Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1215078

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31000
Name: Prater Oil & Gas Operations, Inc.
Address 1: 906 WILLIAM WAY
Address 2:
City: PRATT State: KS Zip: 67124 + 3207
Contact Person: Ron Prater
Phone: (620) 770-0856
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Scott Alberg
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

06/04/2014	06/11/2014	07/07/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-24175-00-00
Spot Description:
N2 - N2 - S2 - SE Sec. 36 Twp. 30 S. R. 12 ☐ East ☑ West
1155 Feet from ☐ North / ☑ South Line of Section
1320 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barber
Lease Name: Banks Well #: 4
Field Name: Amber Creek
Producing Formation: Miss
Elevation: Ground: 1688 Kelly Bushing: 1697
Total Vertical Depth: 4575 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 257 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 47 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:
Operator Name: Woosley Operating Company, LLC
Lease Name: Clarke SWD 1 License #: 33168
Quarter NW Sec. 8 Twp. 32 S. R. 12 ☐ East ☑ West
County: Barber Permit #: D28492

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 07/23/2014
☑ **Confidential Release Date:** 07/22/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 07/24/2014

[redacted] 1215078

Operator Name: Prater Oil & Gas Operations, Inc. Lease Name: Banks Well #: 4

Sec. 36 Twp. 30 S. R. 12 ☐ East ☑ West County: Barber

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Comp
Dual Ind
Sonic Cor & Bond

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

Name	Top	Datum
Miss	4334	-2637

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	12.25	8.625	24	257	common	300	
Production	7.8750	5.25	15.5	4570	A A-2	250	

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
2	4335-46-4352+67	2500 gal 10% MCA	
		Frac-1,772 /cwt /sabd	
		400,000 gal water	
		slickwater frac	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	2.8750	4328		☐ 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:

Form	ACO1 - Well Completion
Operator	Prater Oil & Gas Operations, Inc.
Well Name	Banks 4
Doc ID	1215078

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	257	common	300	
Production	7.8750	5.25	15.5	4570	A A-2	250	

PIONEER

Pioneer Energy Services

Computer Processed Interpretation

Company	Prater Oil & Gas Operating, Inc.
Well	Banks #4
Field	Amber Creek
County	Barber
State	Kansas
API No.	15-007-24,175-00-00
Location	N/2 N/2 S/2 SE 1155' FSL & 1320' FEL
Sec: 36	Twp: 30S Rge: 12W
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Other Services	DIL/CNL/CDL
Elevation	K.B. 1697 D.F. G.L. 1688

Date Recorded	6/11/2014	
Depth Logger	4576	
	Curve Definitions	
SW	Water Saturation	
SXO	Water Saturation In The Flushed Zone	
VCL	Volume Of Clay	
PHIE	Density - Neutron Crossplot Shale Corrected	
BVW	Bulk Volume Water	
BVWSXO	Bulk Volume Water In Flushed Zone	
DCAL	Caliper	
SPC	SP Corrected For Baseline	
DGA	Apparent Grain Density	
Payflag	If: PHIE> 2 %, VCL< 40 %, SPC> -10 , SW< 50 % & DCAL< 11	
Recorded By	D.Kerr	
Witnessed By	Scott Alberg	
Analysis By	Dale Legleiter	

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Comments

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Pratt KS, South to 99 Springs RD,
3/4 North East, 1 1/4 East, North Into

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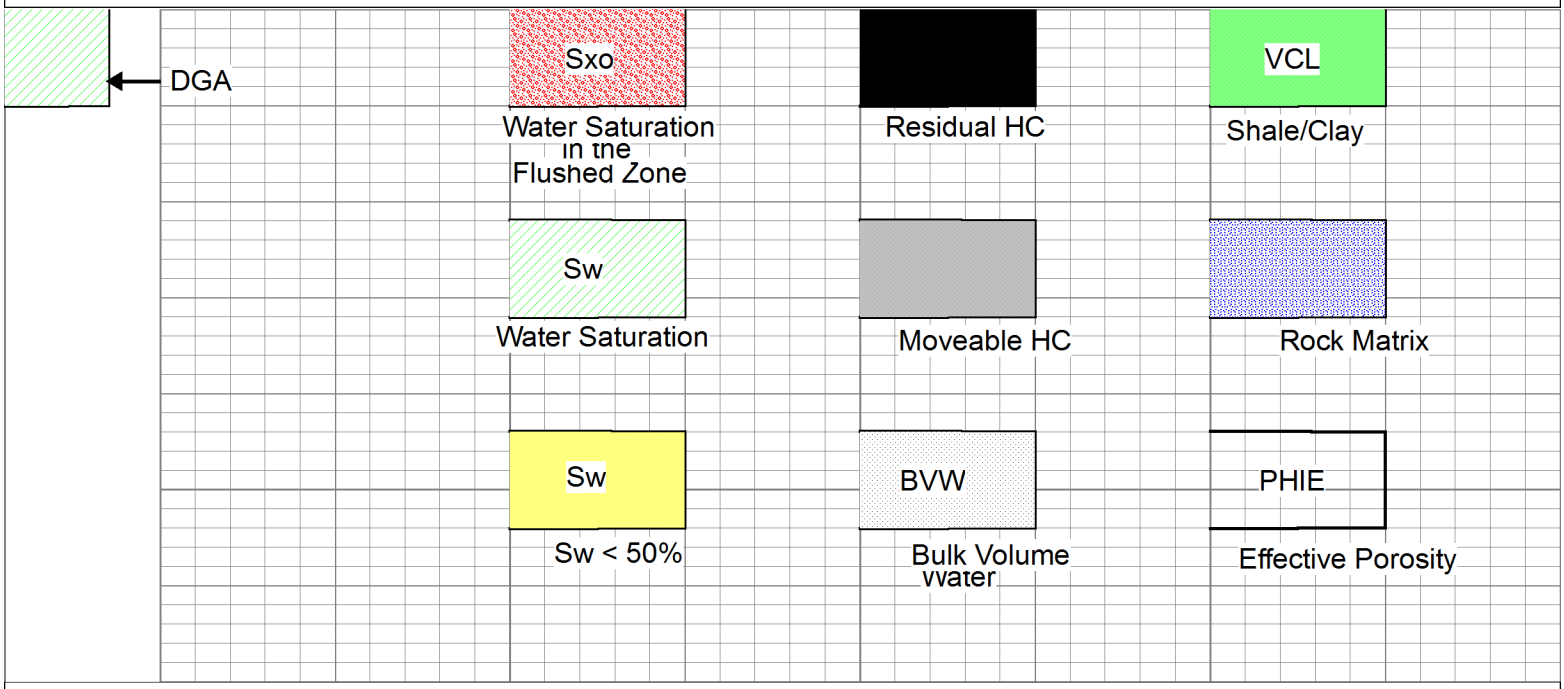

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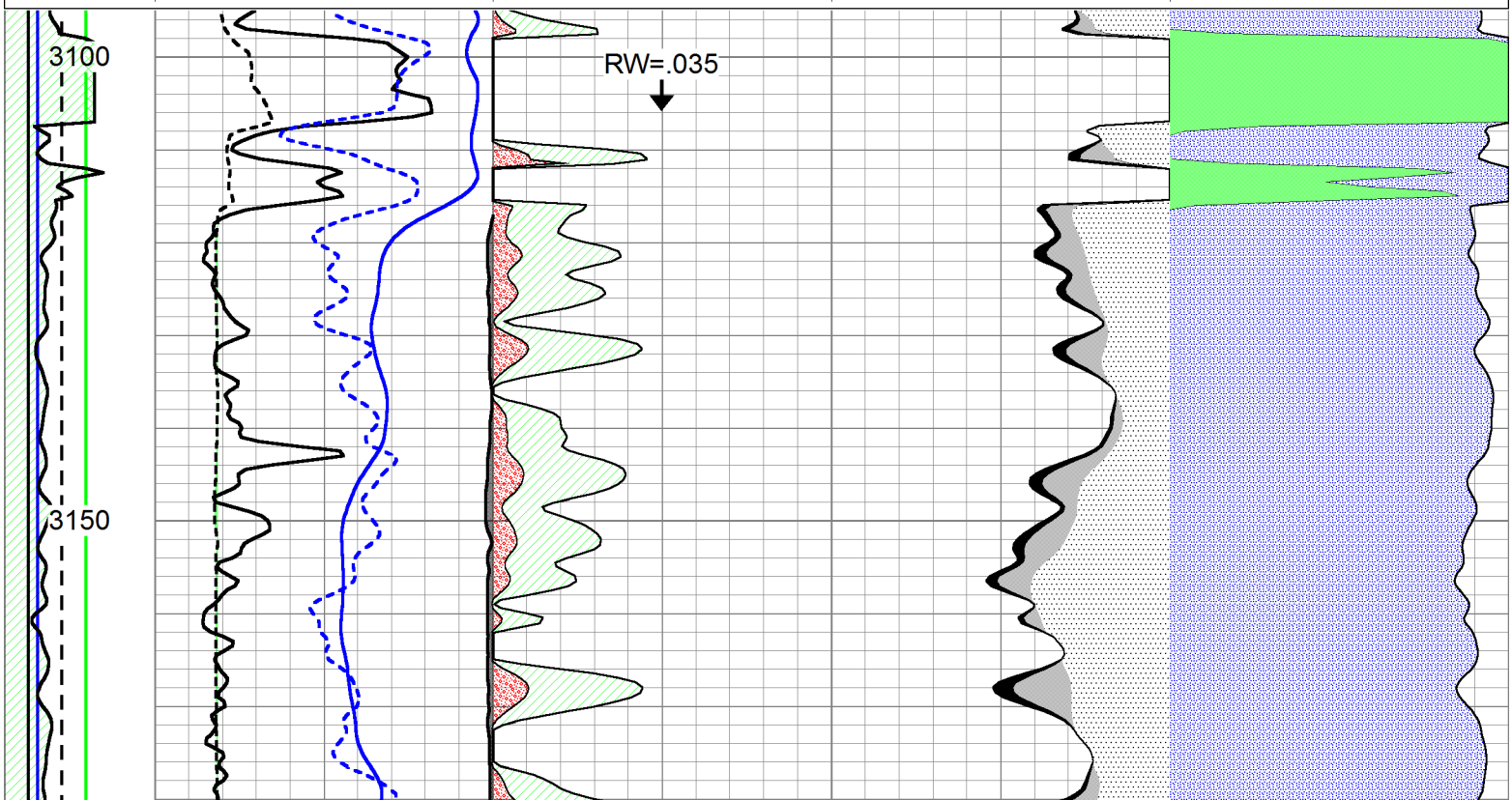
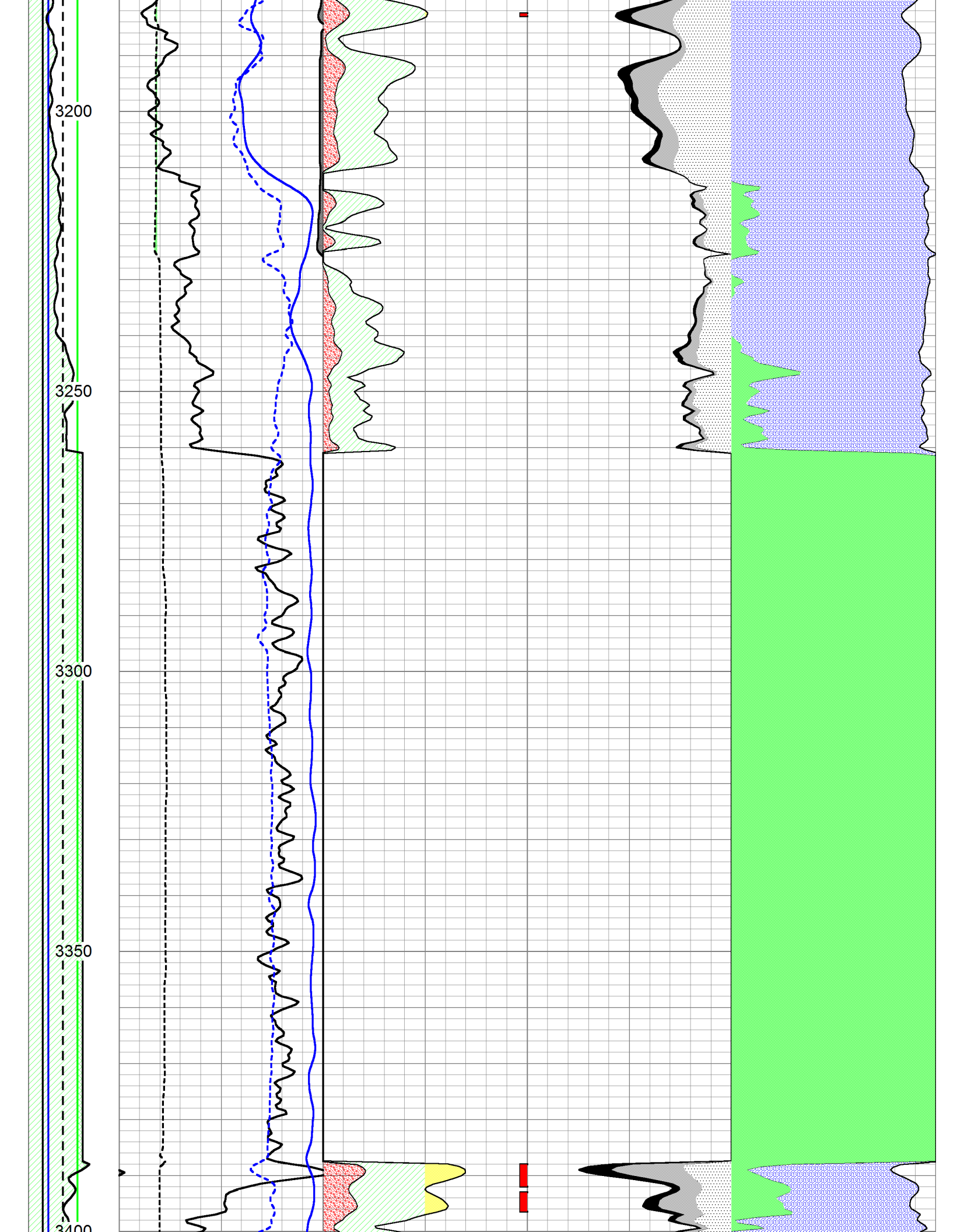
		-150	SPC (mV)	0	1	SXO	0	0.3	BVWSXO	0			

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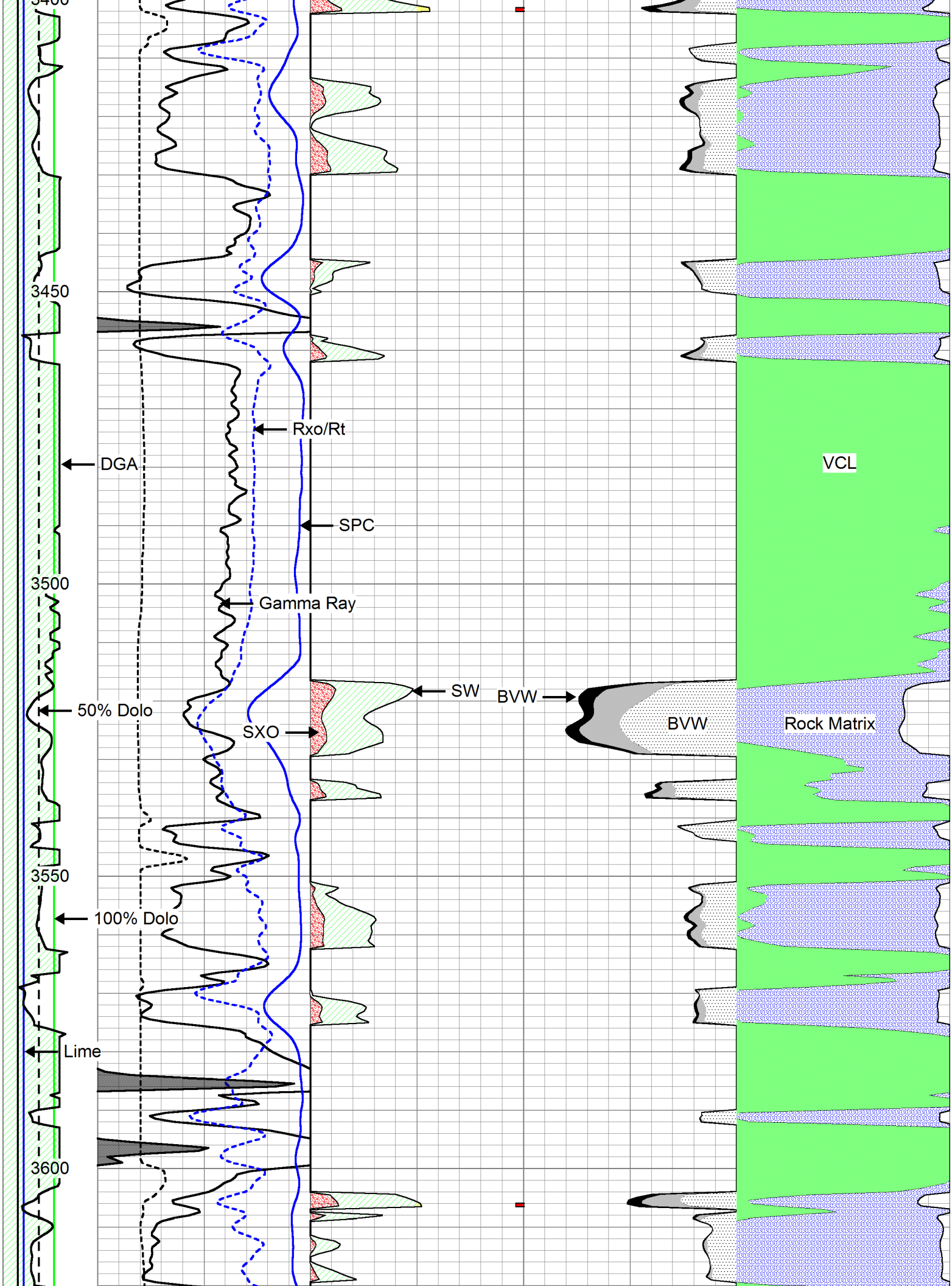
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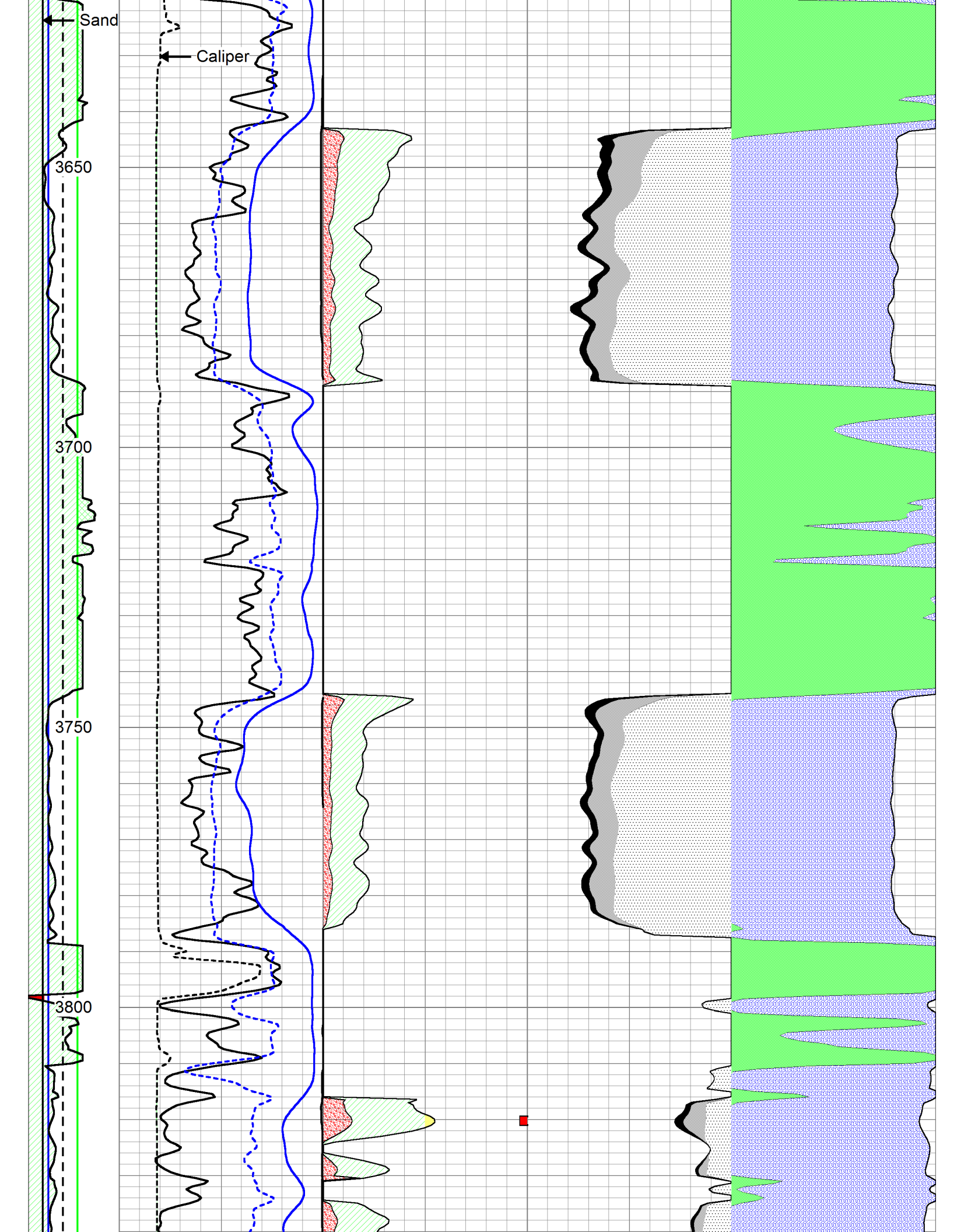
BVW
Rock Matrix
VCL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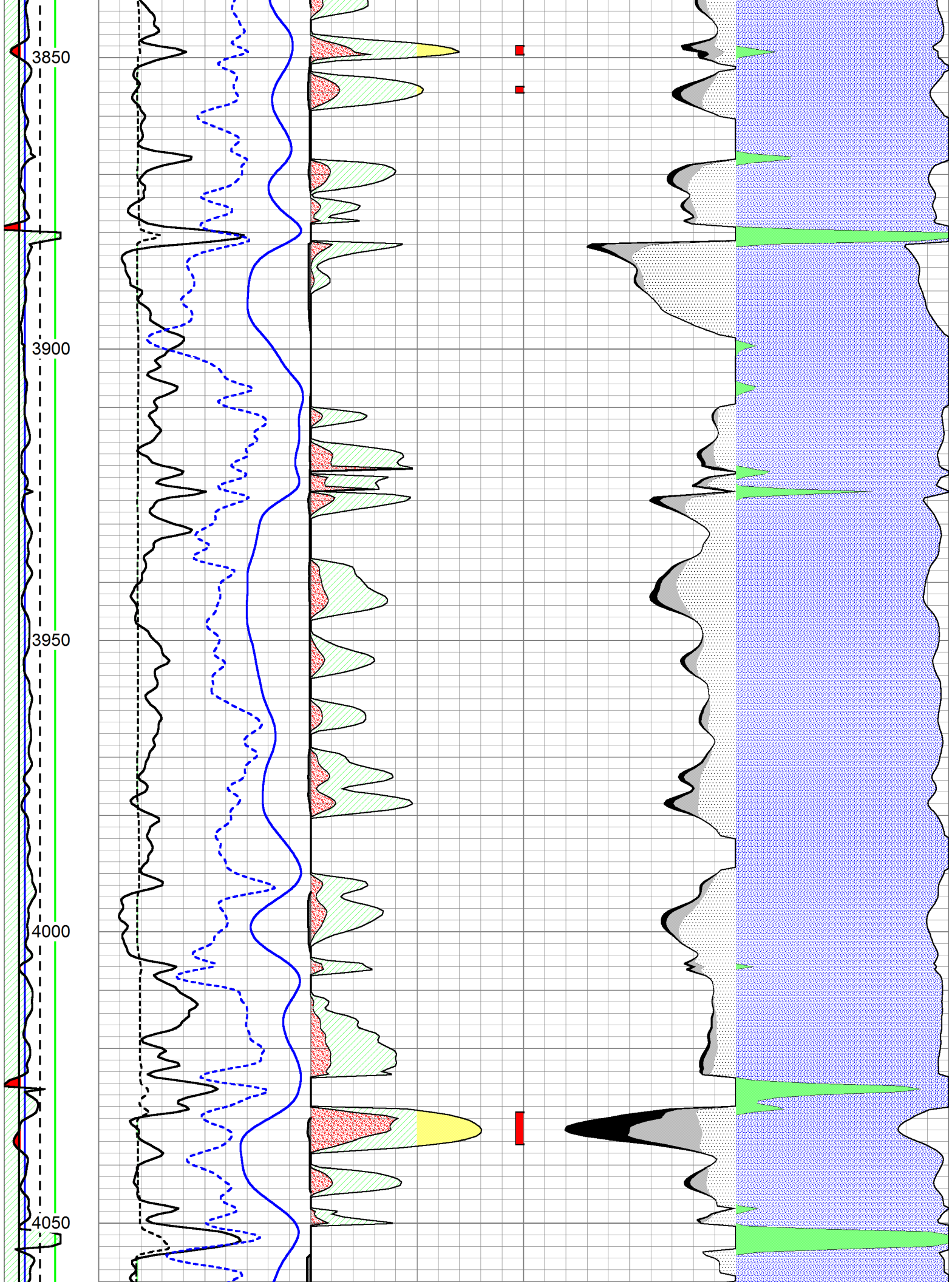
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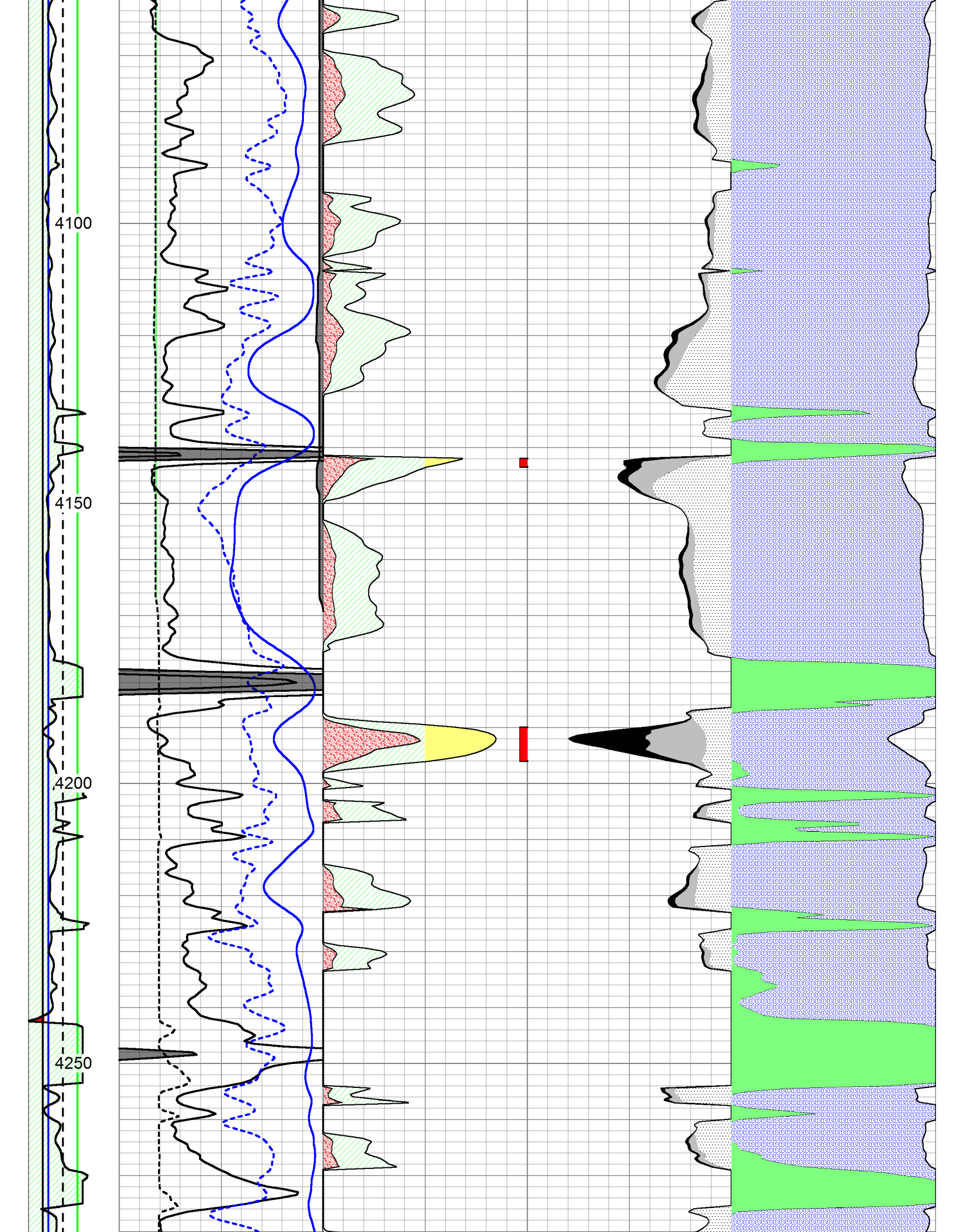
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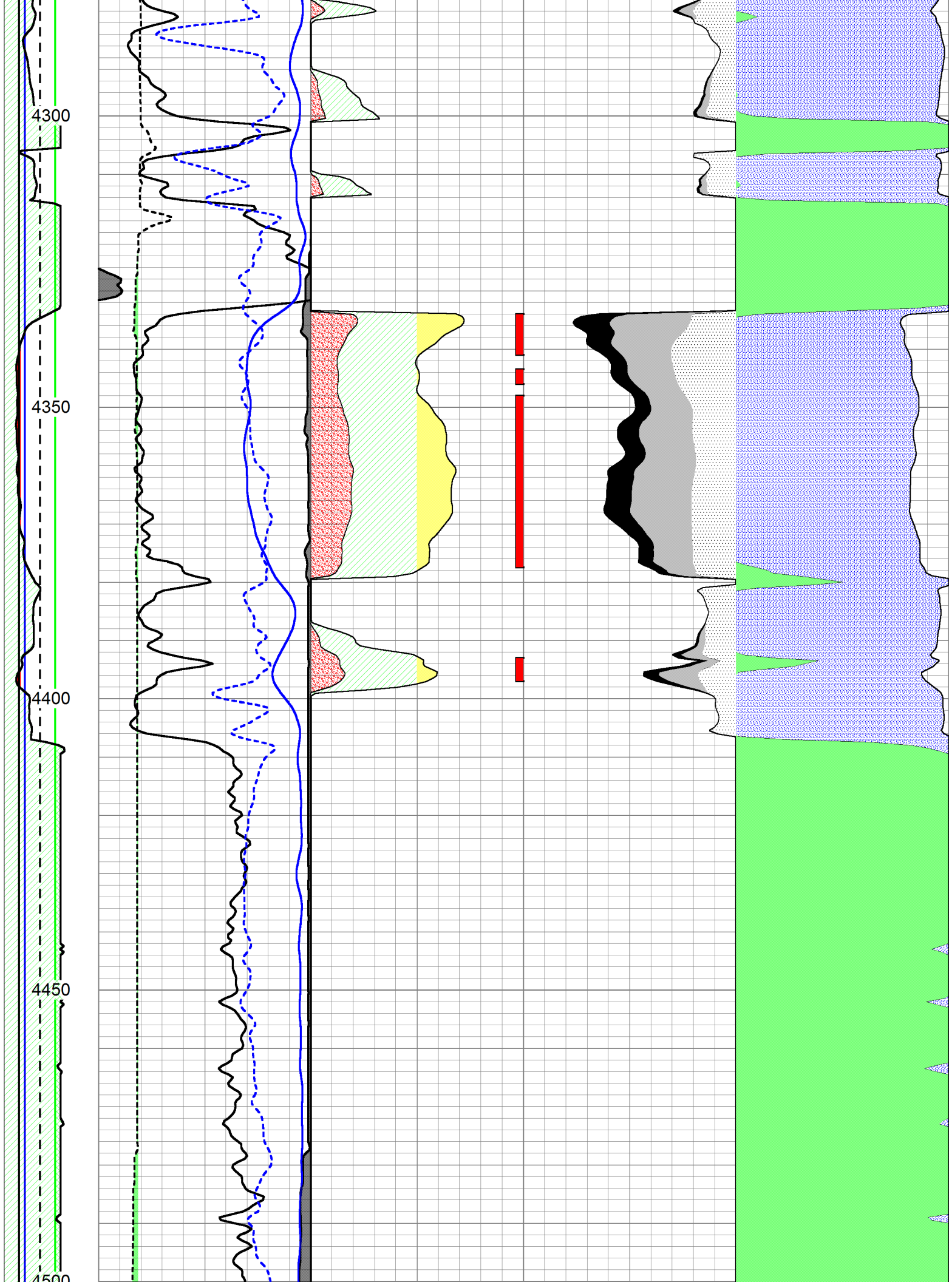
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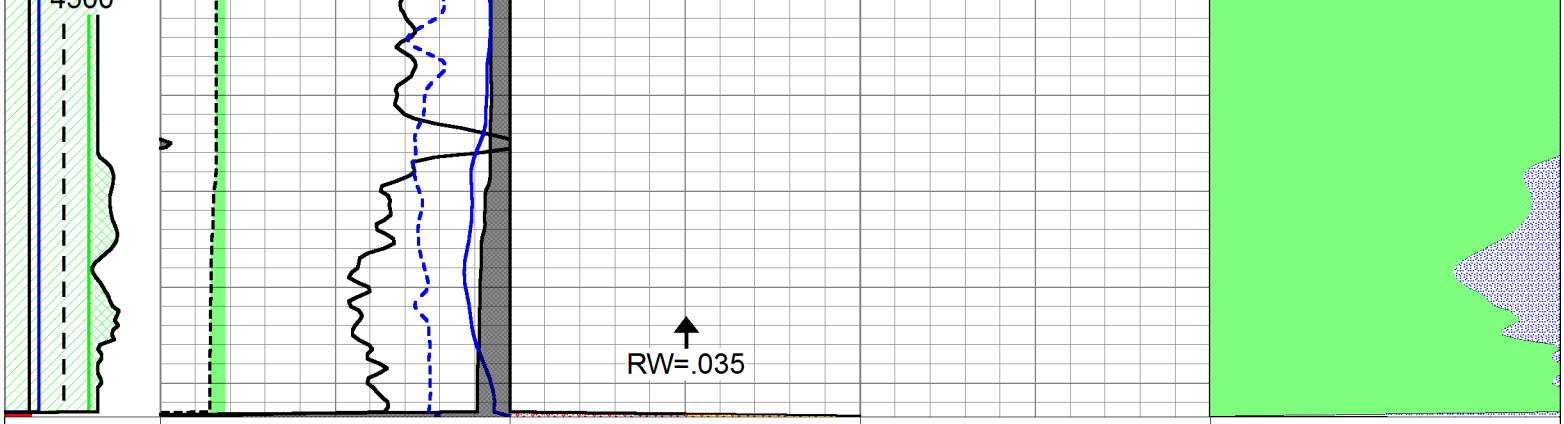

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2.6	3.1	6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		-150	SPC (mV)	0	1	SXO	0	0.3	BVWSXO	0			

API No. 15-007-24,175-00-00

Pioneer Energy Services

Dual Induction Log

Company	Prater Oil & Gas Operating, Inc.
Well	Banks #4
Field	Amber Creek
County	Barber
State	Kansas
Location	N/2 N/2 S/2 SE 1155' FSL & 1320' FEL
Other Services	CNL/CDL
Sec:	36
Twp:	30S
Rge:	12W
Permanent Datum	Ground Level, Elevation 1688
Log Measured From	Kelly Bushing, 9 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Elevation	K.B. 1697 / D.F. / G.L. 1688

Date	6/11/2014			
Run Number	One			
Depth Driller	4575			
Depth Logger	4576			
Bottom Logged Interval	4575			
Top Log Interval	250			
Casing Driller	8.625 @ 268			
Casing Logger	267			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	6000			
Density / Viscosity	9.2 / 46			
pH / Fluid Loss	9.0 / 10.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.55 @ 85			
Rmf @ Meas. Temp	0.41 @ 85			
Rmc @ Meas. Temp	0.74 @ 85			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.38 @ 122			
Operating Rig Time	2 Hours			
Max Rec. Temp. F	122			
Equipment Number	15			
Location	Hays			
Recorded By	D.Kerr			
Witnessed By	Scott Alberg			

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Comments

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Pratt KS, South to 99 Springs RD,
3/4 North East, 1 1/4 East, North Into

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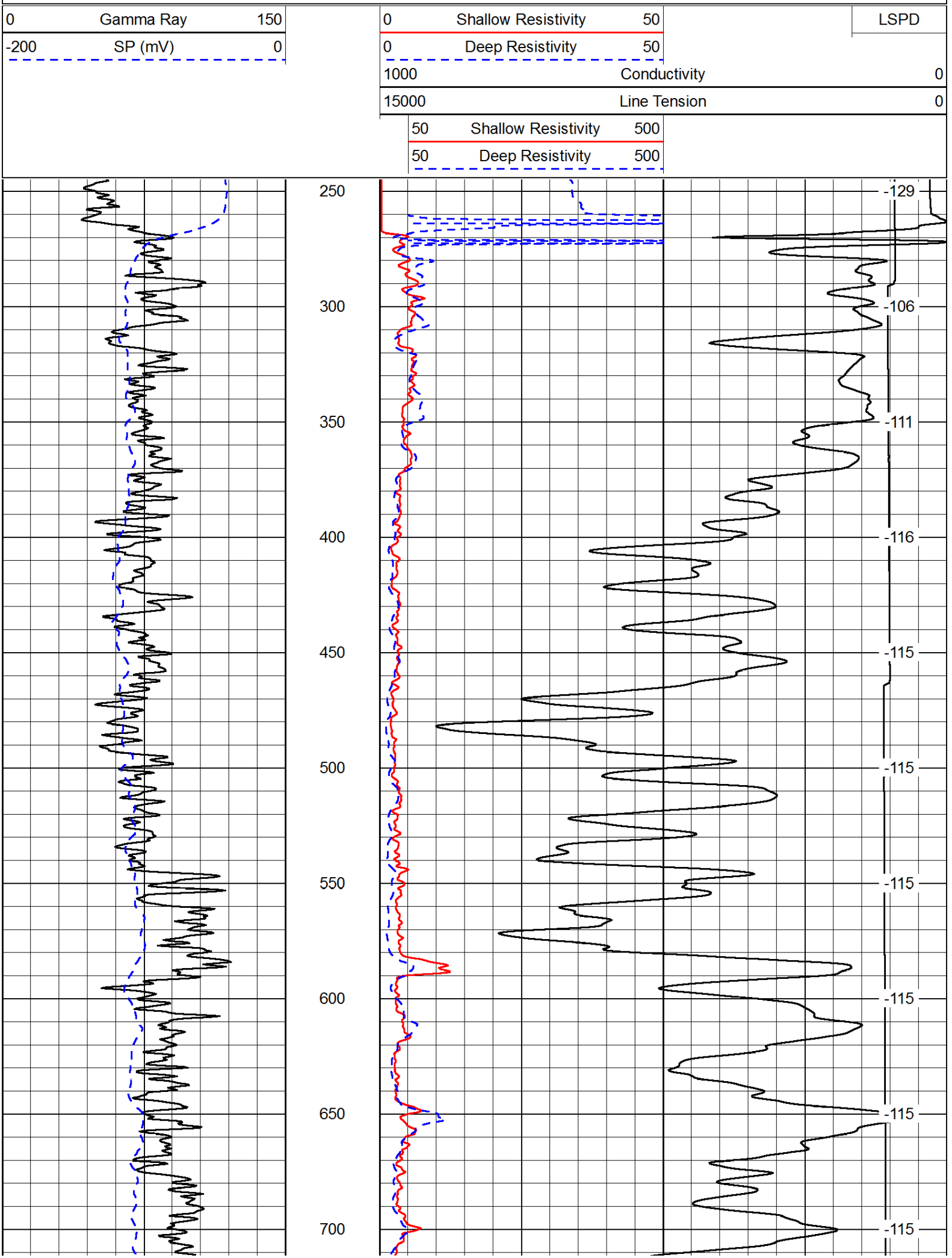
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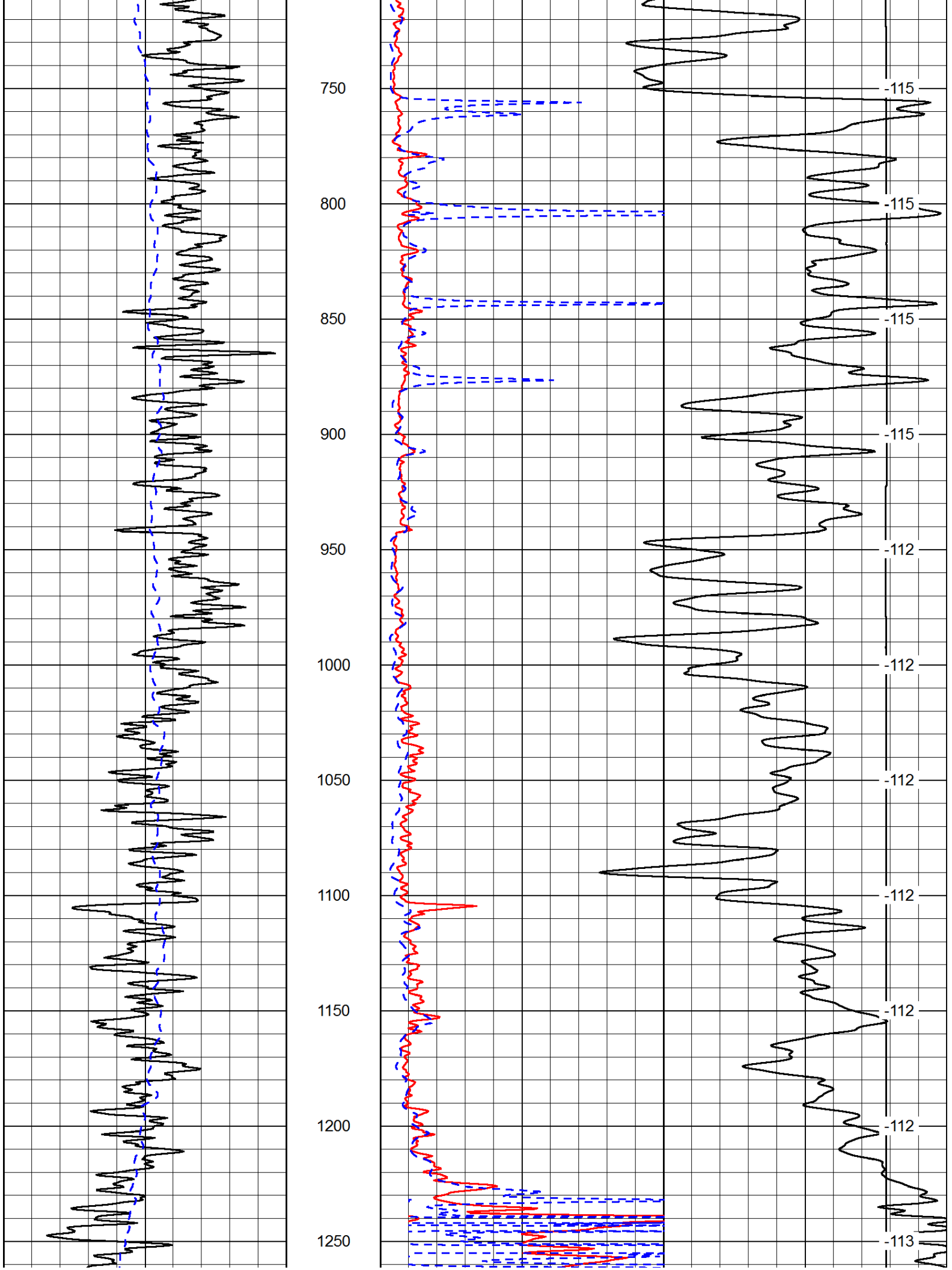
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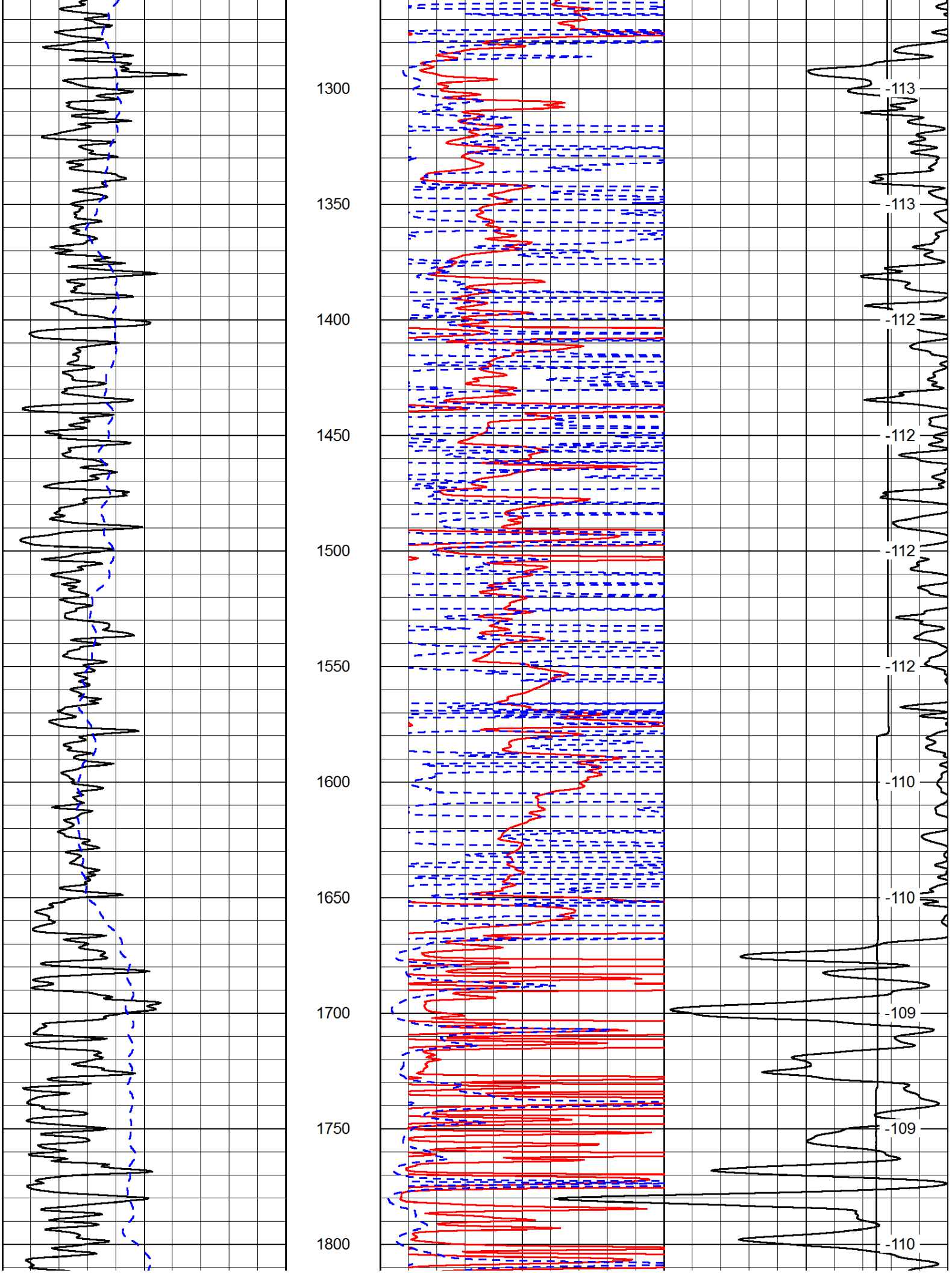
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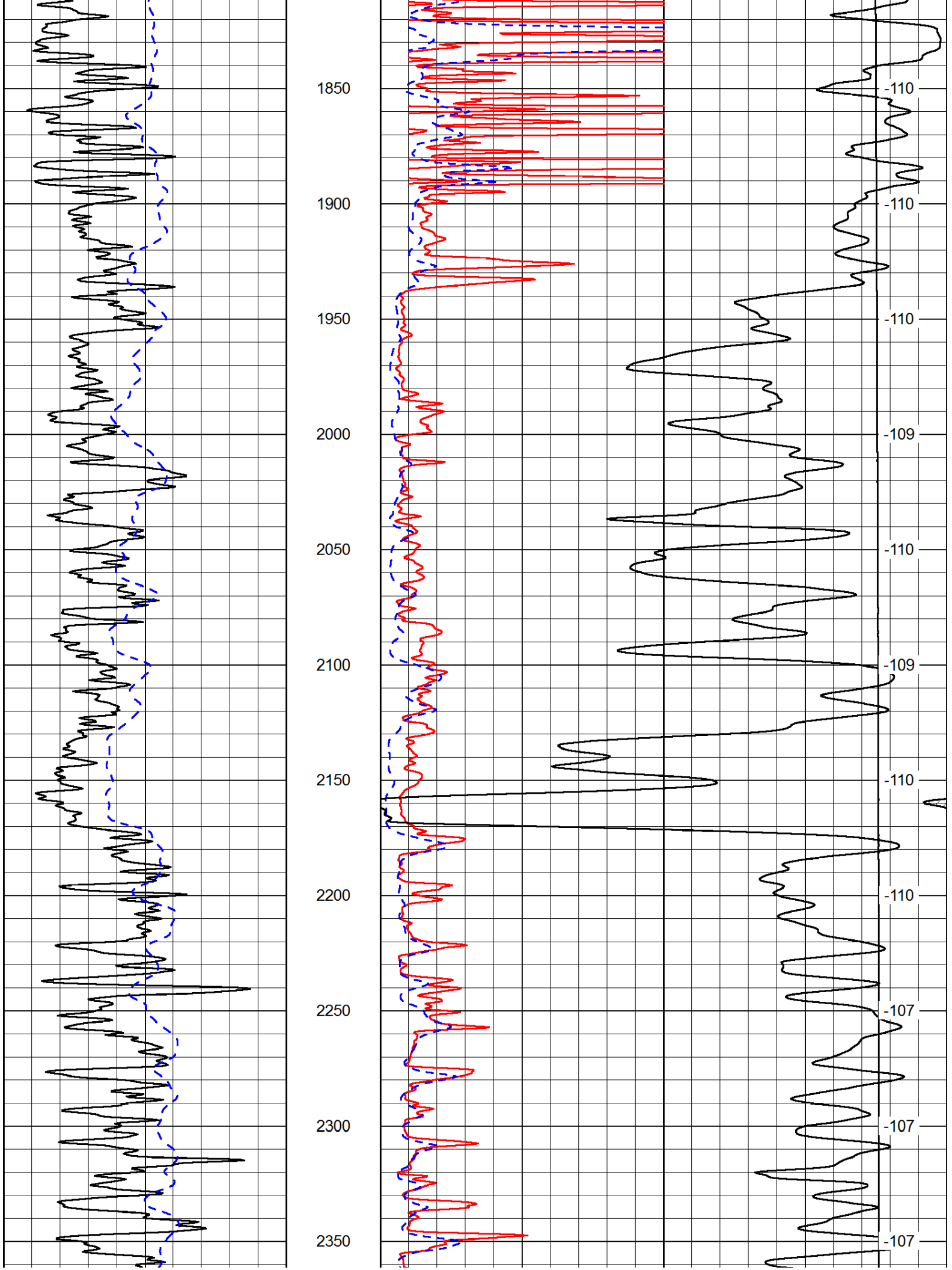
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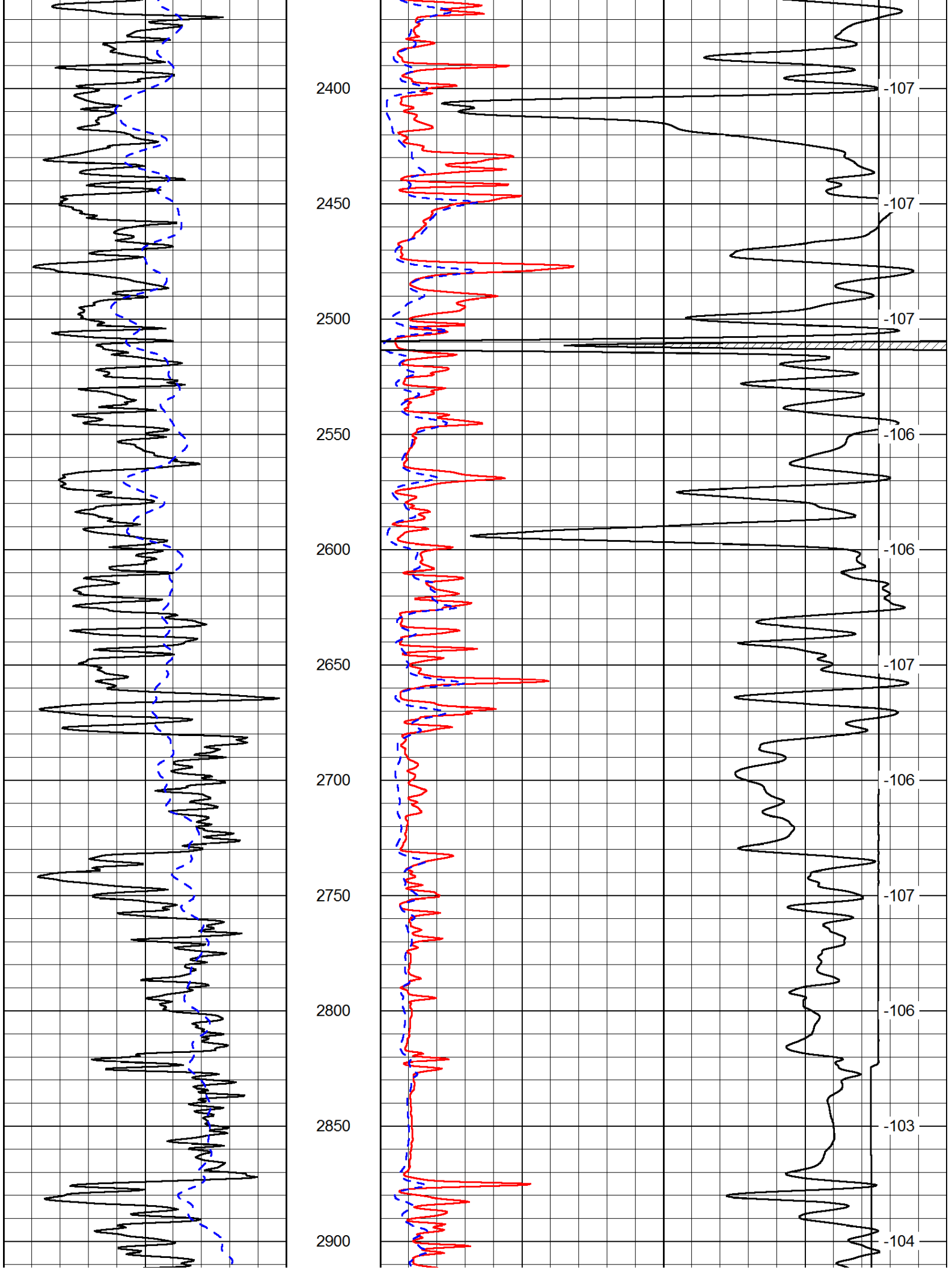
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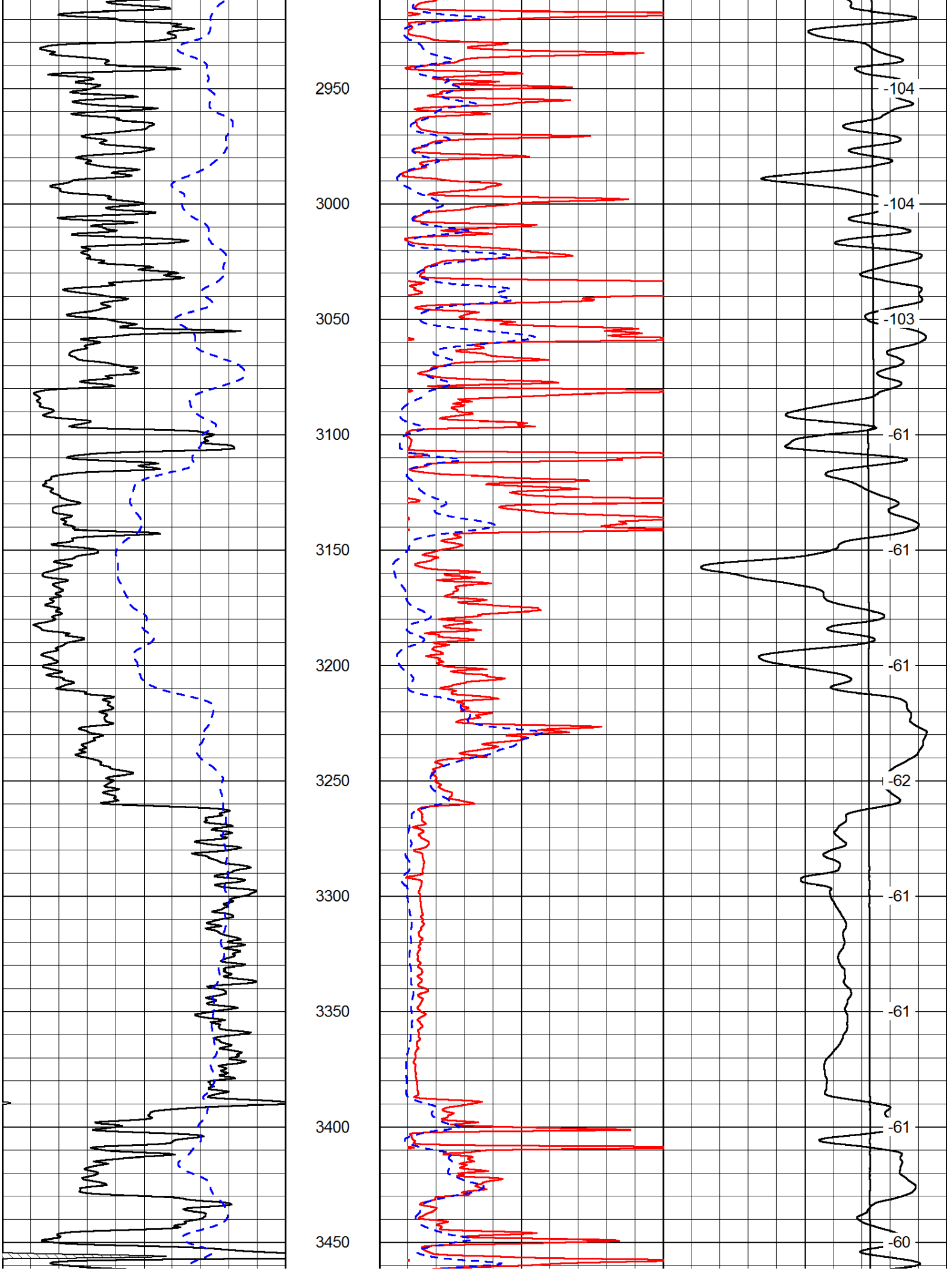
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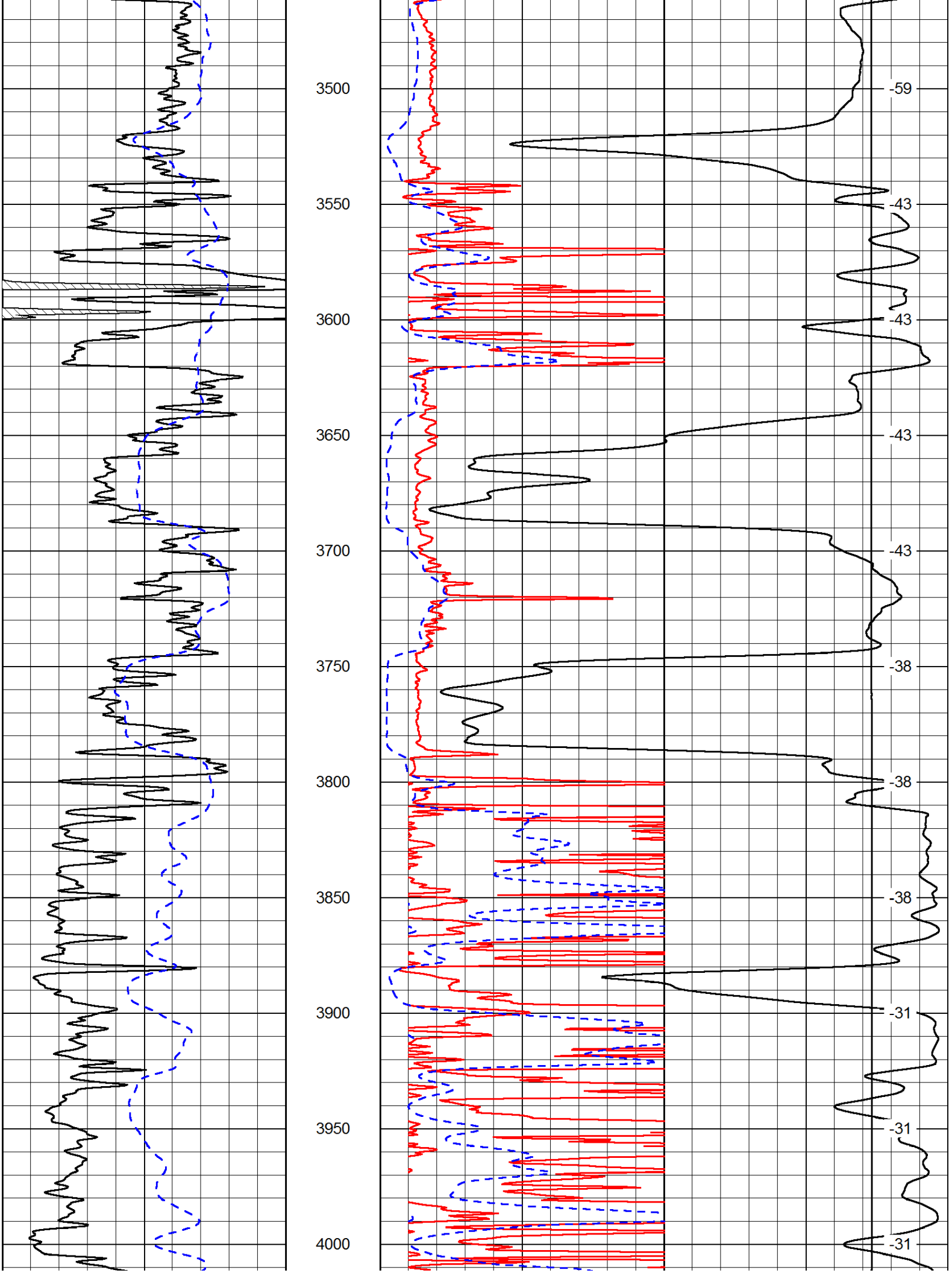
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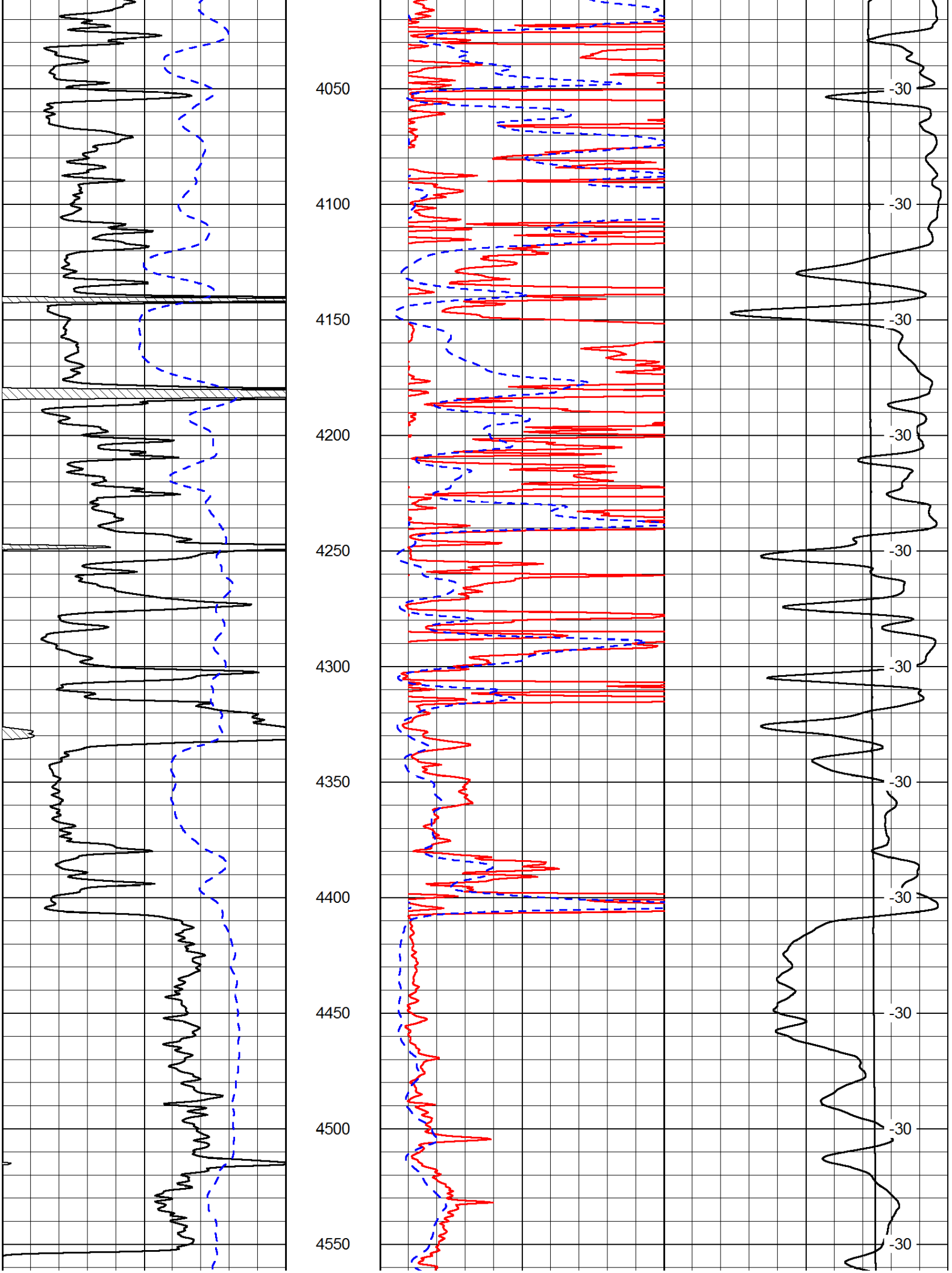
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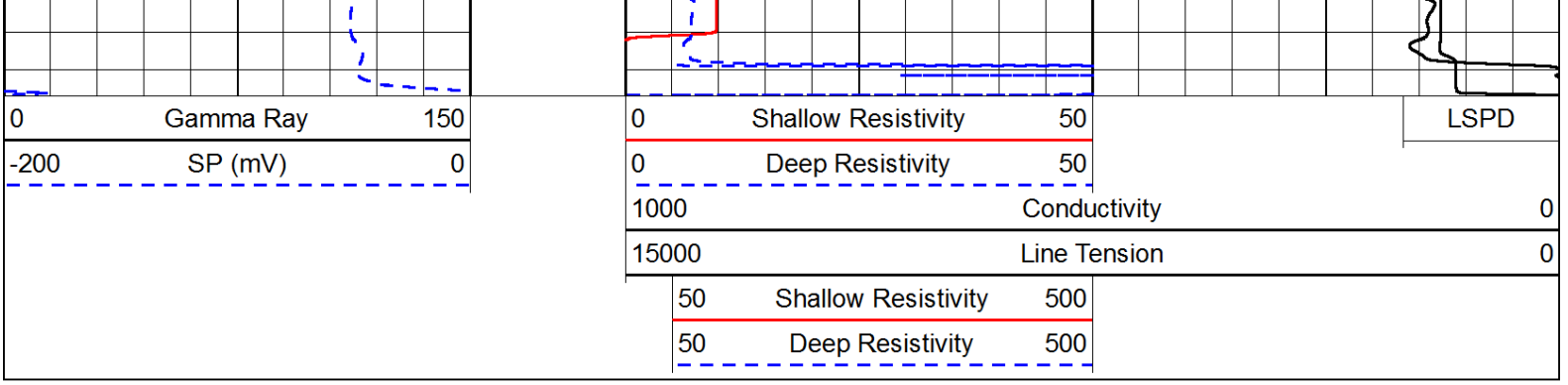

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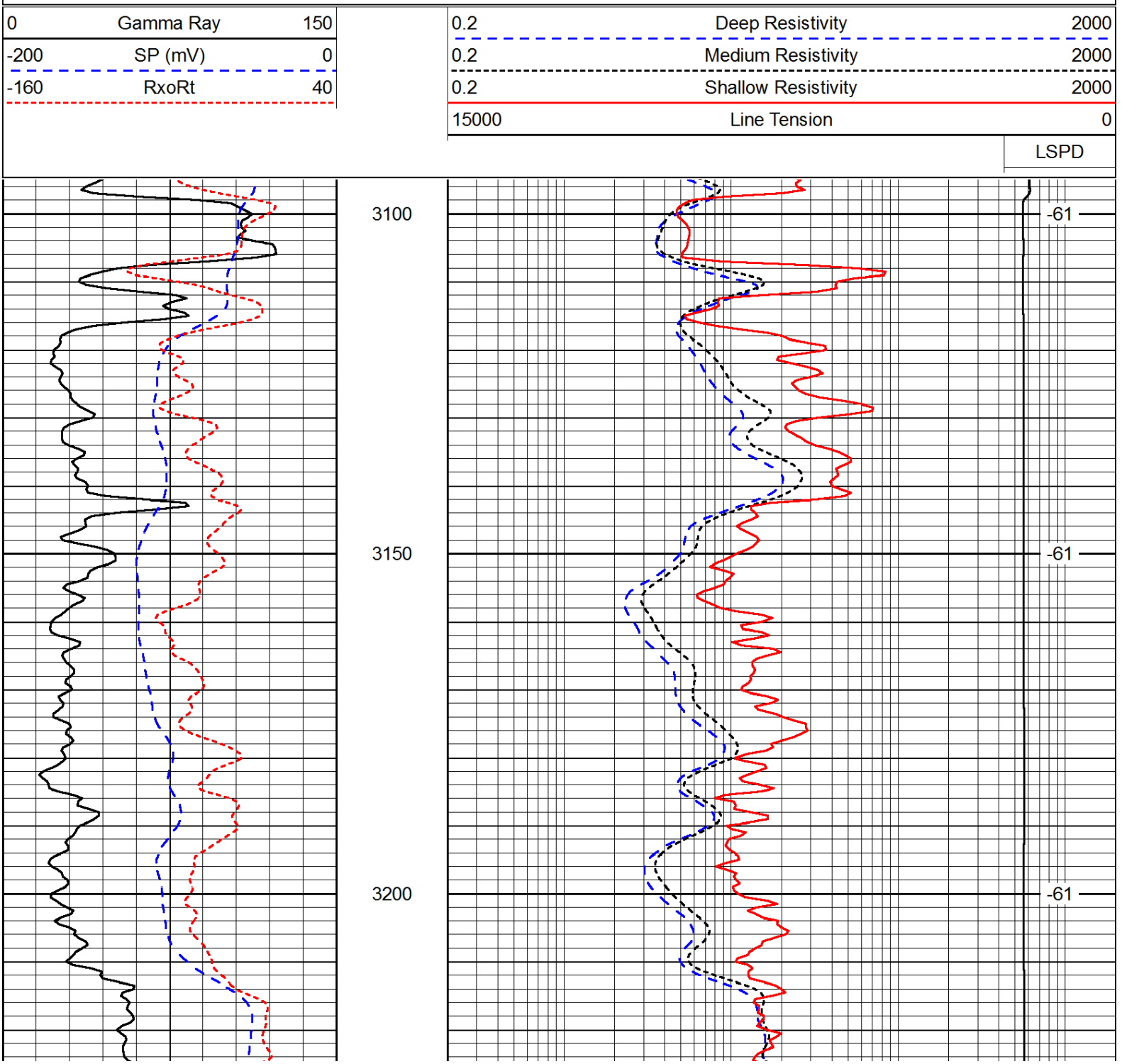

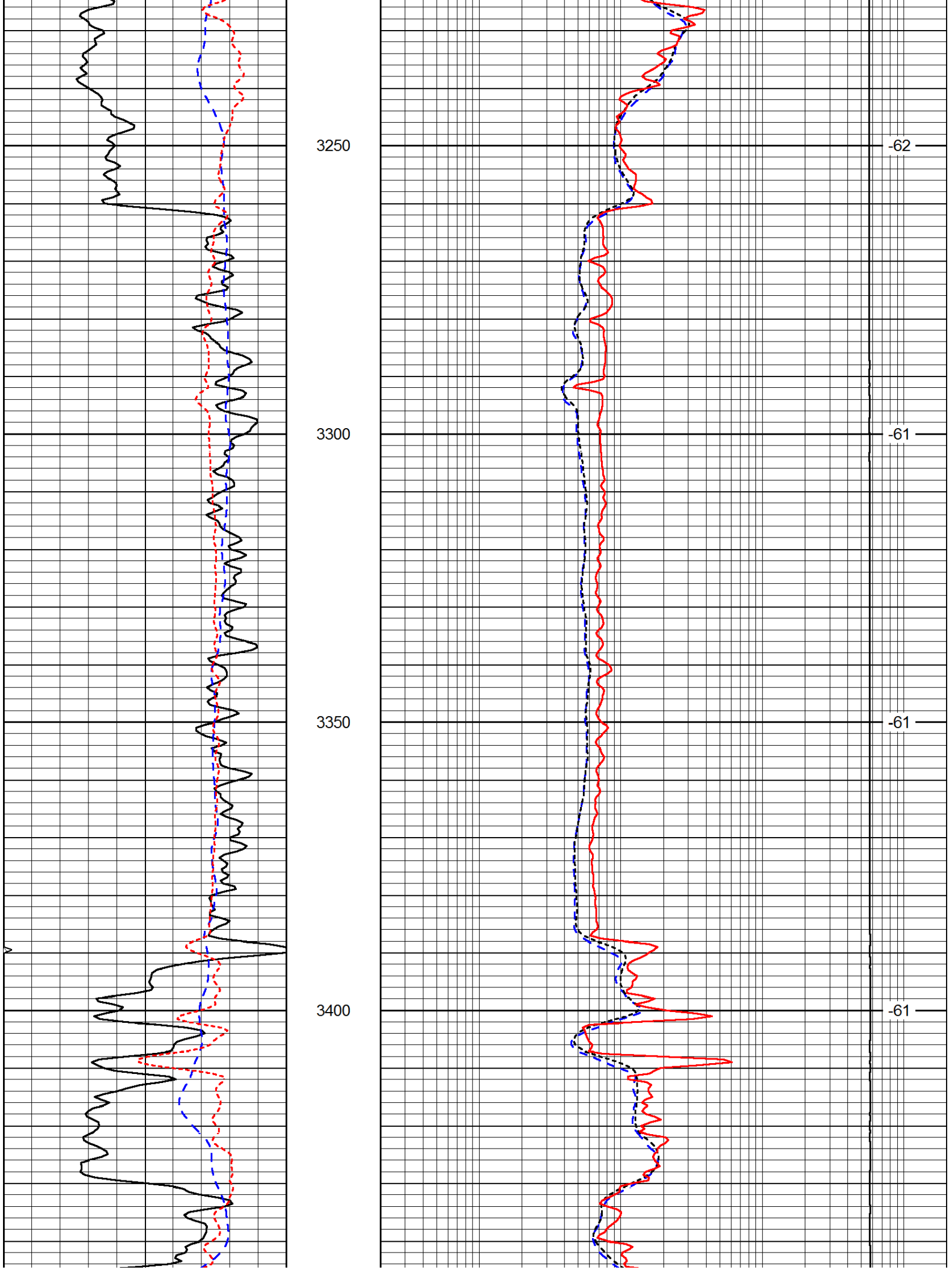
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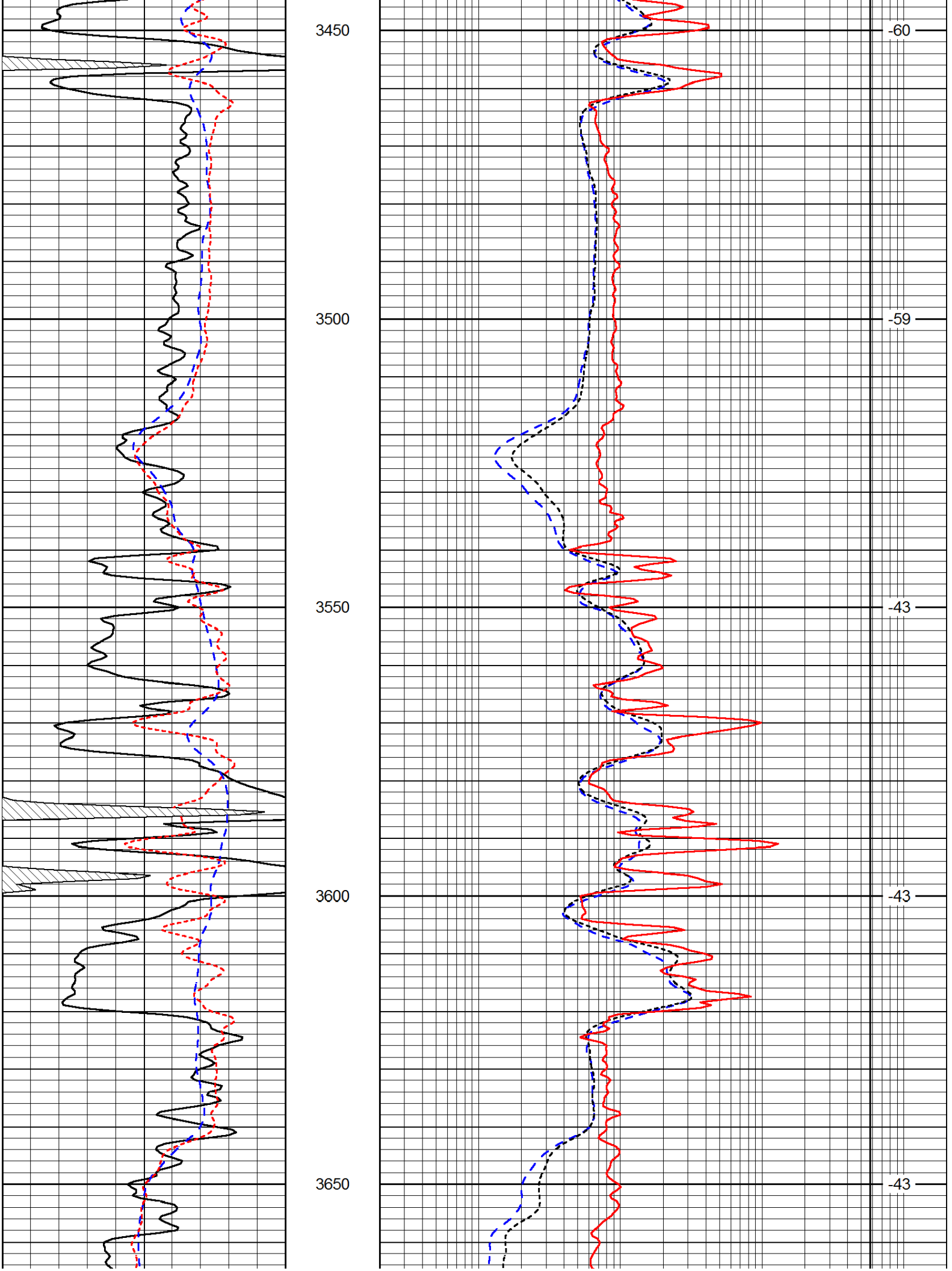
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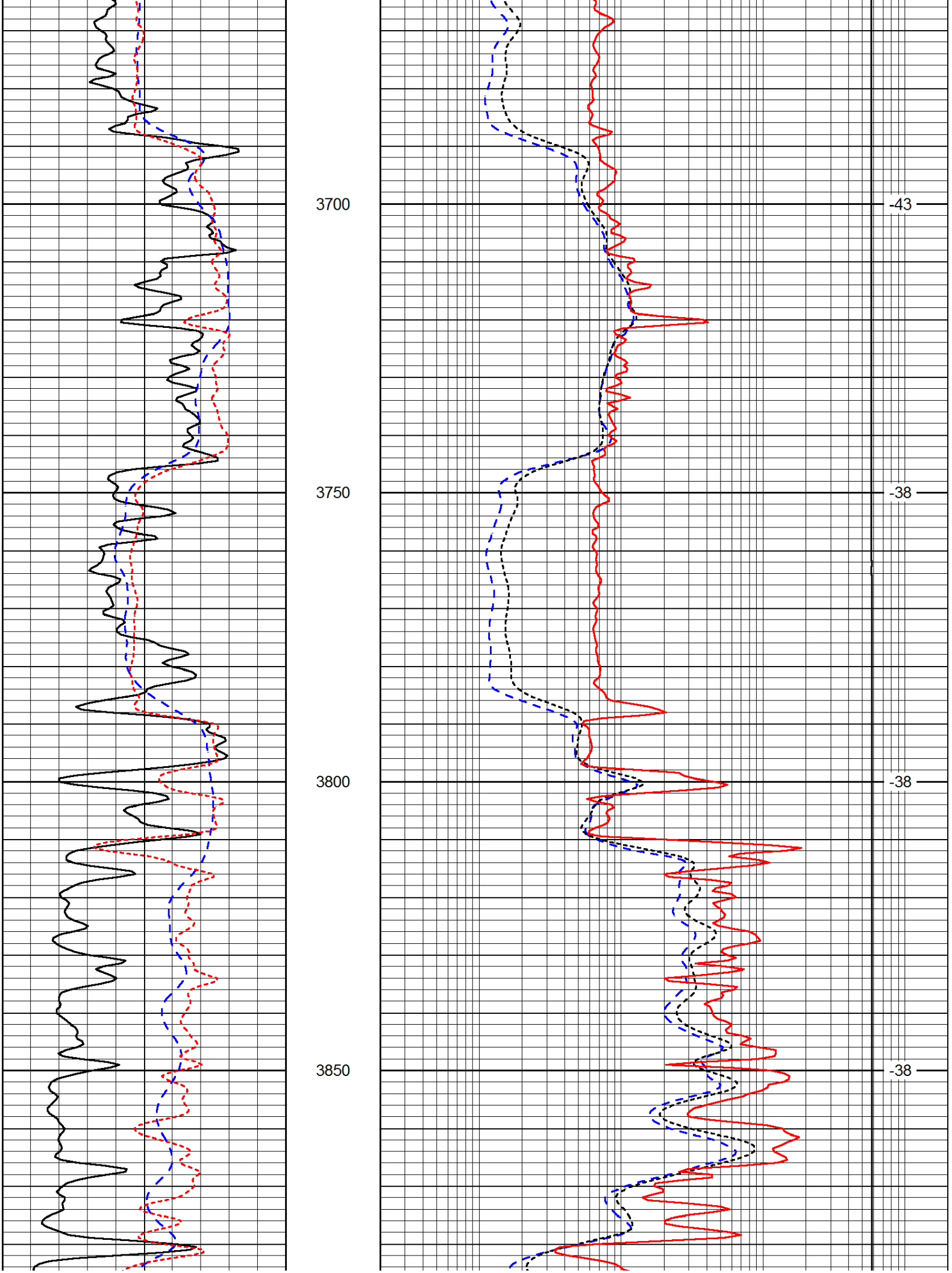
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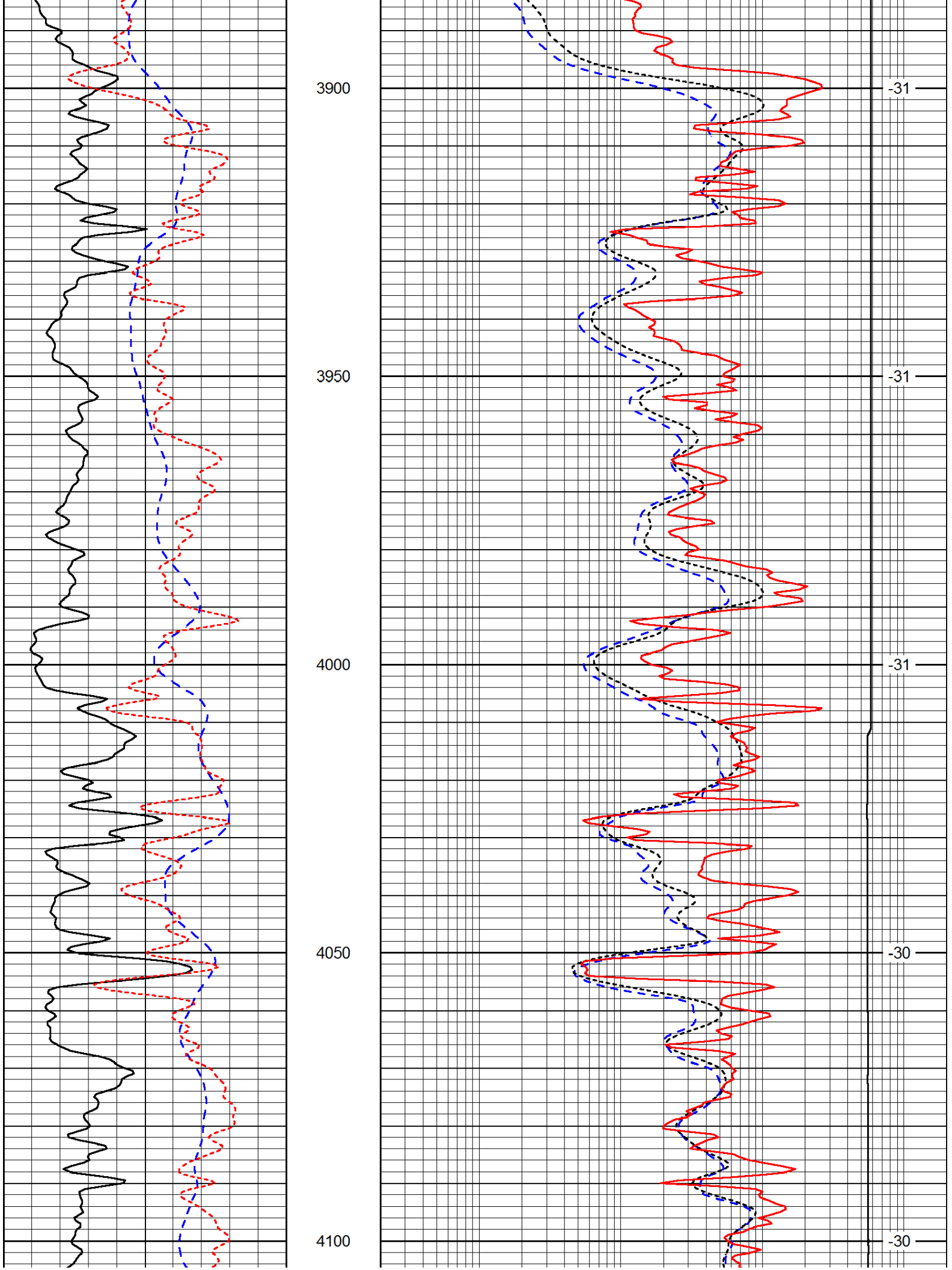
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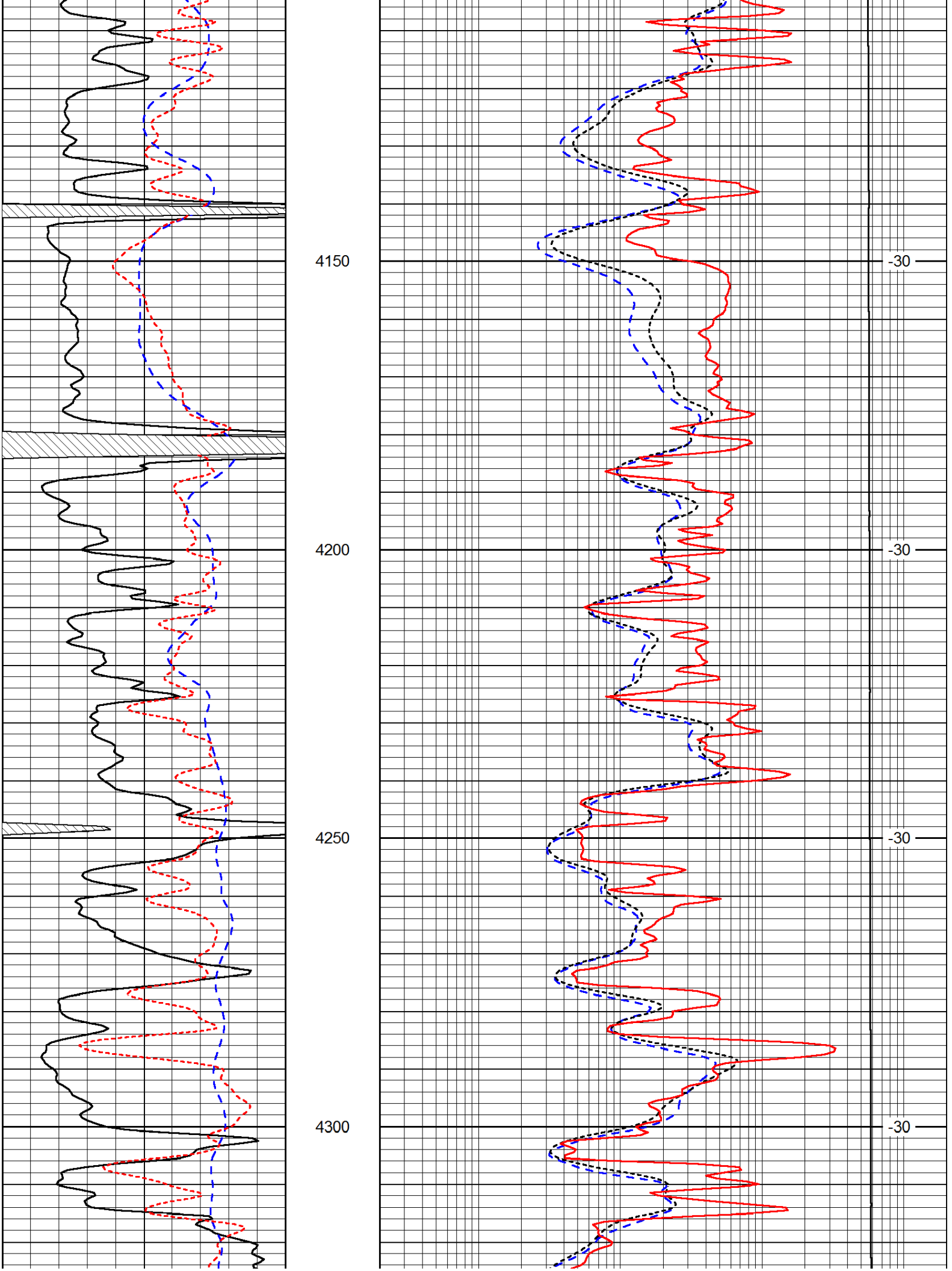
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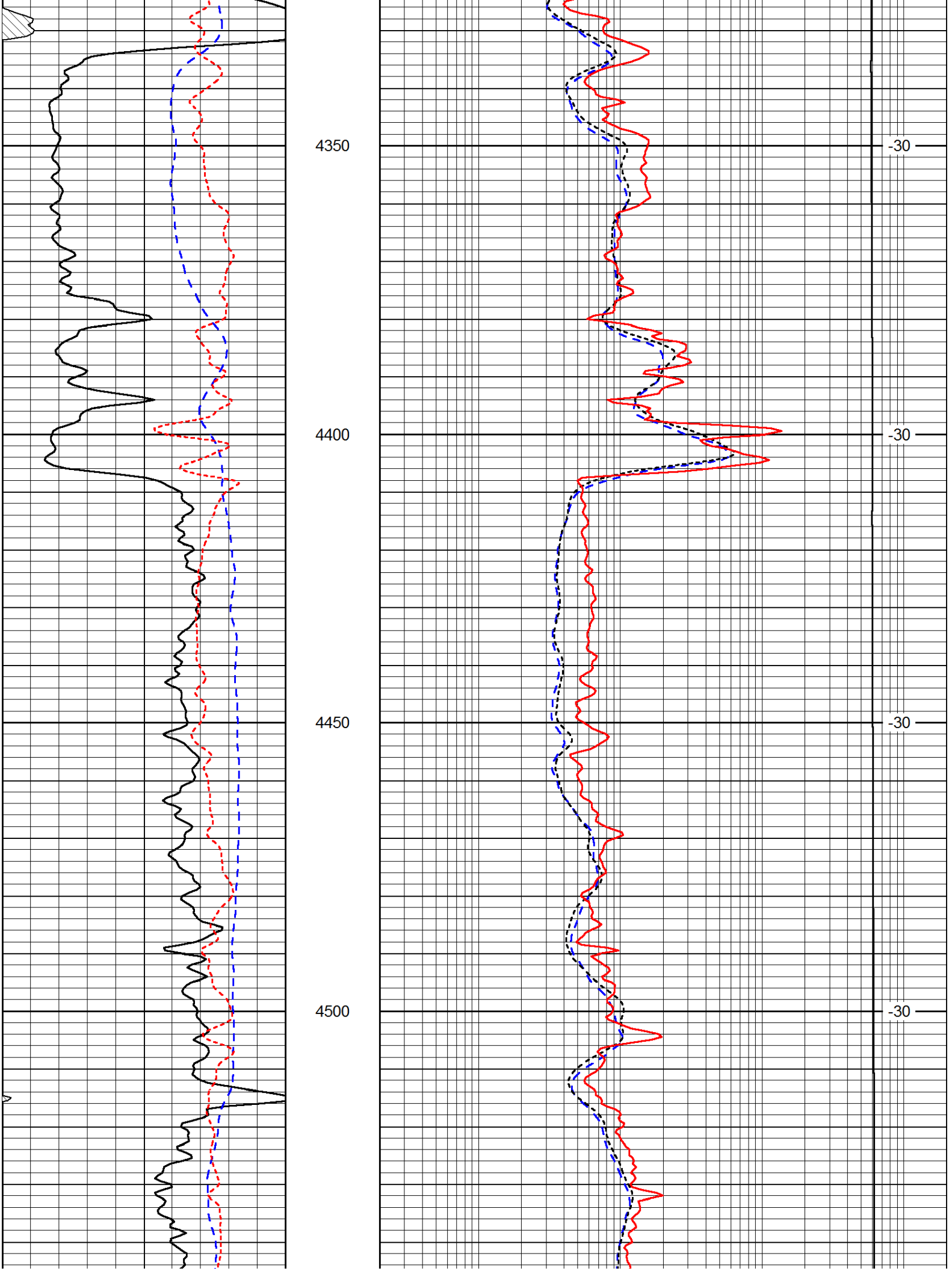
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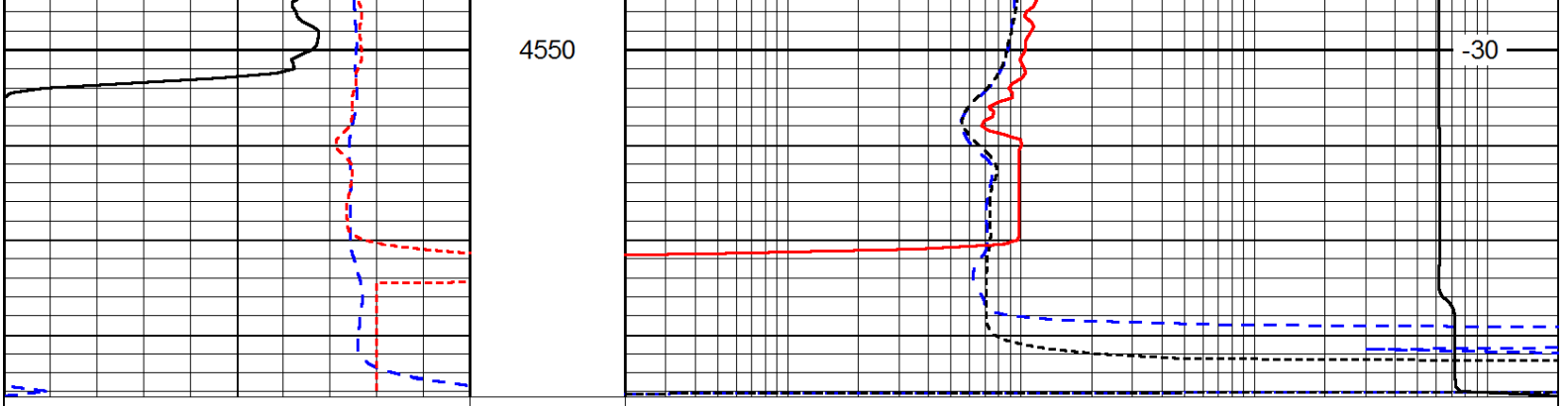


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

LSPD

PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-007-24,175-00-00

Company Prater Oil & Gas Operating, Inc.

Well Banks #4

Field Amber Creek

County Barber State Kansas

Location N/2 N/2 S/2 SE
1155' FSL & 1320' FEL
Sec: 36 Twp: 30S Rge: 12W

Other Services
DIL

Elevation
K.B. 1697
D.F.
G.L. 1688

Permanent Datum Ground Level Elevation 1688
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	6/11/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	4575
Depth Logger	4576
Bottom Logged Interval	4555
Top Logged Interval	3100
Type Fluid In Hole	Chemical
Salinity, PPM CL	6000
Density	9.2
Level	Full
Max. Rec. Temp. F	122
Operating Rig Time	2 Hours
Equipment -- Location	15 Hays
Recorded By	D.Kerr
Witnessed By	Scott Alberg

Borehole Record

Run No.	Bit	From	To
1	12.25	00	268
2	7.875	268	4575

Casing Record

Size	Wgt.	From	To
8.625	24#	00	268

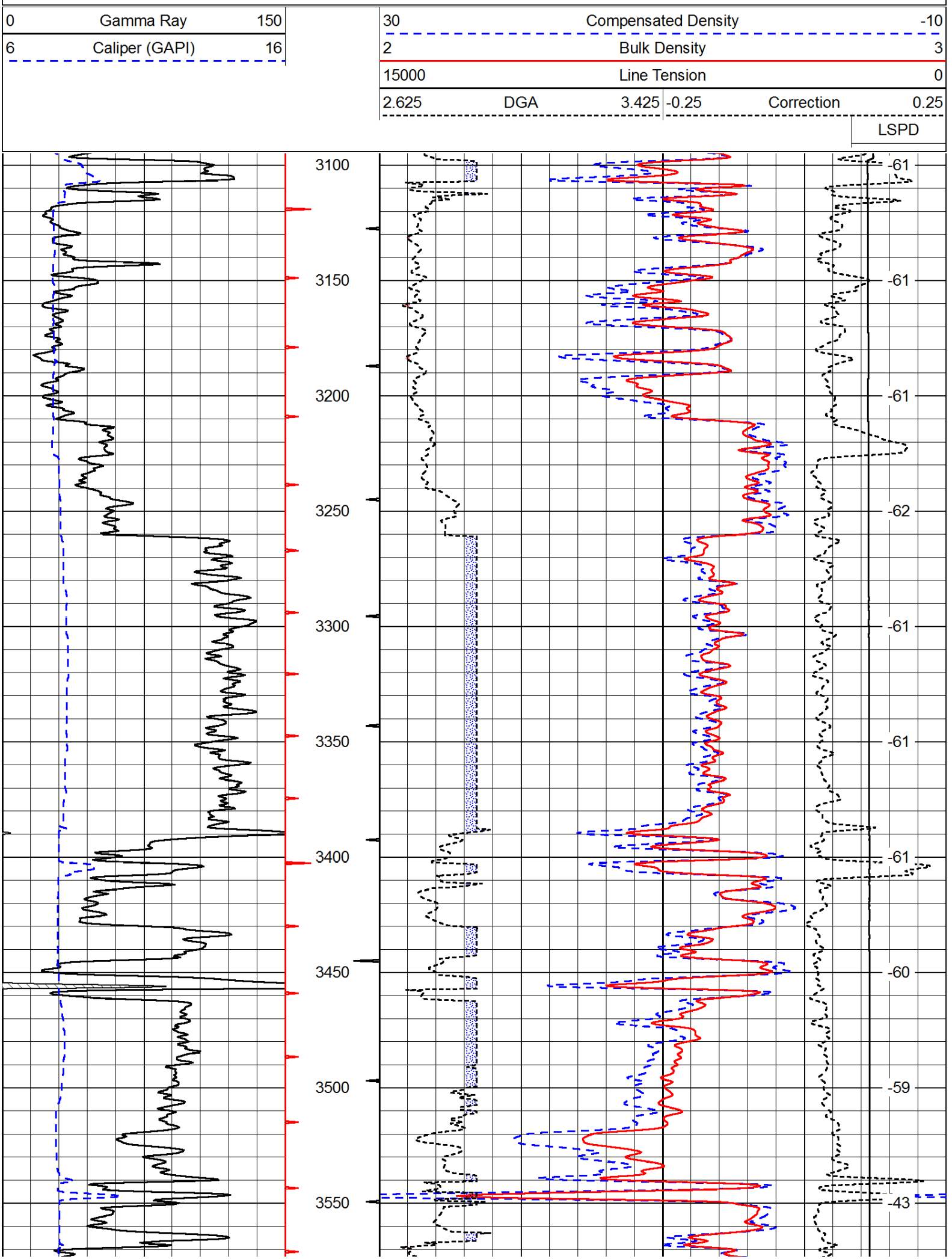
<<< Fold Here >>>

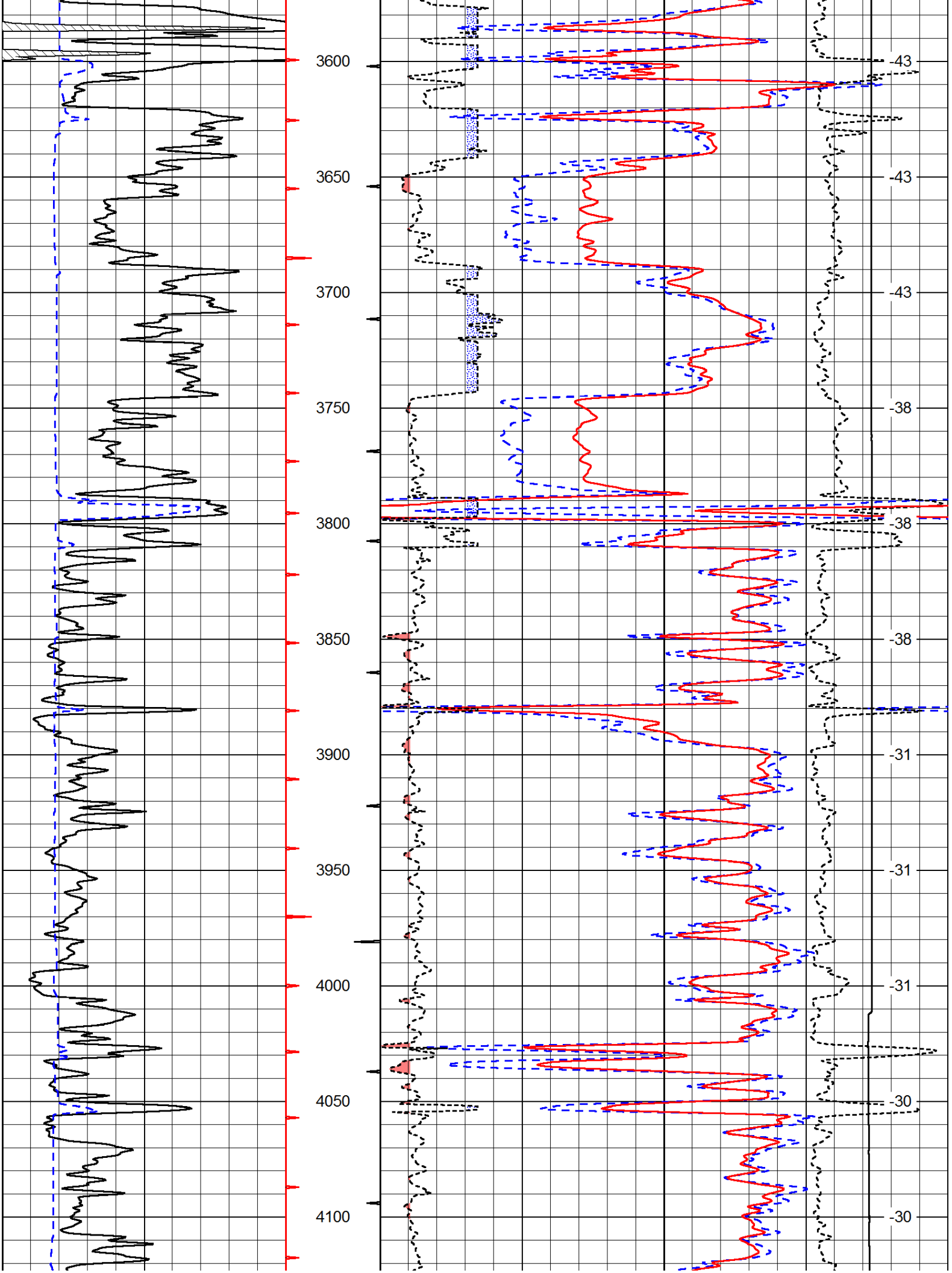
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

Pratt KS, South to 99 Springs RD,
3/4 North East, 1 1/4 East, North Into

Database File:	c:\warrior\data\prater_banks #4\prater_banks_4hd.db
Dataset Pathname:	DIL/pratstk
Presentation Format:	cdl
Dataset Creation:	Wed Jun 11 09:31:59 2014
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
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
-61
-61
-61
-62
-61
-61
-61
-60
-59
-43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3700
3750
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3850
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4100
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-43
-43
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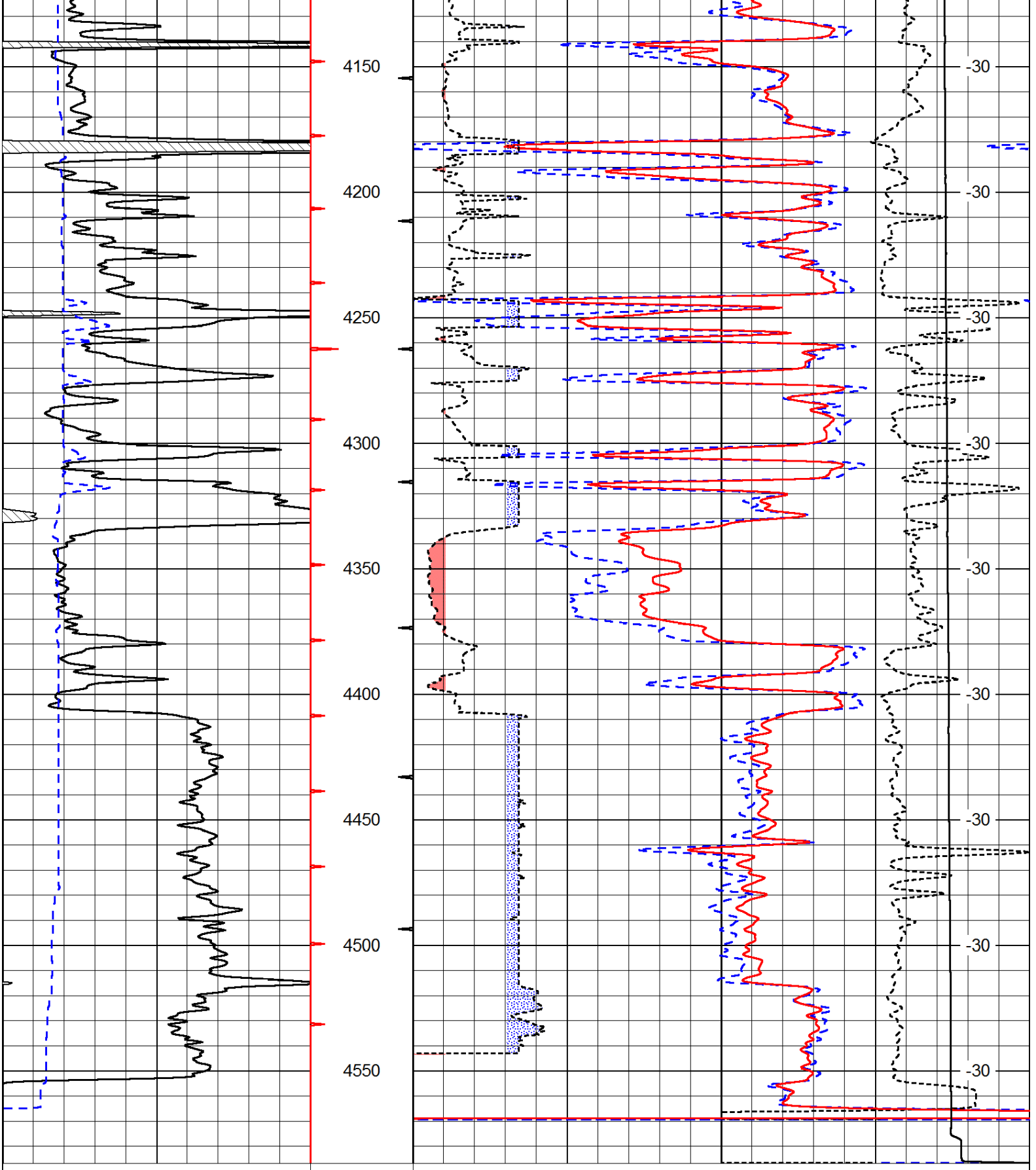
-38
-38
-31
-31
-31
-30
-30



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Dataset Pathname: DIL/pratstk
Presentation Format: cndlspec
Dataset Creation: Wed Jun 11 09:31:59 2014
Charted by: Depth in Feet scaled 1:240

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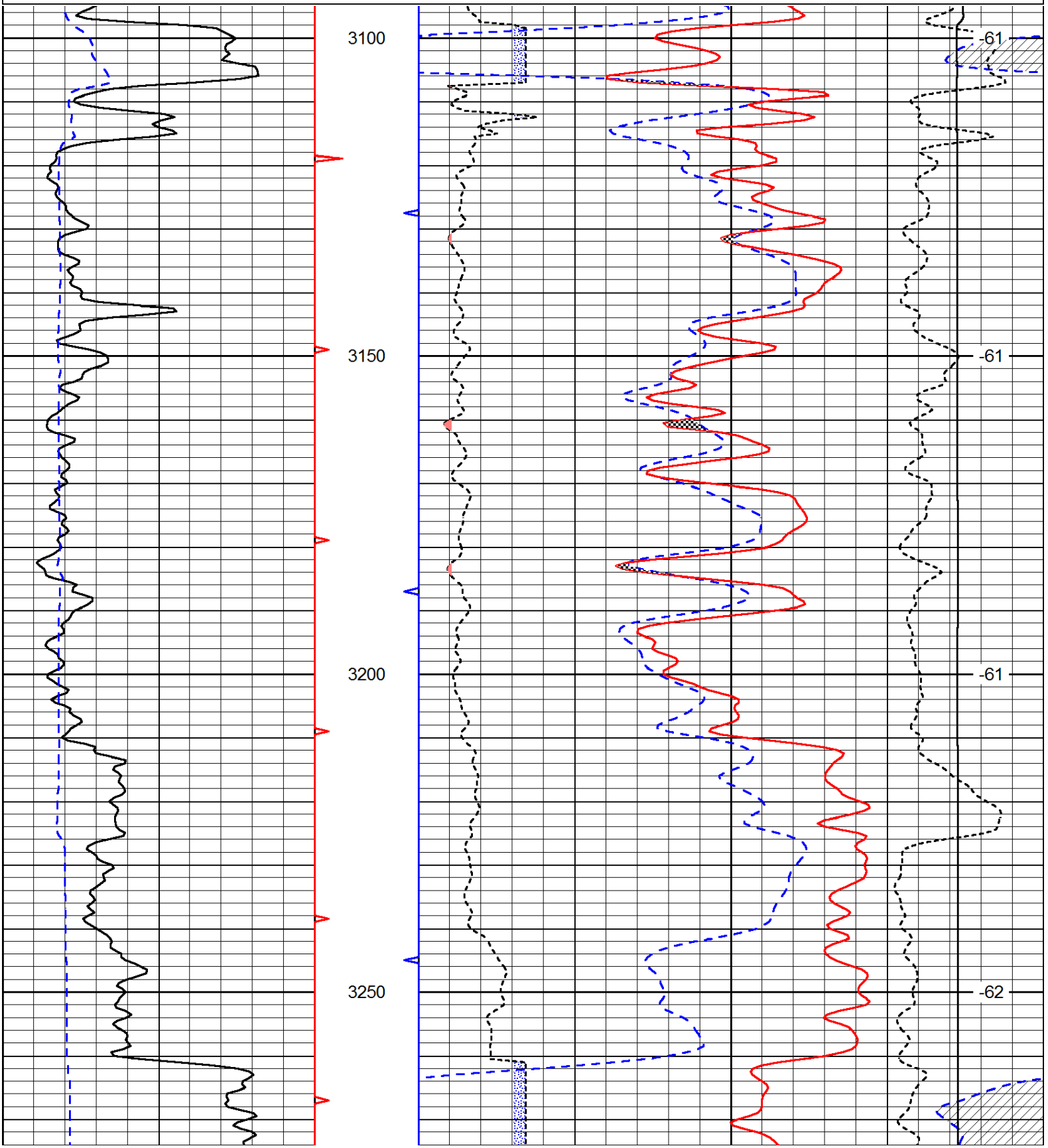
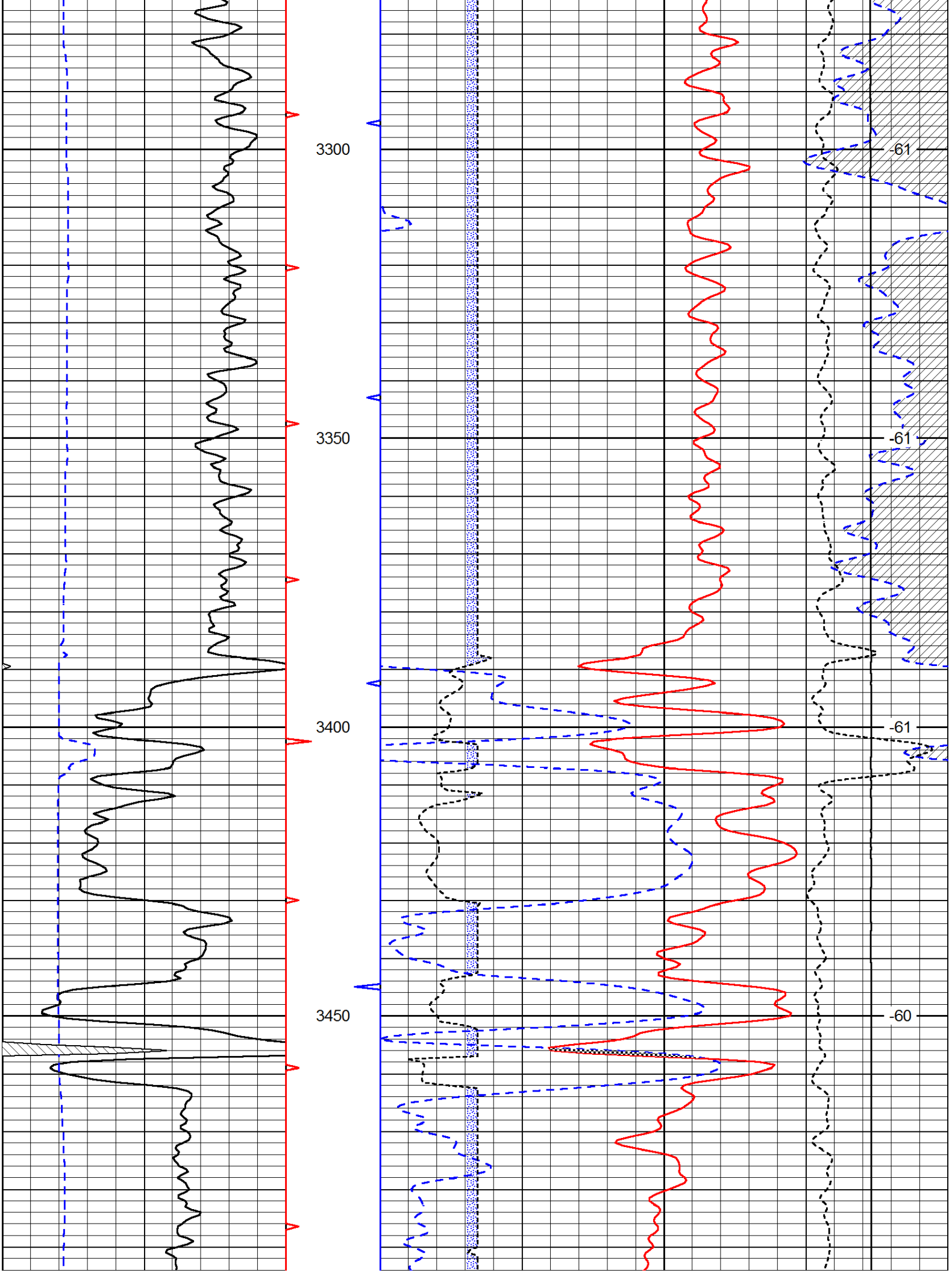
6	Caliper (GAPI)	16

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

LSPD

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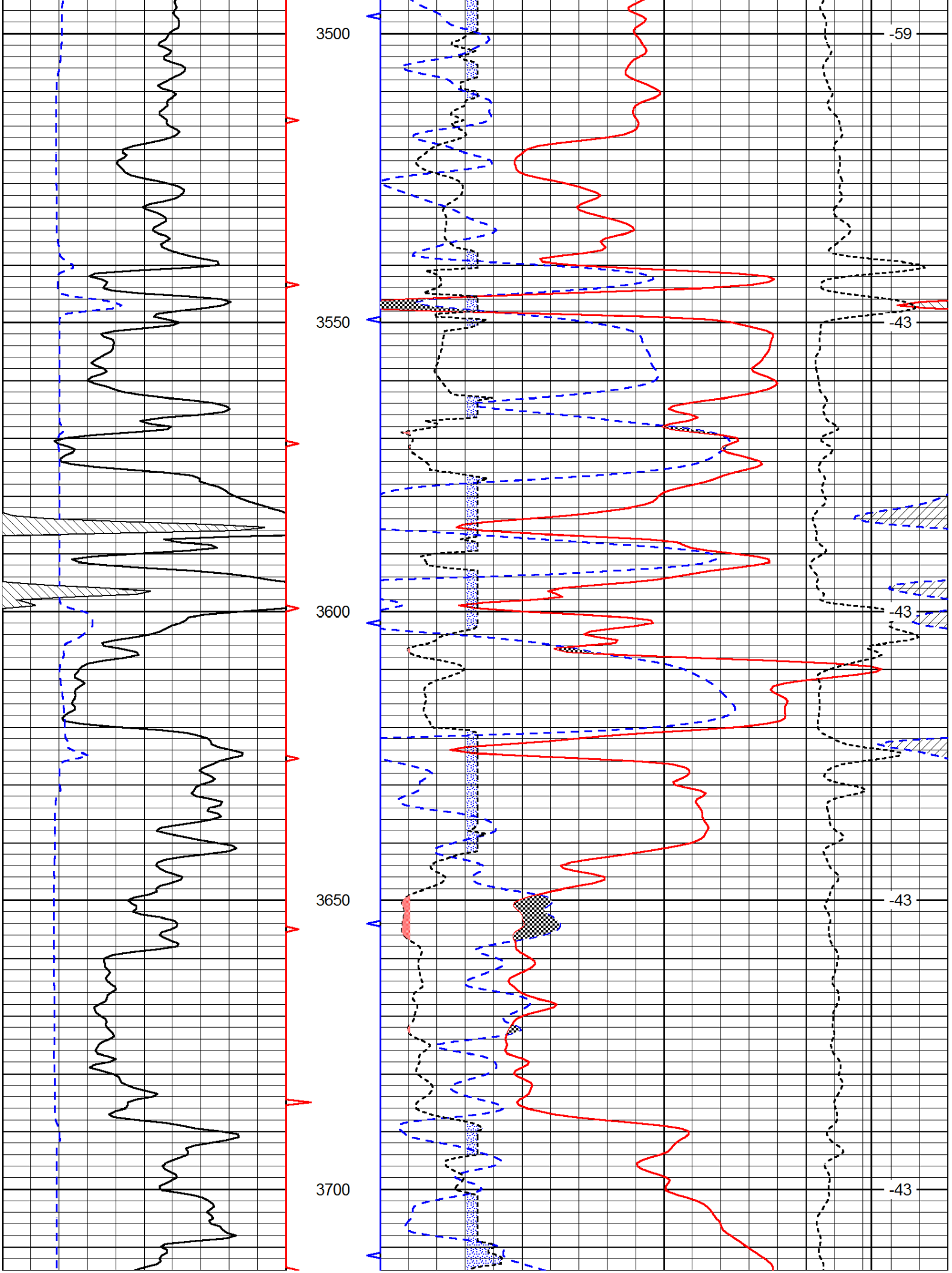
-61
-61
-60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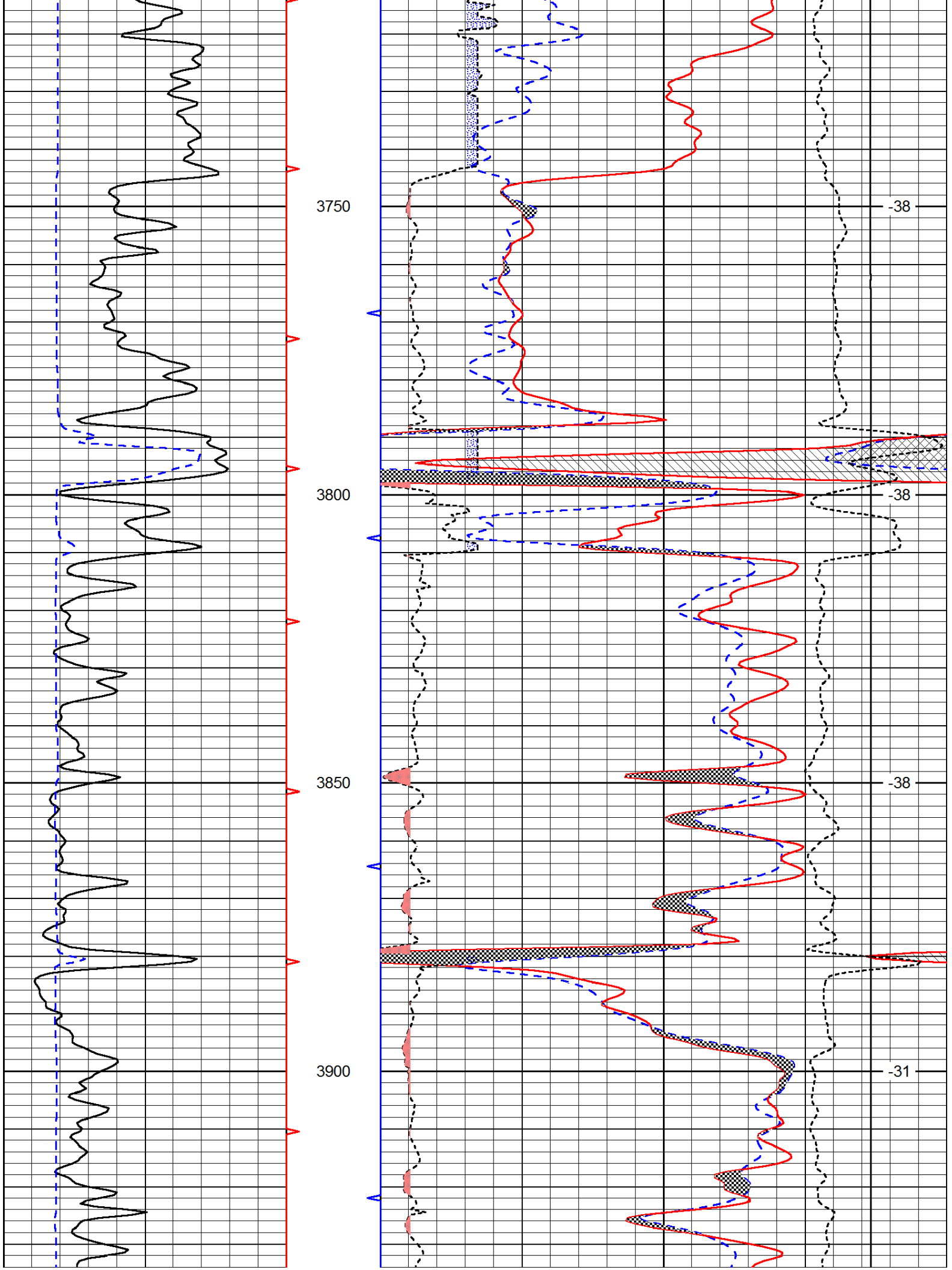
-43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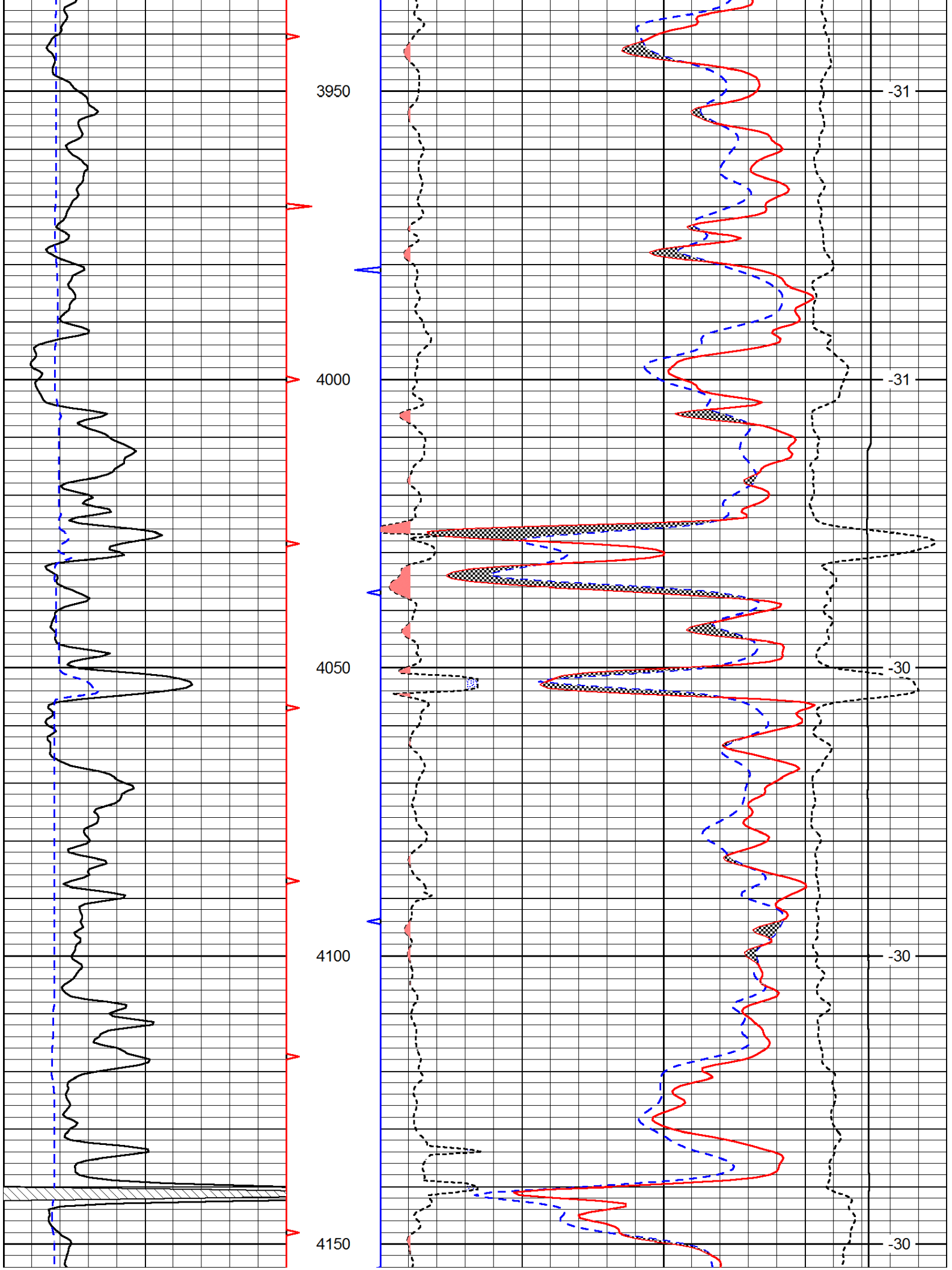
3800
3850
3900
-38
-38
-38
-31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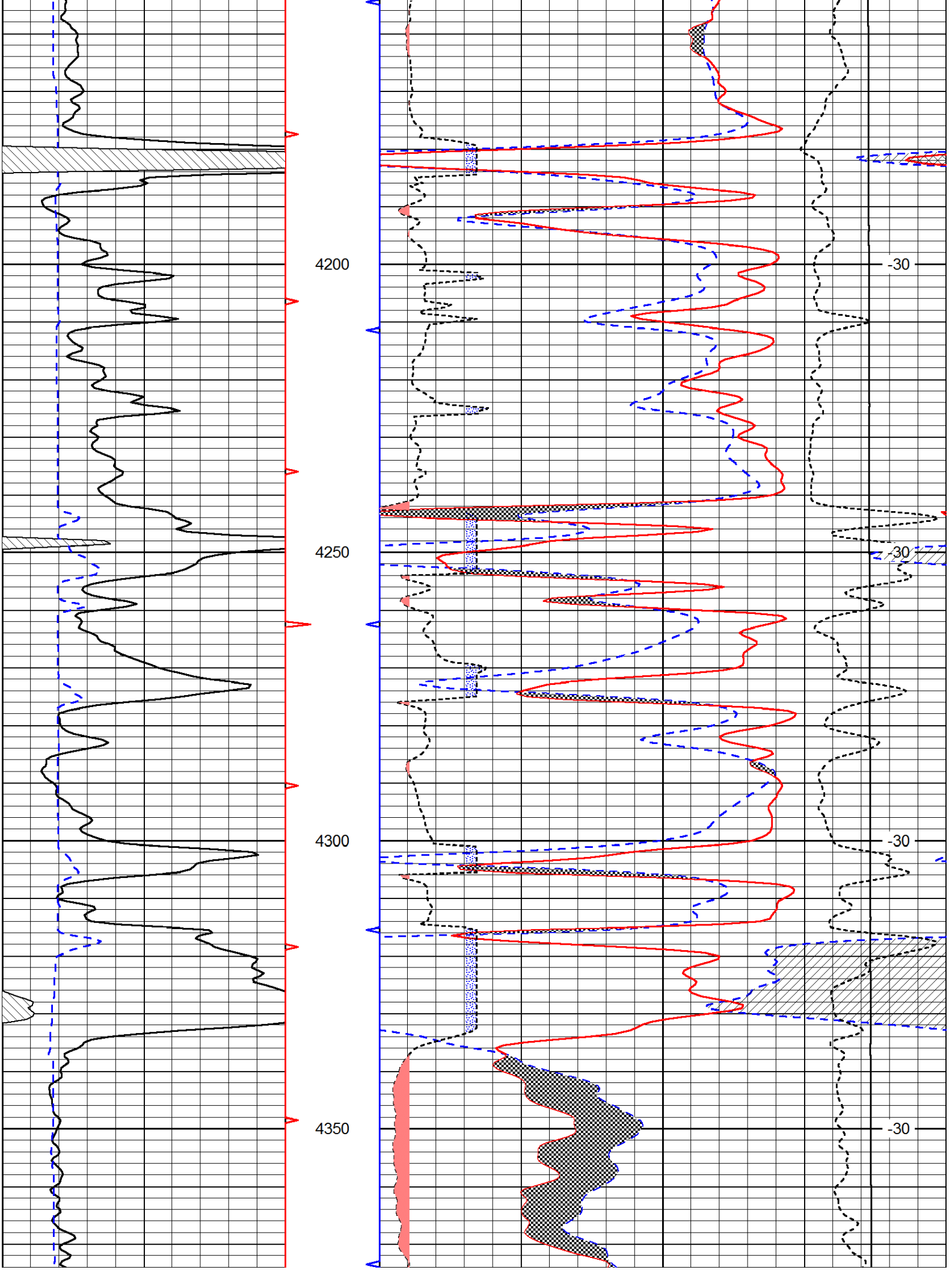
4000
4050
4100
4150
-31
-31
-30
-30
-30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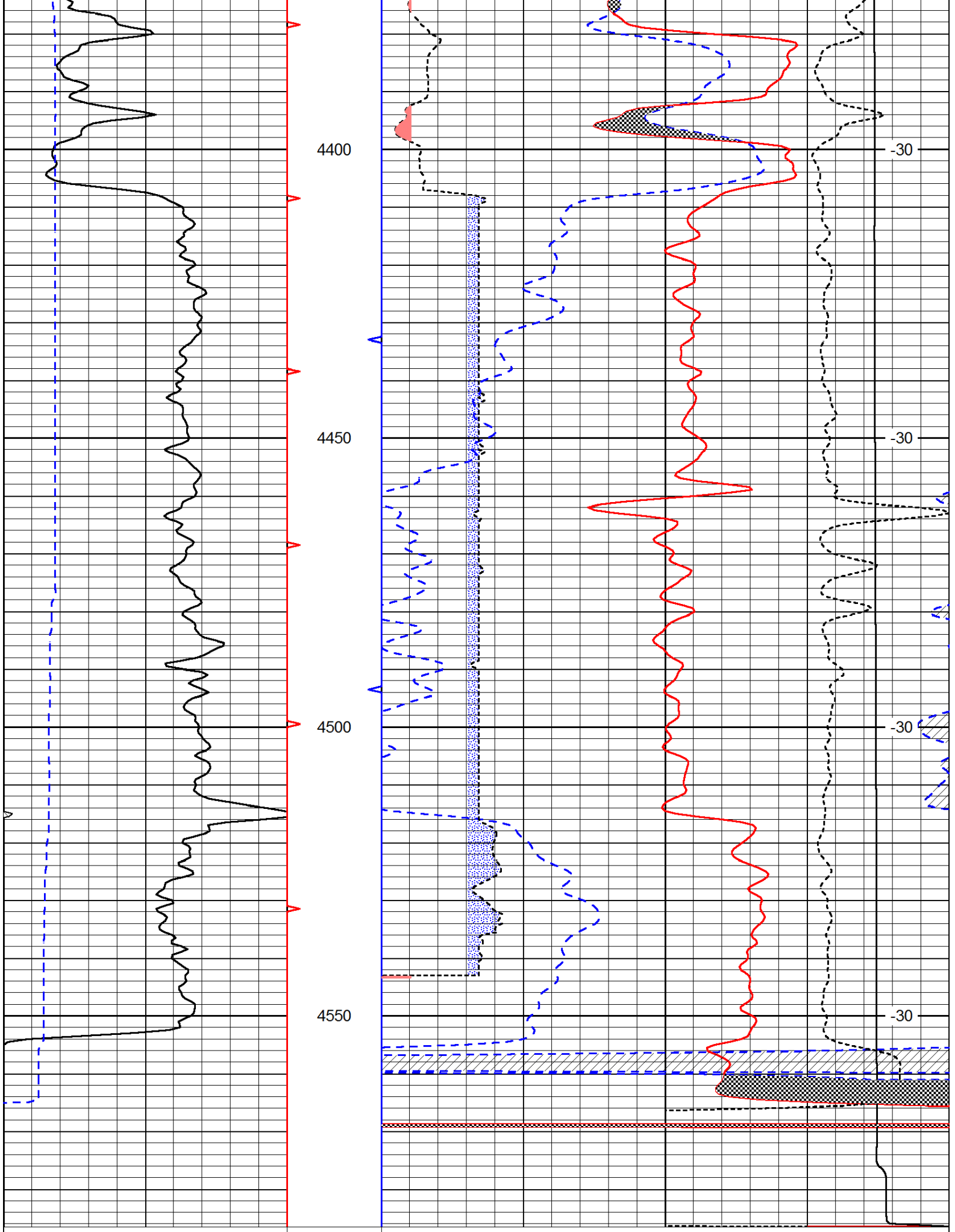
4250
4300
4350
-30
-30
-30
-30


4400
4450
4500
4550
-30
-30
-30
-30
0
Gamma Ray
150
6
Caliper (GAPI)
16
30
Compensated Neutron (Limestone)
-10
30
Compensated Density (Limestone)
-10

Caliper (CALI)			Compensated Density (Limestone)		
2.625	DGA	3.425	-0.25	Correction	0.25
15000		Line Tension			0
					LSPD

BASIC ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	1005628	06/16/2014

INVOICE NUMBER

1718 - 91516940

Pratt (620) 672-1201

BILL TO
PRATER OIL & GAS
1303 N MAIN ST
PRATT
KS US 67124
ATTN:

JOB SITE
LEASE NAME: Banks 4
LOCATION:
COUNTY: Barber
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40733521	19905		Net - 30 days	07/16/2014

For Service Dates: 06/12/2014 to 06/12/2014

0040733521

171810436A Cement-New Well Casing/Pi 06/12/2014
Cement 5 1/2" Longstring

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
AA2 Cement	250.00	EA	12.92	3,229.88 T
Celloflake	63.00	EA	2.81	177.15 T
C-41P	47.00	EA	3.04	142.87 T
Salt	1,135.00	EA	0.38	431.28 T
Cement Friction Reducer	71.00	EA	4.56	323.75 T
C-44	235.00	EA	3.91	919.76 T
FLA-322	118.00	EA	5.70	672.58 T
Gilsonite	1,250.00	EA	0.51	636.48 T
Claymax KCL Substitute	1.00	EA	26.60	26.60 T
Mud Flush	500.00	EA	1.14	569.98 T
"Top Rubber Cmt Plug, 5 1/2"""	1.00	EA	79.80	79.80
"Guide Shoe - Regular. 5 1/2"" (Blue)"	1.00	EA	189.99	189.99
Flapper Type Insert Float Valve, 5 1/2"	1.00	EA	163.39	163.39
"Turbolizer, 5 1/2"" (Blue)"	7.00	EA	83.60	585.18
"Unit Mileage Chg (PU, cars one way)"	25.00	MI	3.23	80.75
Heavy Equipment Mileage	50.00	MI	5.32	265.99
"Proppant & Bulk Del. Chgs., per ton mil	294.00	EA	1.67	491.55
Depth Charge; 4001'-5000'	1.00	EA	1,915.13	1,915.13
Blending & Mixing Service Charge	250.00	BAG	1.06	265.99
Plug Container Util. Chg.	1.00	EA	189.99	189.99
"Service Supervisor, first 8 hrs on loc.	1.00	EA	133.00	133.00

PLEASE REMIT TO:

BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	11,491.09
TAX	509.82
INVOICE TOTAL	12,000.91

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: Prater Oil & Gas Operations, Inc	Lease No.		Date: 6-5-14
Lease: Banks	Well #: 4		Service Receipt:
Casing: 8 5/8 · 24#	Depth: 268.65	County: Barber	State: KS
Job Type: 2-42	Formation:	Legal Description: 36-30-12	

Pipe Data		Perforating Data			Cement Data
Casing size: 8 5/8 24#	Tubing Size	Shots/Ft			Lead 300 sx @ 14.8 ppg 2% Gel, 3% CC, 4# Cellflake 60/40 Poz
Depth: 268.65'	Depth	From	To		
Volume: 15.8 bbl	Volume	From	To		
Max Press	Max Press	From	To		Tail in
Well Connection	Annulus Vol.	From	To		
Plug Depth: 248.65'	Packer Depth	From	To		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2200					On Location Rig up
2230					Safety Meeting
2343	1000				Pressure Test
2348	200		64	4	Pump 300 Sx @ 14.8 ppg 60/40 Poz
0003					Drop Plug
0005	100			3	Start Displacement
0015	80		15.7	3	Shut Down - Close Manifold
0016	0				Release Pressure - Wash up
0025					Rig Down

Service Units	78940	32150 17842	30963 19566				
Driver Names	Ruben	Carlos	David				

Larry
Customer Representative

Jerry Bennett
Station Manager

Ruben Martinez
Cementer

BASIC ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	1[illegible]5628	06/06/2014

INVOICE NUMBER

1717 - 91509702

Liberal (620) 624-2277

BILL TO
PRATER OIL & GAS
1303 N MAIN ST
PRATT
KS US 67124
ATTN:

JOB SITE
LEASE NAME Banks #4
LOCATION
COUNTY Barber
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40730142	19842		Net - 30 days	07/06/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 06/05/2014 to 06/05/2014				
0040730142				
171705795A Cement-New Well Casing/Pl 06/05/2014 8 5/8" Surface				
60/40 POZ	300.00	EA	9.12	2,736.00 T
Celloflake	75.00	EA	2.81	210.90 T
Calcium Chloride	774.00	EA	0.80	617.65 T
"Wooden Cmt Plug, 8 5/8"""	1.00	EA	121.60	121.60
"Unit Mileage Chg (PU, cars one way)"	25.00	MI	3.23	80.75
Heavy Equipment Mileage	50.00	MI	5.32	266.00
"Proppant & Bulk Del. Chgs., per ton mil	322.50	EA	1.67	539.22
Depth Charge; 0-500'	1.00	EA	760.00	760.00
Blending & Mixing Service Charge	300.00	BAG	1.06	319.20
Plug Container Util. Chg.	1.00	EA	190.00	190.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	133.00	133.00

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	5,974.32
TAX	254.87
INVOICE TOTAL	6,229.19

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 05795 A

DATE OF JOB 6-5-14 DISTRICT 1717 | DATE | TICKET NO.

NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:

CUSTOMER Prater Oil & Gas Operations, Inc.

LEASE Banks WELL NO. 4

ADDRESS

COUNTY Barber STATE Ks

CITY STATE

SERVICE CREW Ruben. Carlos. David

AUTHORIZED BY Tyce Davis

JOB TYPE: 7.42 8 5/8 Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
				78940	3.5
				38250 19842	3.5
				30463 19566	3.5

		TIME
TRUCK CALLED	6-4-14 DATE	AM PM 0100
ARRIVED AT JOB		AM PM 0200
START OPERATION		AM PM 2343
FINISH OPERATION		AM PM 0015
RELEASED		AM PM 0030
MILES FROM STATION TO WELL		25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CL 103	60/40 Poz	SK	300		3600 00
CC 102	Celloflake	Lb	75		277 50
CC 109	Calcium Chloride	Lb	774		812 70
CF 153	Cement Plug 8 5/8 Wooden	Ea	1		160 00
E 100	Pickup Charge	Mi	25		106 25
E 101	Heavy Equipment Mileage	Mi	50		350 00
E 113	Proppant & Bulk Delivery	TM	323		709 50
CE 200	Depth Charge 0' - 500'	4hrs	1		1000 00
CE 240	Blending & Mixing Service Charge	SK	300		420 00
CE 504	Plug Container Utilization Charge	Unit	1		250 00
5003	Service Supervisor	Ea	1		175 00
				SUB TOTAL	5974 32

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Ruben Martinez

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED*

Company Name:	Prater Oil & Gas Operations
Fracture Start Date/Time:	7/7/14 9:52
Fracture End Date/Time:	7/7/14 11:53
State:	Kansas
County:	Barber
Legal Description:	36-30S-12W
API Number:	15-007-24175-0000 *(e.g. XX-XXX-XXXXX-0000)*
Well Name:	Banks #4
Longitude:	-98.5787945
Latitude:	37.3873253
Total Clean Fluid Volume* (gal):	377,916

Additive	*Specific Gravity*	*Additive Quantity*	*Mass (lbs)*	
Water	1.00	377,916	*3,153,709*	*gal*
Sand (Proppant)	2.65	177,200	*177,200*	*lb*
Plexcide B7	1.33	20	*222*	*gal*
Plexcide B7	1.33	20	*222*	*gal*
Plexgel Breaker XPA	1.03	72	*619*	*gal*
Plexset 730	0.90	100	*751*	*gal*
Plexset 730	0.90	100	*751*	*gal*
Plexsurf 580 ME	0.95	73	*579*	*gal*
Plexsurf 580 ME	0.95	73	*579*	*gal*
Plexslick 957	1.11	259	*2,399*	*gal*
Claymax	1.09	185	*1,683*	*gal*
				gal
				gal
				gal
				gal
				gal
				gal
				gal
				gal
			Total Slurry Mass (Lbs)	
			3,338,713	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	*3,153,709*	*94.45882%*	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	*177,200*	*5.30743%*	
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	5.00%	*11*	*0.00033%*	
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts	NA	0.00%	*0*	*0.00000%*	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	*43*	*0.00130%*	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	*376*	*0.01125%*	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	*451*	*0.01350%*	
Plexsurf 580 ME	Chemplex	Product Stabalizer	Methyl Alcohol	67-56-1	10.00%	*58*	*0.00173%*	
Plexsurf 580 ME	Chemplex	Product Stabalizer	2-Butoxyethanol	111-76-2	50.00%	*289*	*0.00867%*	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	*600*	*0.01796%*	
Claymax	Chemplex	Clay Stabilizer	No hazardous ingredient	NA	0.00%	*0*	*0.00000%*	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component