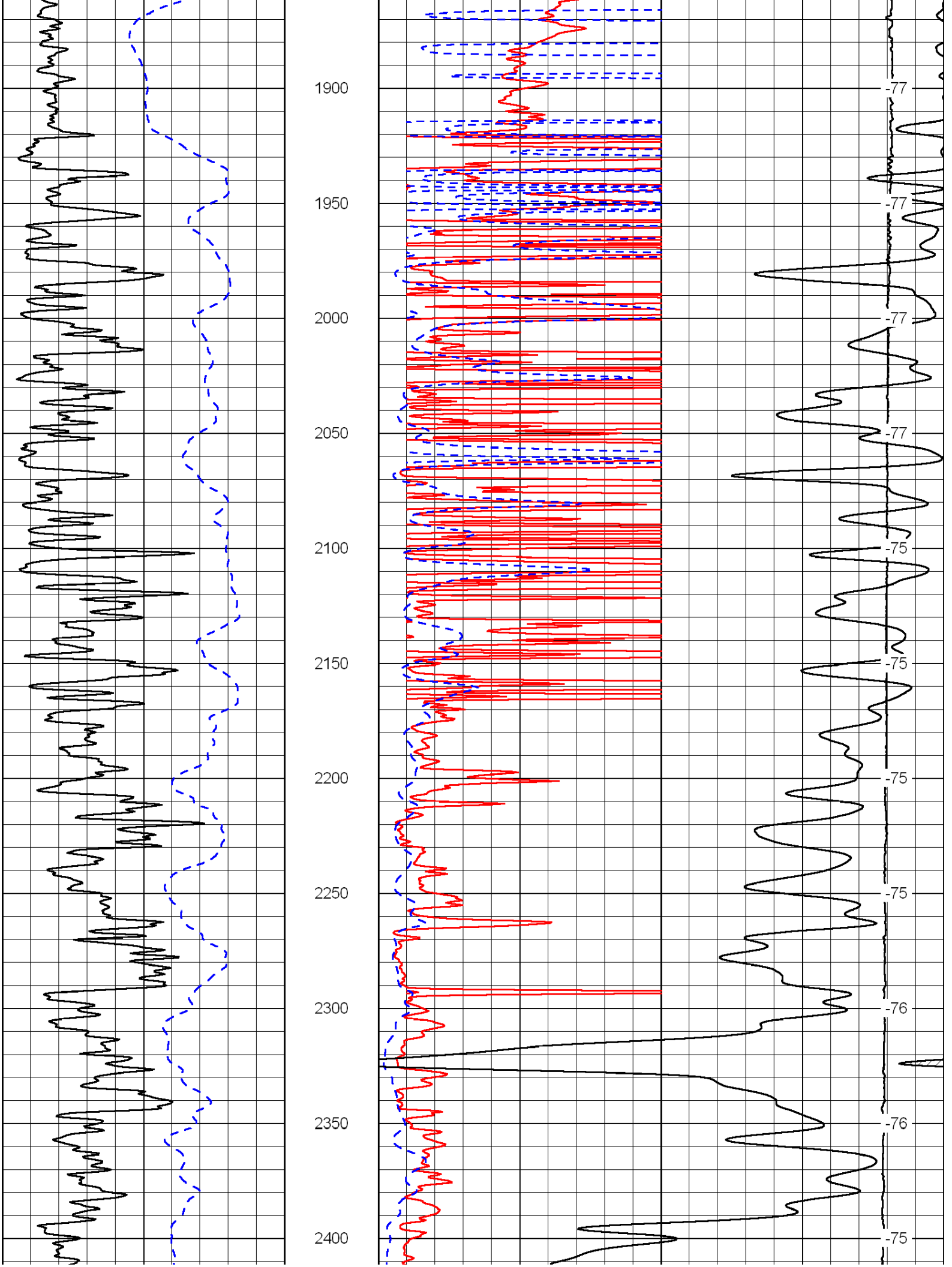
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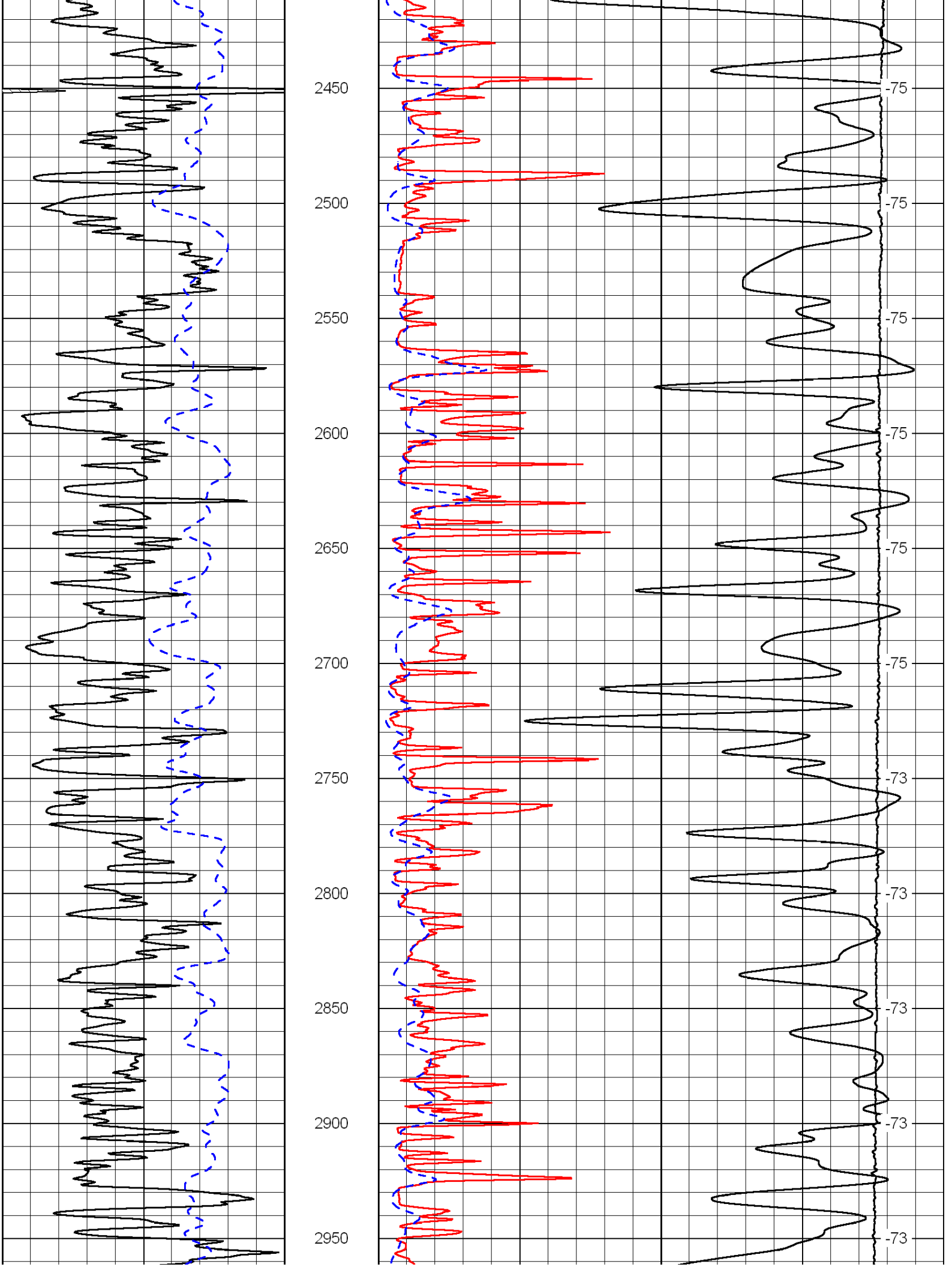
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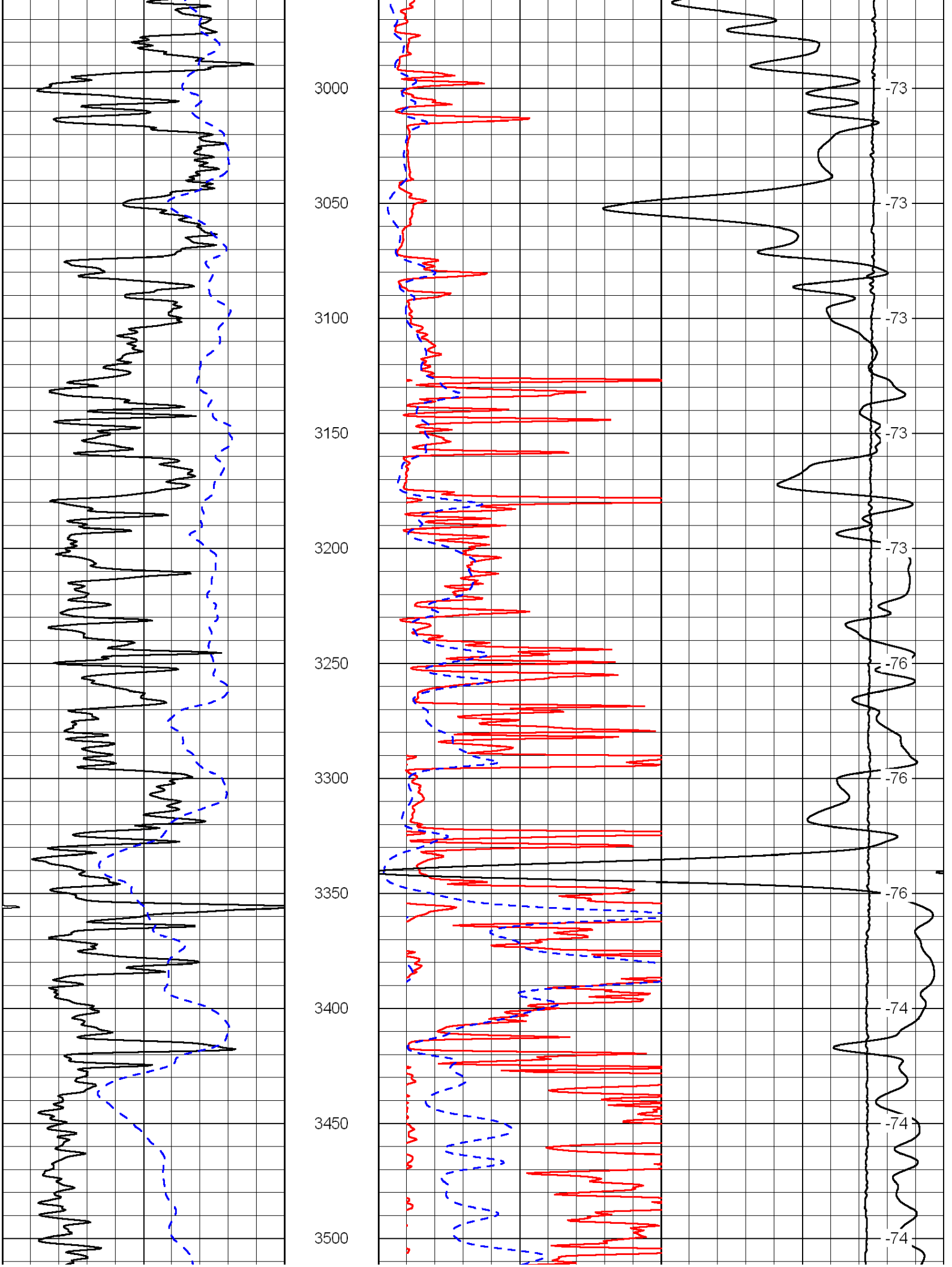
-73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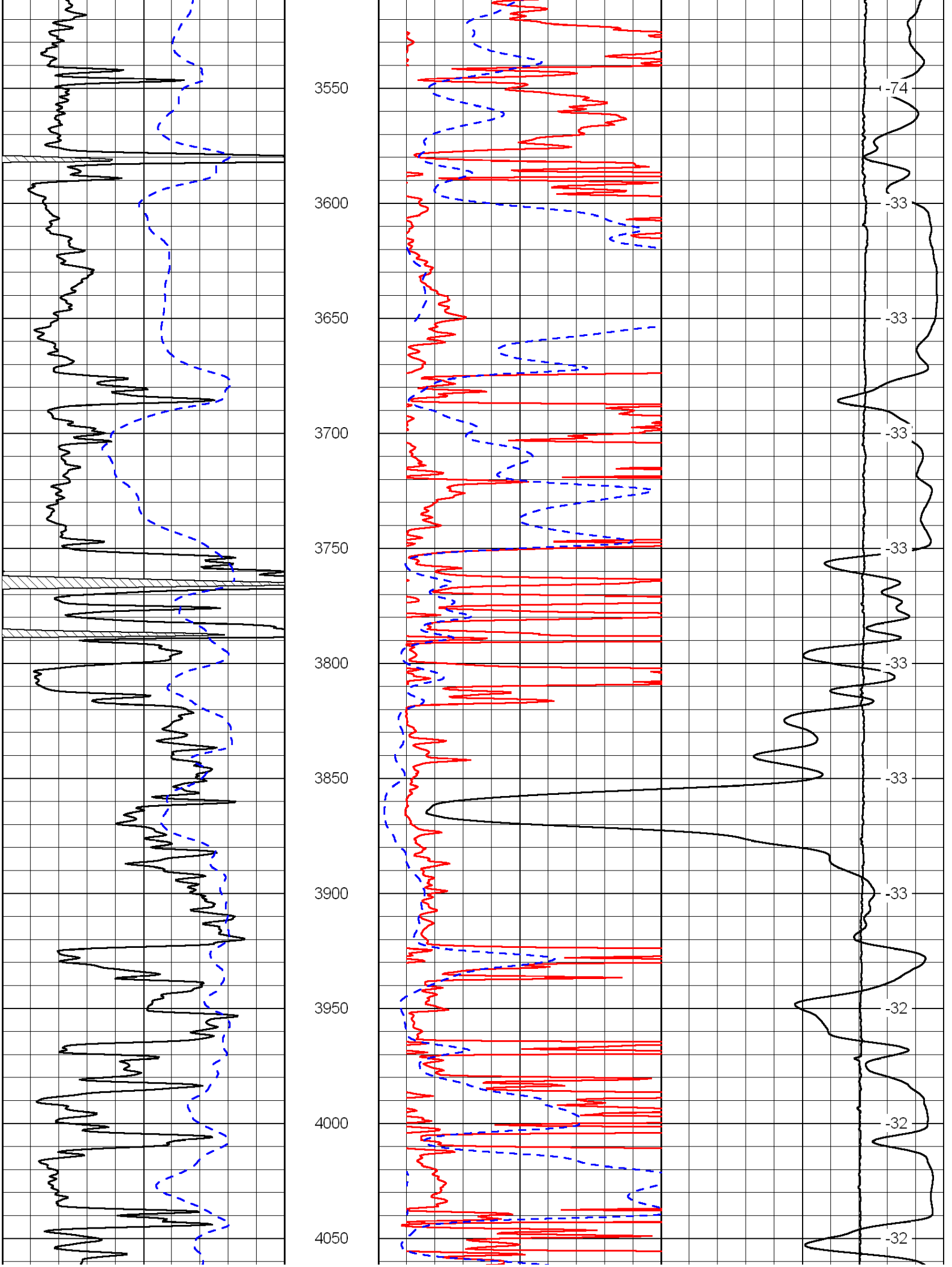
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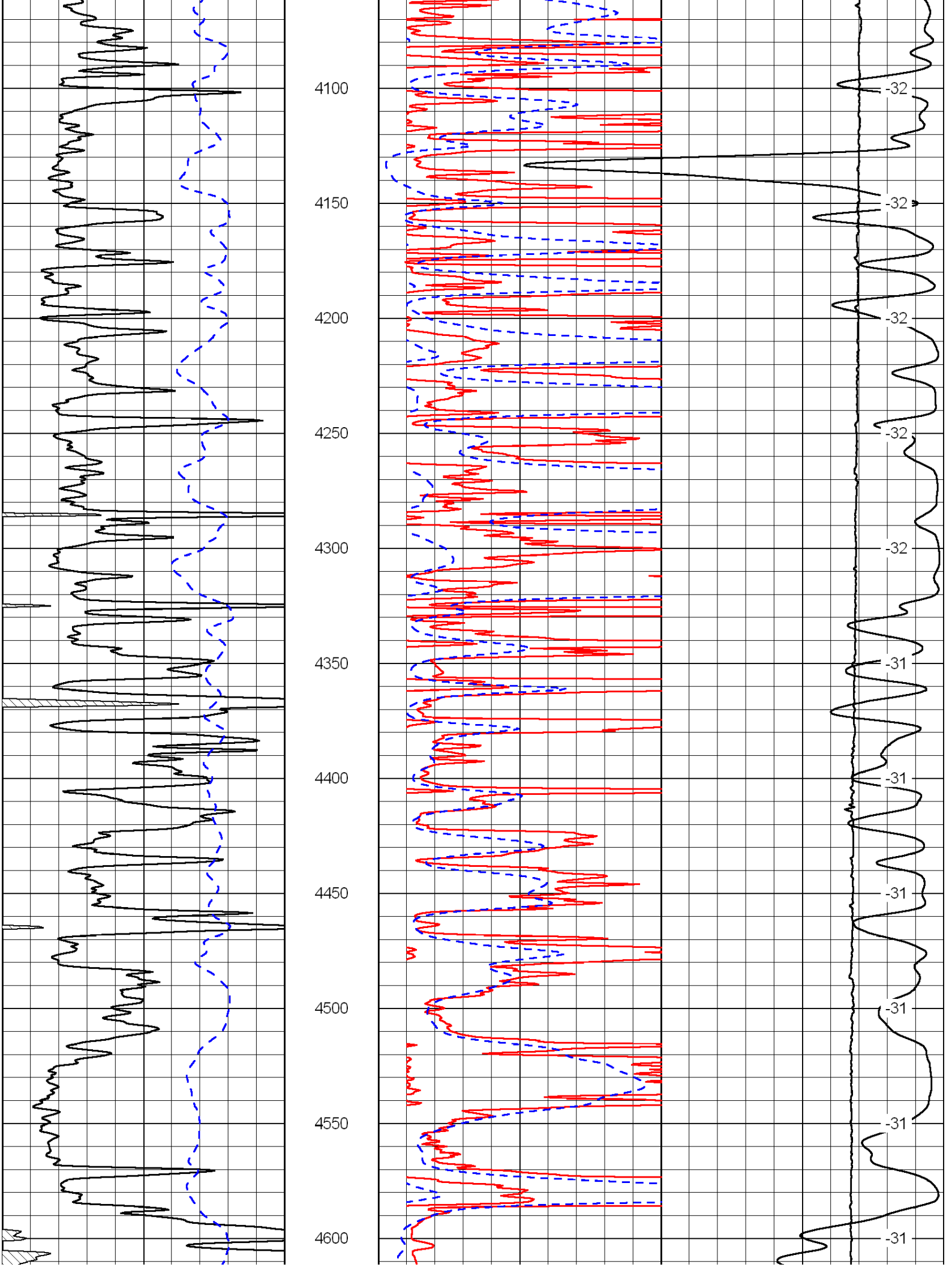
-32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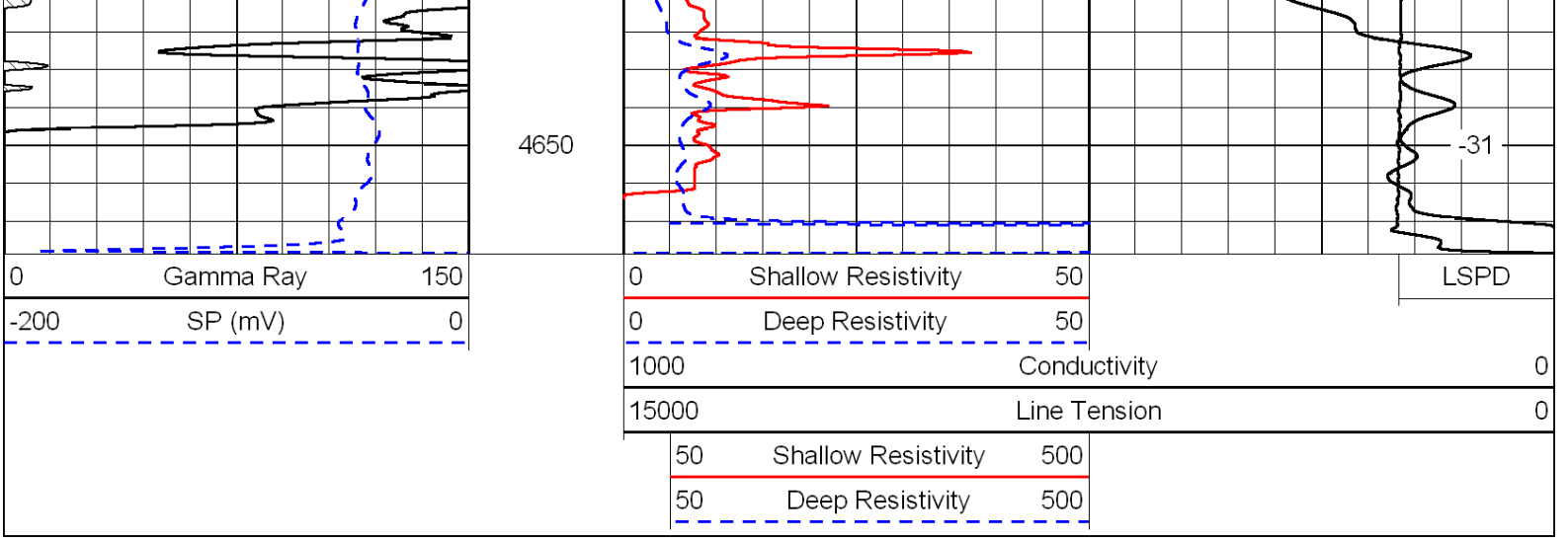

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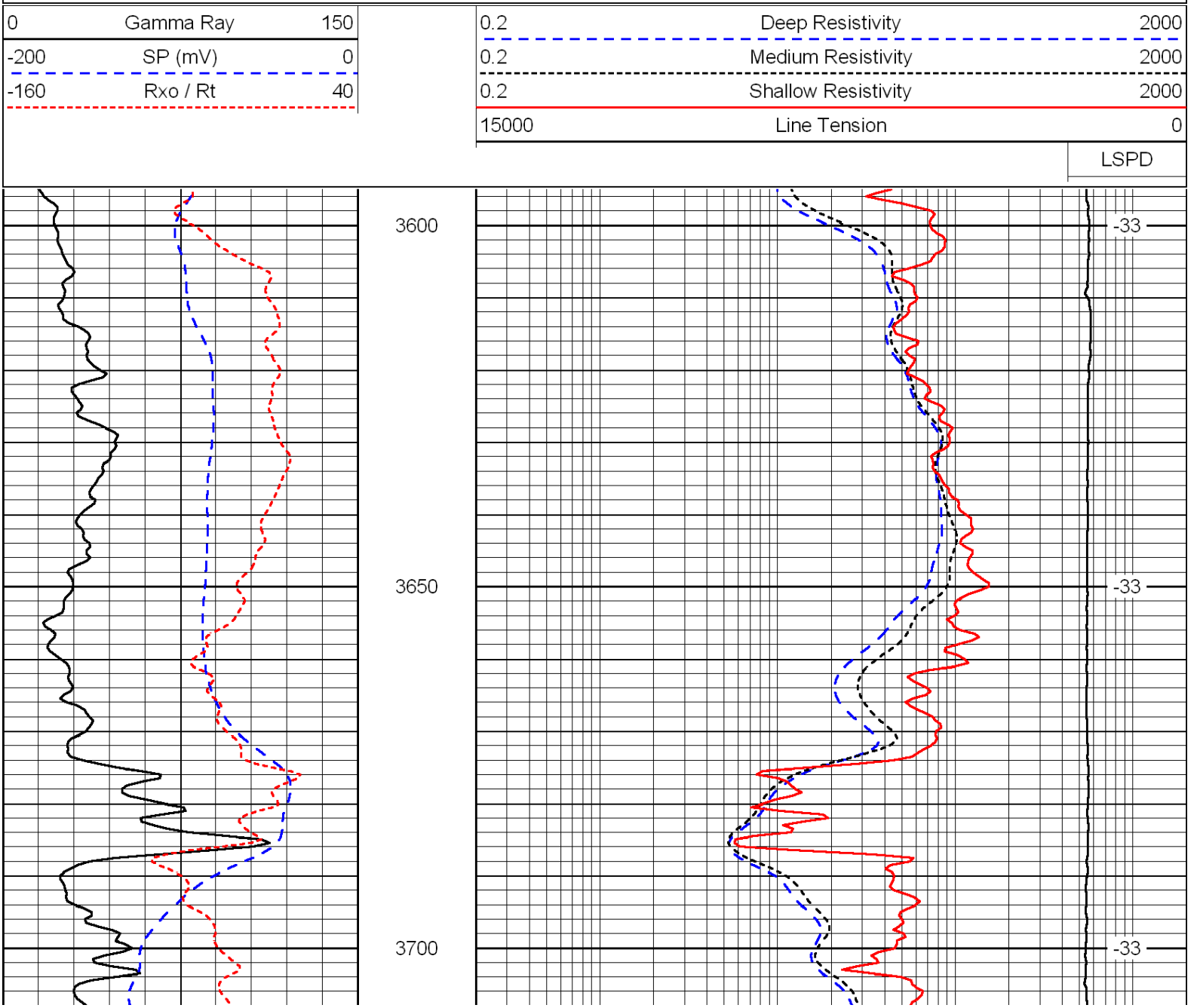
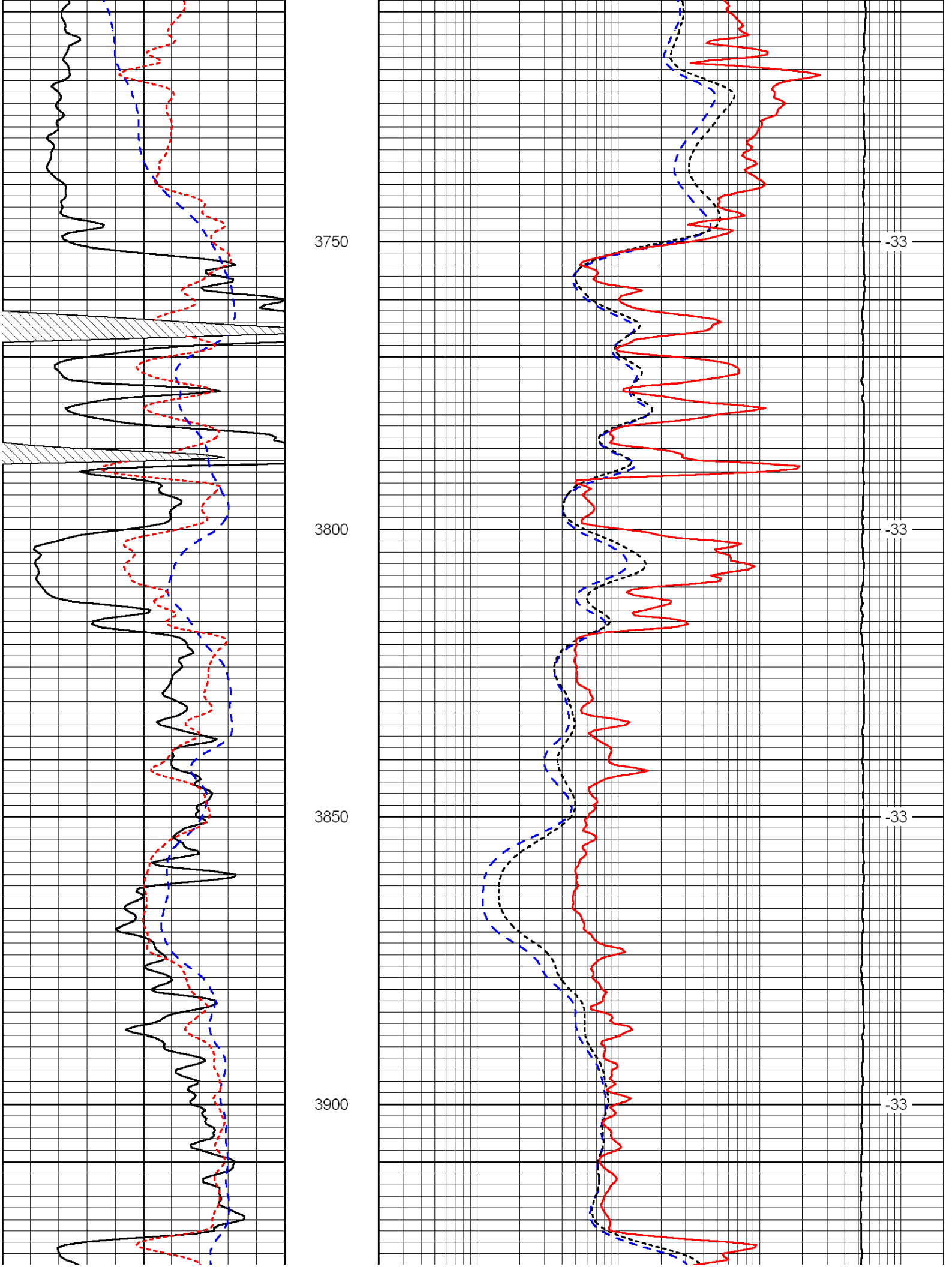
Presentation Format: dil
Dataset Creation: Thu Jan 13 15:39:49 2011
Charted by: Depth in Feet scaled 1:240

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3850
3900
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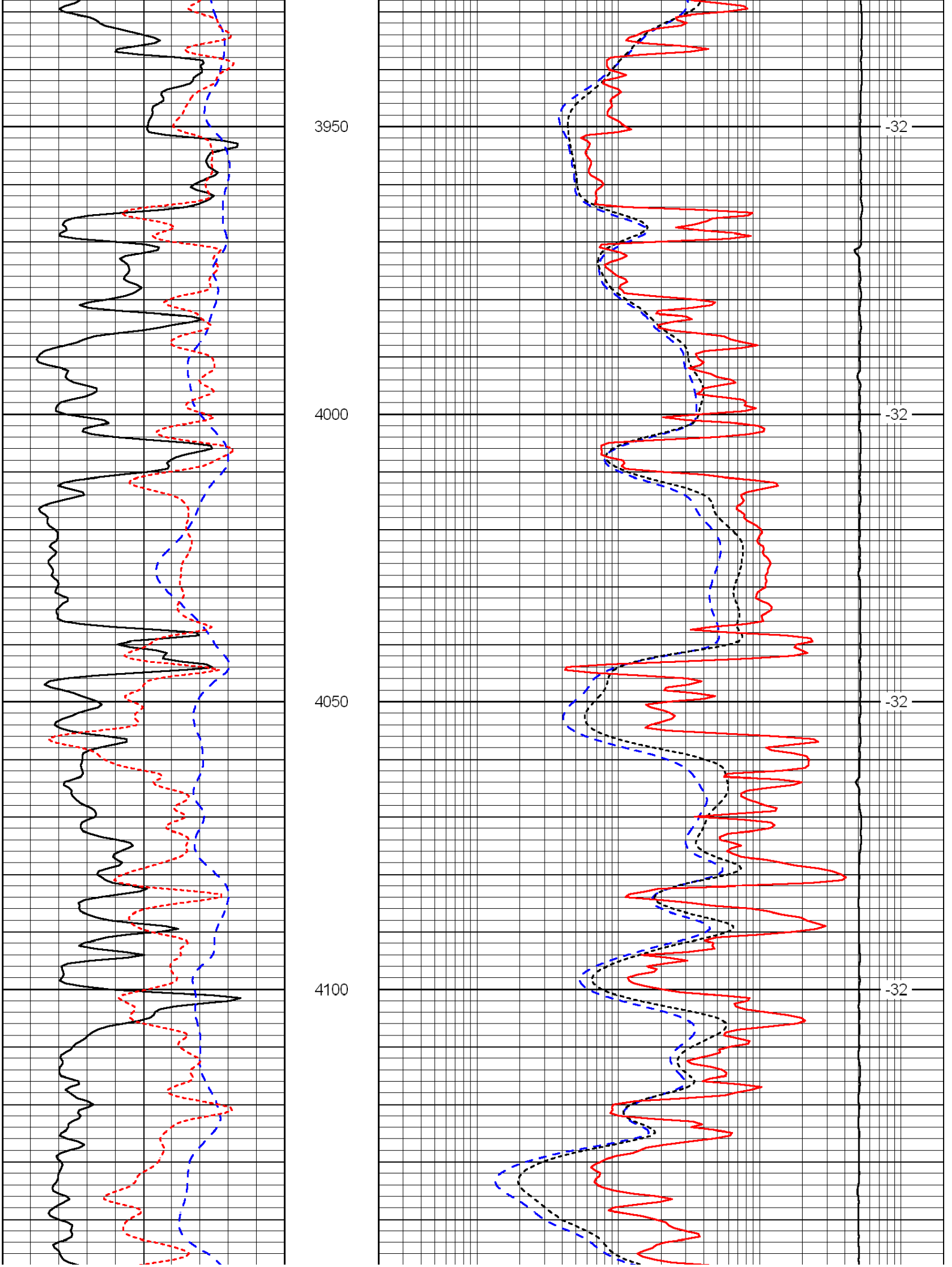
-33
-33
-33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4100
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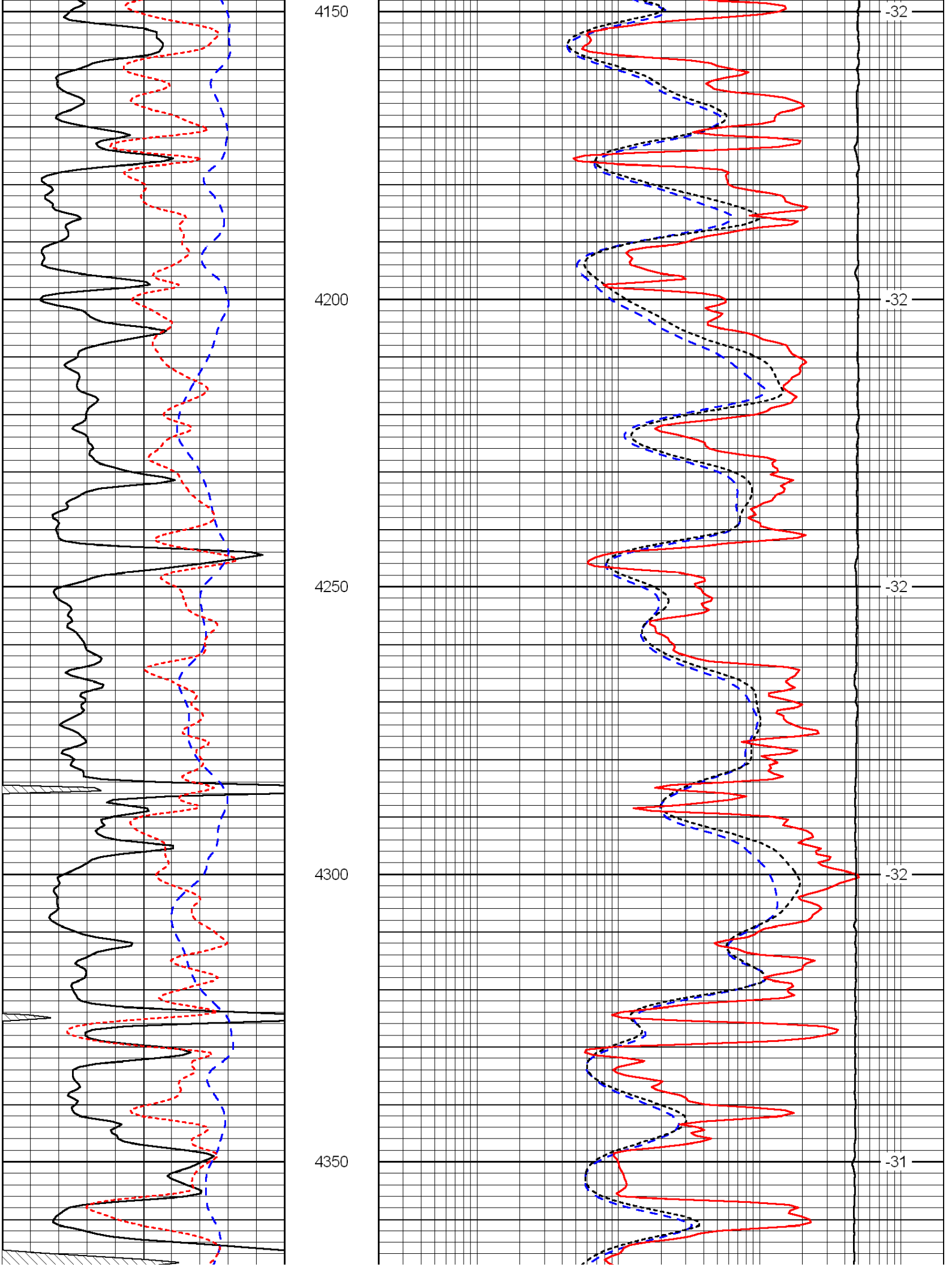
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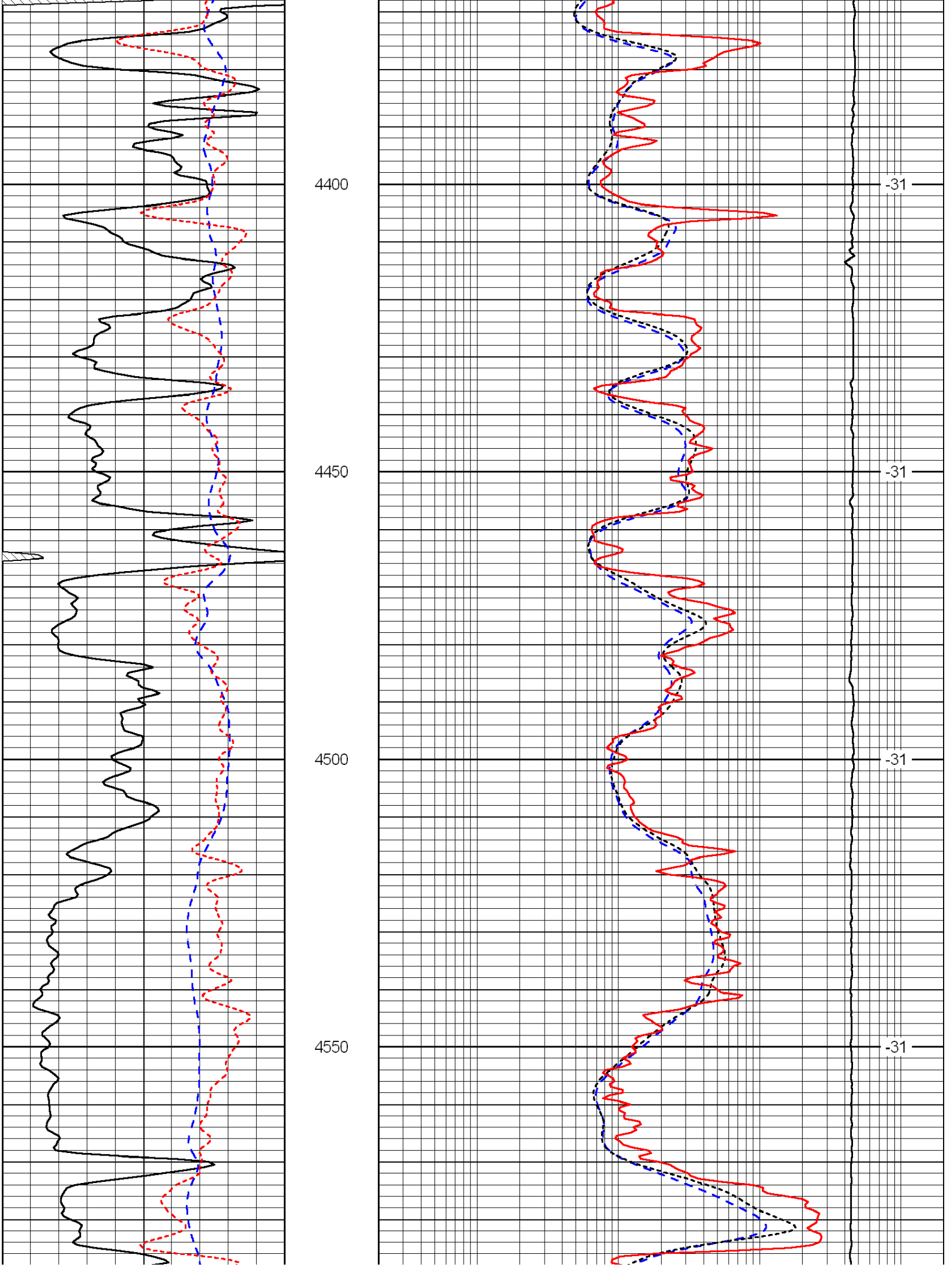
-31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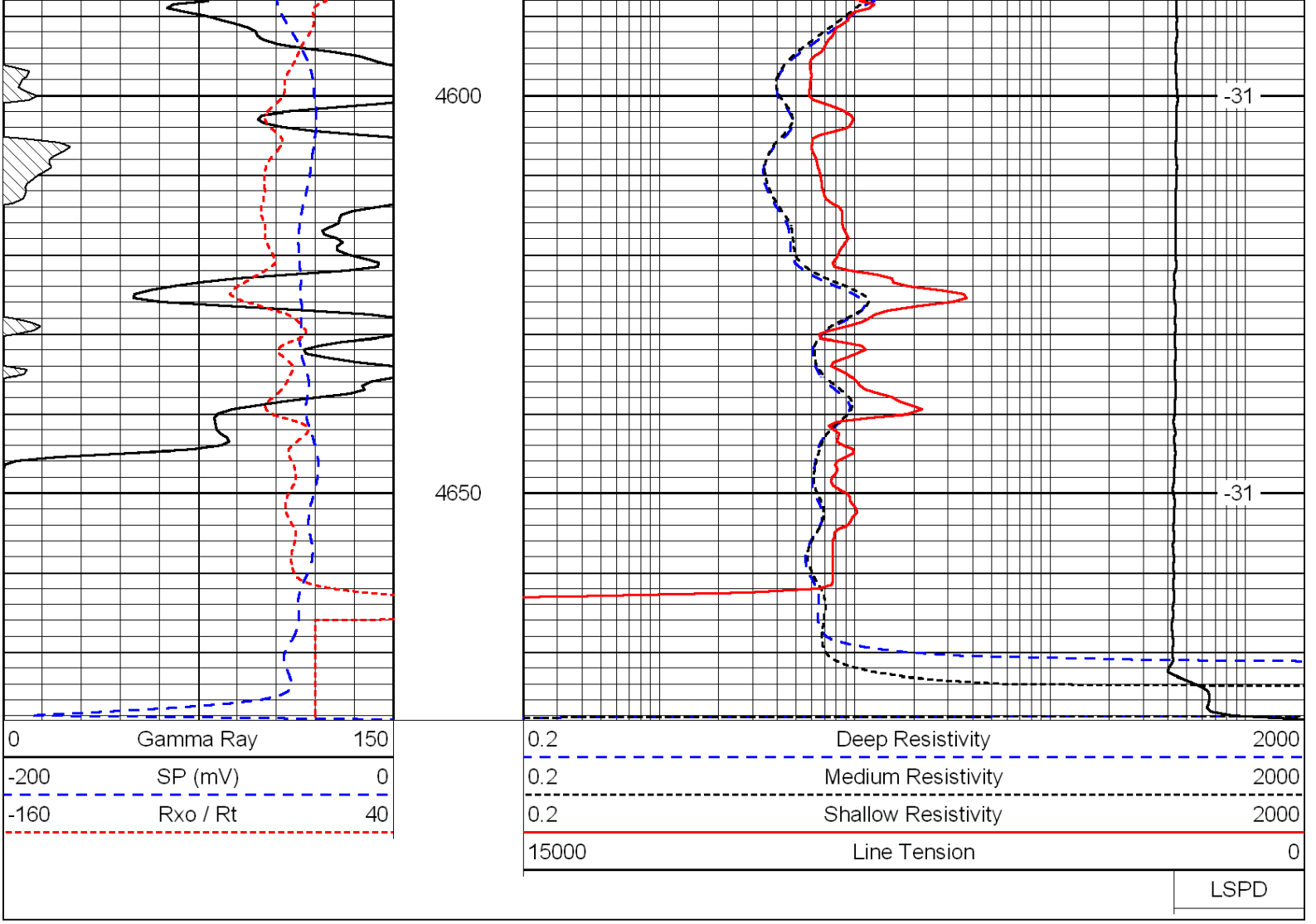
4550
-31
-31
-31
-31


4600
4650
-31
-31
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

Drum Wheel Not Engaged

Onaga Shale 2952 (-1049)

Sst., clear to grey-white, mica, silty, no visi
shows, possible 5 unit gas increase.

" Indian Cave"

Sst., a/a, very silty, mica, soft, no visible sh

Wabaunsee 2994 (-1091)

0 ROP (min/ft) 10
0 Gamma (API) 150

Limestone, cream-white, fxln, mottled, chal
foss.

Shale, Light grey, silty.

Shale, Light grey, silty.

a/a, traces of silty sand.

Limestone, tan-white, xln, slighly foss.

Sst., clear to grey, silty, mica, no visible sh

Shale, Light grey, silty.

Limestone, tan-white, xln, foss.

Limestone, cream, tan-white, xln, foss. in p

Shale, Light grey, silty.

Limestone, cream-white, fxln, trace fossils,
chalky in part.

Limestone, cream, tan, xln, slightly foss.

Limestone, cream, buff, xln, oolitic, foss.
fragments.

Limestone, cream, tan-white, foss., slightly
chalky.

Shale, Light Grey.

Limestone, cream, buff-white, fxln, oolitic,
of oolicastic porosity, fossil fragments, trac
vugular porosity, no visible shows.

Limestone, buff-white, tan, xln, dense.

Shale, light grey, trace of pryite.

Limestone, white, tan, xln, foss., foss. poro
no visible shows.

Limestone, tan-white, fxln, dense, trace of t
chert, some foss.

Limestone, tan, buff, xln, partly dense, cha
part.

Limestone, tan, buff, xln, partly dense, cha
part.

Shale, green.

Limestone, buff-white, xln, chalky, mottled
part. trace of tan-grey cherts.

Limestone, tan-buff, fxln, dense, chalky, sl.
trace of grey chert.

Limestone, buff-white, fxln, dense, slightly
no shows.

Limestone, buff, tan, xln, mottled, trace of
fossils.

Limestone, buff-white, xln, slightly shaley i
part.

Limestone, tan-white, fxln, mottled, shaley,
questionable sampes, poor quality.

Shale, dark grey.

Limestone, cream-white, xln, shaley.

Limestone, cream-white, tan-white, xln, slig
foss., abundant grey shales.

Limestone, tan-white, xln, grey shales, som
silty shale.

Shale, grey.

Limestone, cream-white, xln, slightly foss.,
chalky in part.

Limestone, off-white, xln, fossils, chalky.

Limestone, cream-white, fxln, chalky, sligh
foss.

Shale, Grey-black, fissle, carb.

Work on Auto Driller Freezing Off

Limestone, cream-white, xln, slightly chalk

Heebner Shale 3781(-1978)

Shale, grey-black, fissle, carb.

Limestone, grey-white, xln, dense.

Shale, Light grey.

Limestone, cream-white, fxln, succ., xln
porosity, slightly chalky, no visible shows.

Shale, Light grey, silty to sandy.

Sst., clear to grey, fine grained, sub angula
sub rounded, mica, friable, no visible show

Shale, light grey, silty to sandy.

Shle, Light grey, trace of brown limestone.

Limestone, tan-brown, mxln, oolitic, mottl
trace of scattered sst.

Shale, Light grey, silty.

Brown Lime 3970(-2067)

Limestone, tan, brown, fmxln, dense, sligh
foss., no visible shows

Lansing 3980(-2077)

Limestone, grey-white, fxln, slightly foss.,
mottled in part. no visible shows.

Shale, Light grey.

Limestone, cream-white, vfxln, trace of xln
porosity, trace of light show of oil under ul
violet light. very faint odor.

CFS 4036'

Limestone, buff-white, xln, slightly succ., f
odor, questionable light staining.

Limestone, tan-brown, xln dense, slightly f

Limestone, buff-white, cream, slightly ooli
trace of oolicastic porosity, foss. in part.

Limestone, cream-white-grey, fxln, slightly

Limestone, cream, xln, trace of xln porosit
visible shows.

Limestone, grey-white, xln, partly dense, s
grey shales.

Limestone, grey-brepwn, tan, xln, foss. in p
trace of foss. porosity, slightly shaley.

Shale, grey.

Limestone, cream-tan, xln, partly dense.

Limestone, cream-buff, fxln, foss. porosity,
visible shows.

Shale, Light grey, grey.

Limestone, cream-white, fxln, oolitic, oolic
porosity, xln porosity, faint odor, scattered
staining, light show of oil, light fluorescen

CFS 4170'

Limestone, buff-white, xln, partly dense, tr
fossils, chalky in part.

Shale, Light grey, grey

Limestone, buff, cream, fxln, trace of oolite
chalky, no visible shows.

Limestone, cream, tan-white, xln, foss. in p
chalky, trace of tan cherts.

Shale, Light Grey.

Limestone, buff-white, xln, trace fluor, very
show of light oil, no odor, possible increa
background gas.

Limestone, buff-white, cream, xln, foss in p
trace of white cherts.

Shale, grey, grey-black, slightly carb.

Limestone, cream-white, xln, trace of chert
slightly foss., no vixible shows.

Limestone, cream-buff, fxln, cherty, slightl
chaky, slightly foss.

Shale, grey-black, some green.

Limestone, cream, tan, xln, oolitic, trace of
no visible shows.

Limestone, tan-white, xln, foss., slightly fo

B/KC 4364(-2491)

Shale, grey

CFS 4380'

Limestone, tan-white, xln, dense.

Shale, grey-green, limey in part.

Limestone, cream-white, xln, dense, foss. i
part, chakly.

Shale, Light green-grey.

Limestone, cream, tan, xln, dense, foss in p

Shale, Light grey.

Limestone, tan-white, xln, dense, trace of f
trans. chert, slight brown oil staining, blac
residual staining, no odor, no show free oi

Cherokee Sand 4466 (-2563)

shale, Grey-Green

Sandstone, light brown, sub angular, medi
grained, well cemented in part, some friabl
light brown stainng, scattered fluor., faint
faint show of light oil.

CFS 4475'

Sandstone, a/a, grey-white, asphaltic staini
slight fluor, slight show of oil.

Conglomerate 4490(-2587)

CFS 4500'

Chert, varicloroed, sharp, some light
weathering, some red soft shale, some che
had dark residue, faint odor in one sample

Chert, clear to trans, weathered, few with s
to large vugs, dull fluor., slight show light
asphaltic staining, other bone white to
vari-colored with asphaltic staining.

Detrital Mississippian

Viola 4524(-2621)

Limestone, cream-white, xln, soft, very cha
abundent white to off-white chert, some sli
staining of edges of chert.

Chert, white, brown-white, tan, sharp, fres
slight staining on edges, sull min. fluor., n
odor.

Chert, white, tan-white, sharp, slight aspha
staining, dull min. fluor., slightly dolomiti
part.

Simpson Dolomite 4575(-2672)

Dolomite, tan, very sandy, abundant cherts

Simpson Shale 4586(-2683)

Shale, green, dark to light, trace of pyrite,
of small sand inclusions.

Shale, pale green, dark green, trace of fine
grained sandstone.

Sandstone, lt green to clear-frosted mediu
grained, trace of mica, glauc., well sorted,
friable, trace of pyrite, shaley in part.

Shale, green, firm, trace of pyrite.

Shale, green, firm, trace, sandstone, clear
green, friable.

RTD 4670'
LTD 4673'

LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

API No. 15-007-23,635-00-00

Company: Indian Oil Company
Well: Lambert No.1
Field: Wildcat
County: Barber State: Kansas

Location: SW SE SW NW
2550' FNL & 750' FWL
Sec: 1 Twp: 30S Rge: 15W

Other Services: DIL, MEL/BHCS

Permanent Datum	Ground Level	Elevation 1893	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		

Elevation: K.B. 1903, D.F., G.L. 1893

Date	1/13/2011		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	4670		
Depth Logger	4673		
Bottom Logged Interval	4652		
Top Logged Interval	3600		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	5,000		
Density	9.4		
Level	Full		
Max. Rec. Temp. F	125		
Operating Rig Time	4 1/2 Hours		
Equipment -- Location	15	Hays	
Recorded By	C. Desaire		
Witnessed By	Anthony Farrar		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	307	8.625	24#	00	307
2	7.875	307	4670				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

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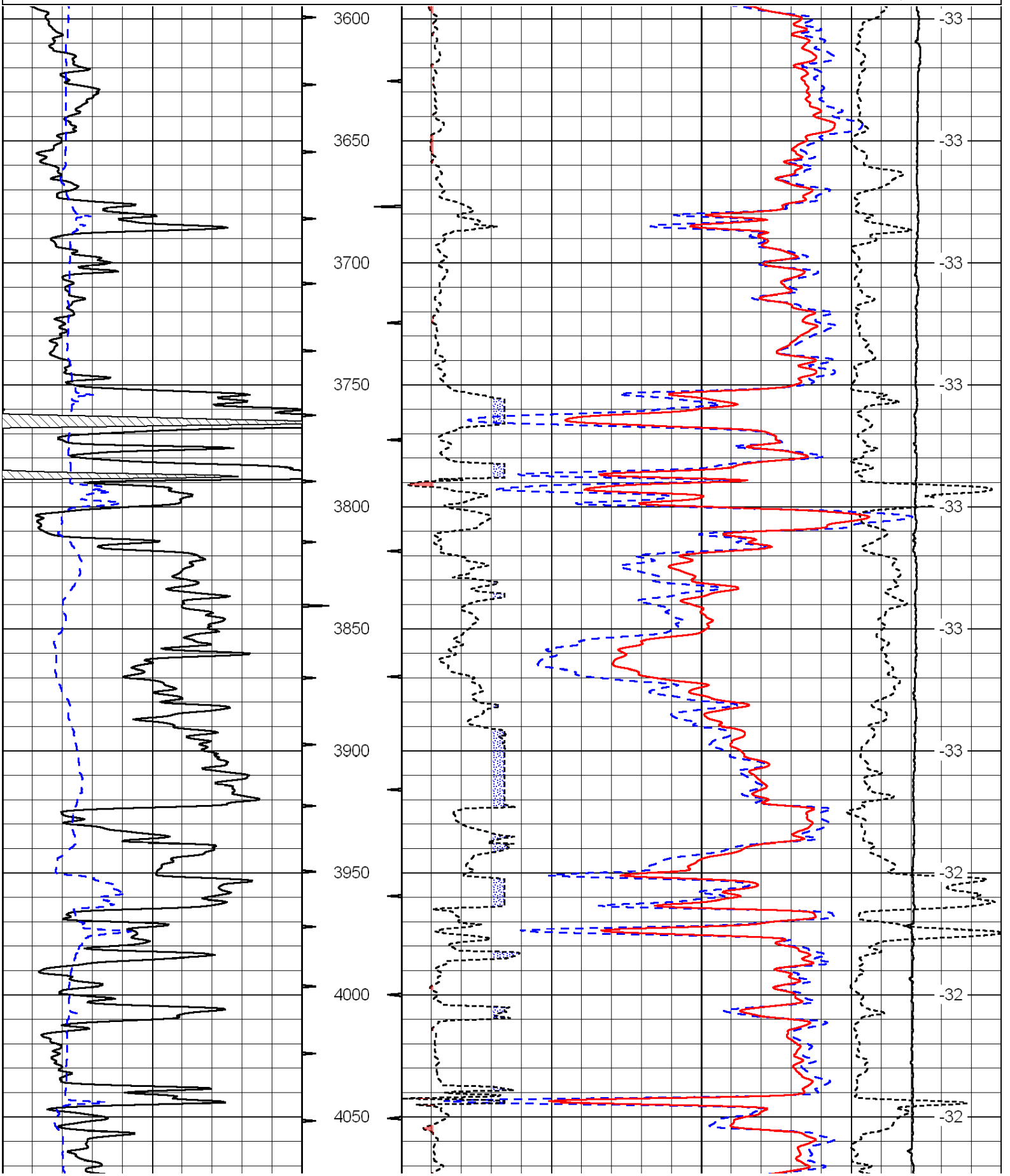
Coats, 3 W,
1 S, 1 W, 3 S,
1 1/2 W, N Into

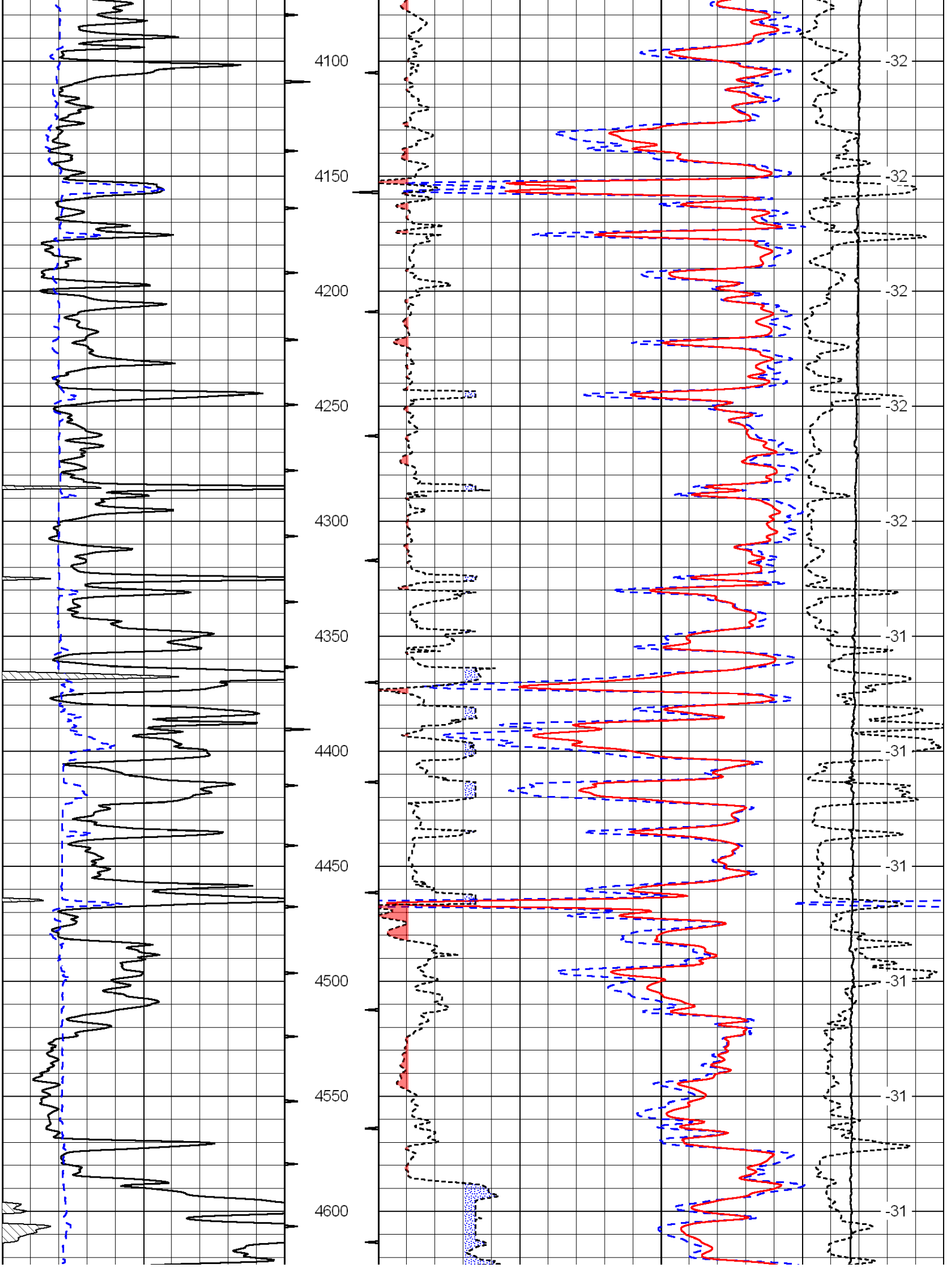
Database File: c:\warrior\data\indian oil_lambert no.1\indianhd.db
Dataset Pathname: dil//indstk
Presentation Format: cdl
Dataset Creation: Thu Jan 13 15:39:49 2011
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

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




4100
4150
4200
4250
4300
4350
4400
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4600
-32
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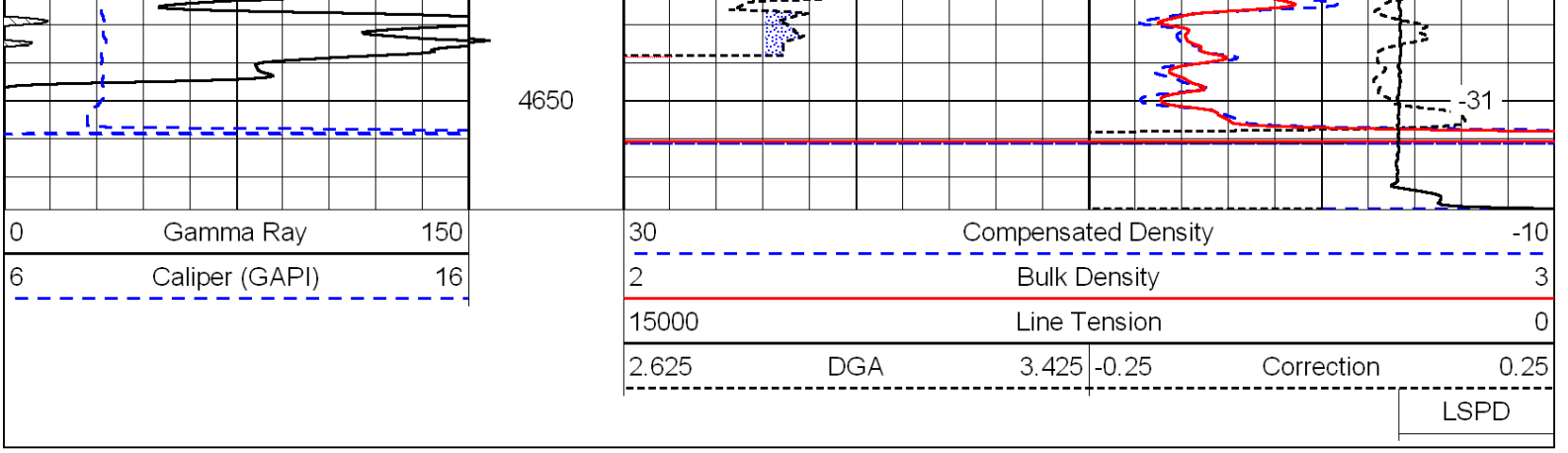

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Presentation Format: cndlspec
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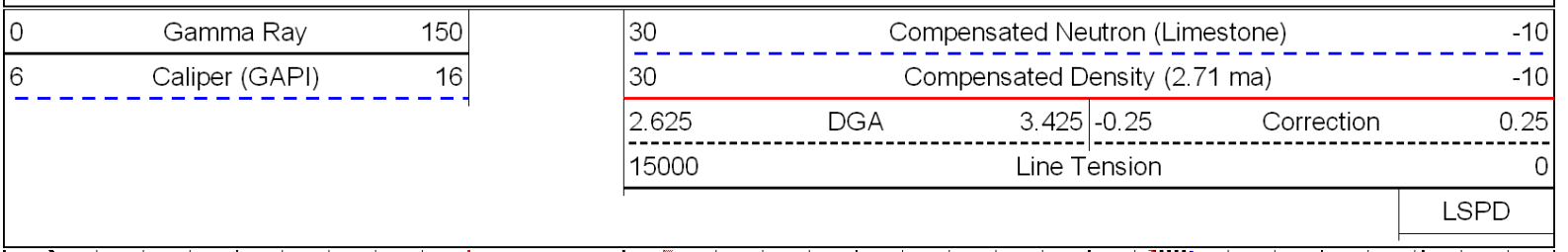
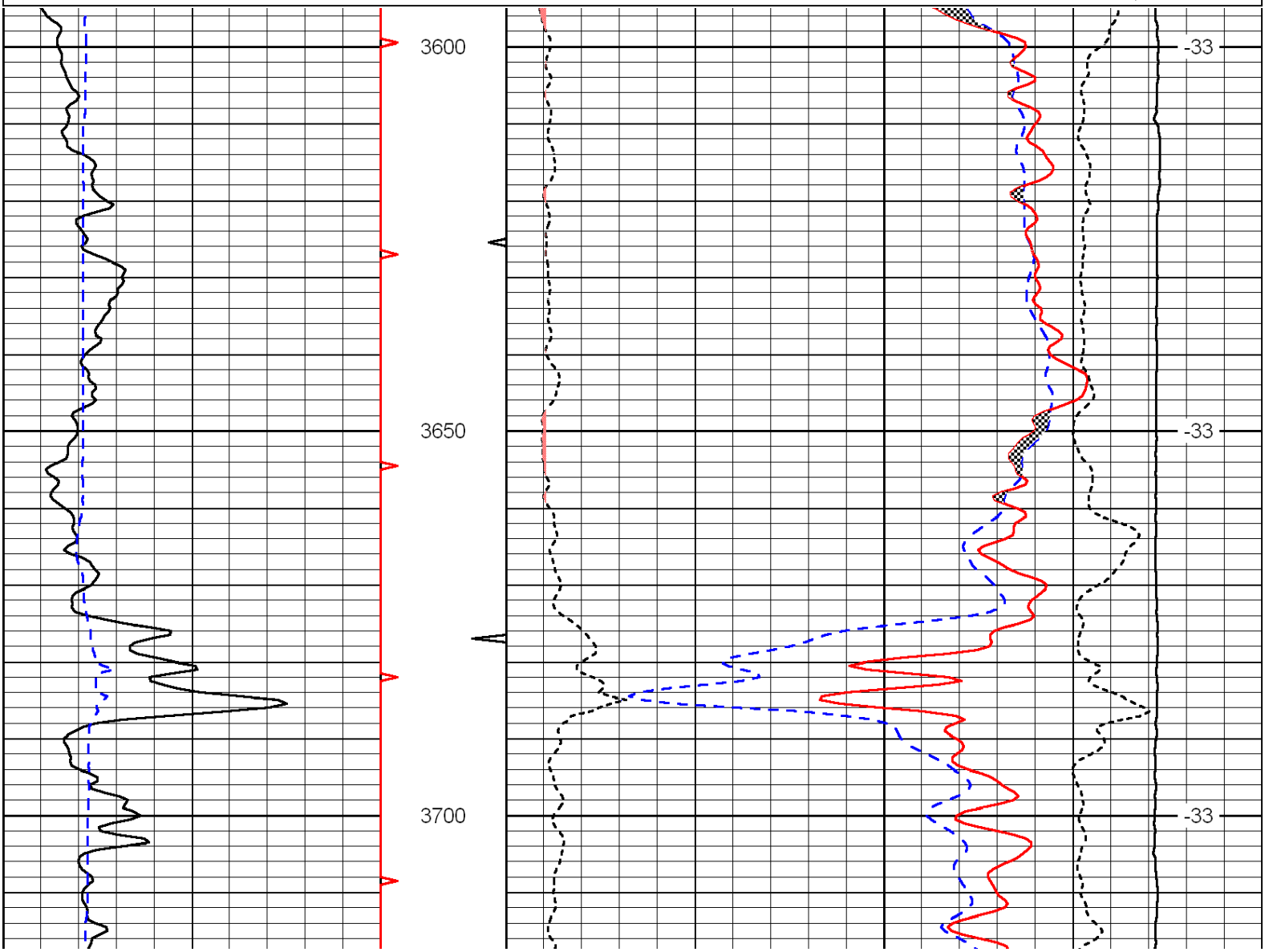
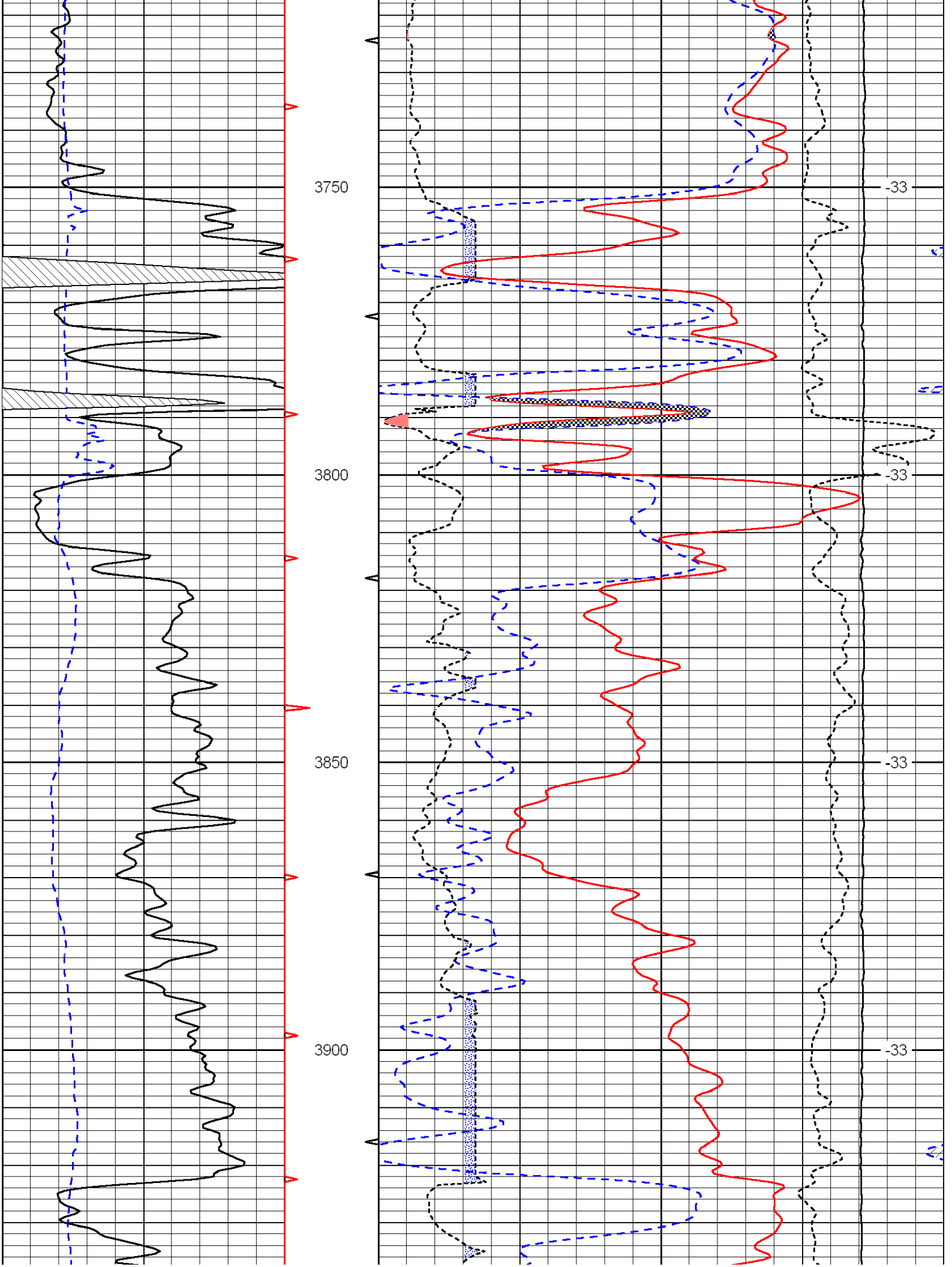
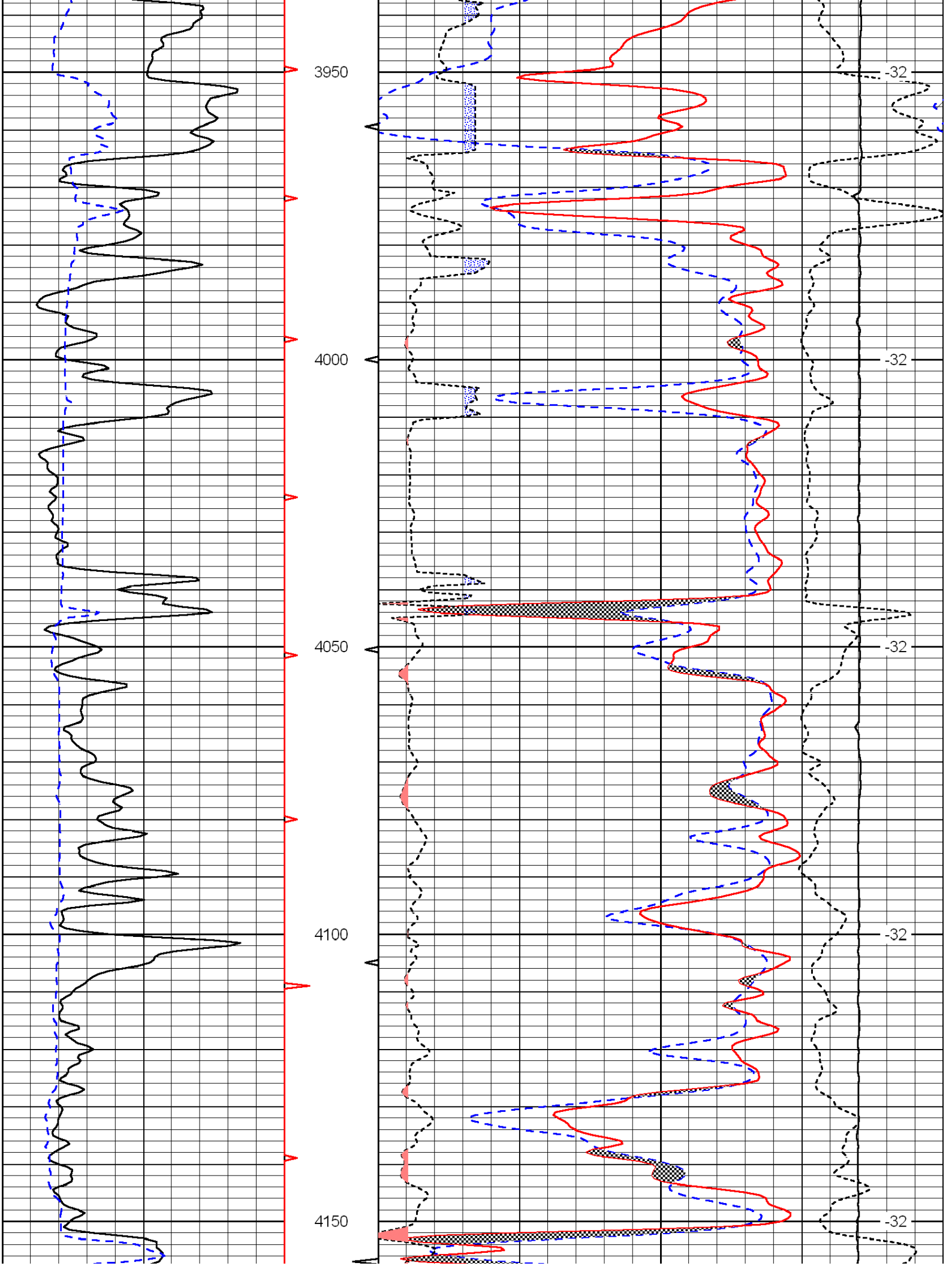
Charted by: Depth in Feet scaled 1:240






3750
3800
3850
3900
-33
-33
-33
-33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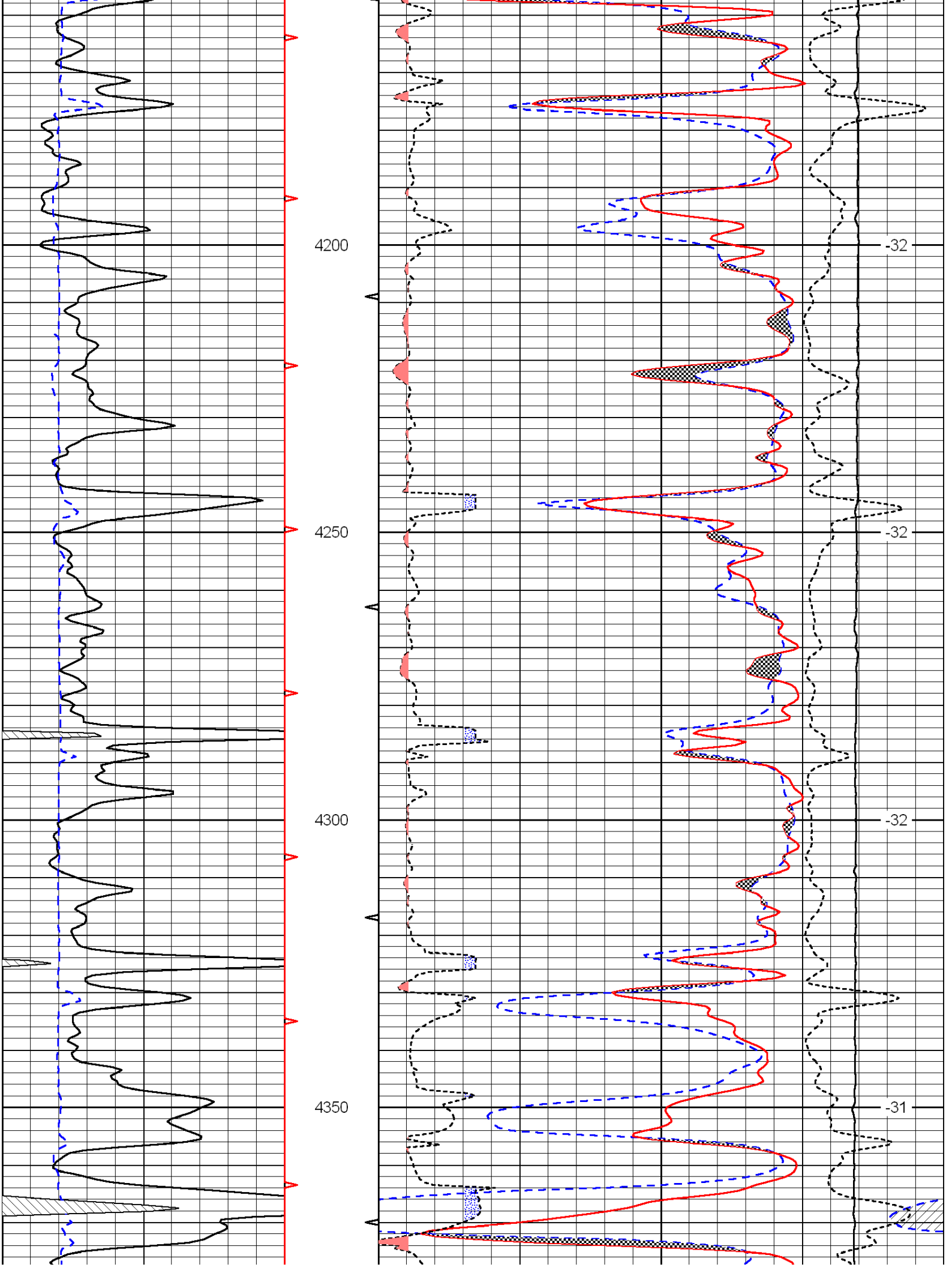
-32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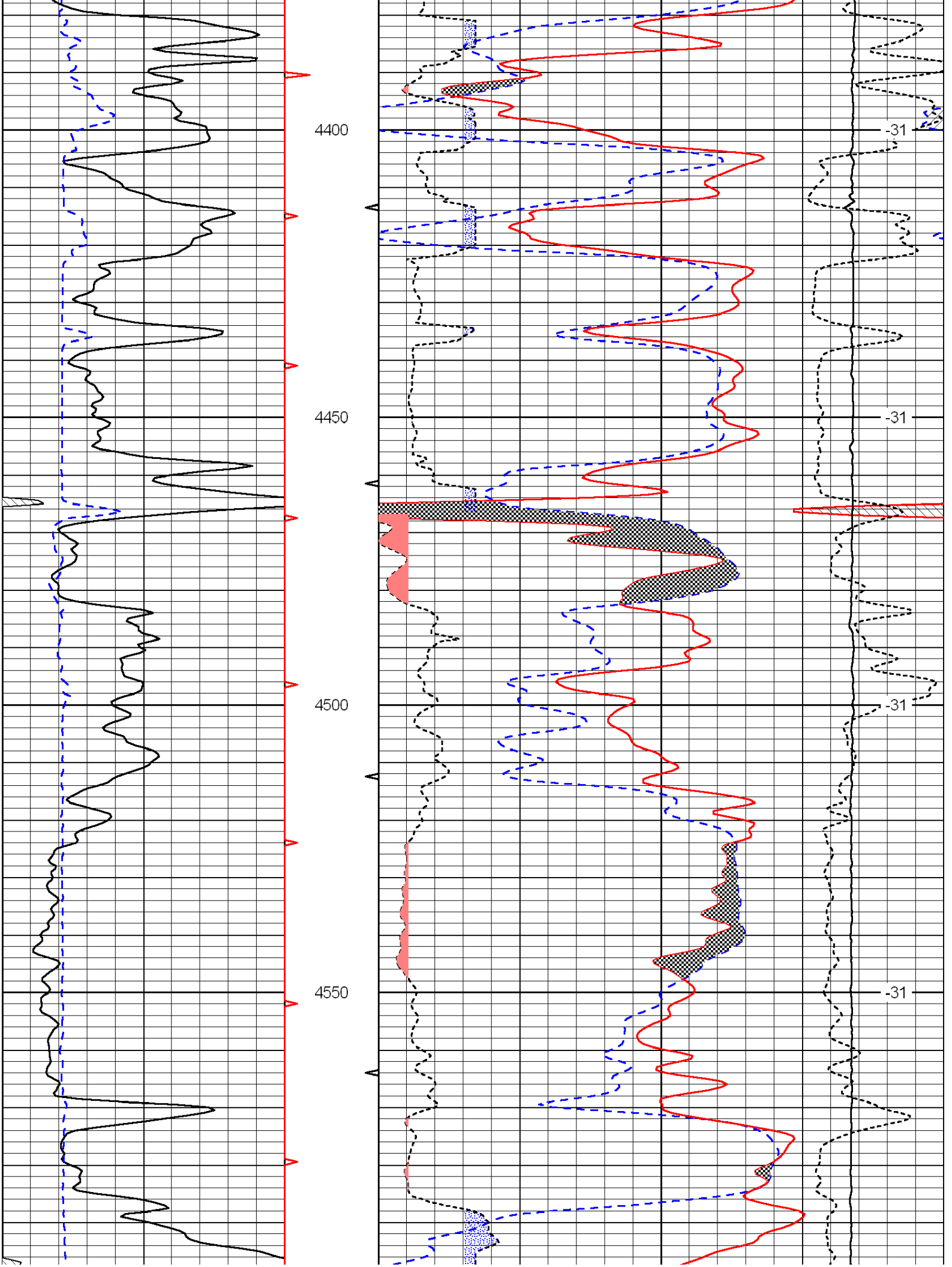
-32
-32
-31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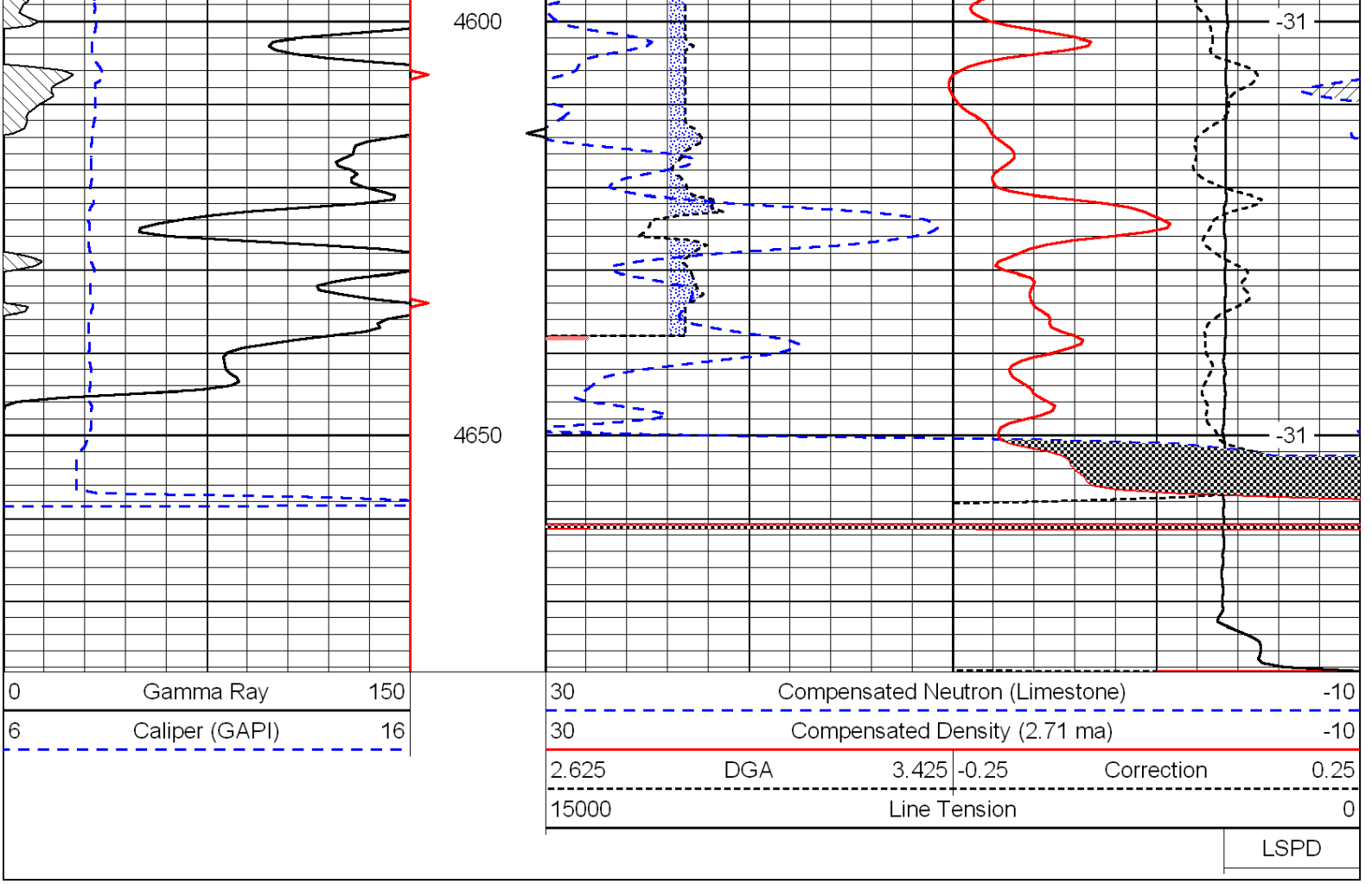
4450
4500
4550
-31
-31
-31
-31


4600
4650
-31
-31
0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Neutron (Limestone) -10
30 Compensated Density (2.71 ma) -10
2.625 DGA 3.425
-0.25 Correction 0.25
15000 Line Tension 0
LSPD

LOG-TECH

DIGITAL LOG (785) 625-3858

Microresistivity Log

API No. 15-007-23,635-00-00

Company: Indian Oil Company
Well: Lambert No.1
Field: Wildcat
County: Barber State: Kansas

Location: SW SE SW NW
2550' FNL & 750' FWL

Sec: 1 Twp: 30S Rge: 15W

Other Services: CNL/CDL, DIL/BHCS

Permanent Datum: Ground Level — Elevation 1893
Log Measured From: Kelly Bushing — 10 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

Elevation: K.B. 1903, D.F., G.L. 1893

Date	1/13/2011			
Run Number	Two			
Depth Driller	4670			
Depth Logger	4673			
Bottom Logged Interval	4672			
Top Log Interval	3600			
Casing Driller	8.625 @ 307			
Casing Logger	307			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	5,000			
Density / Viscosity	9.4	57		
pH / Fluid Loss	10.5	8.8		
Source of Sample	Flowline			
Rm @ Meas. Temp	.5 @ 54			
Rmf @ Meas. Temp	.38 @ 54			
Rmc @ Meas. Temp	.68 @ 54			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.22 @ 125			
Operating Rig Time	4 1/2 Hours			
Max Rec. Temp. F	125			
Equipment Number	15			
Location	Hays			
Recorded By	C. Desaire			
Witnessed By	Anthony Farrar			

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Comments

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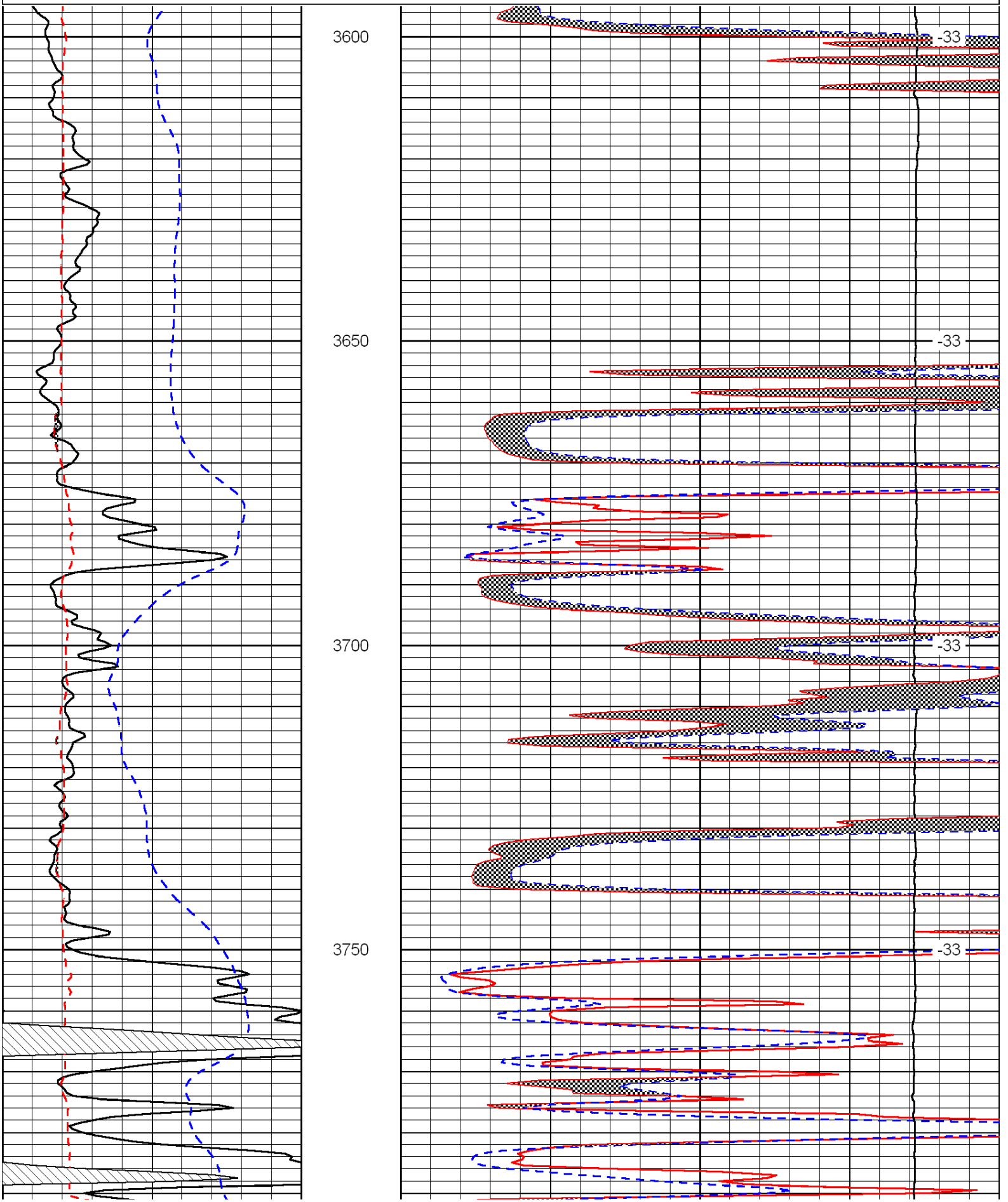
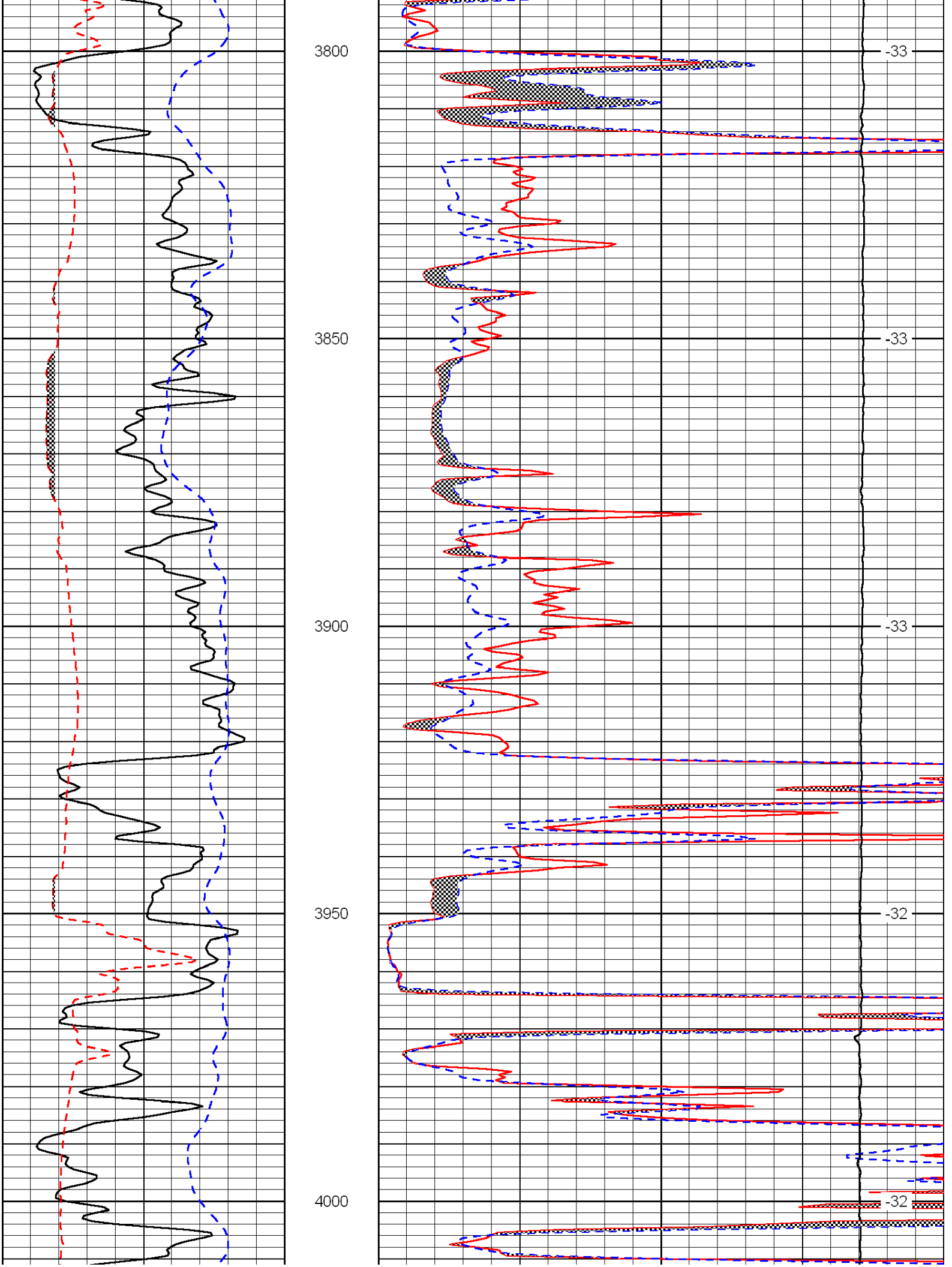
Database File: c:\warrior\data\indian oil_lambert no.1\indianhd.db
Dataset Pathname: dil//indstk
Presentation Format: micro
Dataset Creation: Thu Jan 13 15:39:49 2011
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0	Micro Inverese 1 X 1	40
6	Micro Log Caliper (GAPI)	16	0	Micro Normal 2"	40
-200	SP (mV)	0	15000	Line Weight	0

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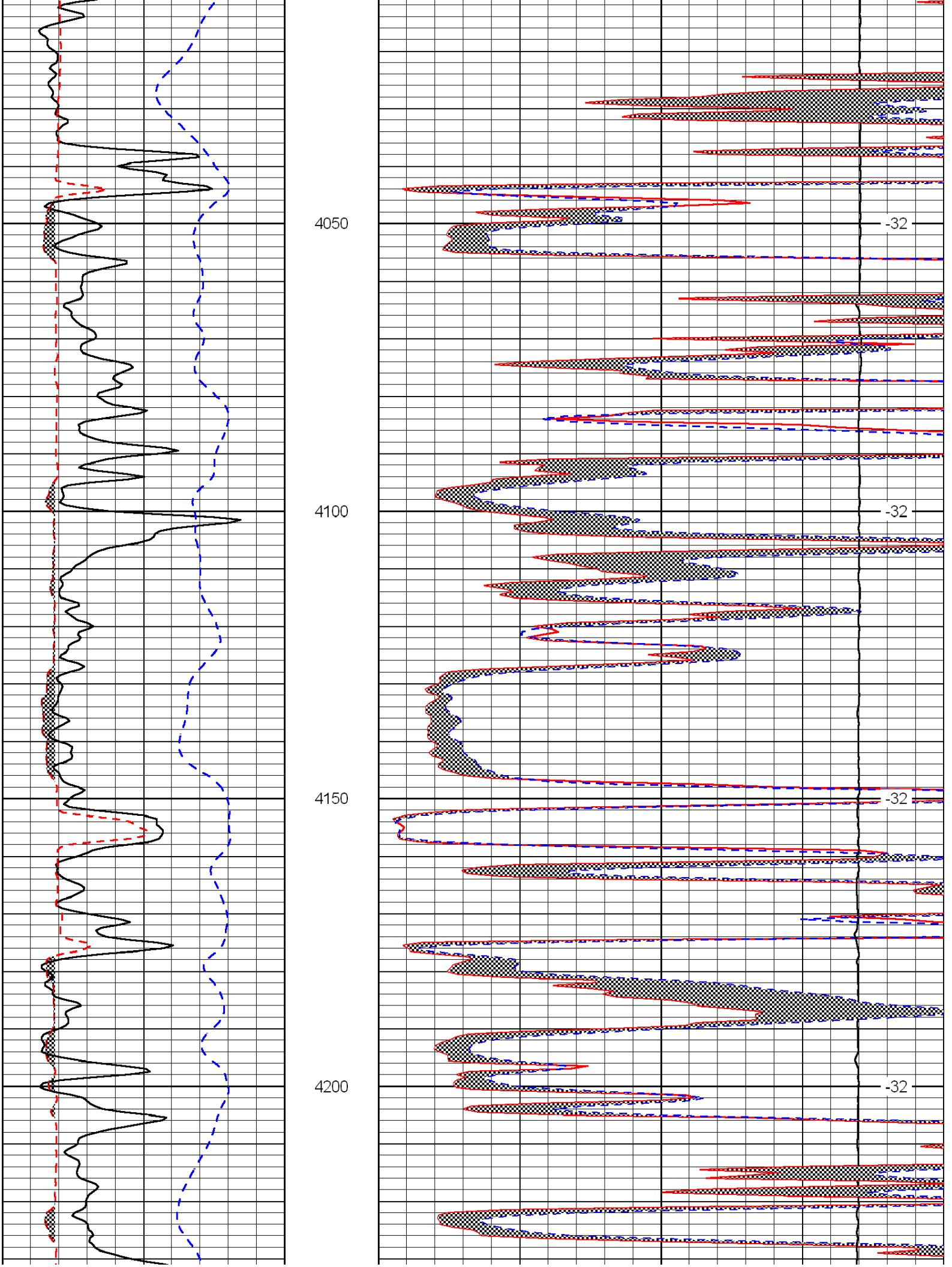
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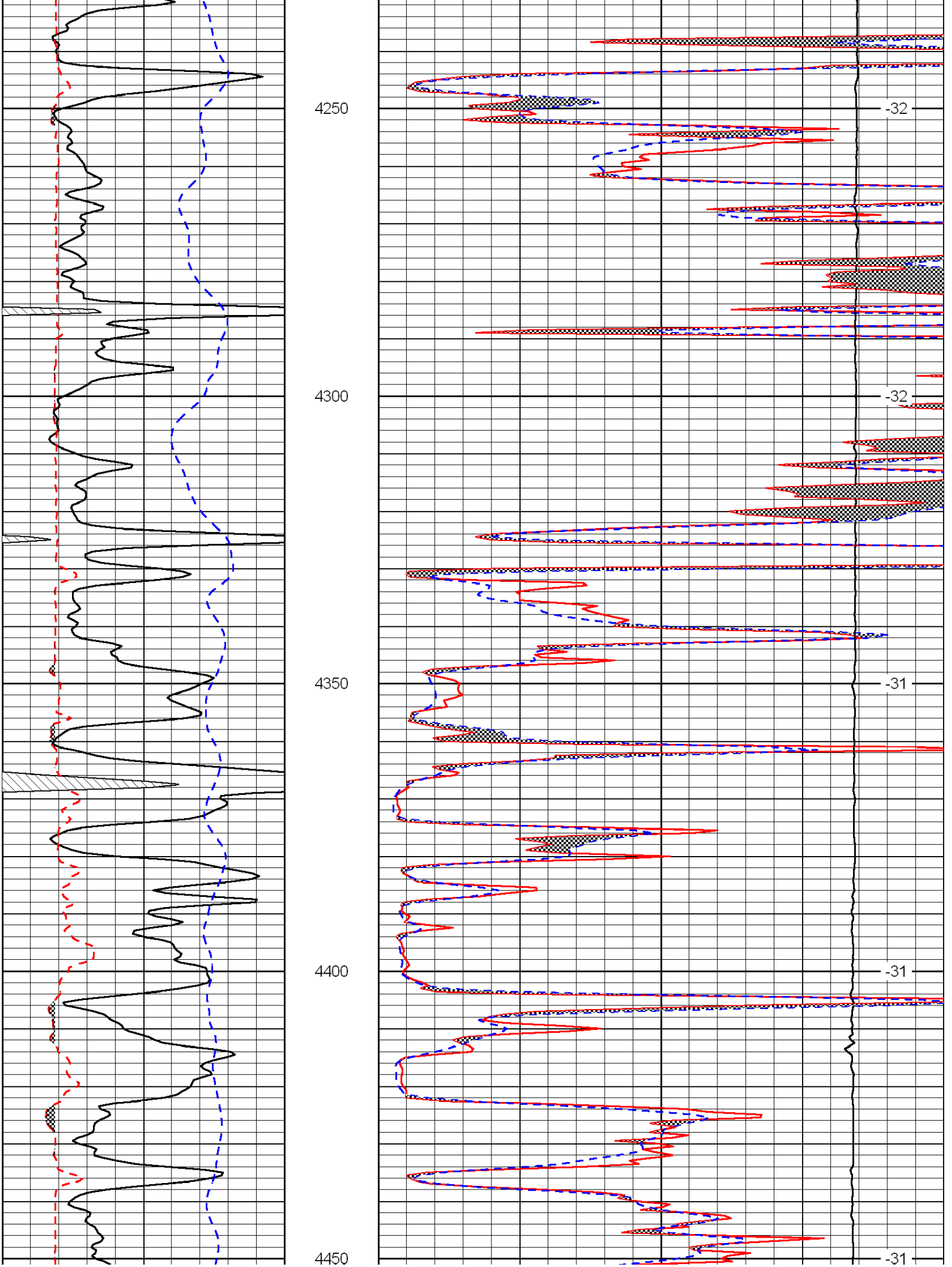
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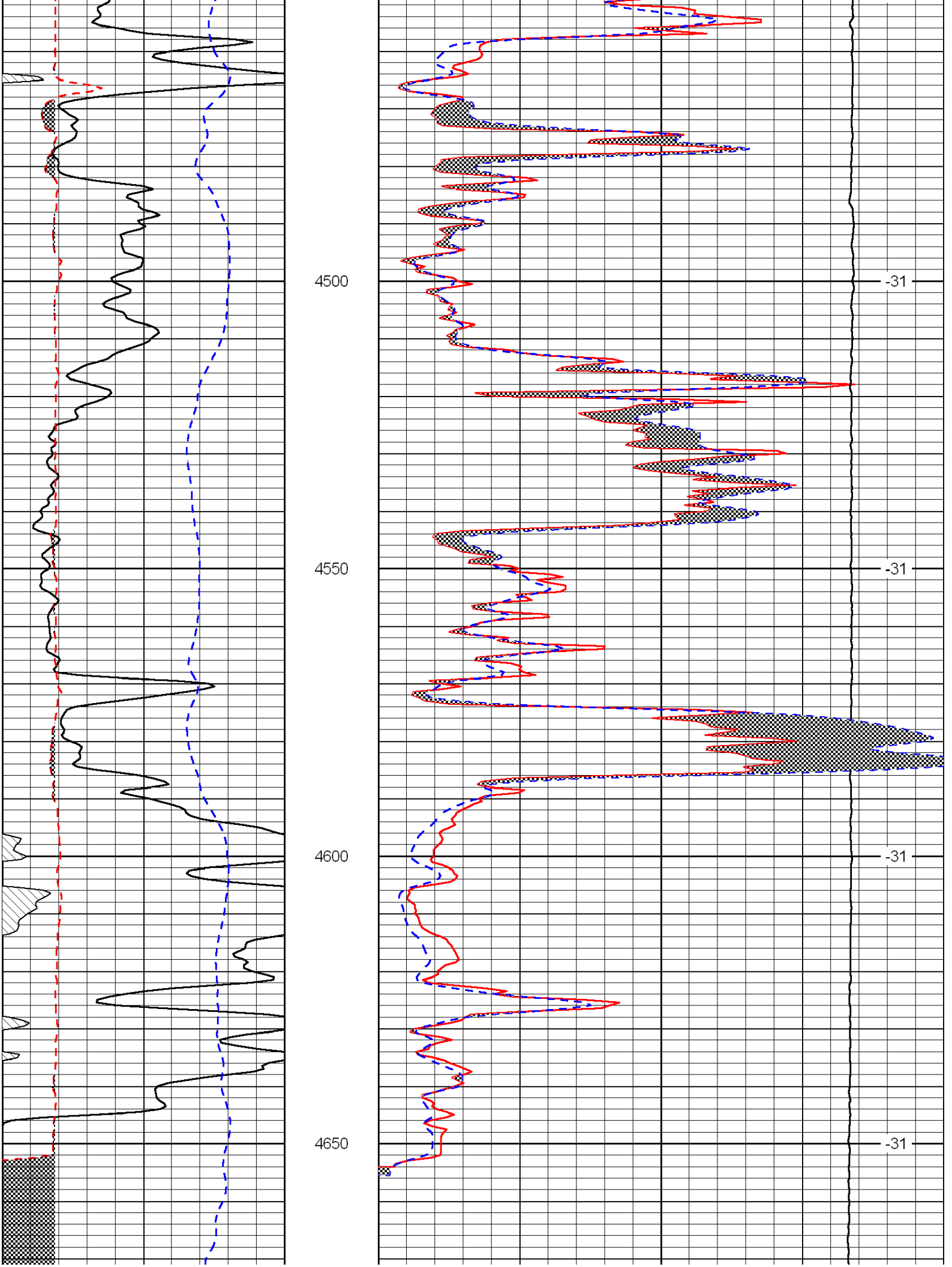
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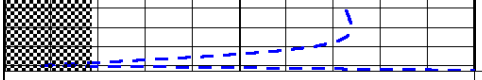

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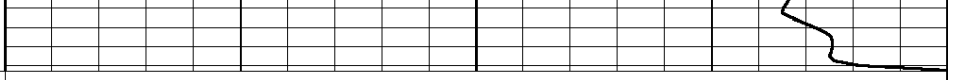
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



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

LSPD

LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-007-23,635-00-00

Company: Indian Oil Company
Well: Lambert No.1
Field: Wildcat
County: Barber State: Kansas

Location: SW SE SW NW
2550' FNL & 750' FWL
Sec: 1 Twp: 30S Rge: 15W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum	Ground Level	Elevation 1893	Elevation
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	K.B. 1903
Drilling Measured From	Kelly Bushing		D.F.
			G.L. 1893

Date	1/13/2011		
Run Number	Two		
Type Log	BHC Sonic		
Depth Driller	4670		
Depth Logger	4673		
Bottom Logged Interval	4662		
Top Logged Interval	300		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	5,000		
Density	9.4		
Level	Full		
Max. Rec. Temp. F	125		
Operating Rig Time	4 1/2 Hours		
Equipment -- Location	15	Hays	
Recorded By	C. Desaire		
Witnessed By	Anthony Farrar		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	307	8.625	24#	00	307
2	7.875	307	4670				

<<< 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.

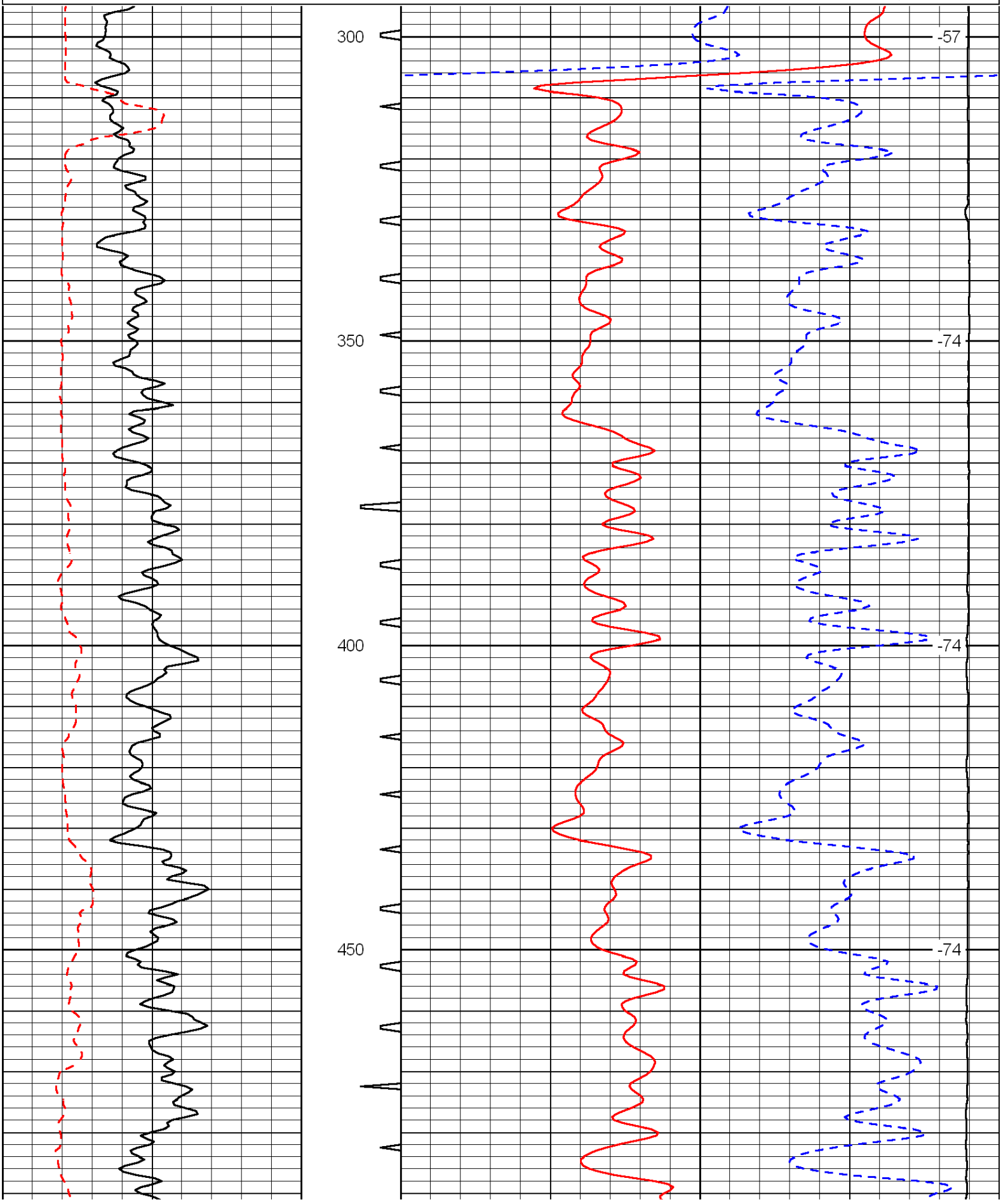
Comments

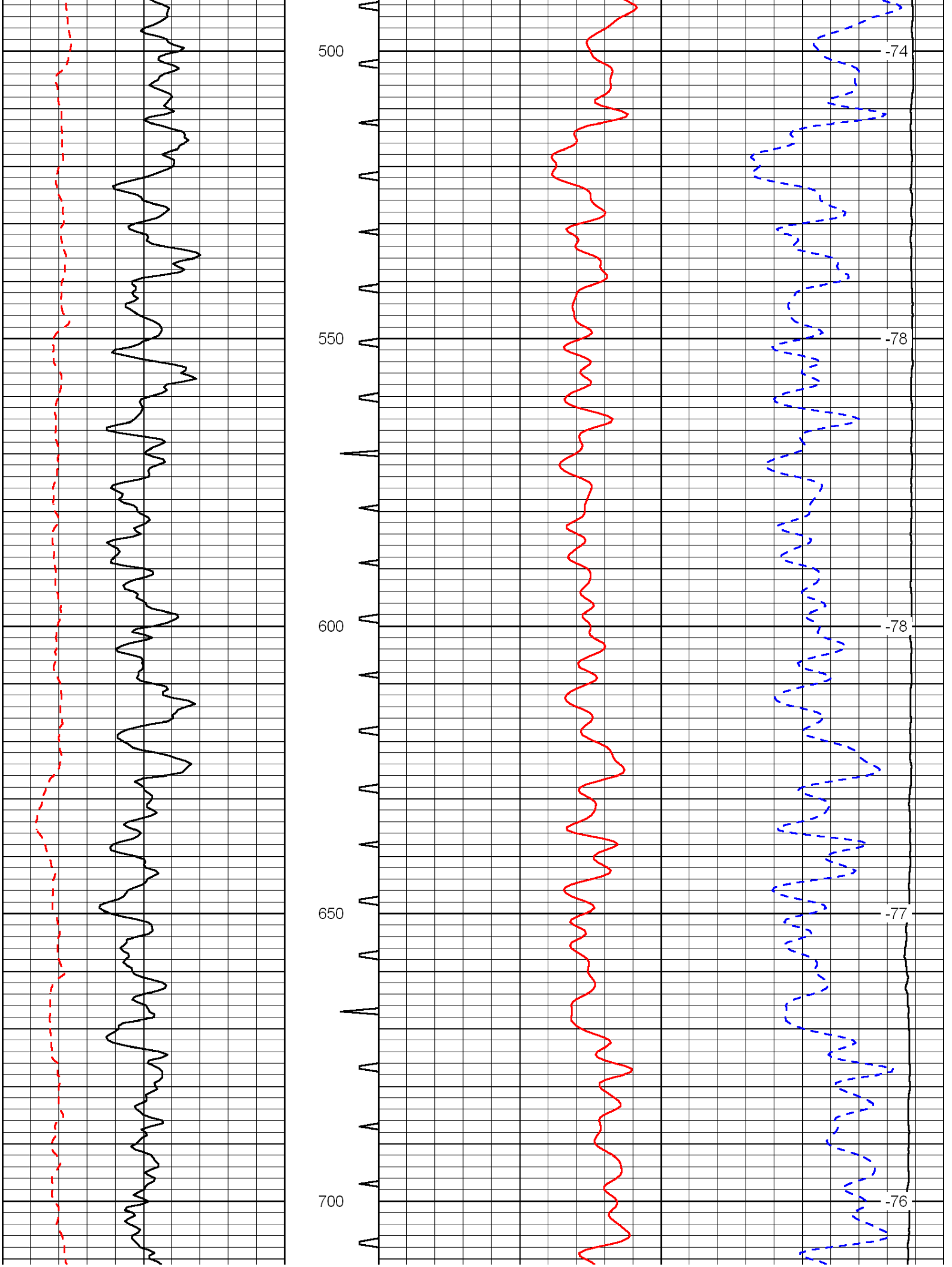
Thank you for using Log-Tech, Inc.
(785) 625-3858
Coats, 3 W,
1 S, 1 W, 3 S,
1 1/2 W, N Into

Database File: c:\warrior\data\indian oil_lambert no.1\indianhd.db
Dataset Pathname: dil//indstk
Presentation Format: sonic
Dataset Creation: Thu Jan 13 15:39:49 2011
Charted by: Depth in Feet scaled 1:240

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	30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
						LSPD

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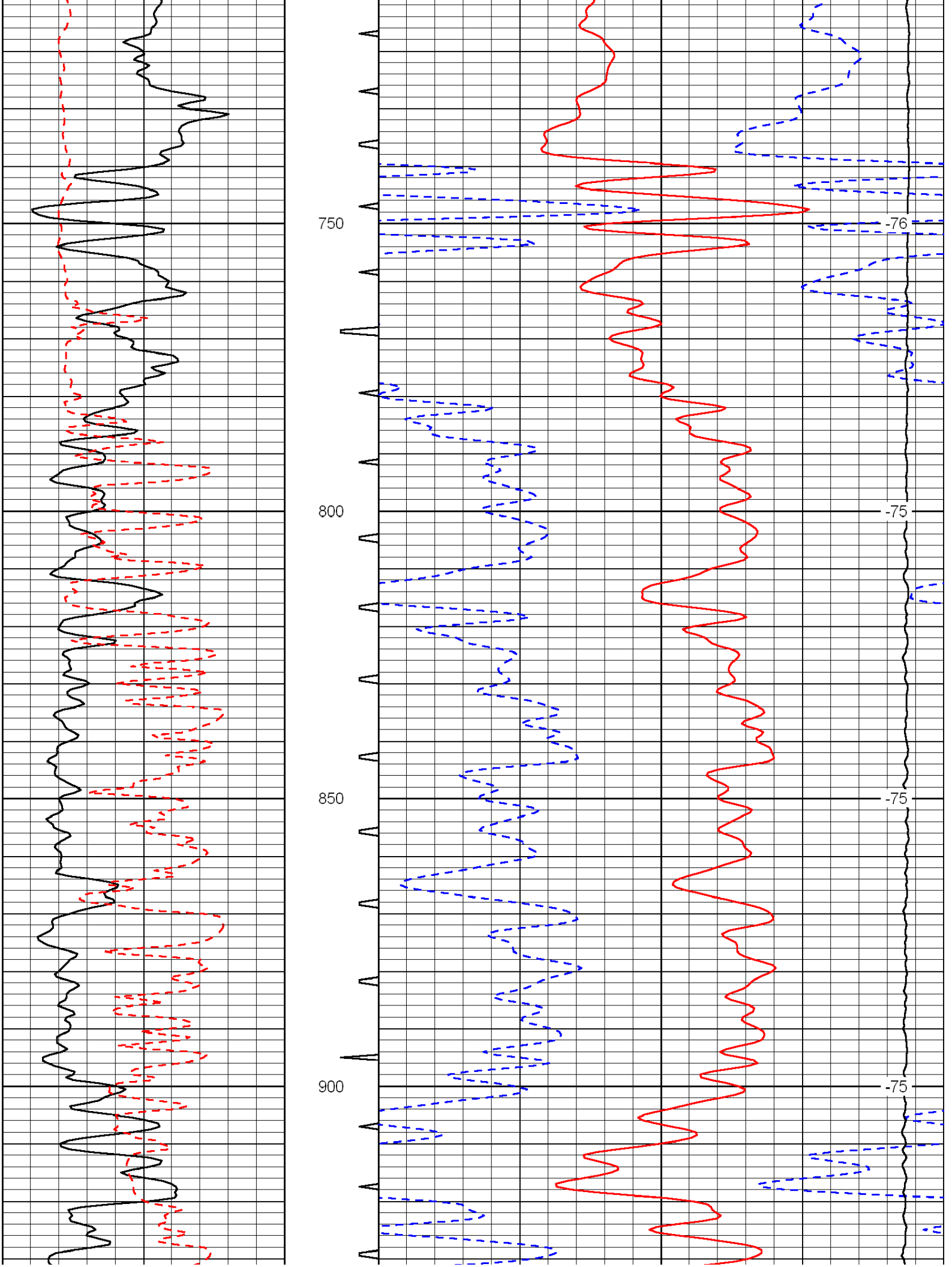
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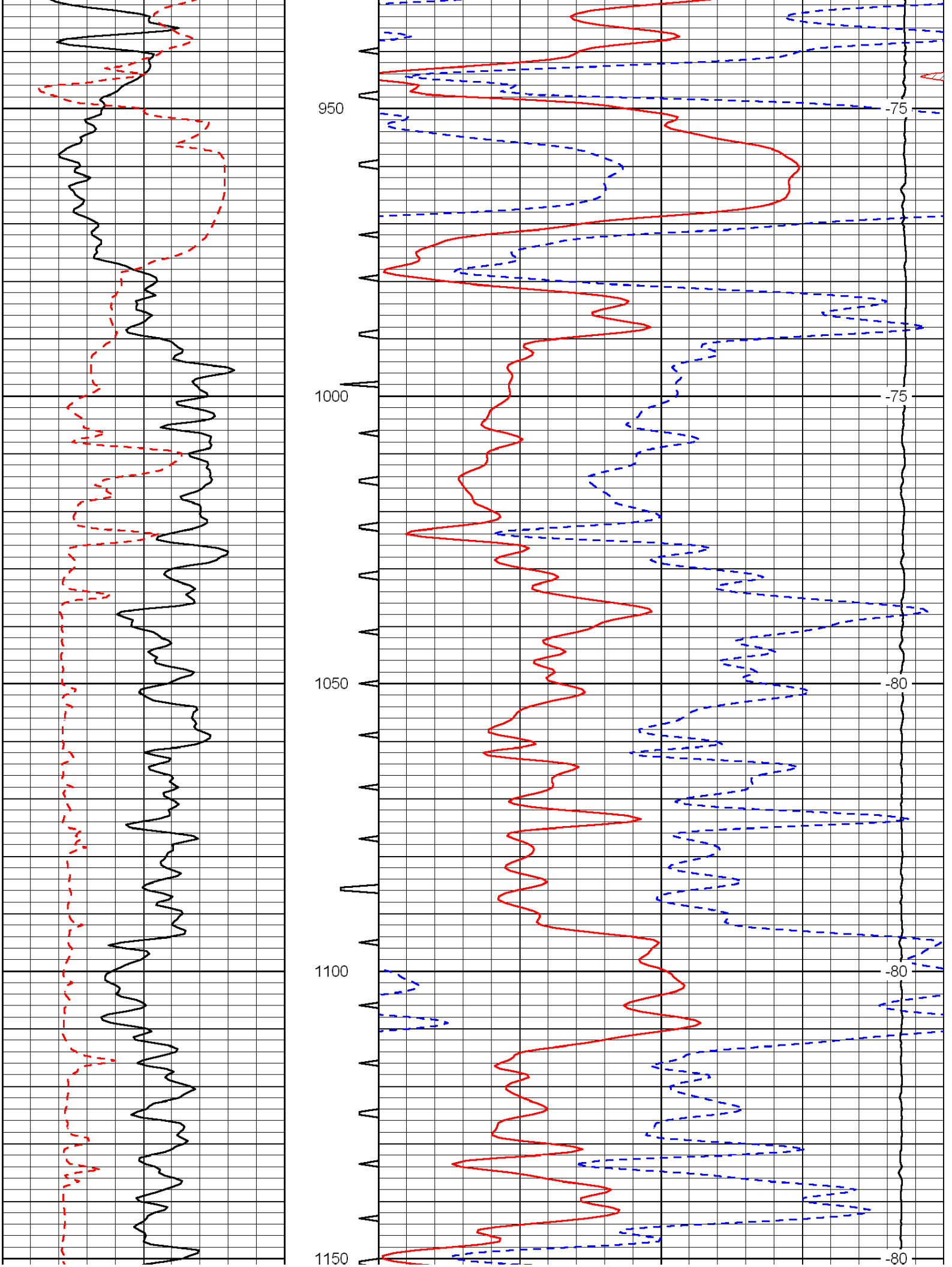
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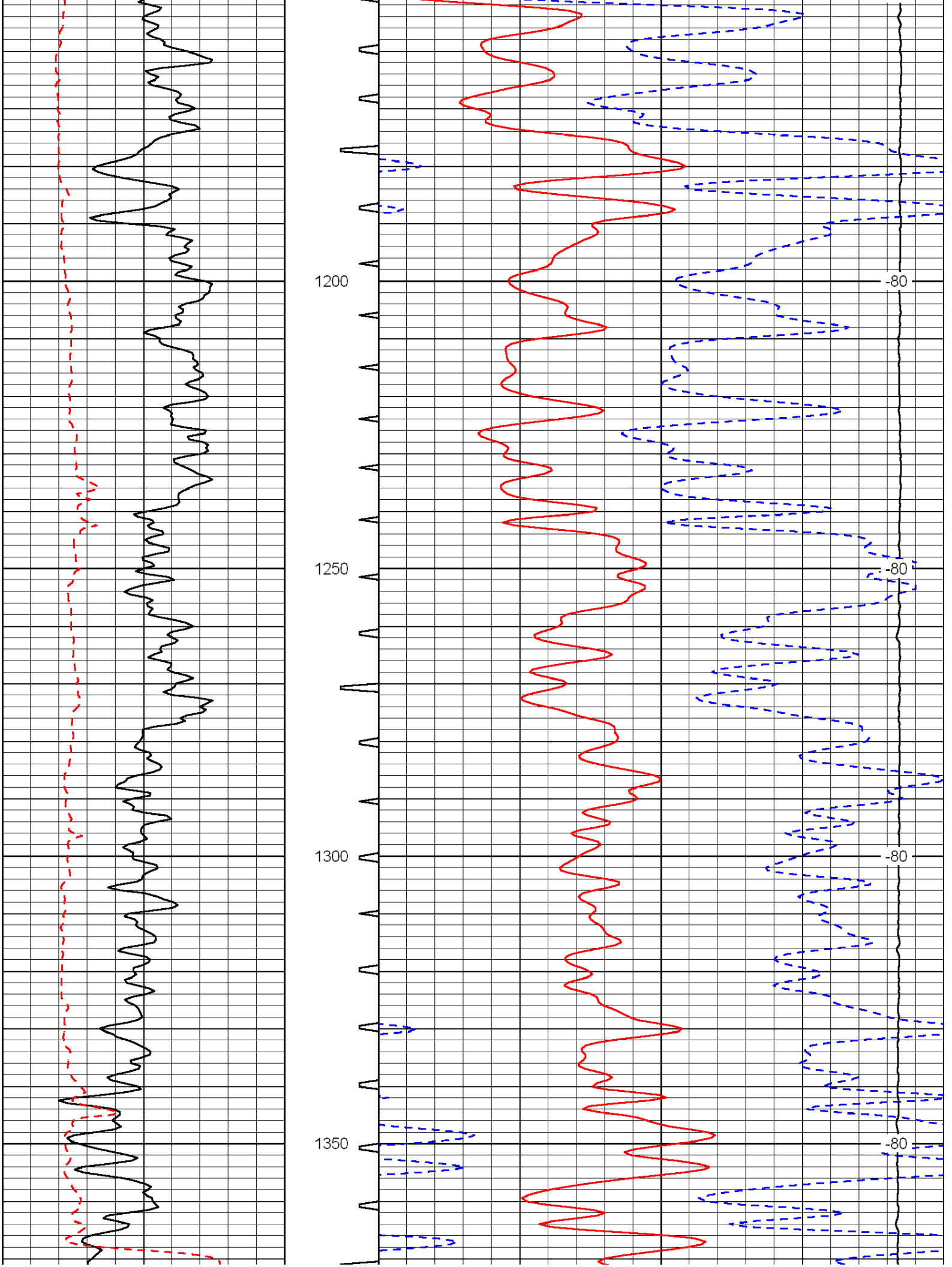
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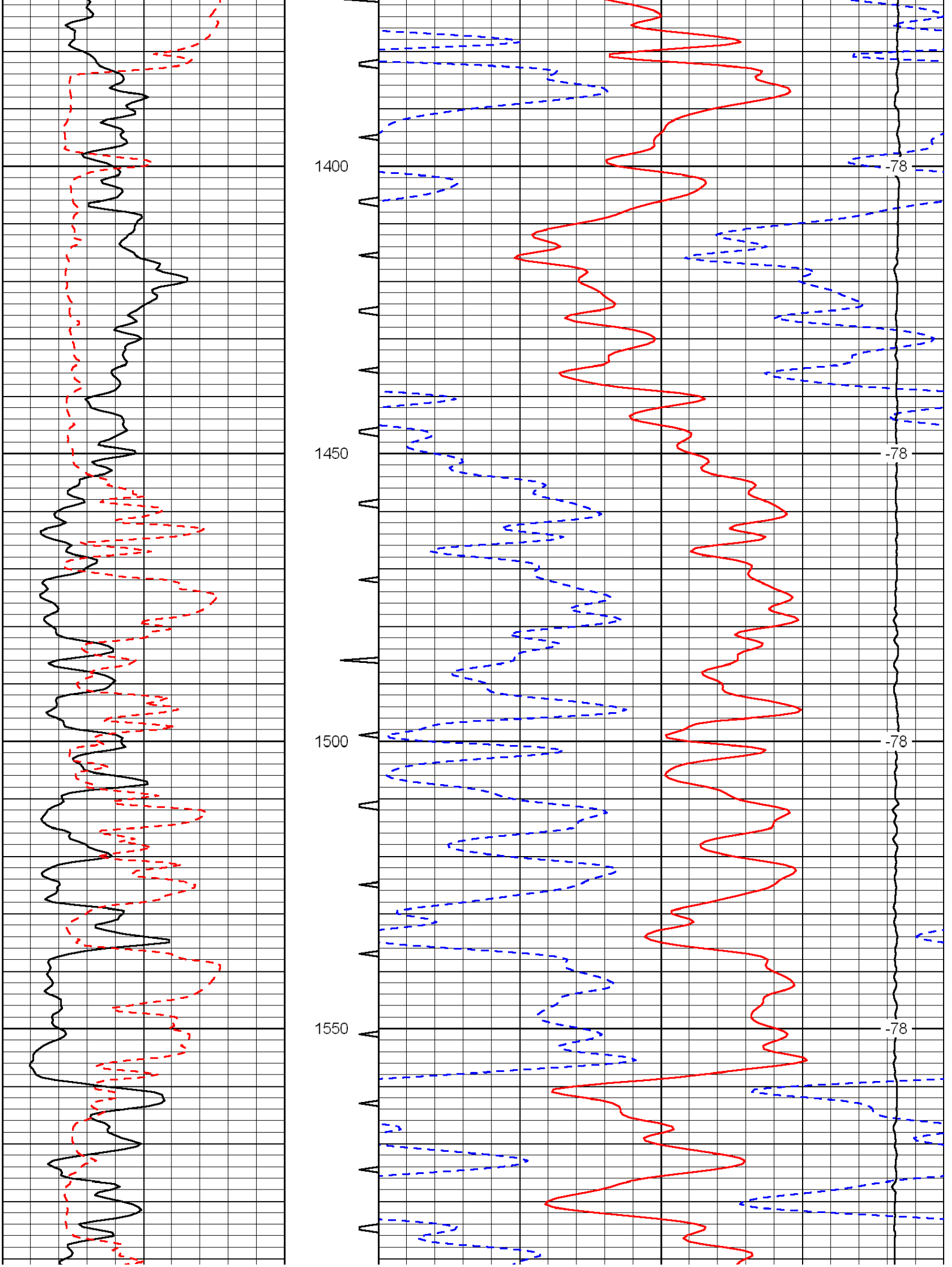
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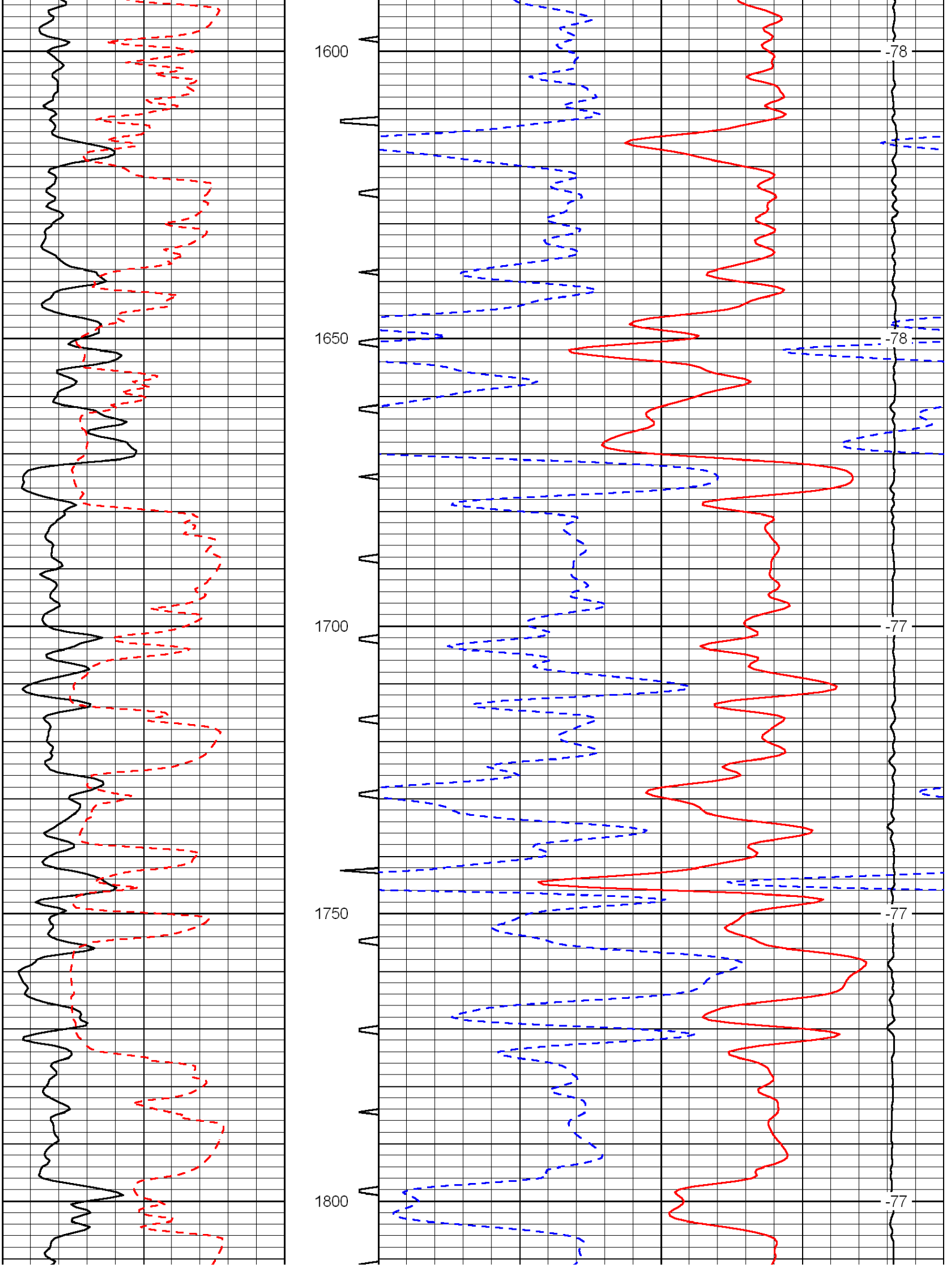
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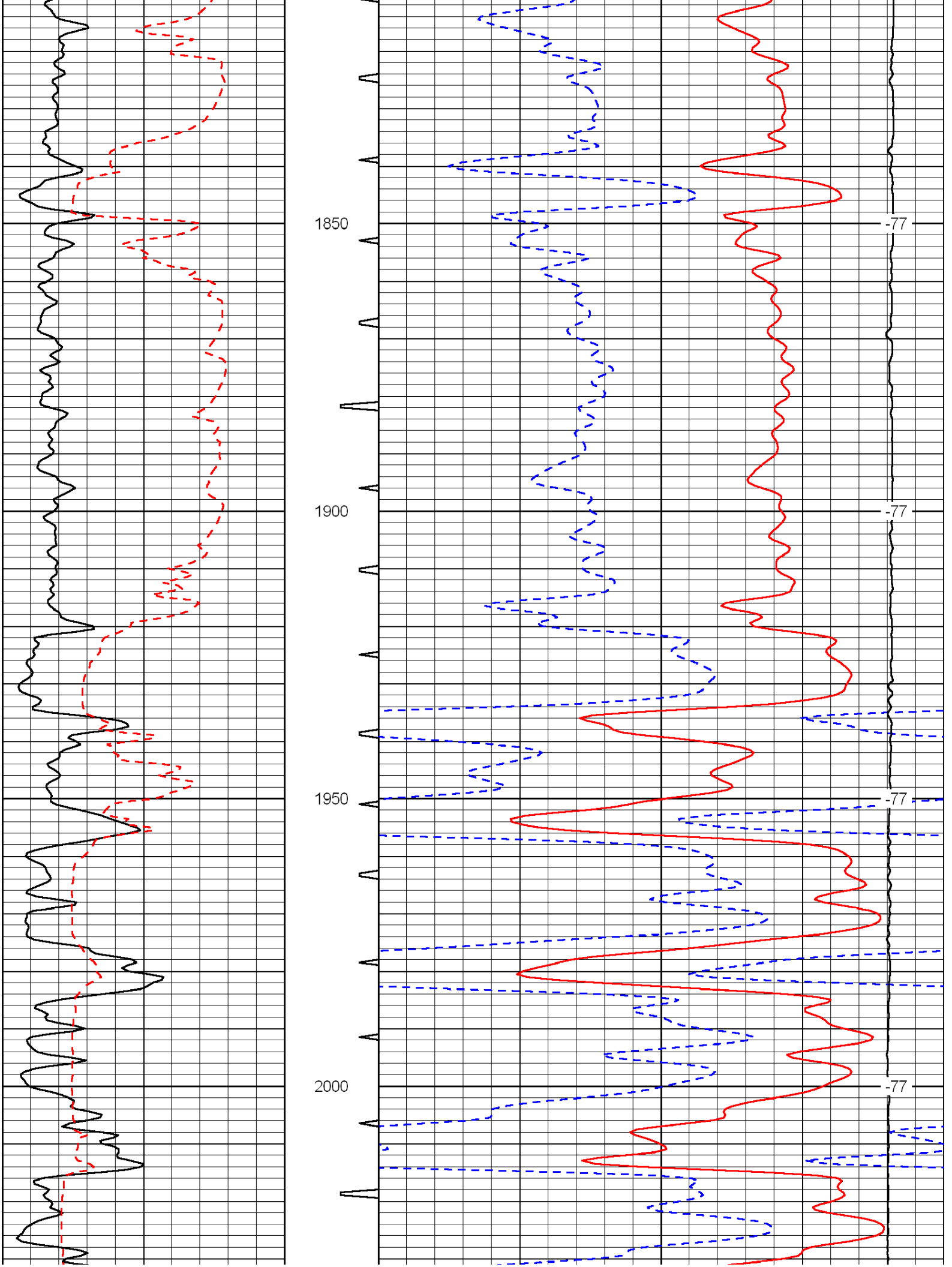
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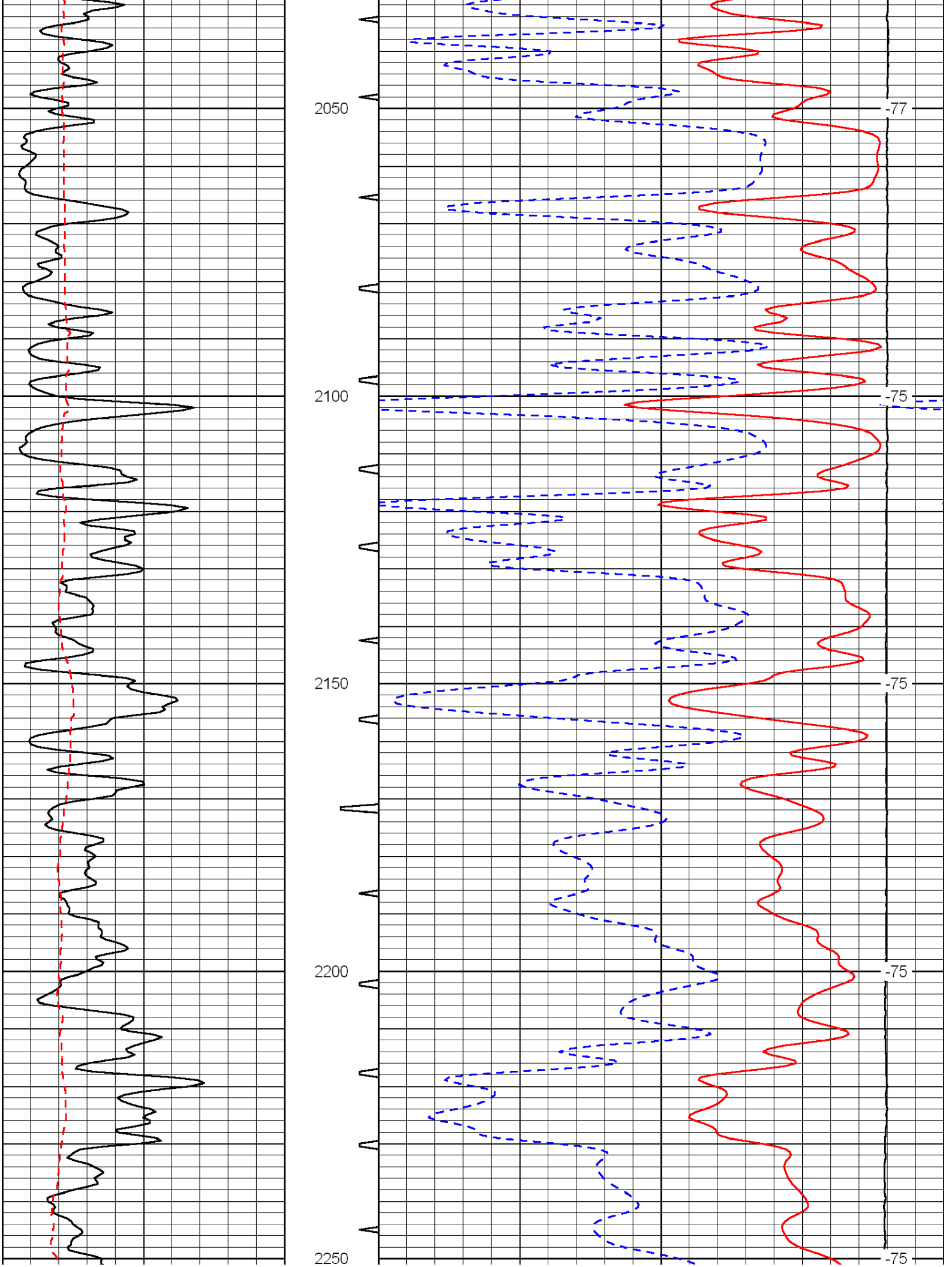
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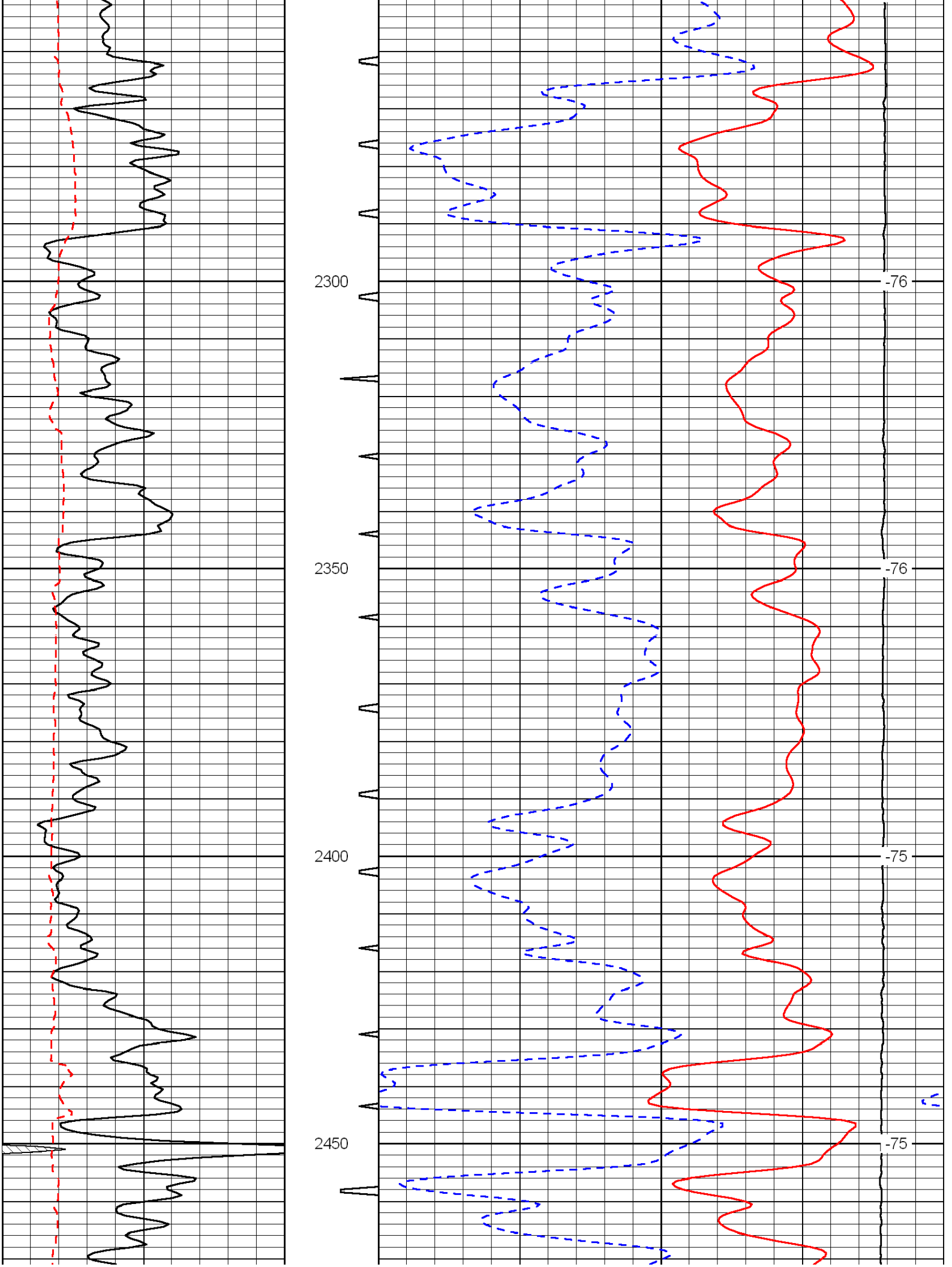
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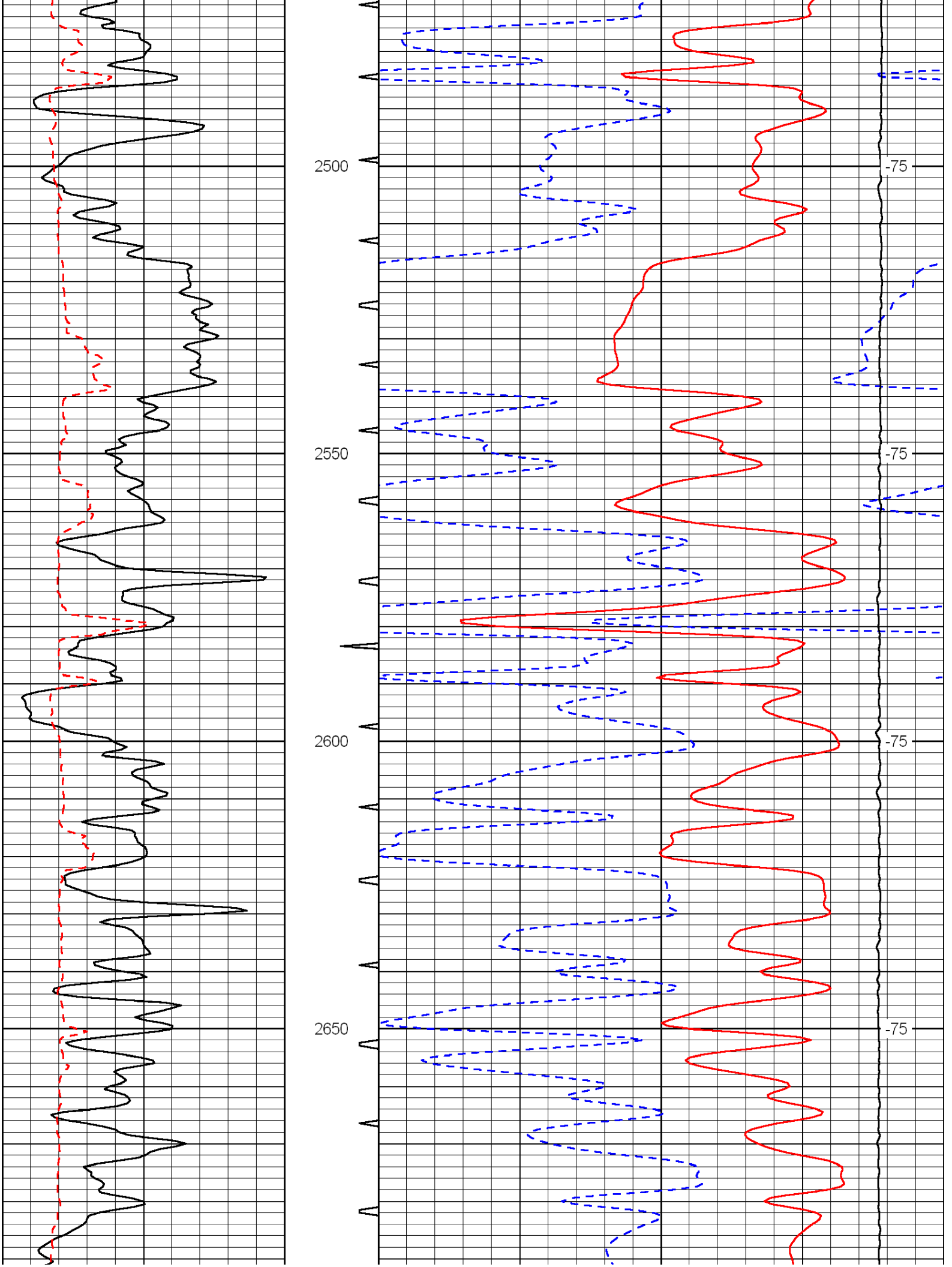
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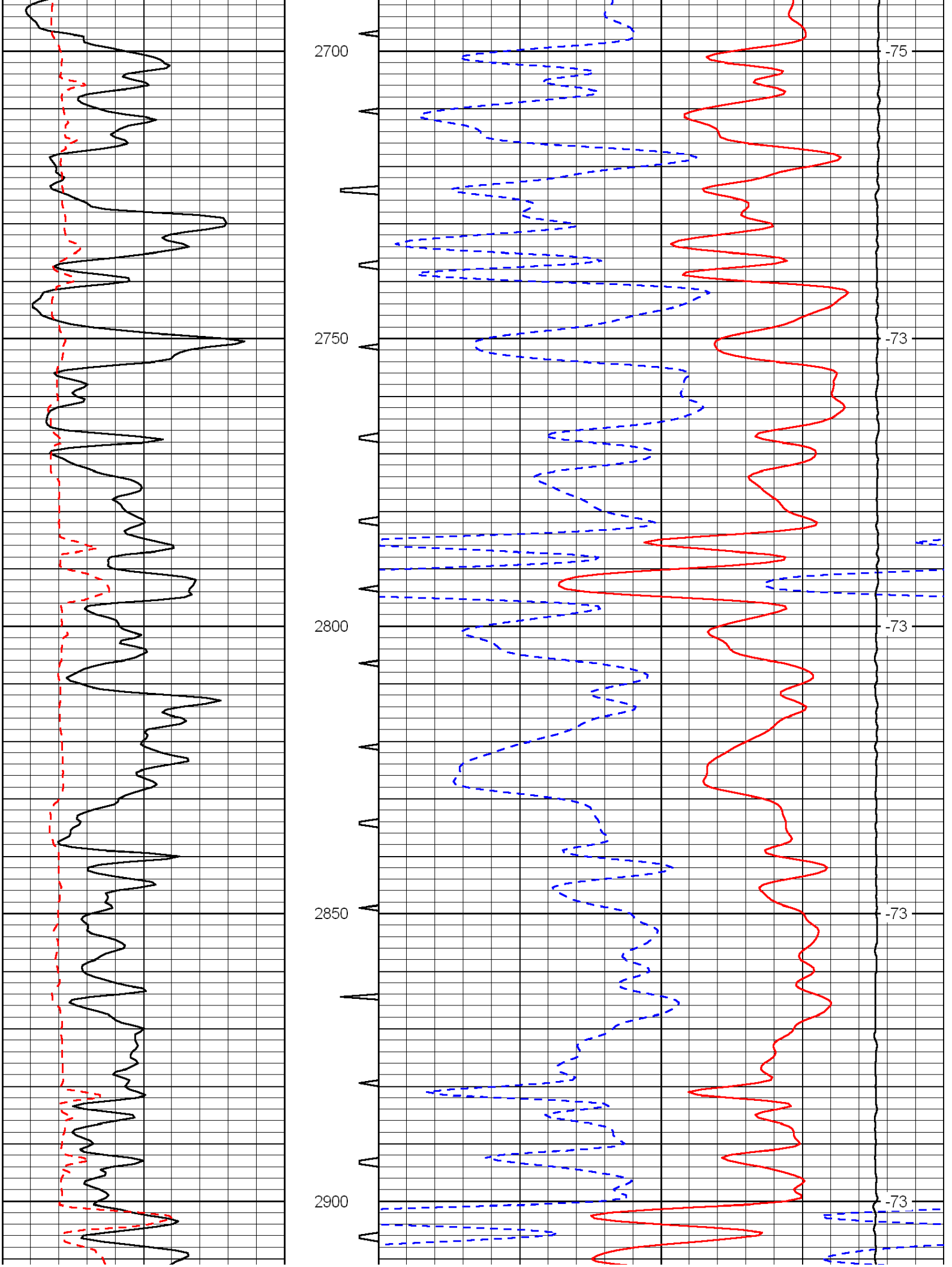
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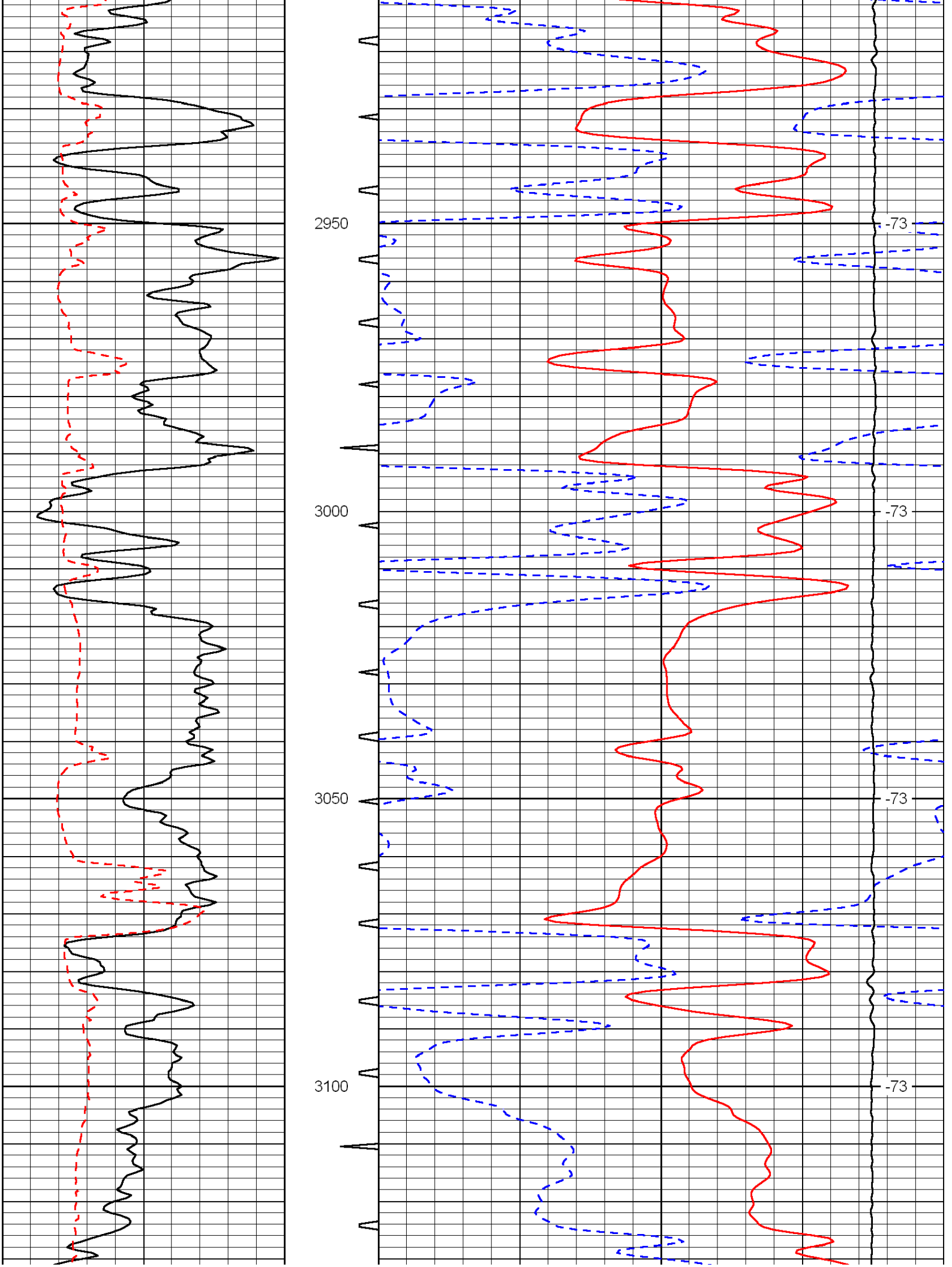
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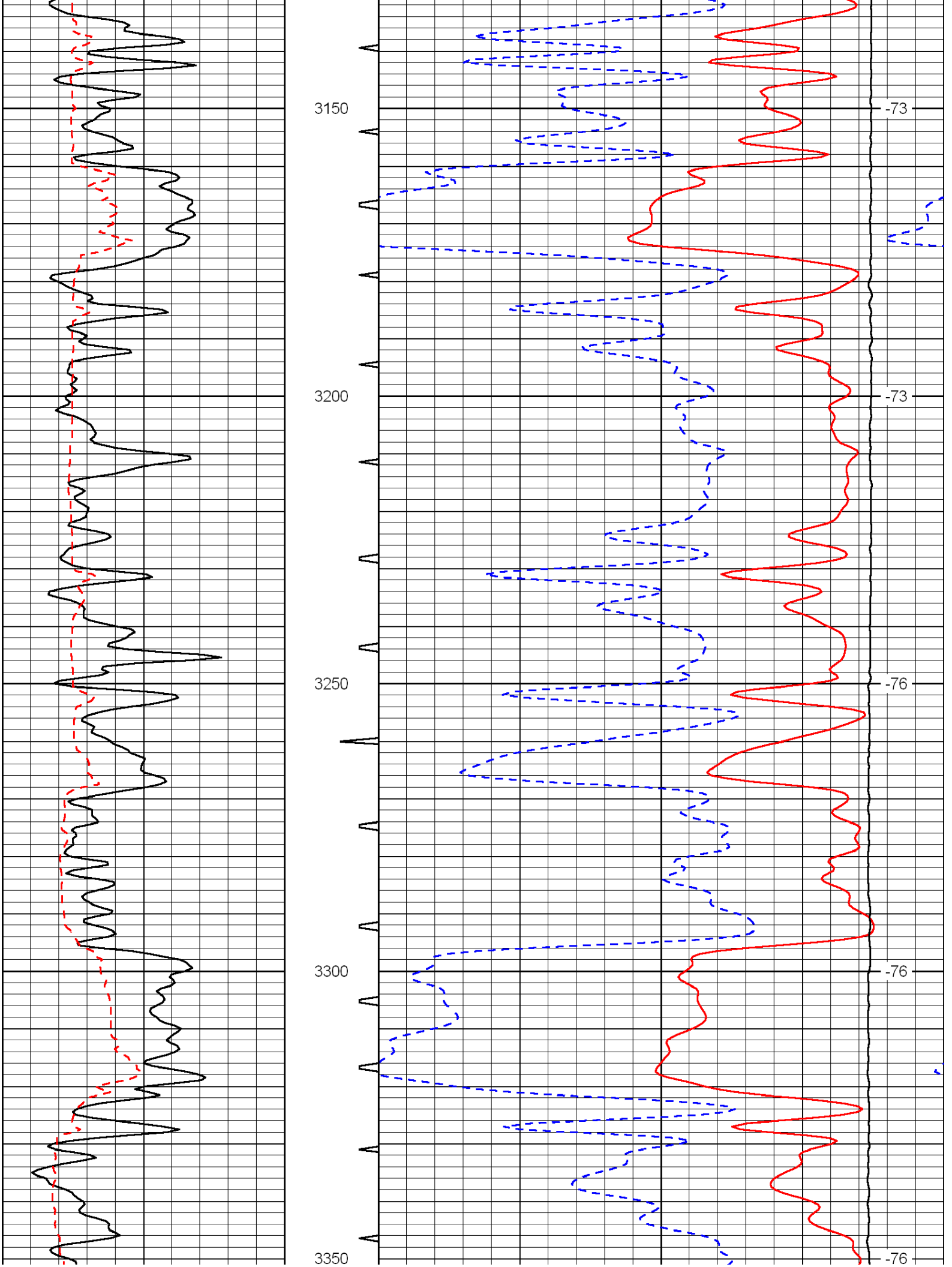
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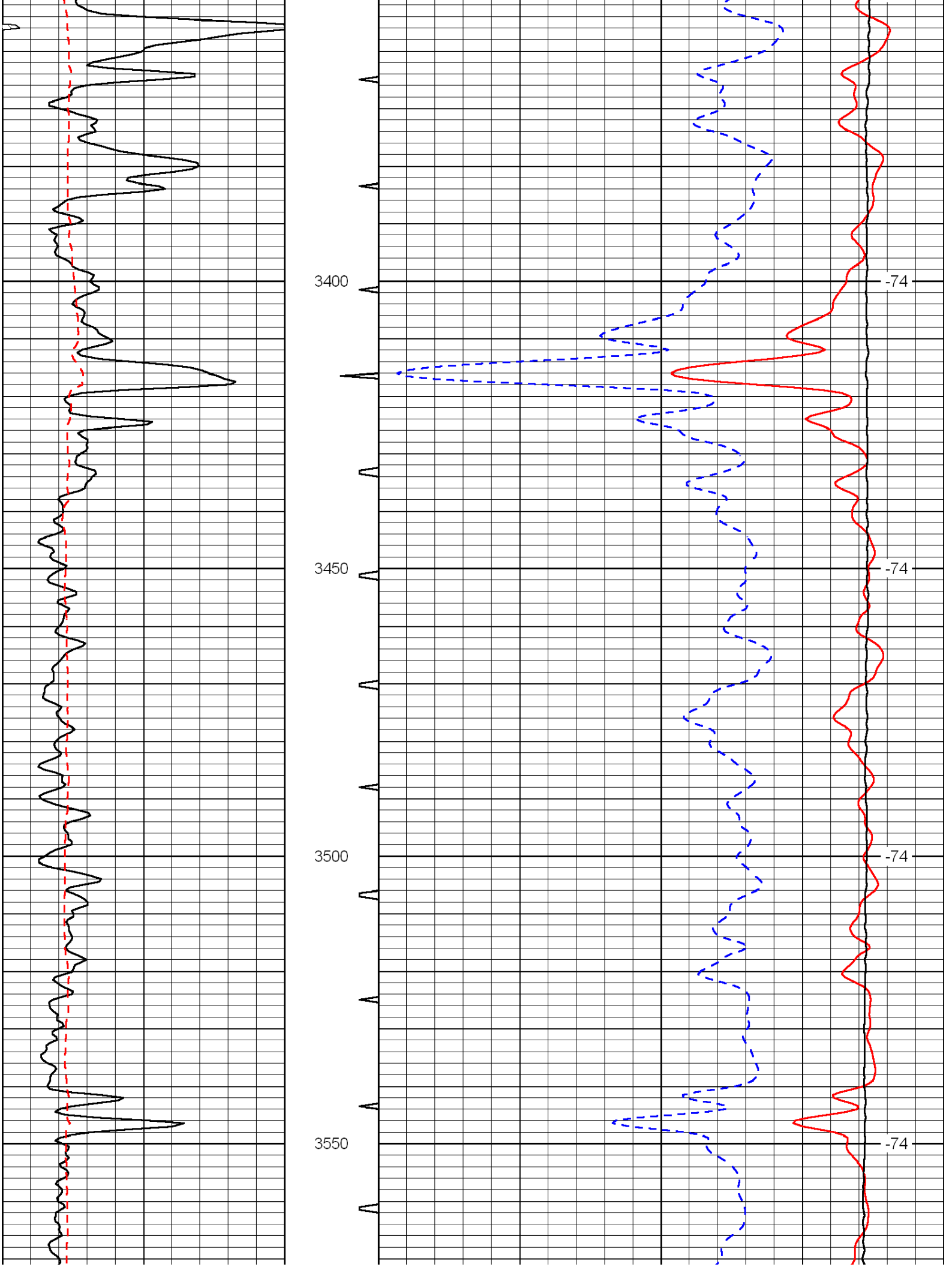
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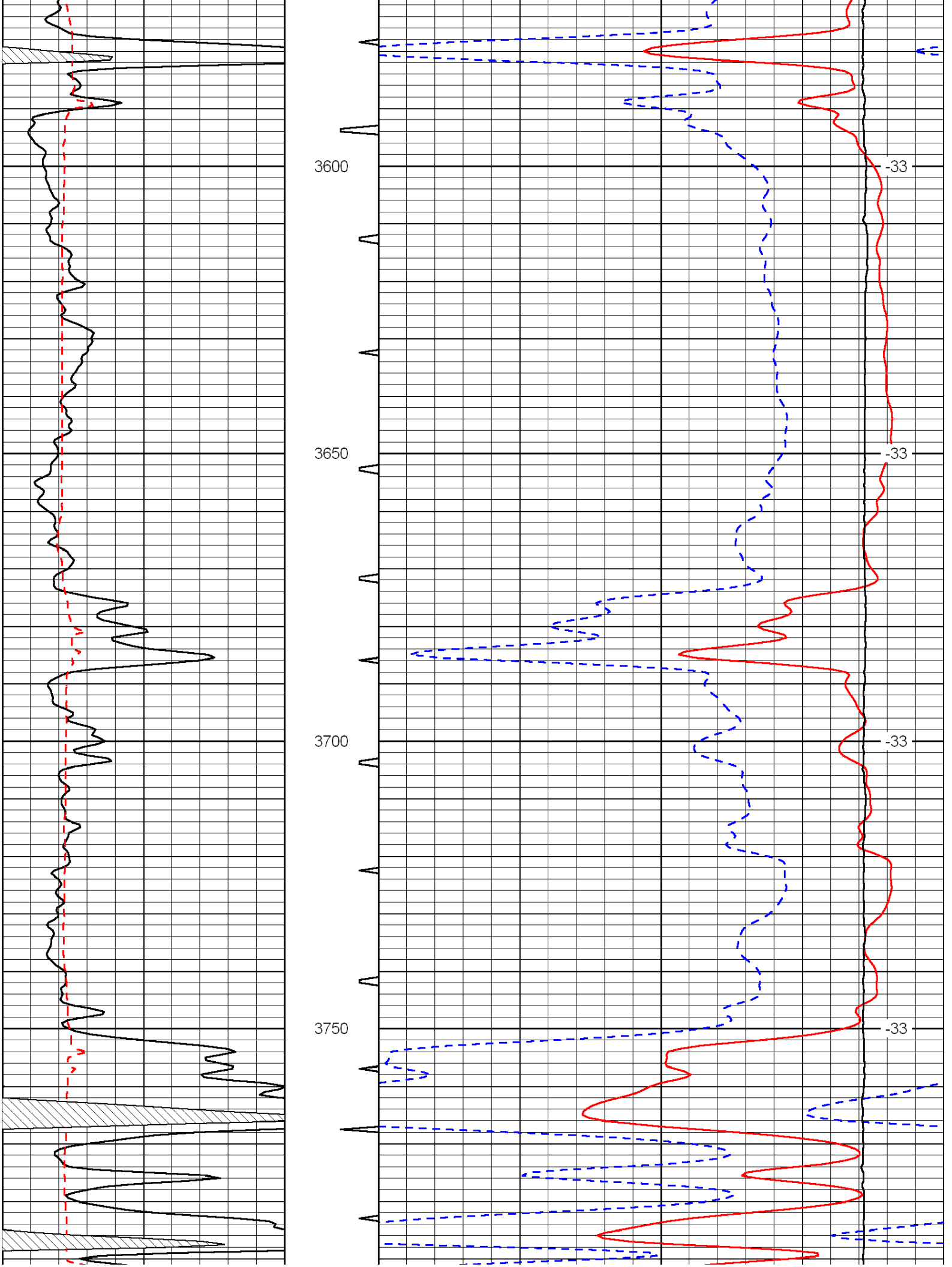
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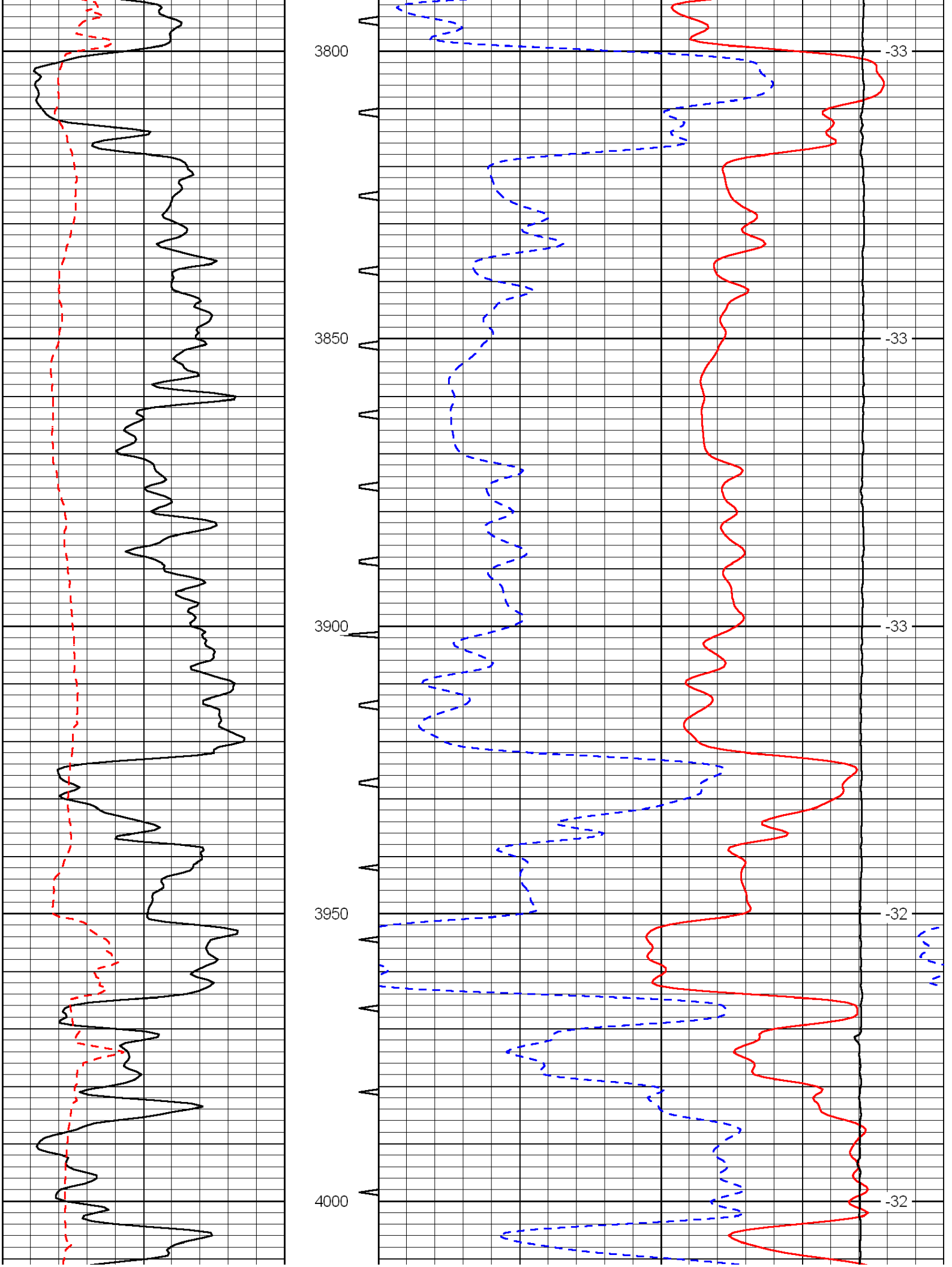
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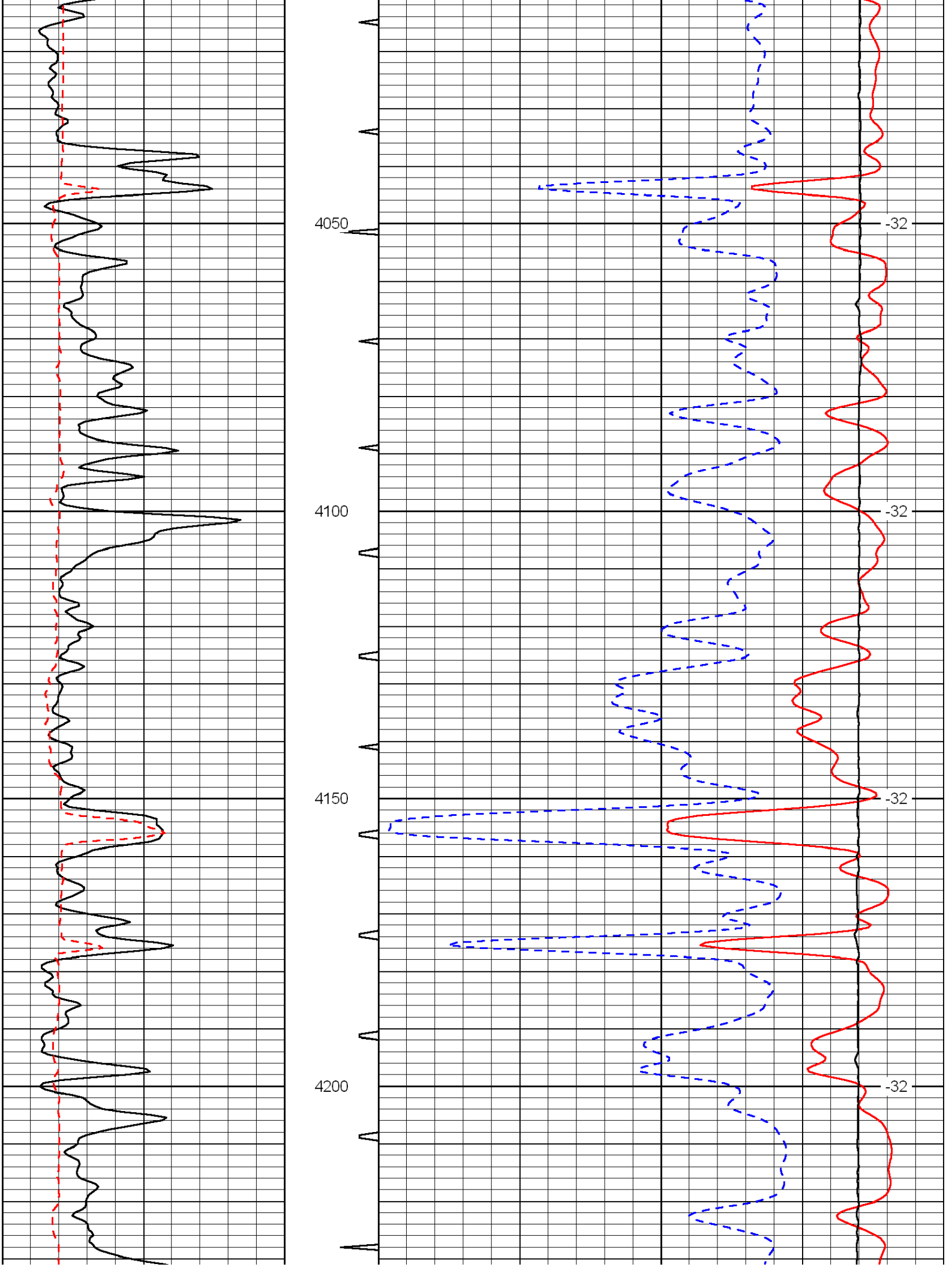
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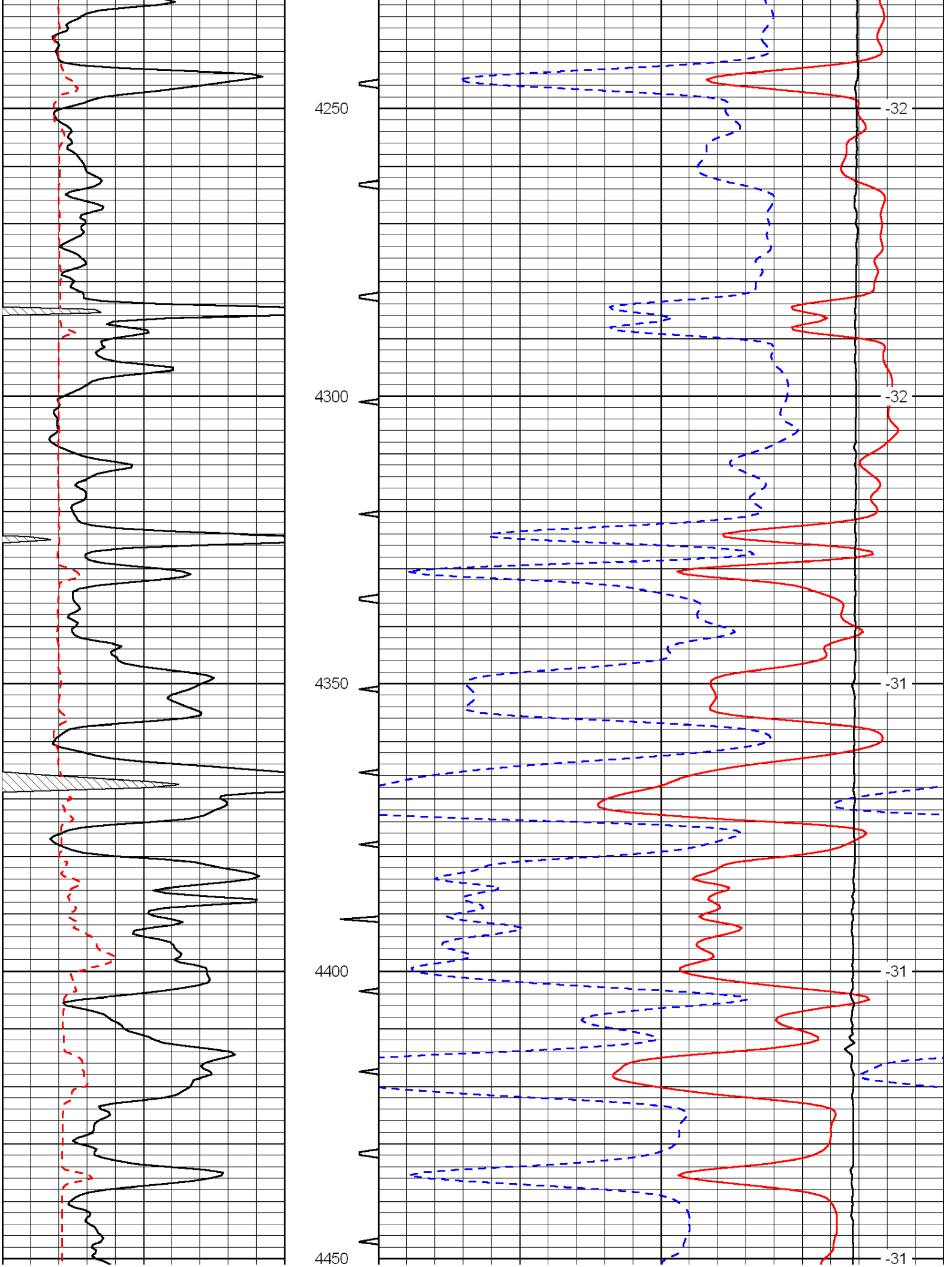
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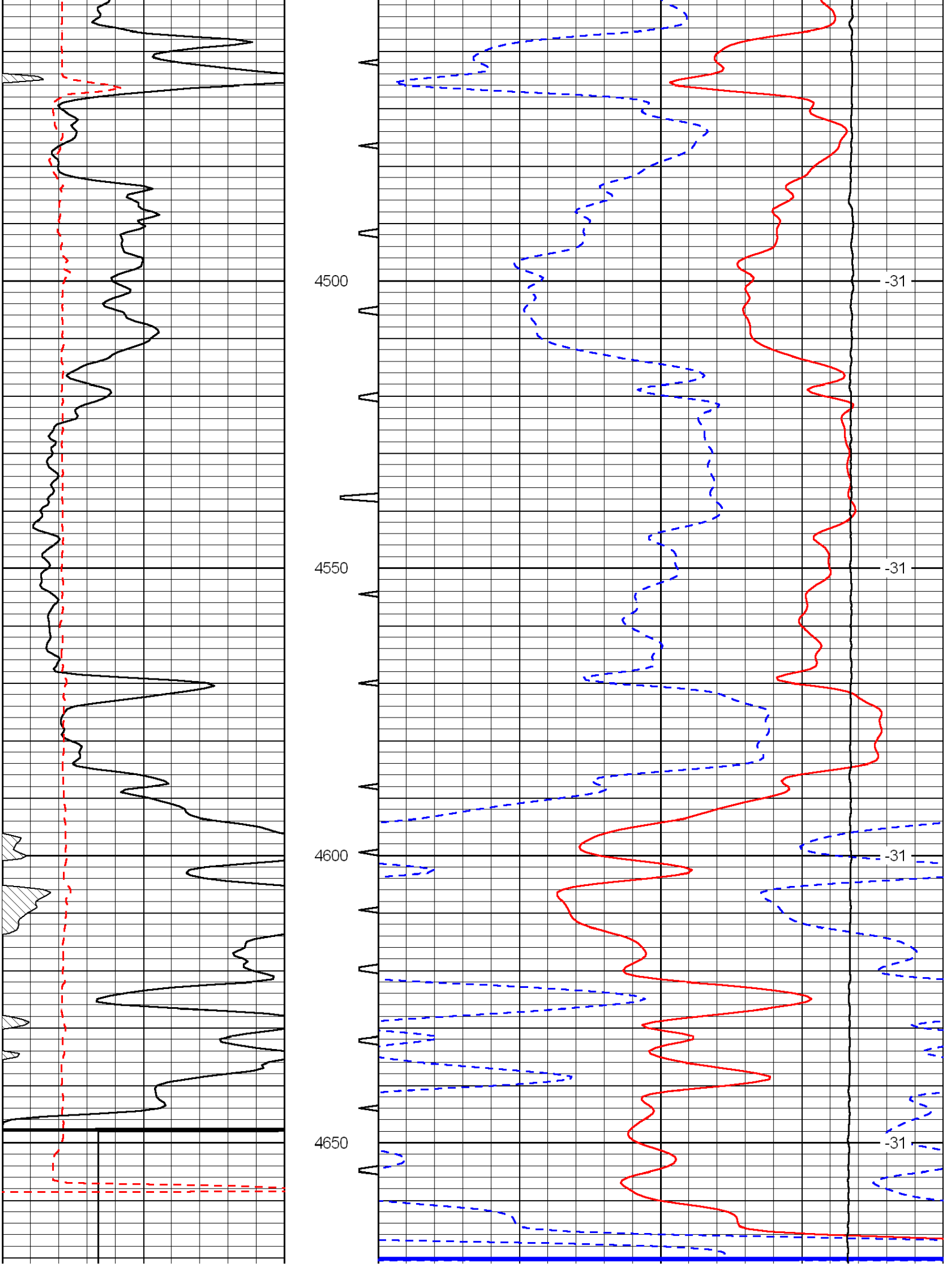
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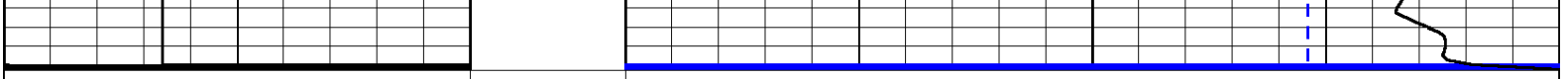

0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5 0	30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

LSPD