Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1261248

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 # 34811
Name: Kansas Petroleum Resources, LLC
Address 1: 200 E. 1ST STREET, STE 307
Address 2:
City: WICHITA State: KS Zip: 67202 + __ __ __ __
Contact Person: Rod Andersen
Phone: (316) 204-3359
CONTRACTOR: License # 33793
Name: H2 Drilling LLC
Wellsite Geologist: Rod Andersen
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 #:

4/1/2015	4/6/2015	6/8/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23912-00-00
Spot Description:
__ - __ - NW - SW Sec. 17 Twp. 24 S. R. 14 ☐ East ☑ West
1980 Feet from ☐ North / ☑ South Line of Section
660 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: Stafford
Lease Name: Castle Peak Well #: #2
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1993 Kelly Bushing: 2005
Total Vertical Depth: 4210 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 902 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: 10000 ppm Fluid volume: 1400 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

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 08/17/2015

1261248

Operator Name: Kansas Petroleum Resources, LLC Lease Name: Castle Peak Well #: #2

Sec. 17 Twp. 24 S. R. 14 ☐ East ☑ West County: Stafford

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:

Duel Porosity
Duel Induction
Microlog

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

Name	Top	Datum
Heebner	3576	-1571
Lansing	3736	-1731
Mississippian	4112	-2137

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	902	Class A	375	6% gel
Production	7.875	5.5	15	4213	60/40 poz	200	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	-			
	-			

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
6	4114-4136	6,000 bbl + 100,000# sand frac	4114-4136

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

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 04-02-15 District Great Bend Ticket No. 65529
Company Kaps00 Petroleum Rig #7 Drilling
Lease Castle Peak Well No. 2
County Stafford State KS
Location 28/150 & West 1/2 North Field
East into

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 8 5/8 Type Weight 24.0 Collar

Casing Depths: Top Bottom 903

Drill Pipe: Size Weight Collars
Open Hole: Size 12 1/4 T.D. 902 ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl.
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: Flush
Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time Thicken hrs. Type 65/35+6%gel 3%cc+1/4#flo
Excess
Amt. 275 Sks Yield 1.97 ft³/sk Density 12.5 PPG
TAIL: Pump Time Thicken hrs. Type CLASS A 3%cc
Excess
Amt. 100 Sks Yield 1.33 ft³/sk Density 15.2 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 398 / Ben Dowell
Bulk Equip. Marlyn Spangenberg

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity 3 Plugs Top 1 Btm.
Stage Collars
Special Equip.
Disp. Fluid Type Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE CEMENTER Kenny Goldy

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
645 AM						On Location/Hold Safety meeting/Rig up
						Casing crew Ran 903 ft of 8 5/8 casing
940 AM						Hook To Head Broke Circ w/Rig mud
			5		4	Pump 5 BHead Fresh H20
1000 AM			96.48		4	Mix 275 sx 65/35+6%Gel+3%cc+1/4#flo
1030 AM			15.47		4	Mix 100 sx Class A 3%cc
1050 AM			56.88		5	Displace 56.88 BBls Fresh H20
1100 AM						Shut in
						Rig Down
						Cement Did Circ

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC. • Great Bend, KS

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 04-06-14 District Great Bend Ticket No 65531
Company Kansas Petroleum Rig #2 Drilling
Lease Castle Peak Well No. 2
County Stafford State KS
Location 281/50 west 8 miles 1/2 north East into Field 17-24-14

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 5 1/2 Type _____ Weight 15.50 Collar _____

Casing Depths: Top _____ Bottom 4213-23

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size 7 7/8 T.D. 4210 ft. P.B. to _____ ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. _____
Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
Spacer Type: Fresh H2O
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time Thicken hrs. Type ASC + 2% Gel + 6% Gye + 5# Kol + 10% salt + .3% FL-160 Excess _____
Amt. 150 Sks Yield 1.51 ft³/sk Density _____ PPG
TAIL: Pump Time Thicken hrs. Type 60/40 4% Gel + 1/4 flo Excess _____
Amt. 50 Sks Yield 1.41 ft³/sk Density 14.5 PPG
WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 398 / Ben Newell
Bulk Equip. 544/239 Dustin Chambers

Float Equip: Manufacturer _____
Shoe: Type _____ Depth _____
Float: Type _____ Depth _____
Centralizers: Quantity _____ Plugs Top _____ Btm. _____
Stage Collars _____
Special Equip. _____
Disp. Fluid Type Fresh H2O Amt. 99.27 Bbls. Weight _____ PPG
Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER Kevin Eddy

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
500 PM						On Location / Held Safety meeting / Rig up
						Rig Ran pt of casing + Float Equip
1255 AM						Brake circ w/ Rig mud
			10		5	Pump 10 BBls Fresh H2O
130 AM			10		5	Pump 10 Cw-555-50
			15		5	Pump 15 BBls Behind Fresh H2O
			12.55		4	Plug Rat and Mouse Hole 50sx 60/40 + 4% Gel + 1/4 flo
150 AM			41.94		4	Hook to Head mix 150sx ASC + 2% Gel + 6% Gye + 5# Kol + 10% salt + .3% FL-160
						Shut Down Wash up
215 AM			99.27		5	Hook to Head + Displace BBls Fresh H2O
						Land Plug @ PSI
						Release Plug Did Hold
						Rig Down

FINAL DISP. PRESS: 600 PSI PSI BUMP PLUG TO 1100 PSI PSI BLEEDBACK 1/2 BBl BBLS. THANK YOU

MILLER PRINTERS, INC - Great Bend, KS

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name:	**Castle Peak #2**		
Well Id:			
Location:	**NW SW 17-24-14W**		
License Number:		**Region:**	
Spud Date:	**3-31-15**	**Drilling Completed:**	**4-6-15**
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1993**	**K.B. Elevation (ft):**	**2005**
Logged Interval (ft):	**2000 To: 4210**	**Total Depth (ft):**	**4210**
Formation:	**Mississippian**		
Type of Drilling Fluid:			

OPERATOR

Company: Kansas Petroleum Resources, LLC
Address: 200 E. 1st Street Suite 307
Wichita, Ks 67202

GEOLOGIST

Name: Rod Andersen
Company:
Address:

Cores

DSTs

Comments

ROCK TYPES

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

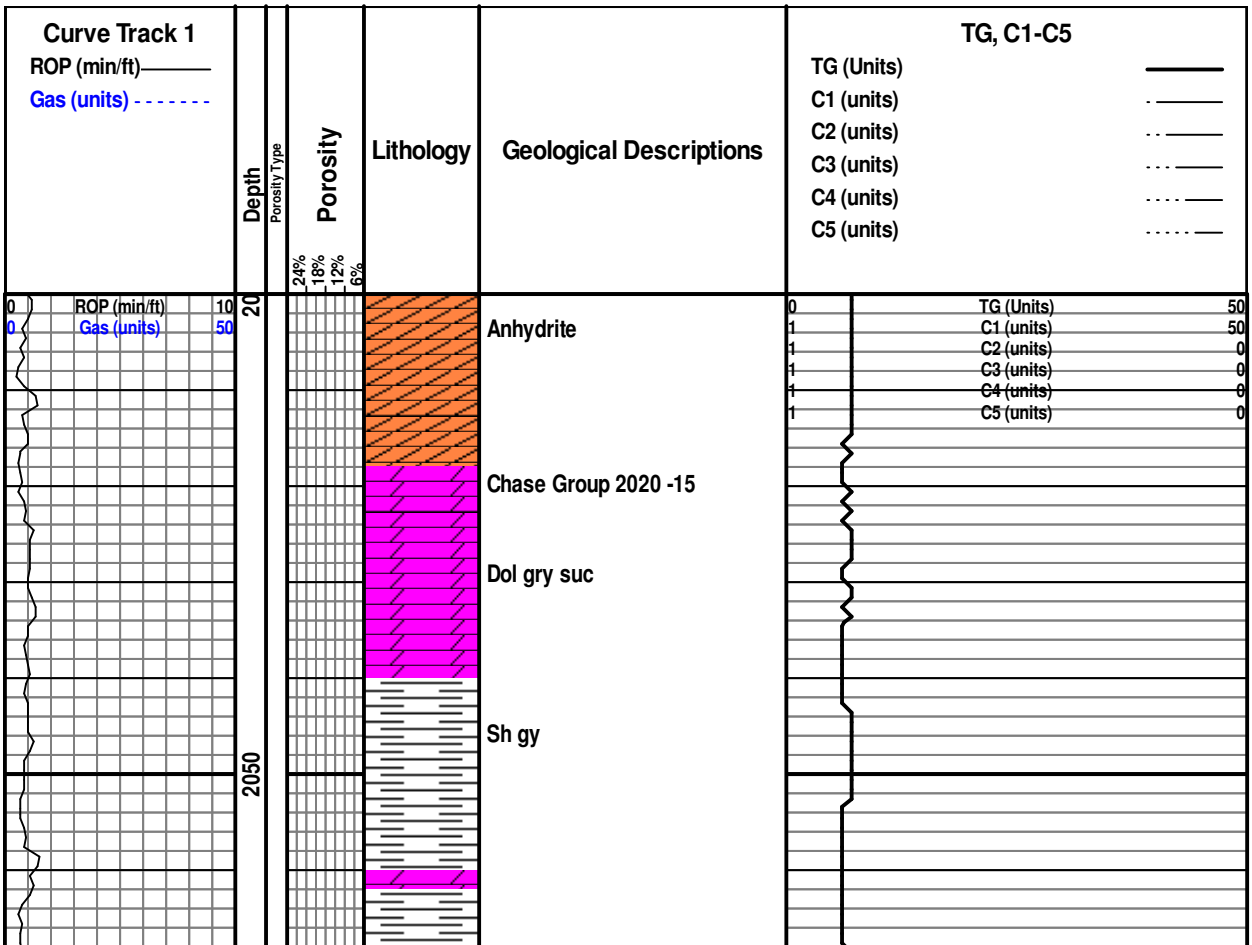
SORTING
- Well
- Moderate
- Poor

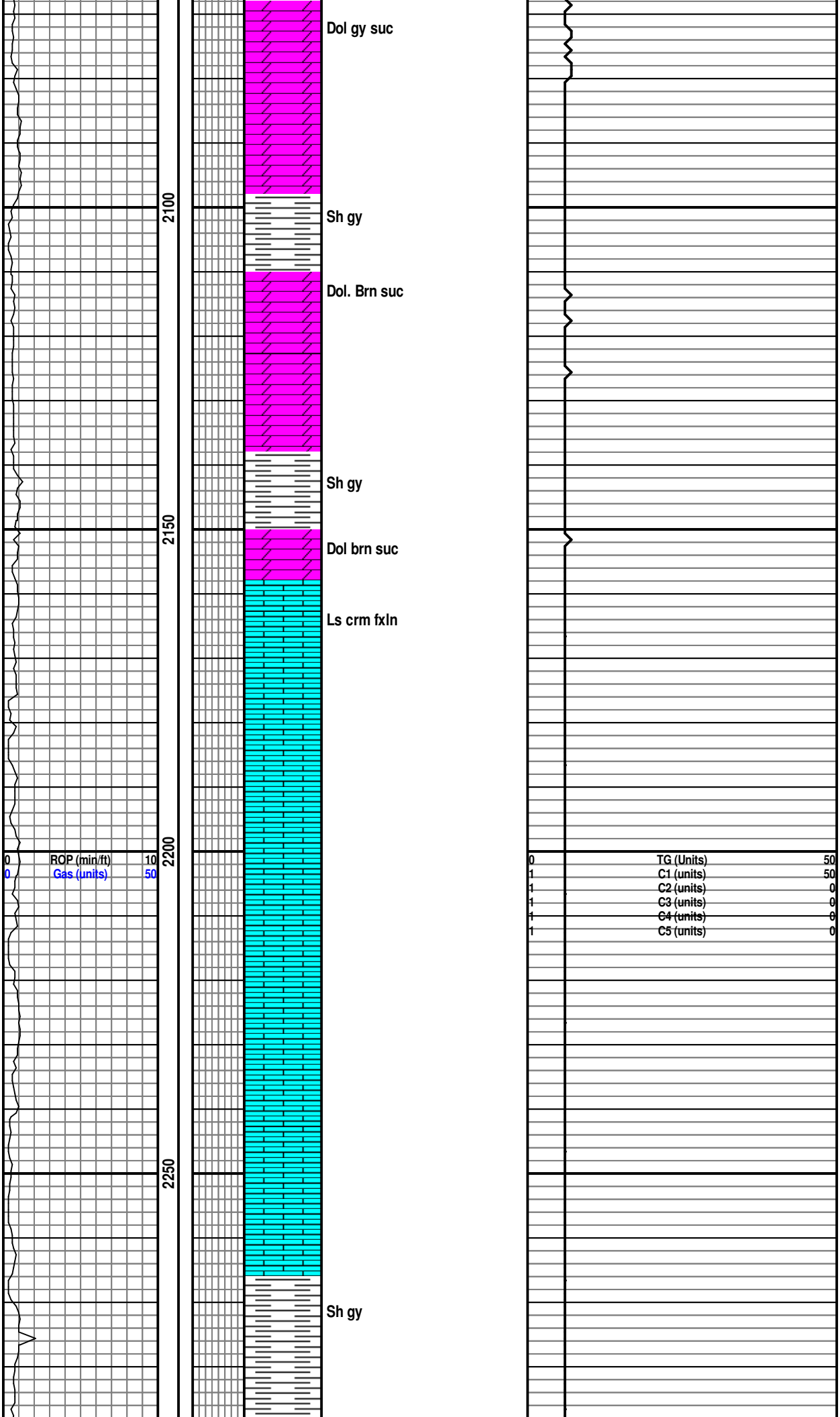
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall

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Sh gy
Dol. Brn suc
Sh gy
Dol brn suc
Ls crm fxln
Sh gy
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2150
2200
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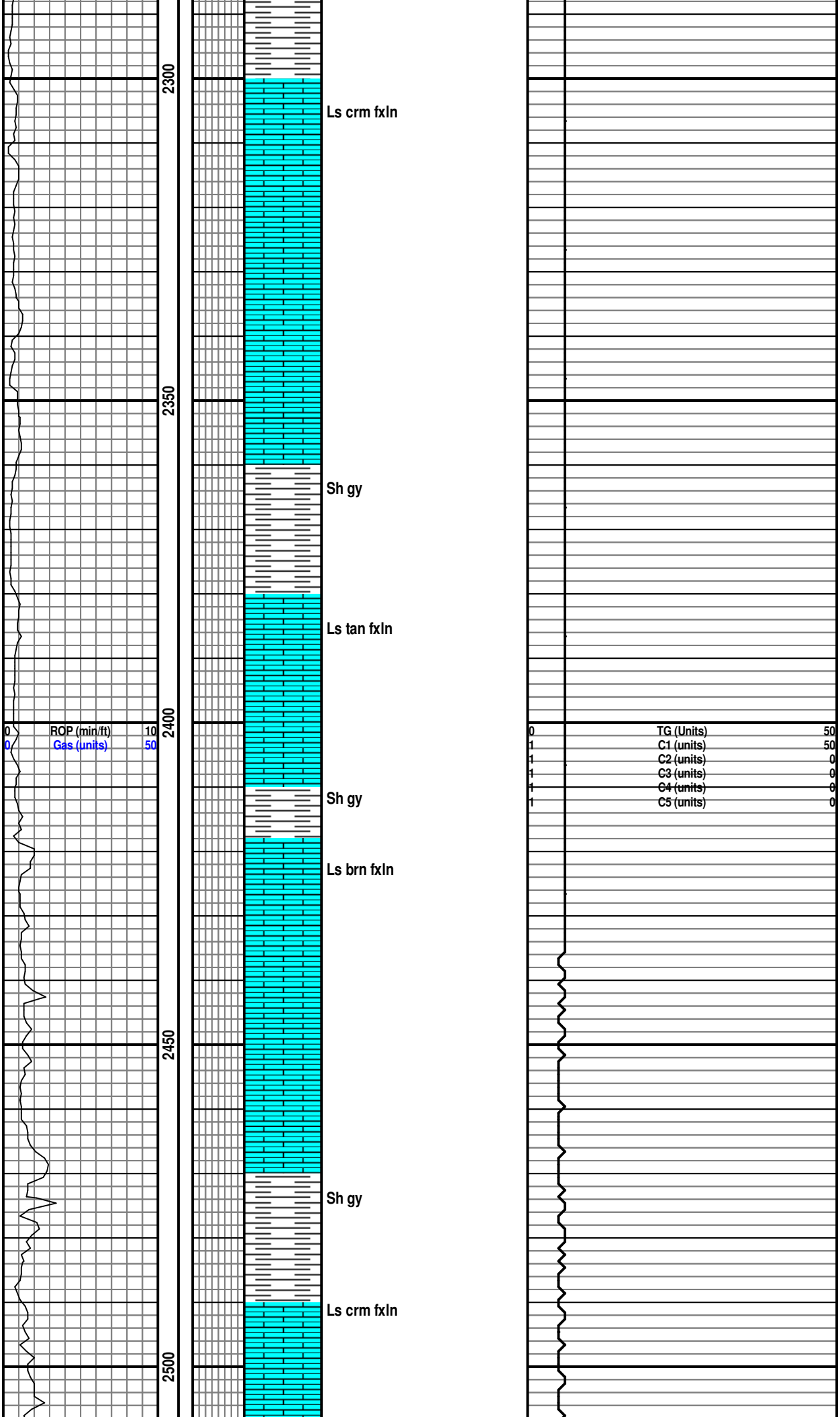
1 C2 (units) 0
1 C3 (units) 0
1 C4 (units) 0
1 C5 (units) 0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TG (Units)
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C1 (units)
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C4 (units)
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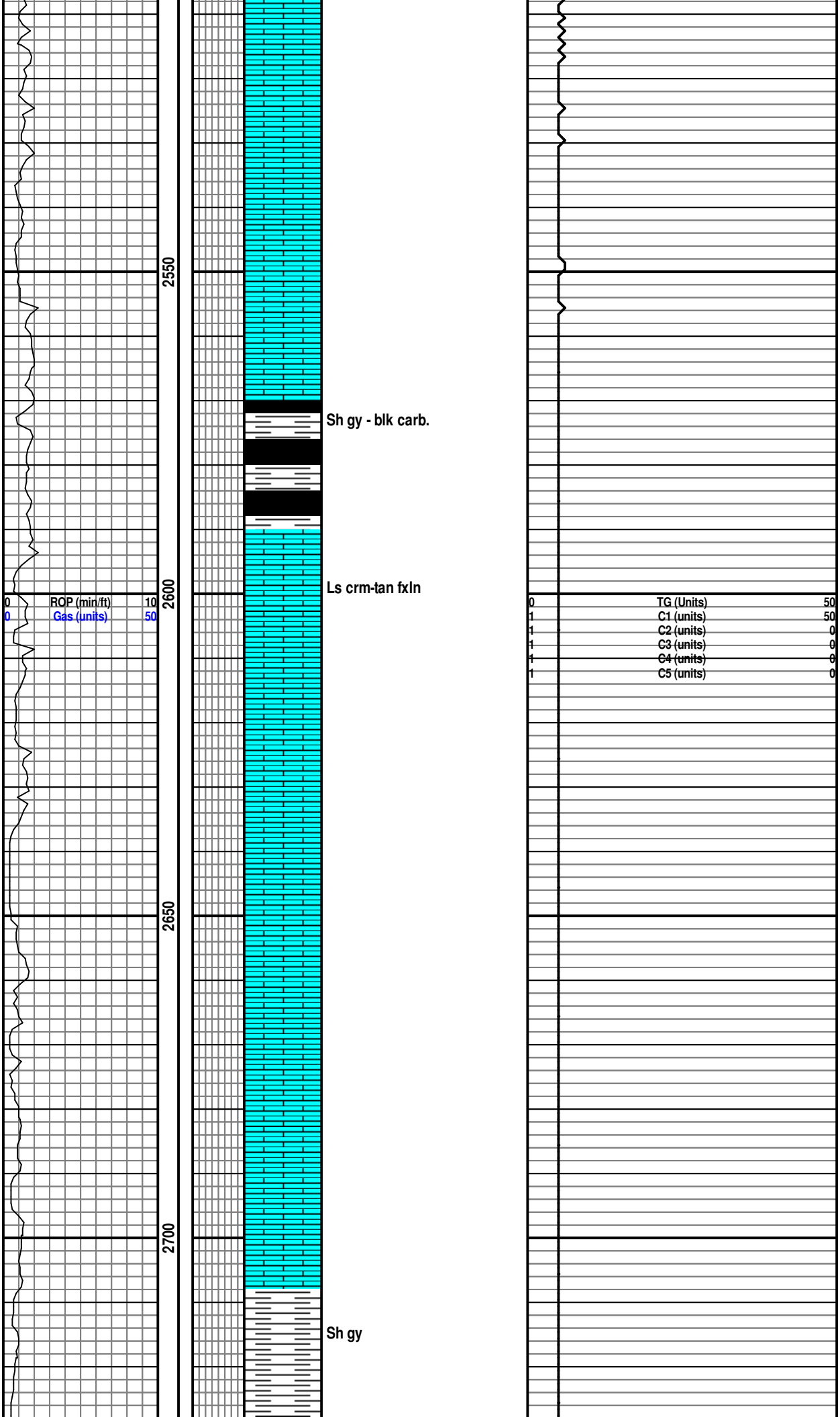
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Sh gy
0
TG (Units)
50
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C1 (units)
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C5 (units)
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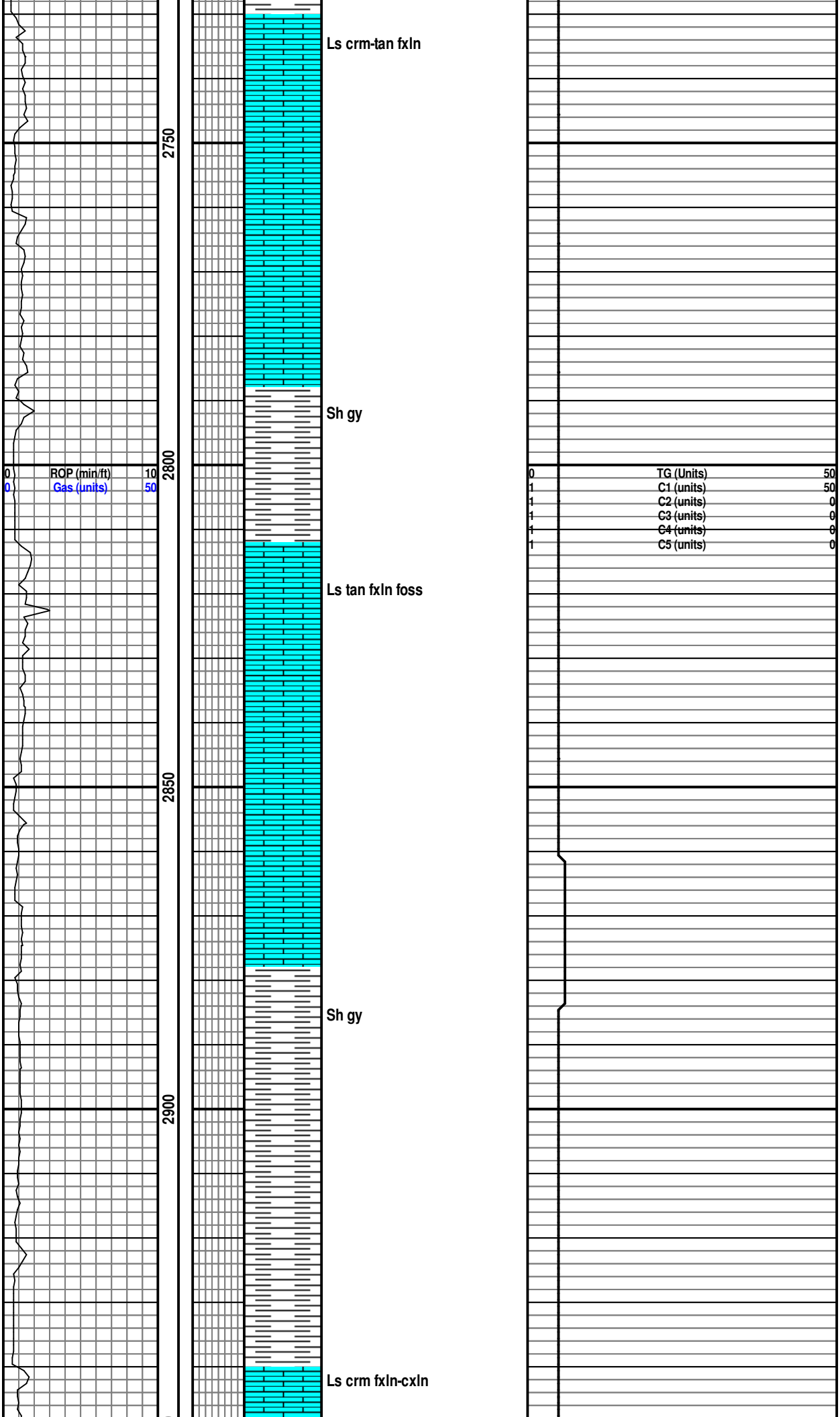
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TG (Units)
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C1 (units)
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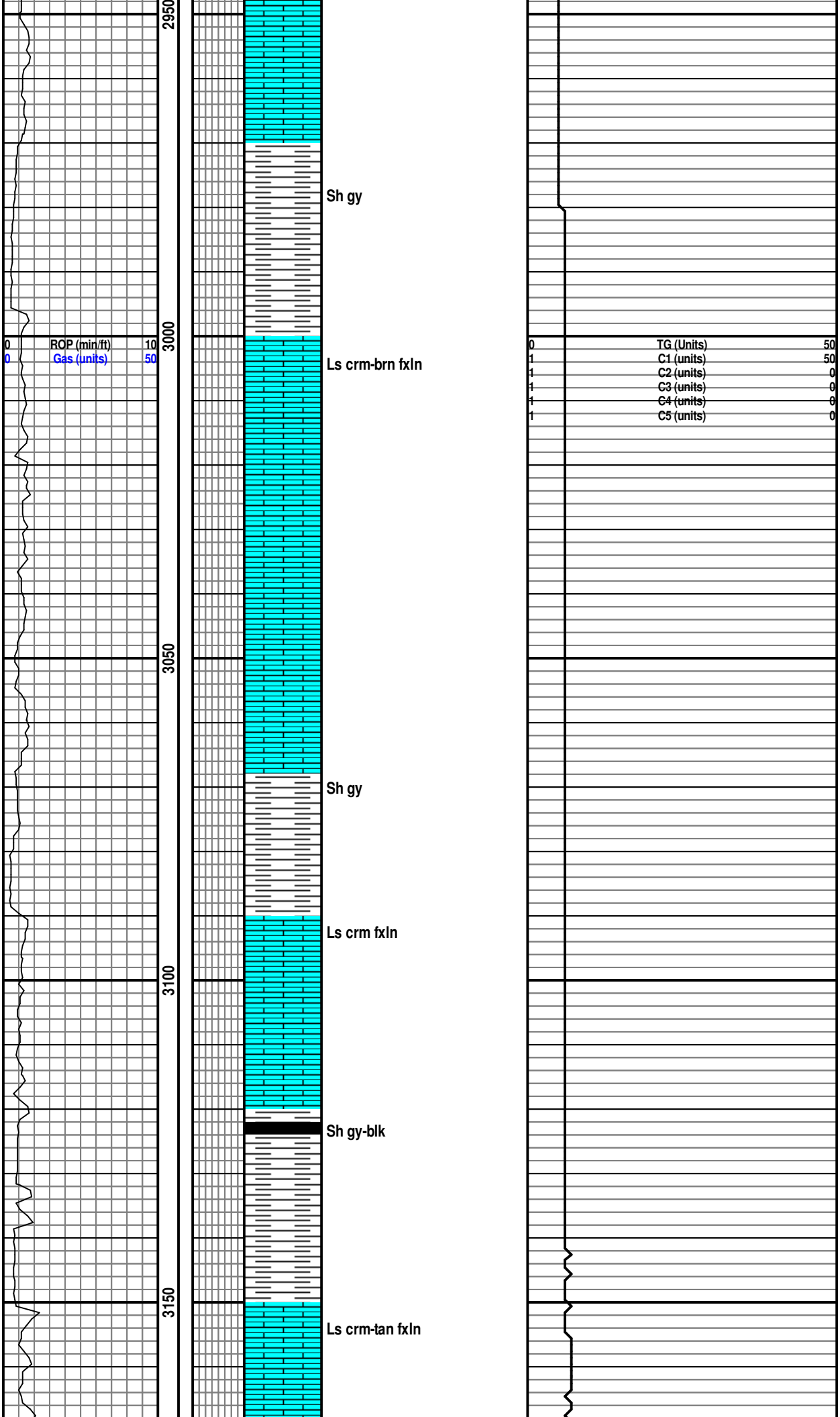
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Gas (units)
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Sh gy
Ls crm fxln
Sh gy-blk
Ls crm-tan fxln
0
TG (Units)
50
1
C1 (units)
50
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C3 (units)
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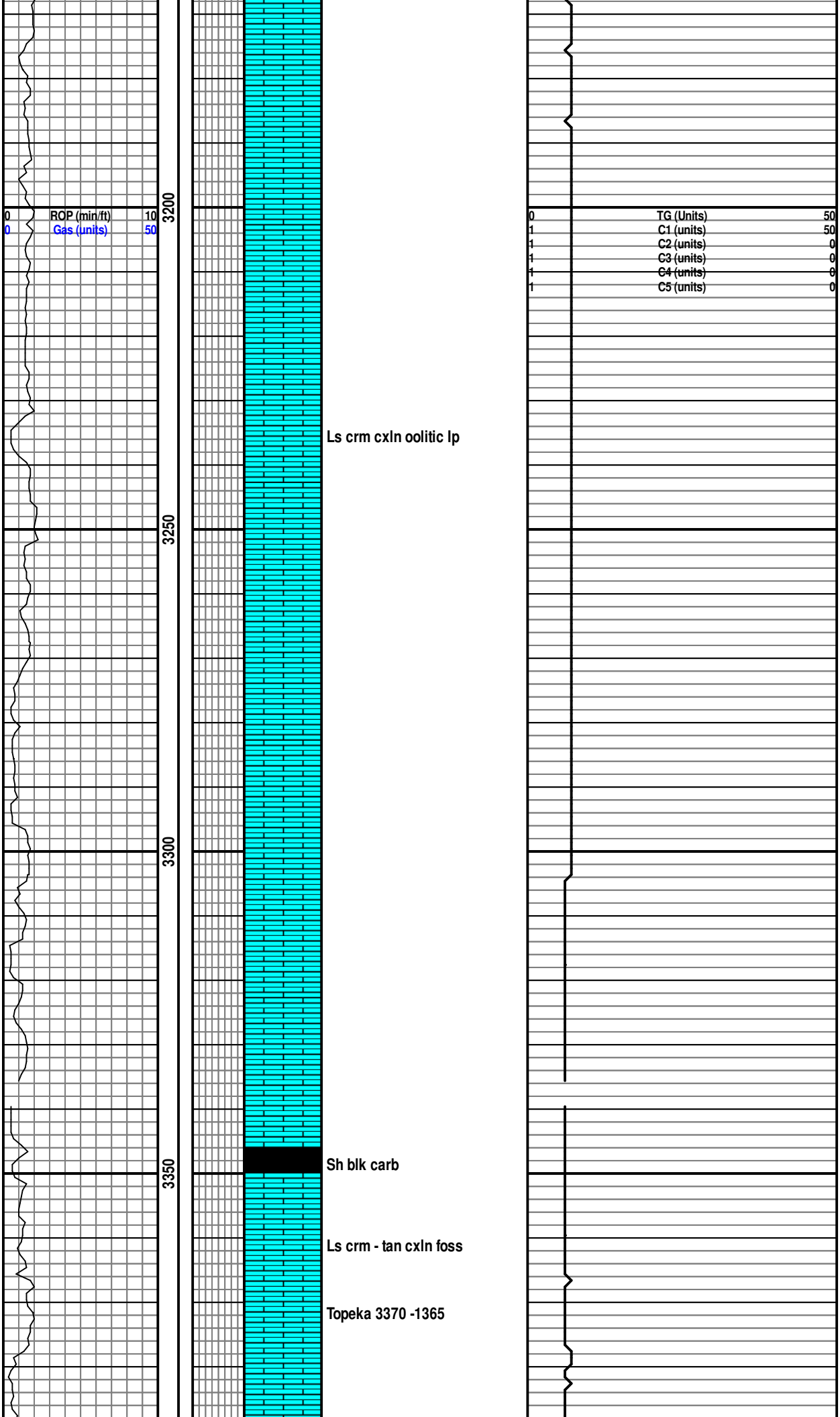
1
C4 (units)
0
1
C5 (units)
0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3350
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1 C2 (units) 0
1 C3 (units) 0
1 C4 (units) 0
1 C5 (units) 0
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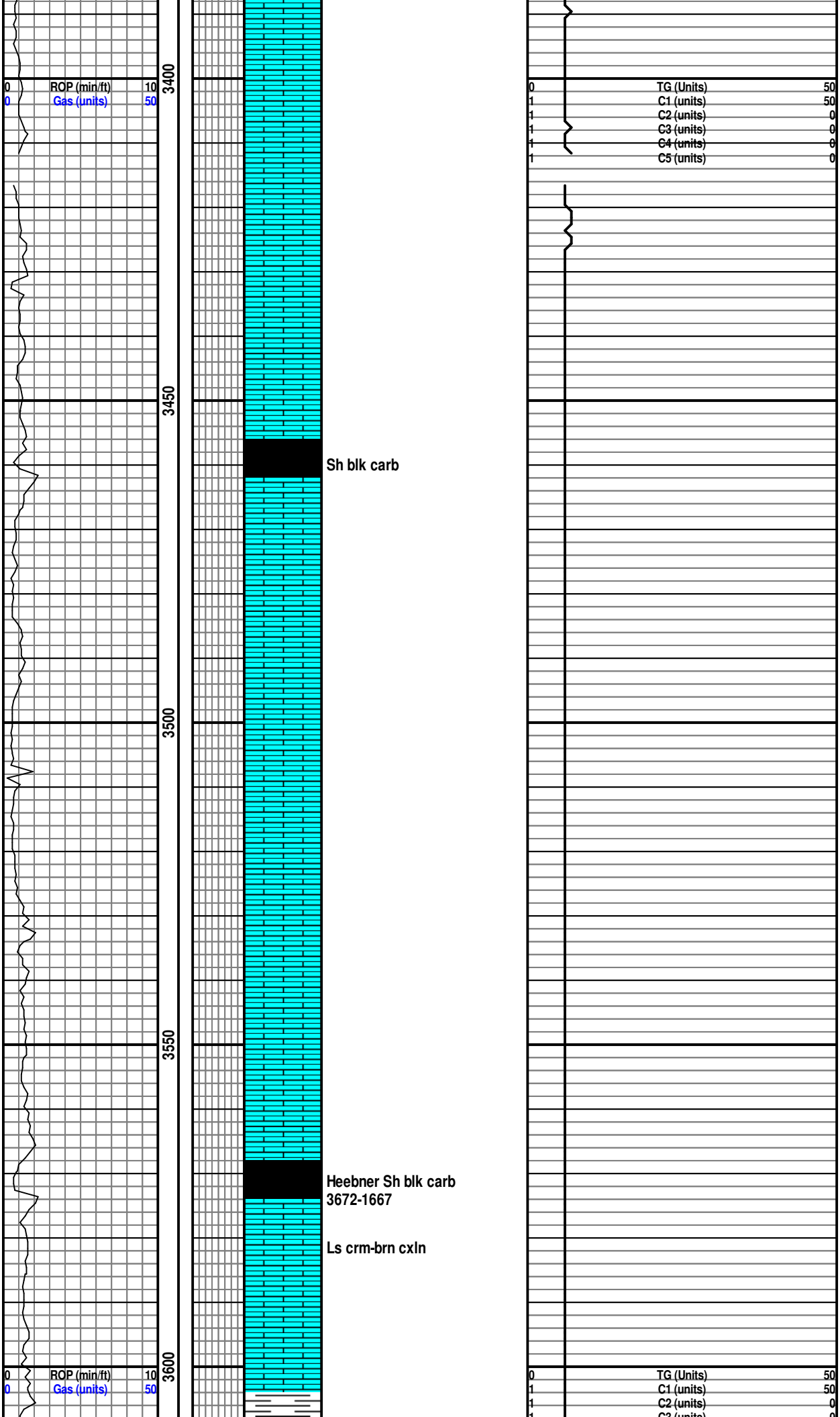
Sh blk carb
Ls crm - tan cxln foss
Topeka 3370 -1365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3600
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Heebner Sh blk carb
3672-1667
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0 TG (Units) 50
1 C1 (units) 50
1 C2 (units) 0
1 C3 (units) 0
1 C4 (units) 0
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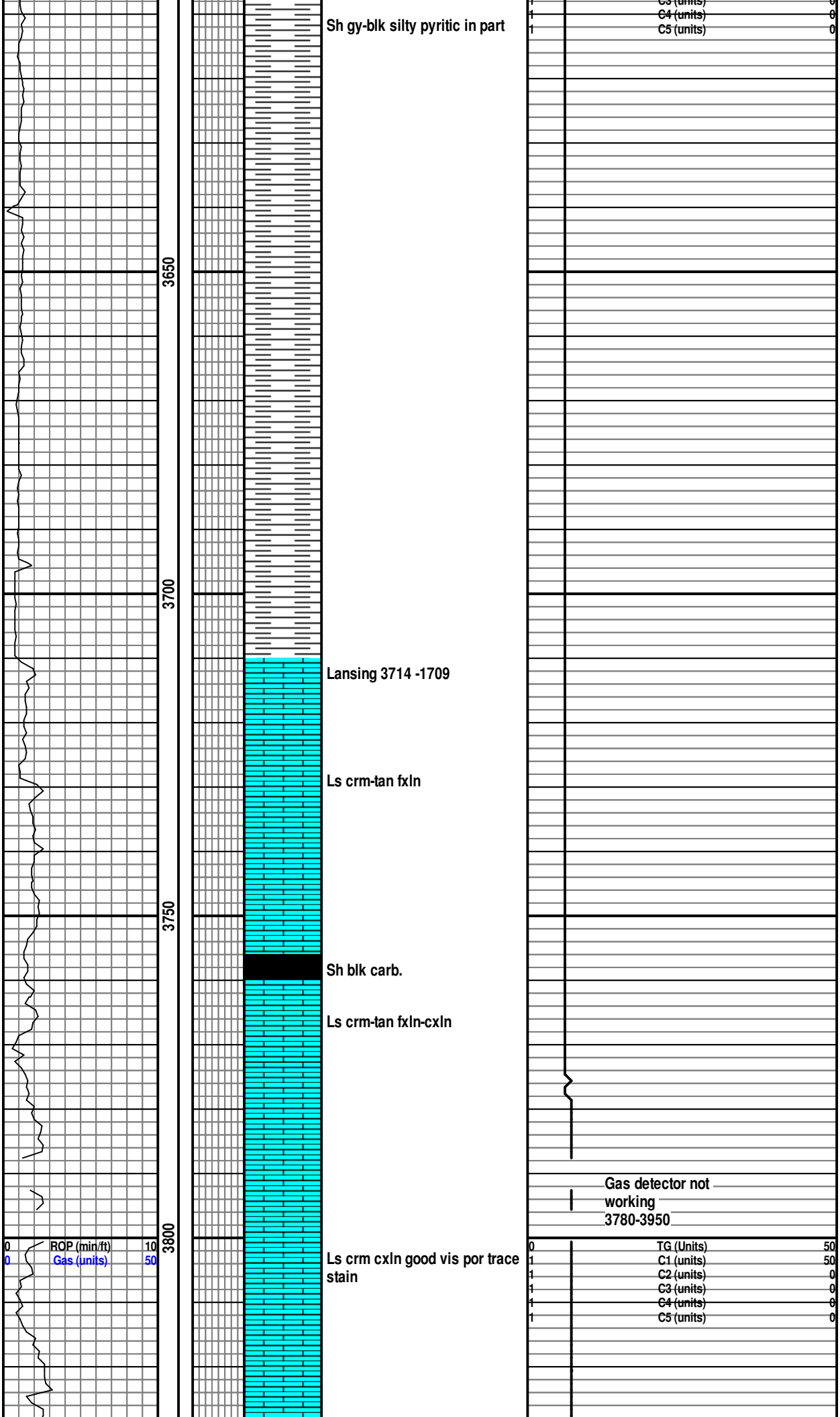
Sh gy-blk silty pyritic in part
Lansing 3714 -1709
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Sh blk carb.
Ls crm-tan fxln-cxln
Ls crm cxln good vis por trace stain
Gas detector not working 3780-3950
3650
3700
3750
3800
0 ROP (min/ft) 10
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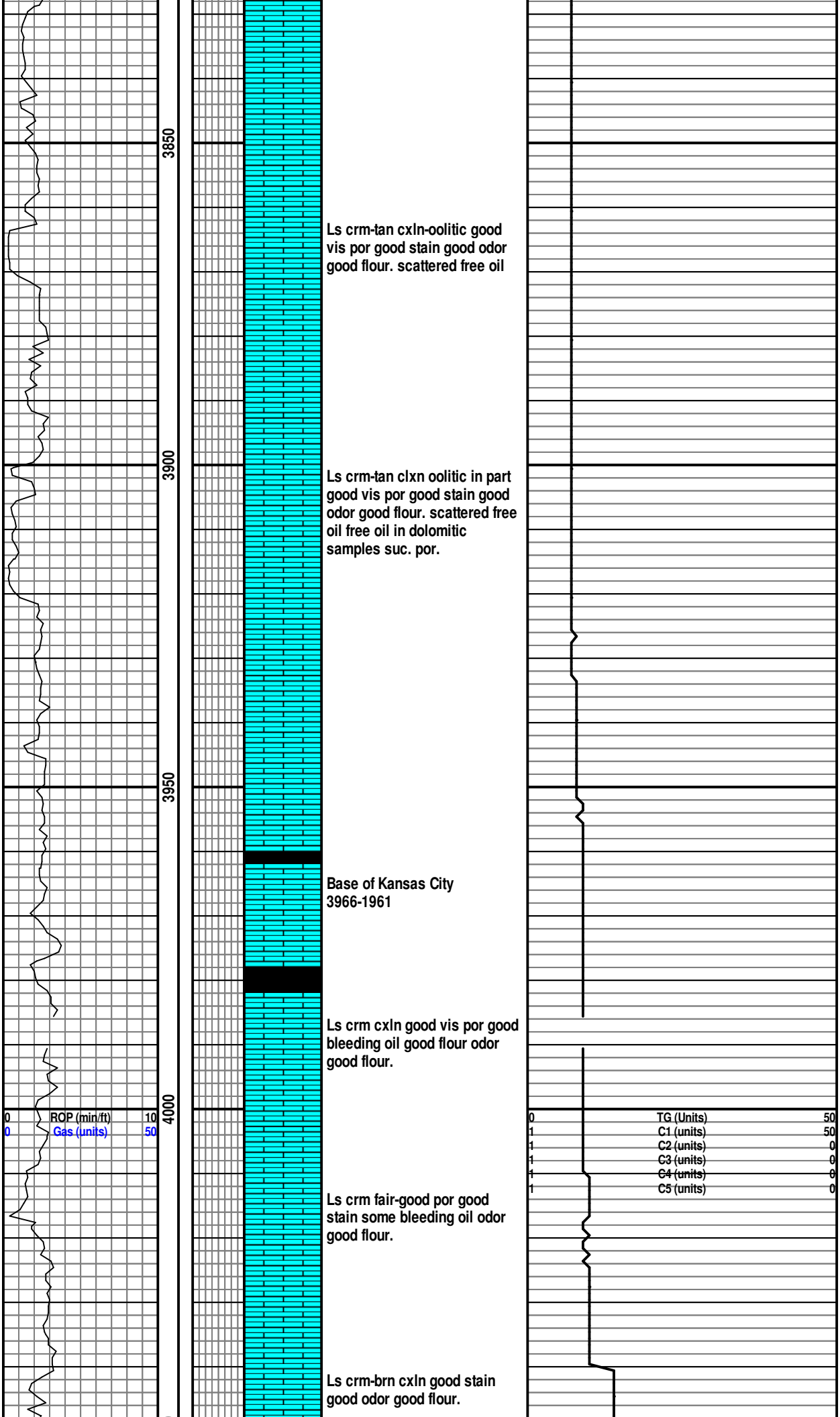
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3900
3950
4000
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0 Gas (units) 50
Ls crm-tan cxln-oolitic good vis por good stain good odor good flour. scattered free oil
Ls crm-tan clxn oolitic in part good vis por good stain good odor good flour. scattered free oil free oil in dolomitic samples suc. por.
Base of Kansas City
3966-1961
Ls crm cxln good vis por good bleeding oil good flour odor good flour.
Ls crm fair-good por good stain some bleeding oil odor good flour.
Ls crm-brn cxln good stain good odor good flour.
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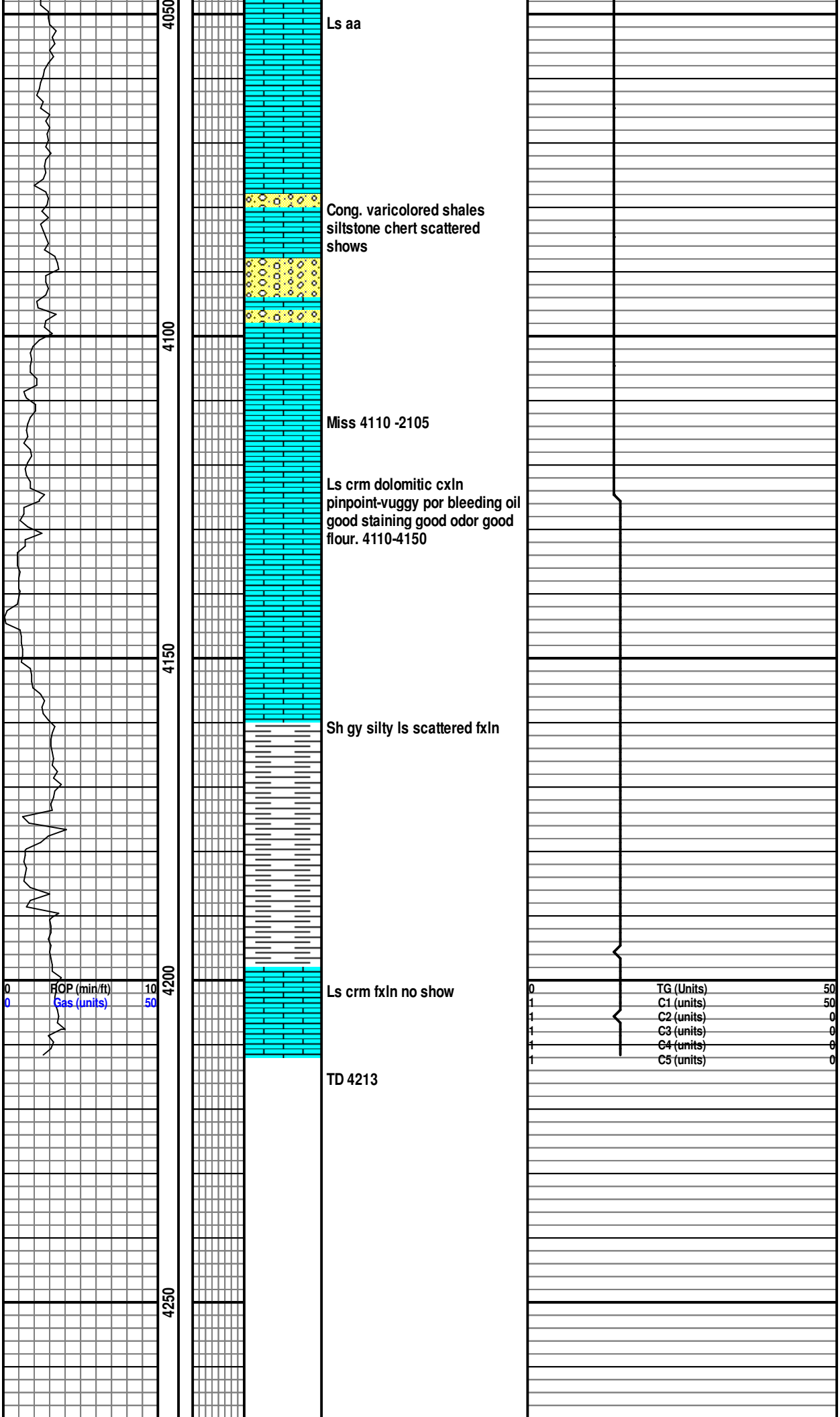
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4100
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4250
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Ls aa
Cong. varicolored shales siltstone chert scattered shows
Miss 4110 -2105
Ls crm dolomitic cxln pinpoint-vuggy por bleeding oil good staining good odor good flour. 4110-4150
Sh gy silty ls scattered fxln
Ls crm fxln no show
TD 4213
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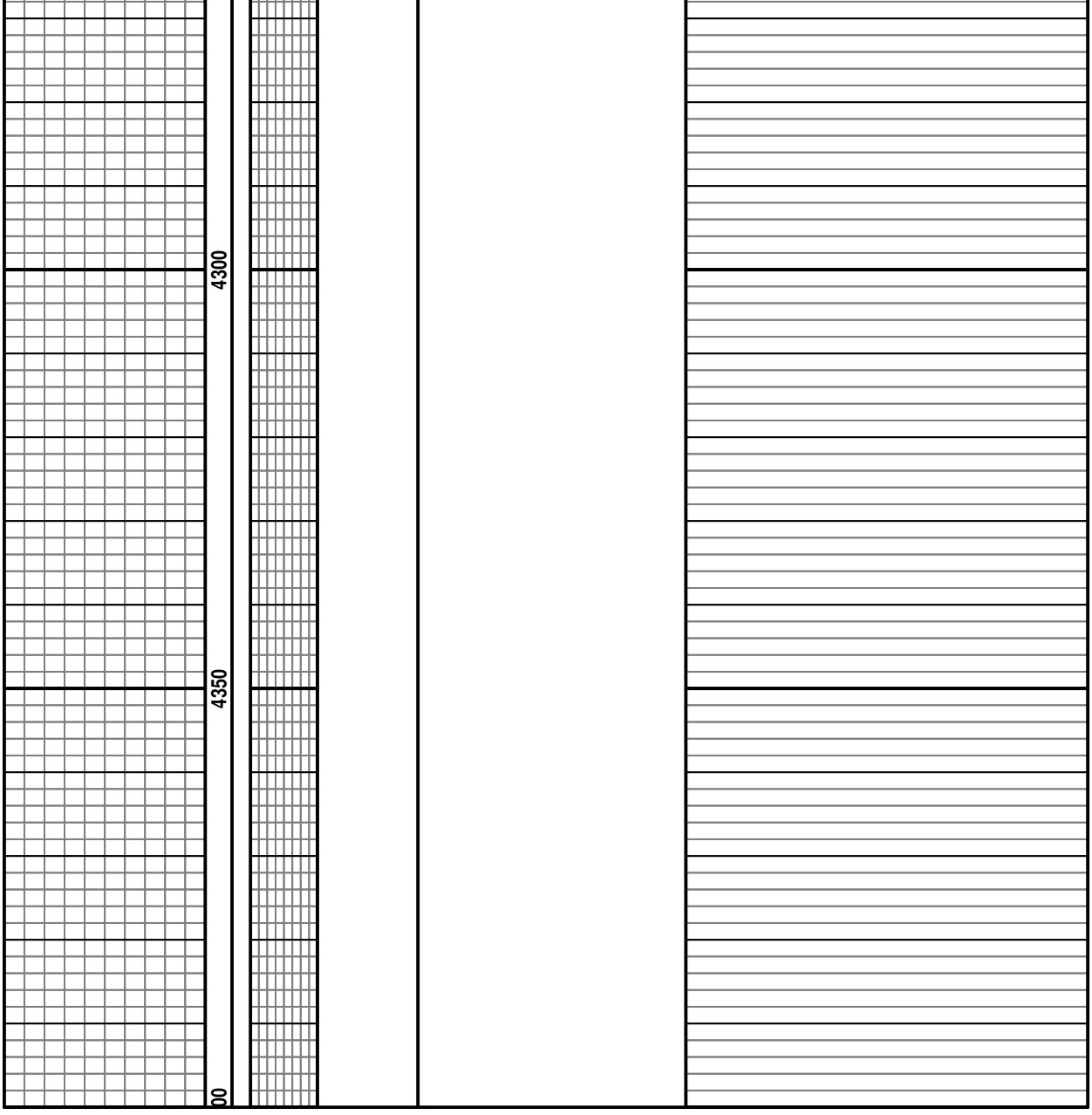

4300
4350
00

PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-185-23912-00-00

Company Kansas Petroleum Resources, LLC

Well Castle Peak #2

Field Dillwin West

County Stafford State Kansas

Location 1980' FSL & 660' FWL

Sec: 17 Twp: 24S Rge: 14W

Other Services: CNL/CDL, MEL

Elevation: K.B. 2005, D.F. , G.L. 1993

Permanent Datum Ground Level — Elevation 1993

Log Measured From Kelly Bushing — 12 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date	4/6/2015		
Run Number	One		
Depth Driller	4210		
Depth Logger	4209		
Bottom Logged Interval	4208		
Top Log Interval	900		
Casing Driller	8.625 @ 902		
Casing Logger	899		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6200		
Density / Viscosity	9.0 55		
pH / Fluid Loss	11.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.50 @ 65		
Rmf @ Meas. Temp	0.38 @ 65		
Rmc @ Meas. Temp	0.68 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.28 @ 118		
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	118		
Equipment Number	15		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Rod Andersen		

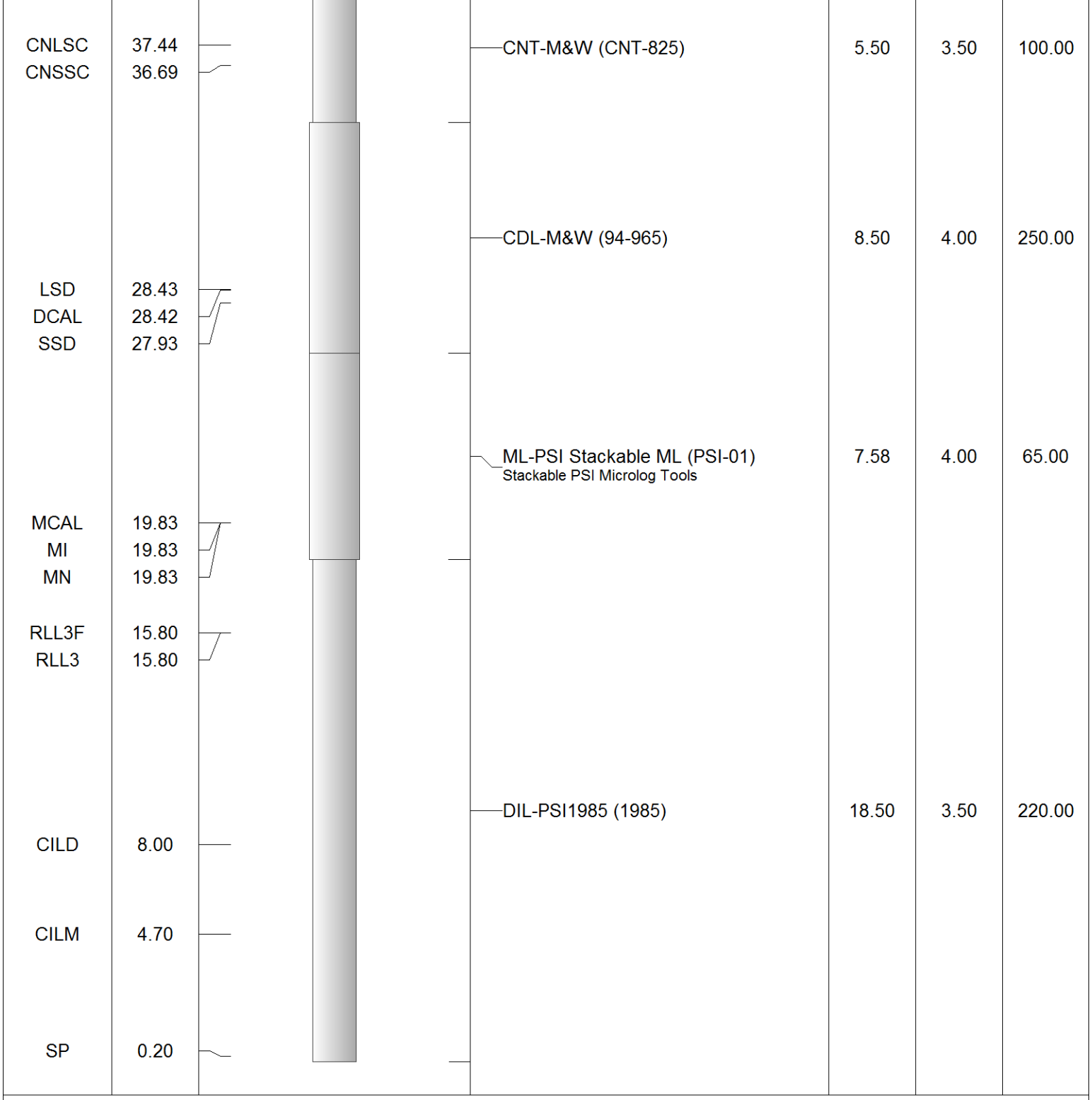
<<< Fold Here >>>

Comments

Thank you for using Pioneer Energy Services
785.625.3858

St. John (Hwy 281 & Hwy 50),
West to NW 80th, 1/4 North,
East into

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (233-M&W)	3.00	3.50	50.00



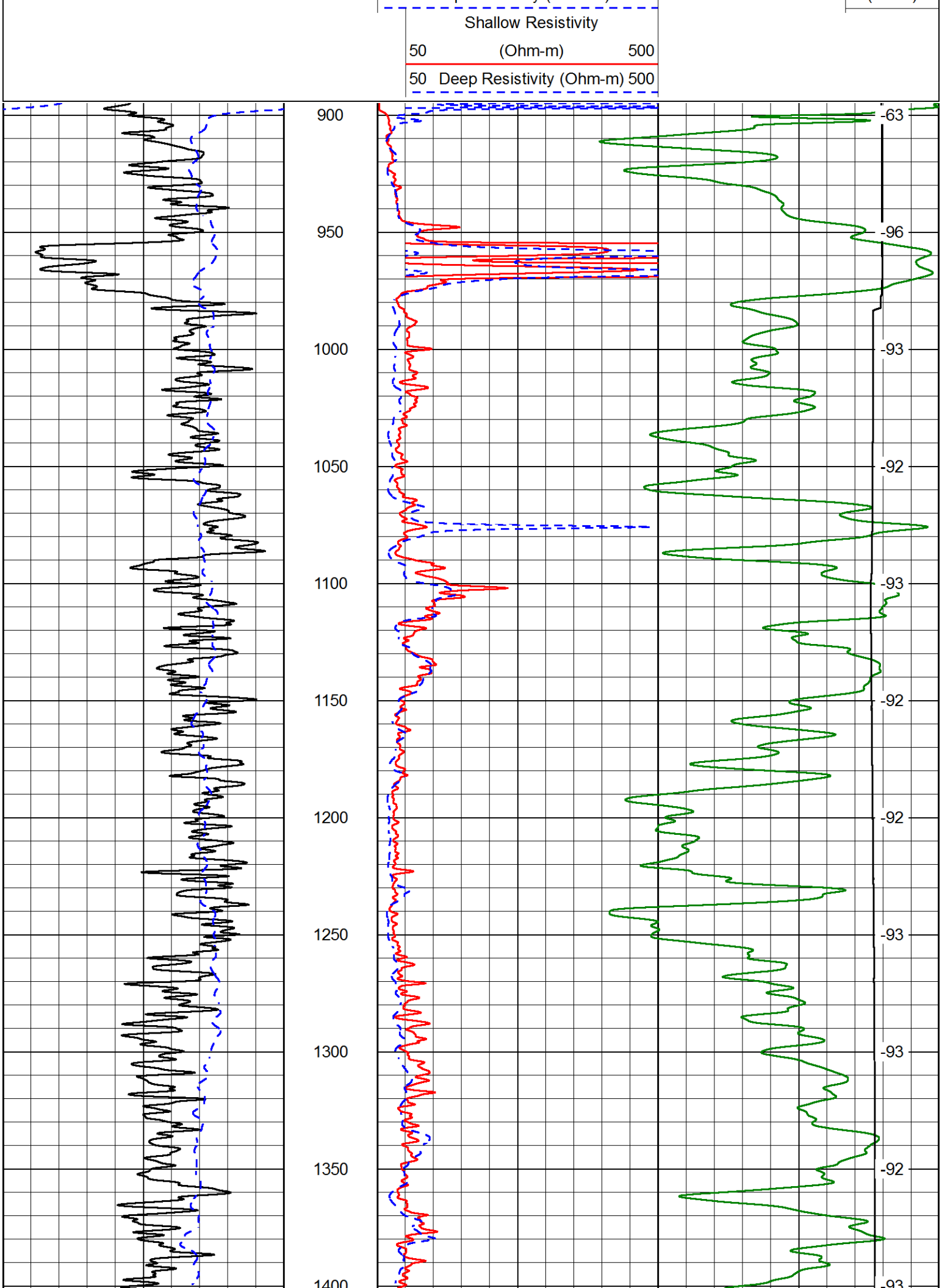
Dataset:	kansas petro_castle peak 2.db: field/well/stkml/pass5.8
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

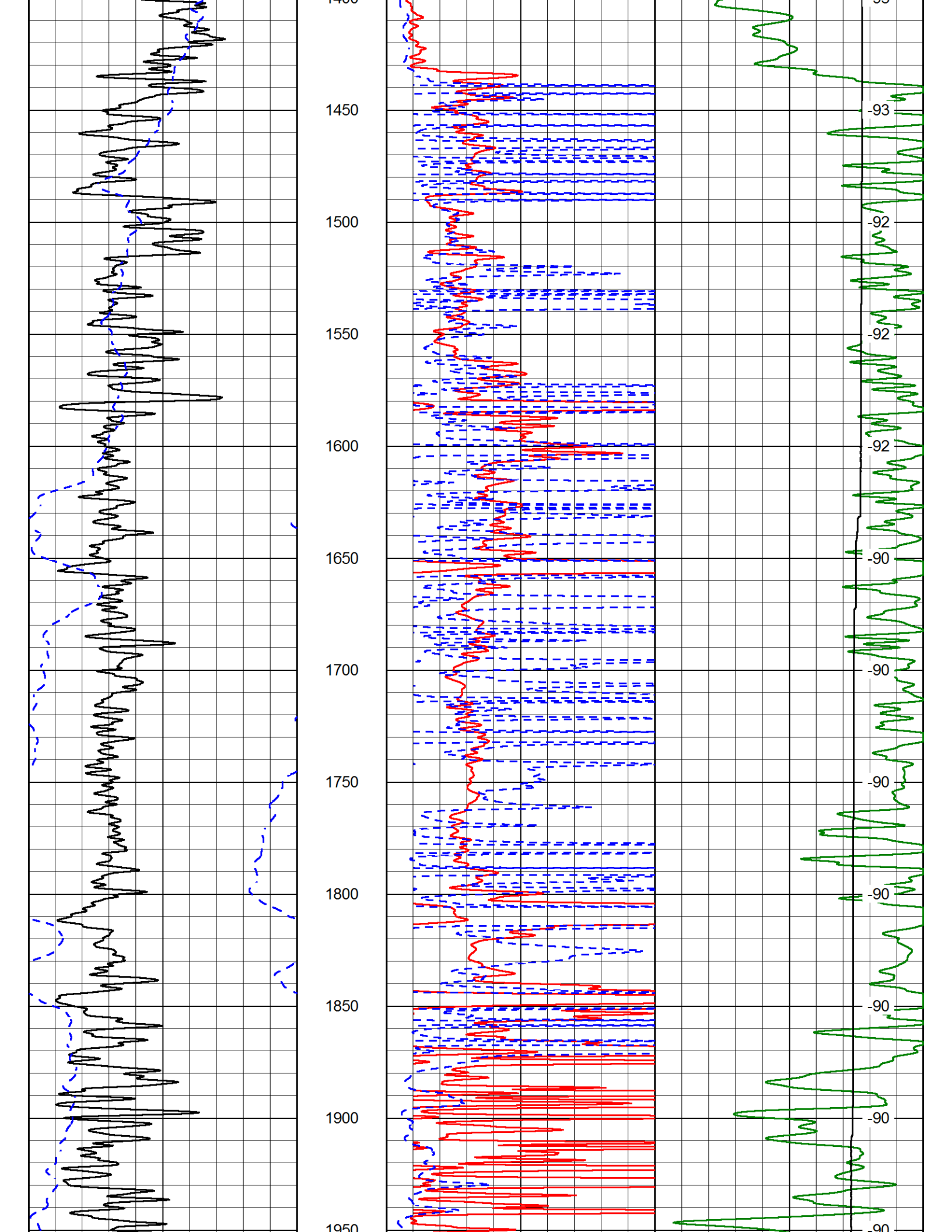
Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass6.1
Presentation Format	dil2in
Dataset Creation	Mon Apr 06 12:10:18 2015
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50

LSPD (ft/min)


Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400
-63
-96
-93
-92
-93
-92
-92
-93
-93
-92
-93


1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
-93
-92
-92
-92
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-90
-90
-90
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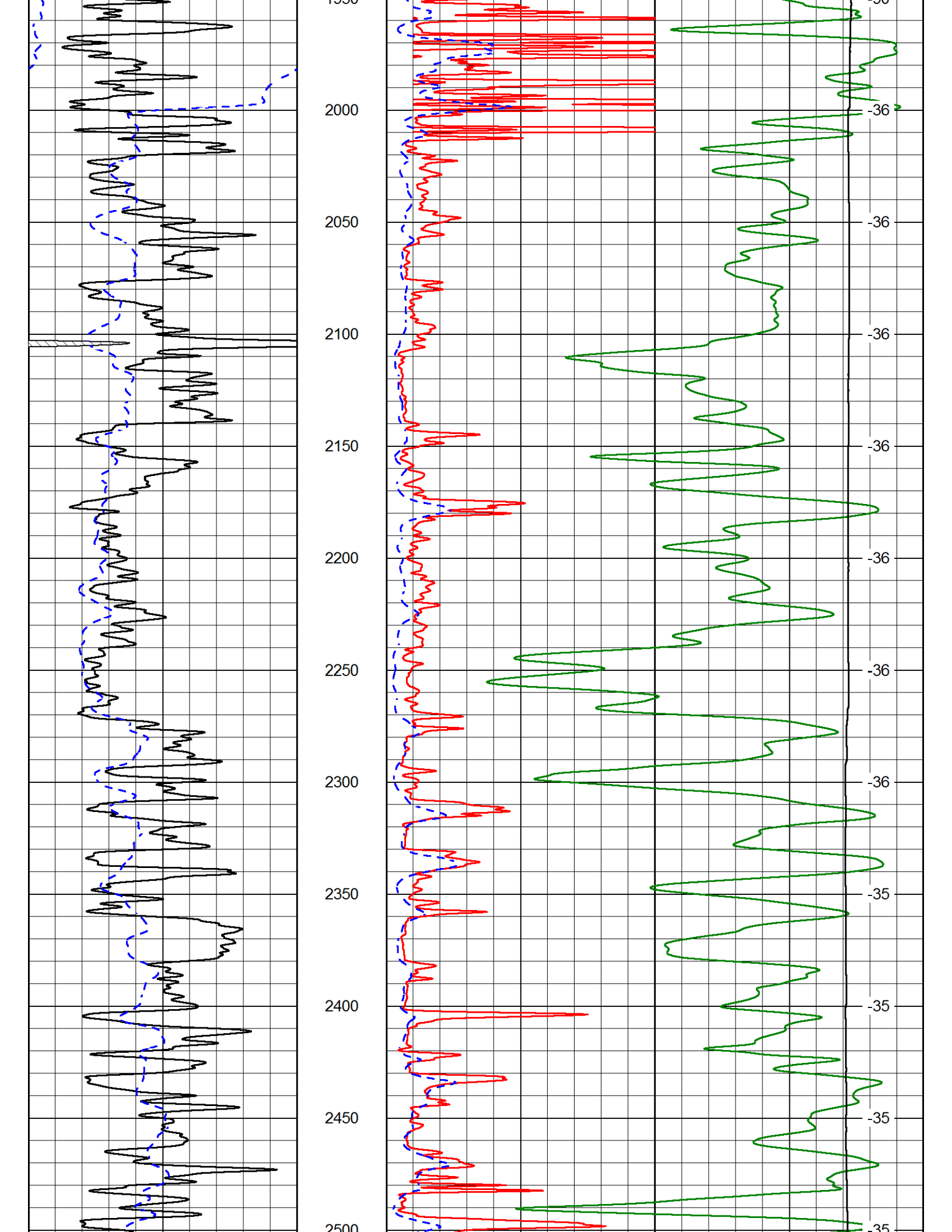
-90
-90


2000
2050
2100
2150
2200
2250
2300
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2400
2450
2500
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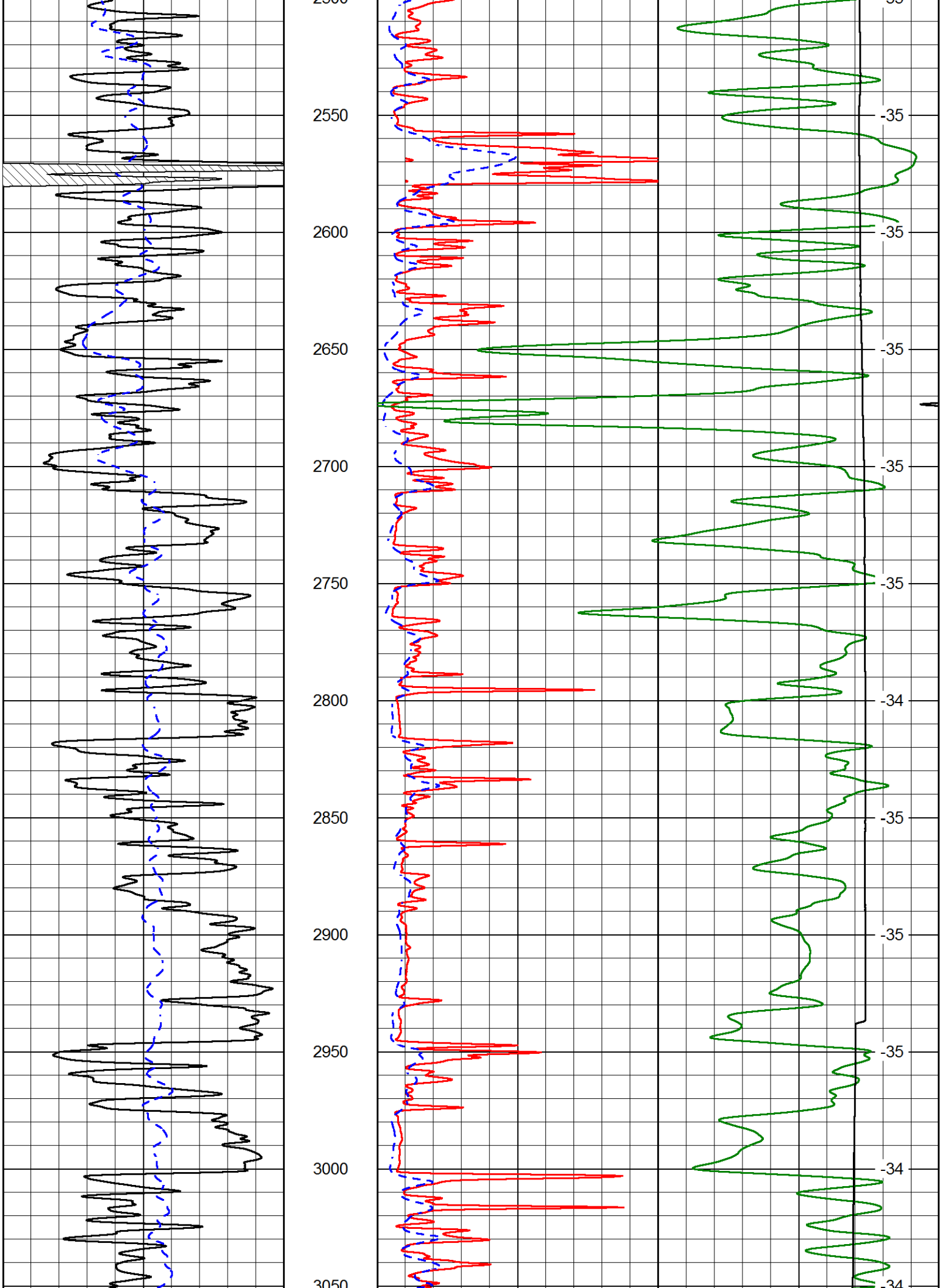
-35
-35
-35


2550
2600
2650
2700
2750
2800
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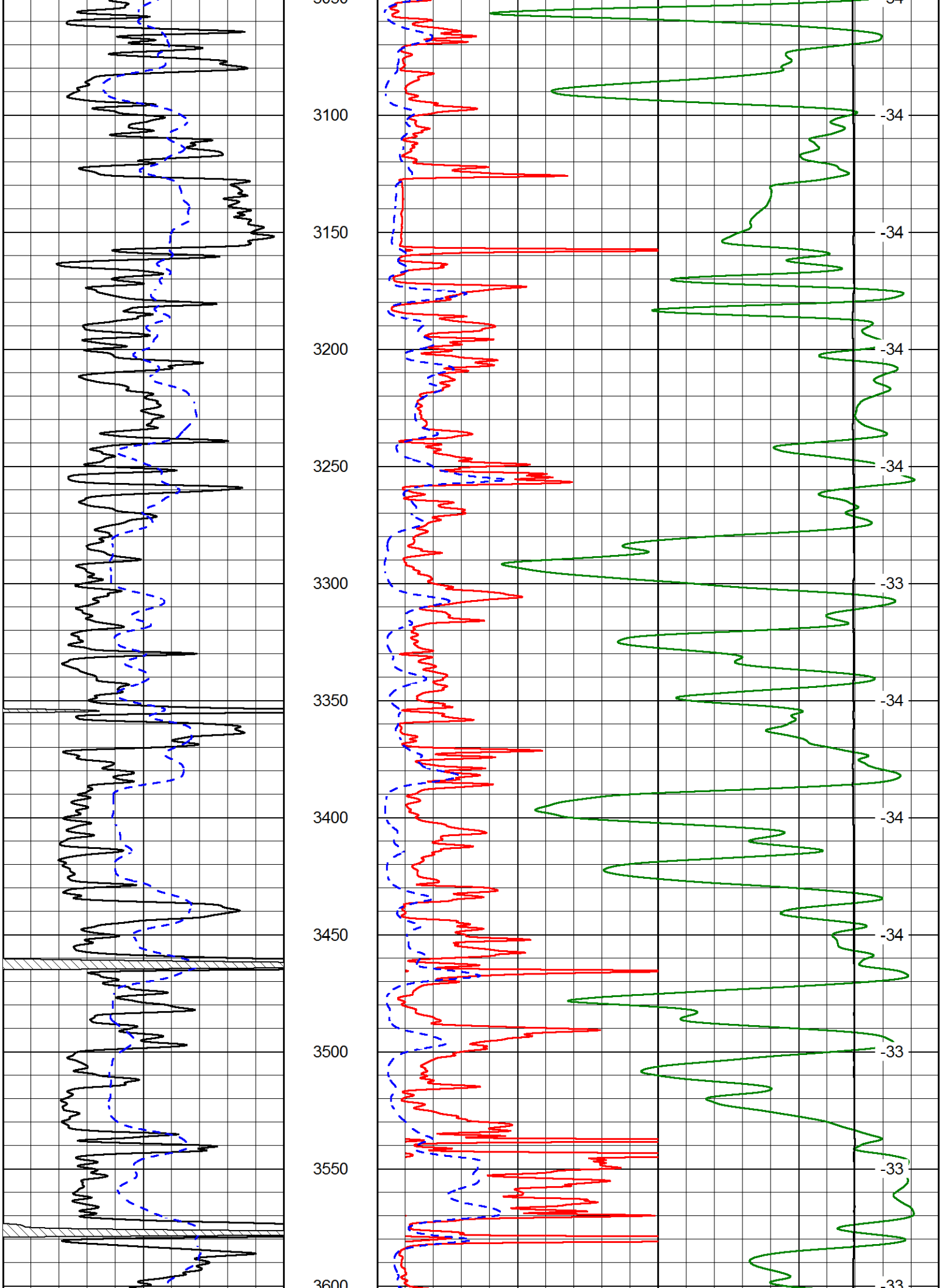
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3150
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3250
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3350
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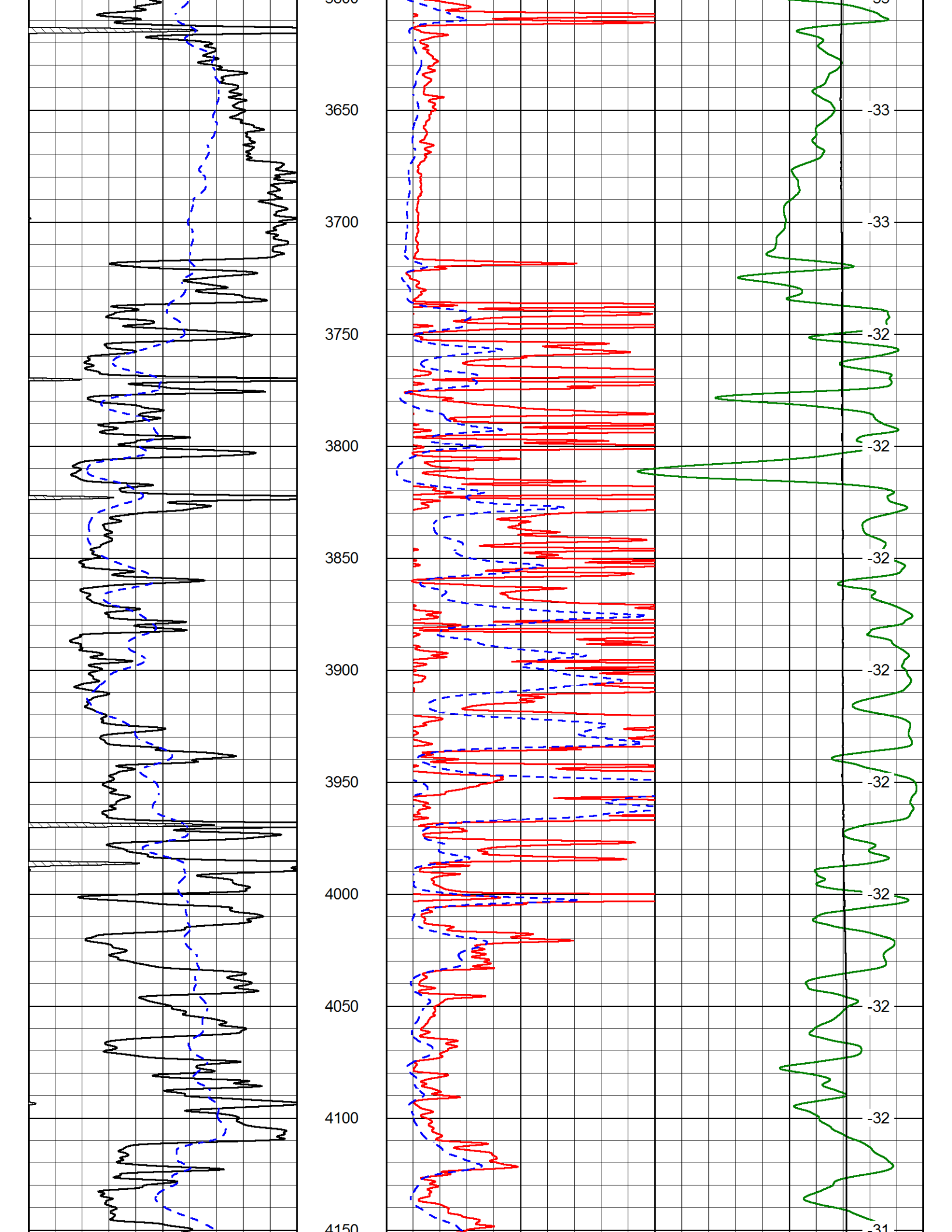
-34
-34
-33
-33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3800
3850
3900
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4050
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4150
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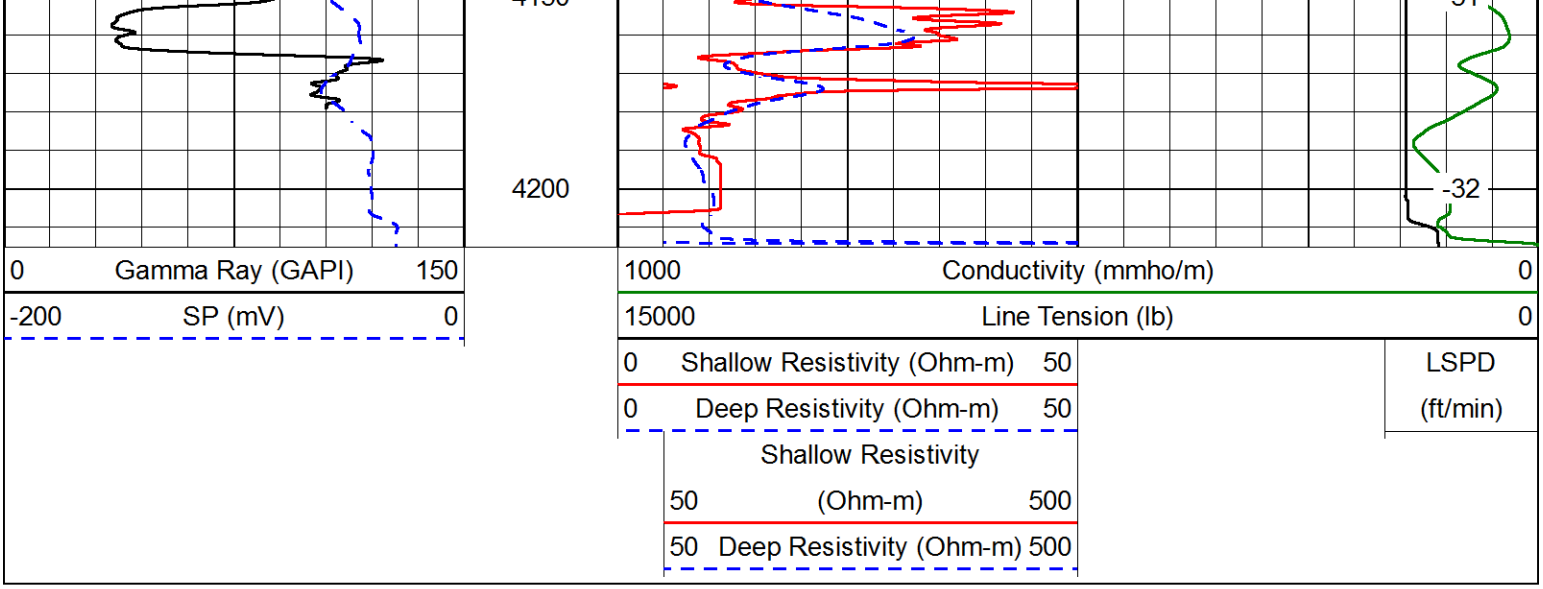
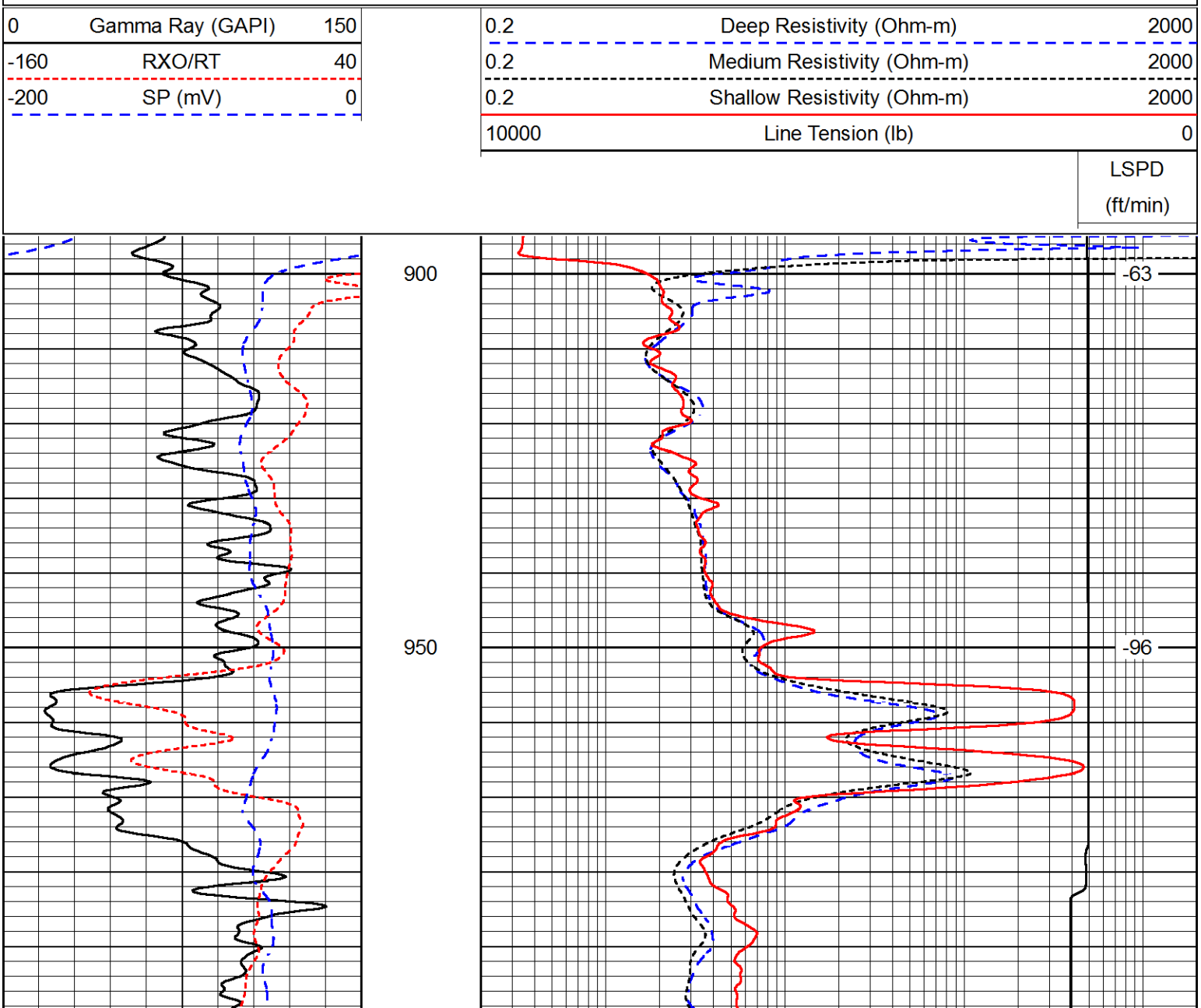
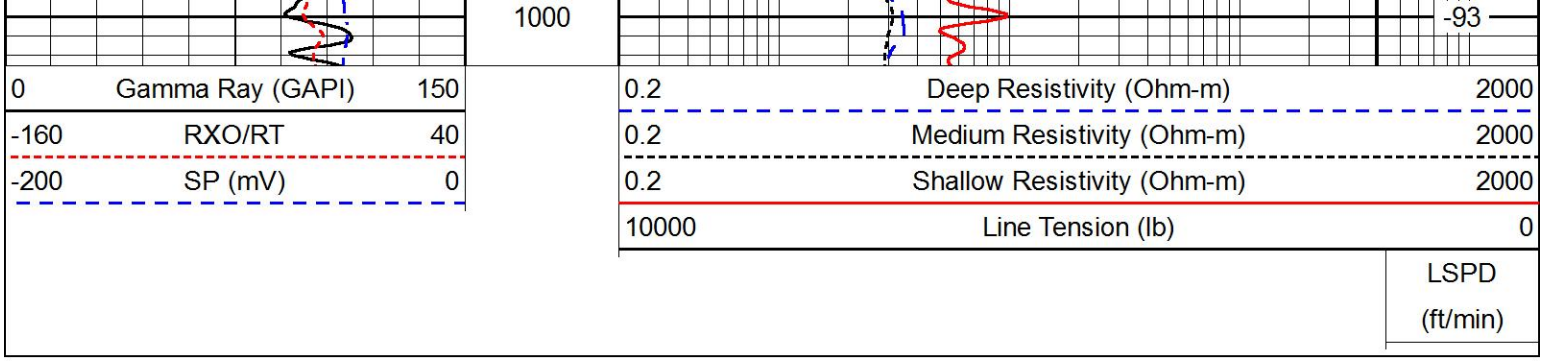
-32
-32
-31



Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass6.1
Presentation Format	dil
Dataset Creation	Mon Apr 06 12:10:18 2015
Charted by	Depth in Feet scaled 1:240



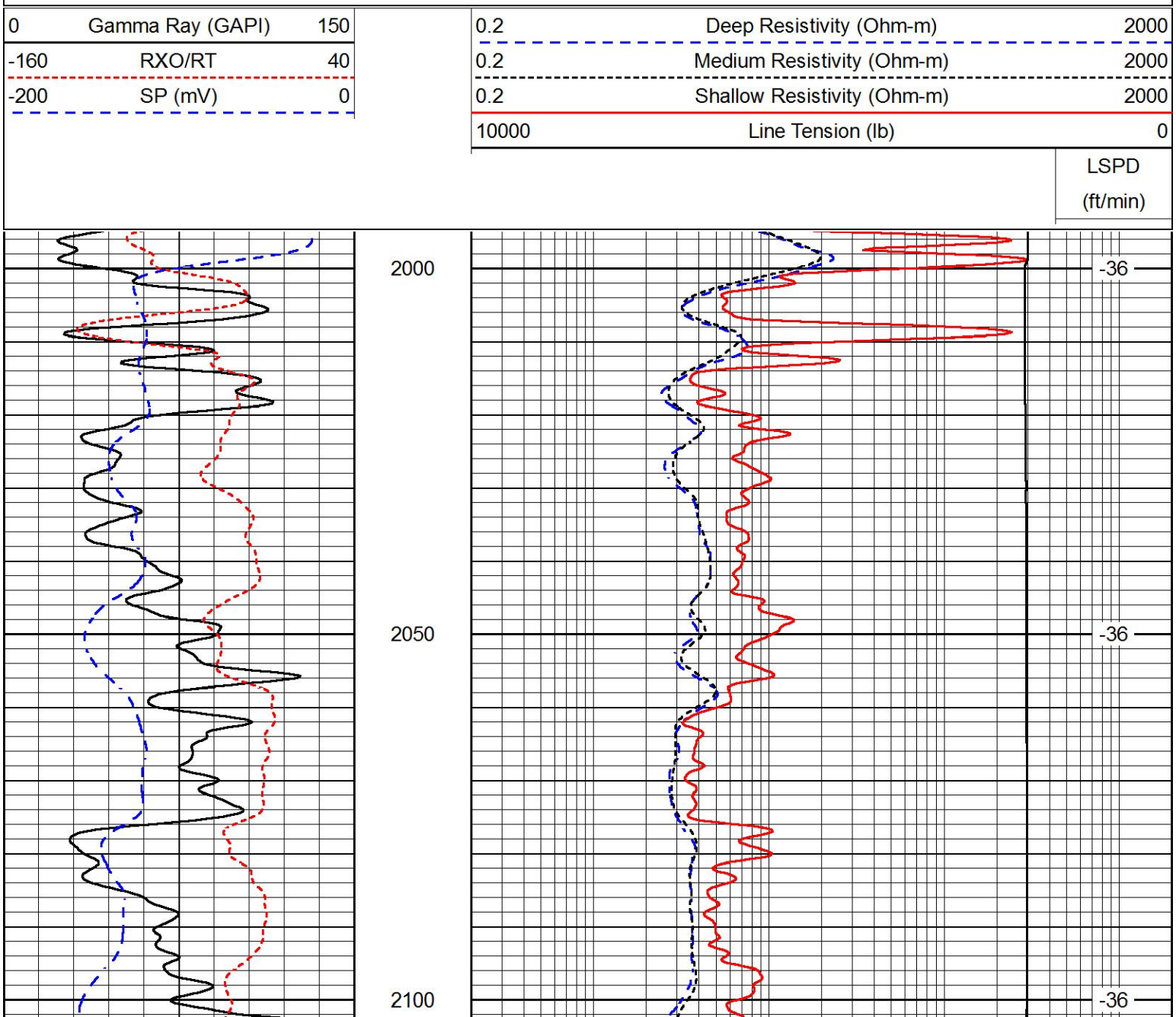


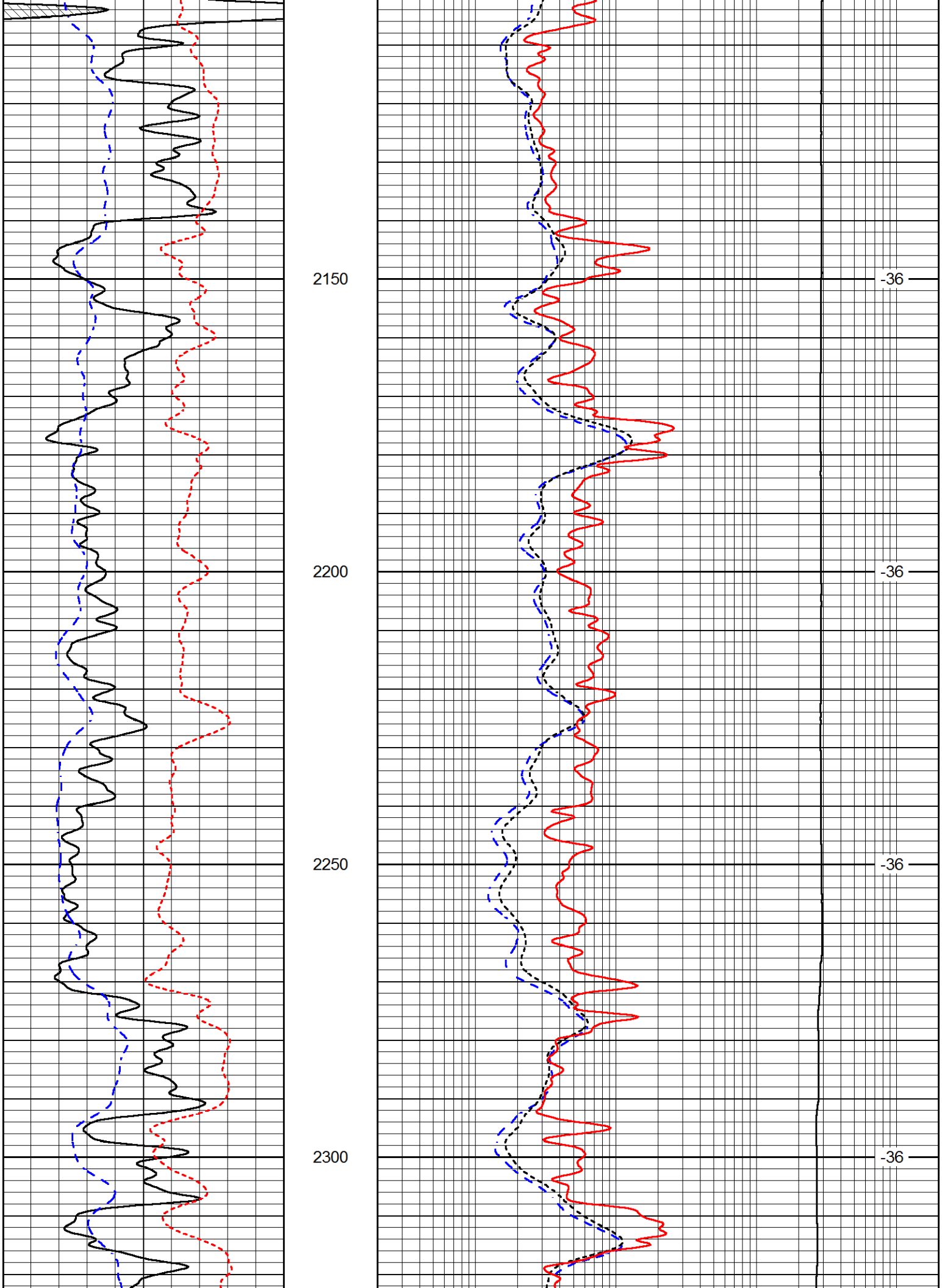
PIONEER

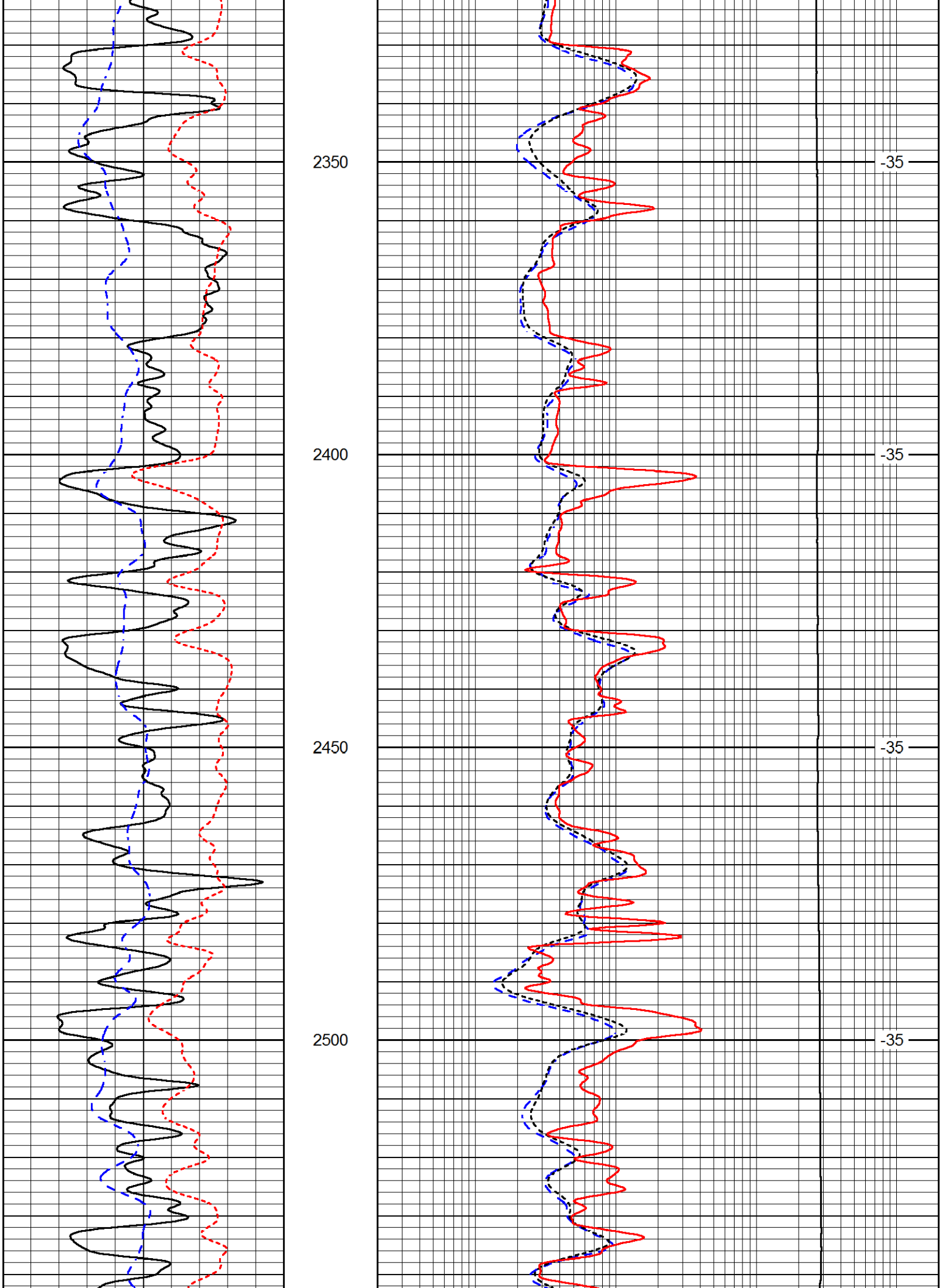
Pioneer Energy Services

Main Pass

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Presentation Format	dil
Dataset Creation	Mon Apr 06 12:08:03 2015
Charted by	Depth in Feet scaled 1:240




2150
2200
2250
2300
-36
-36
-36
-36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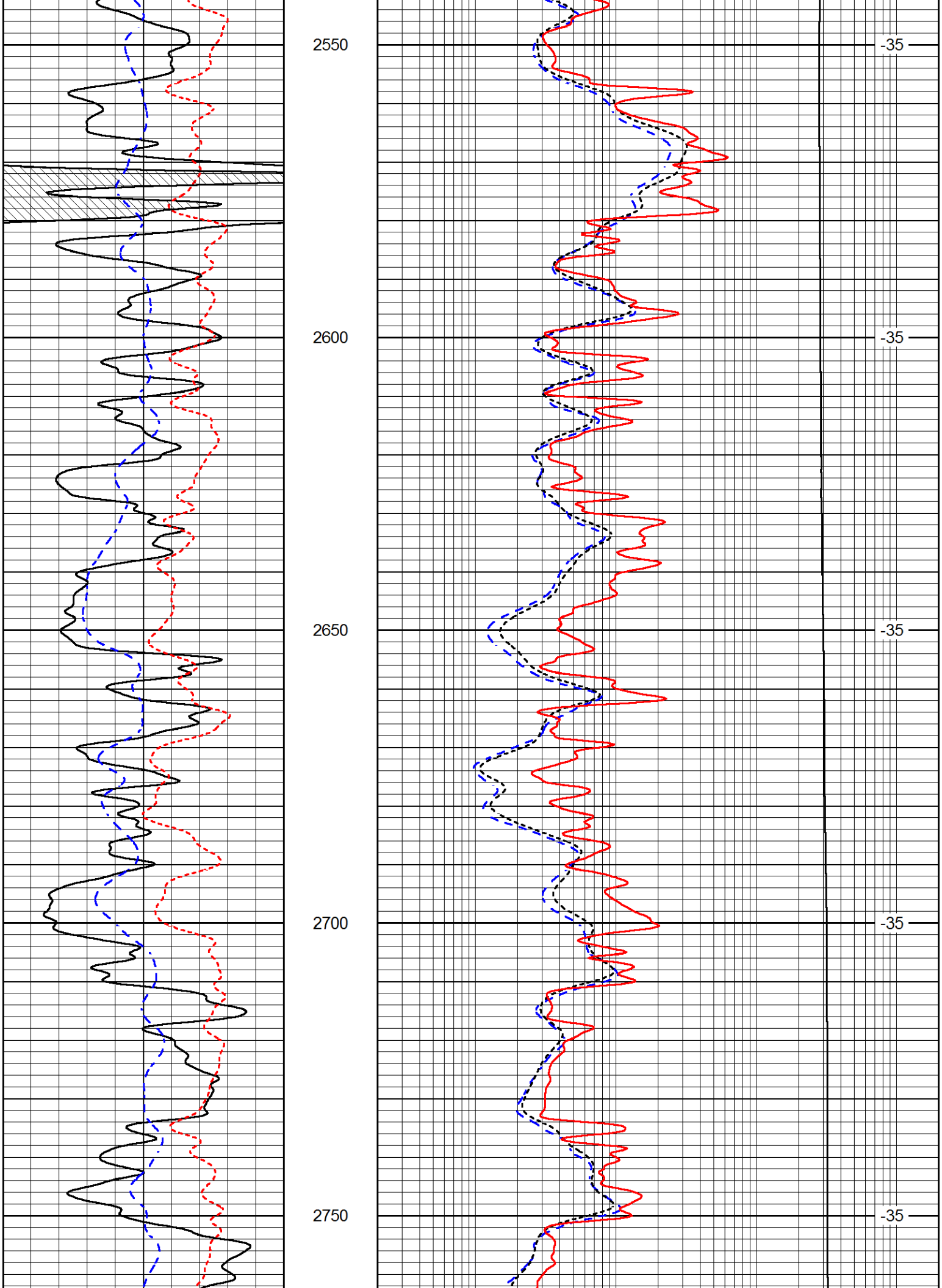
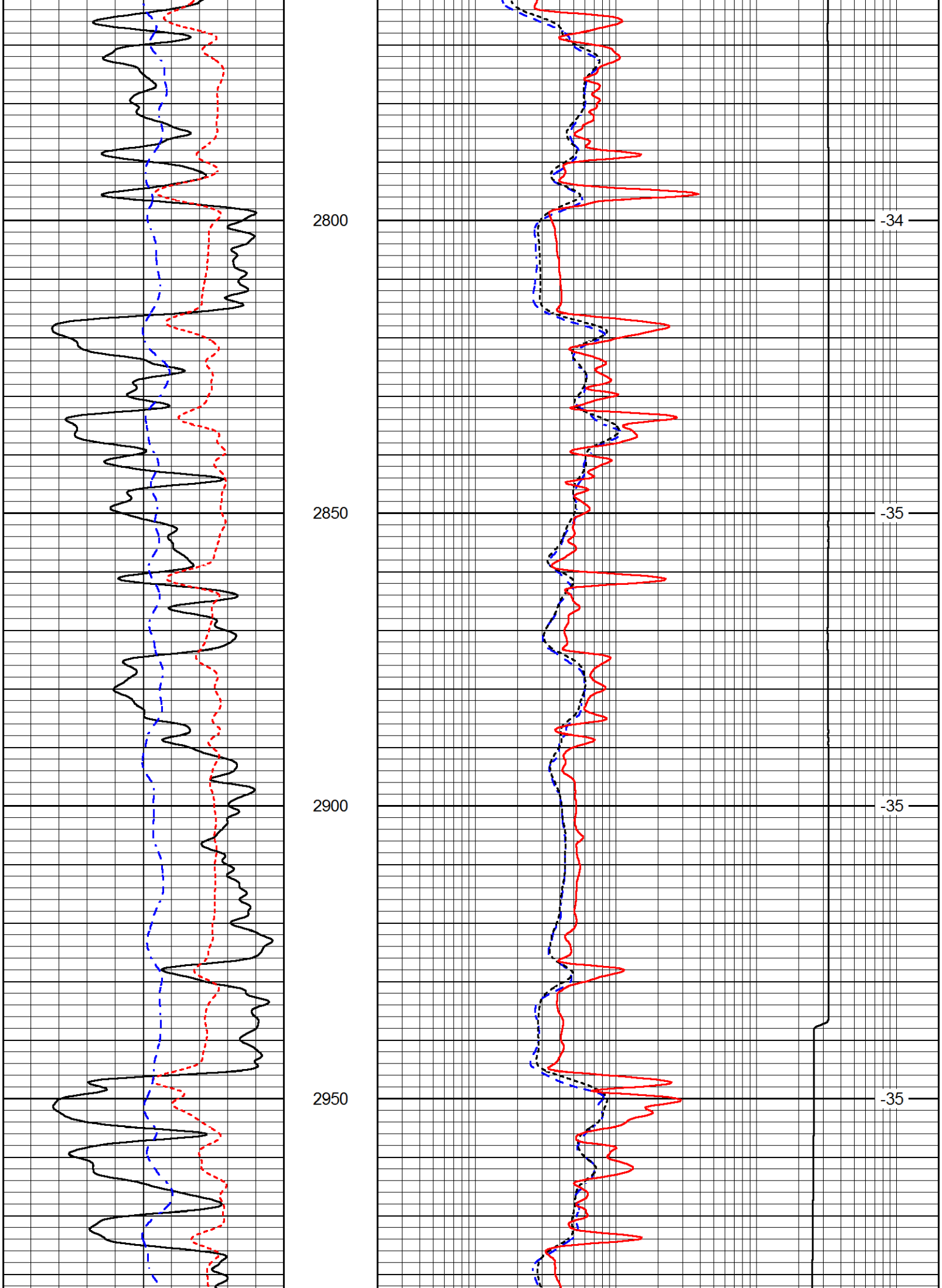
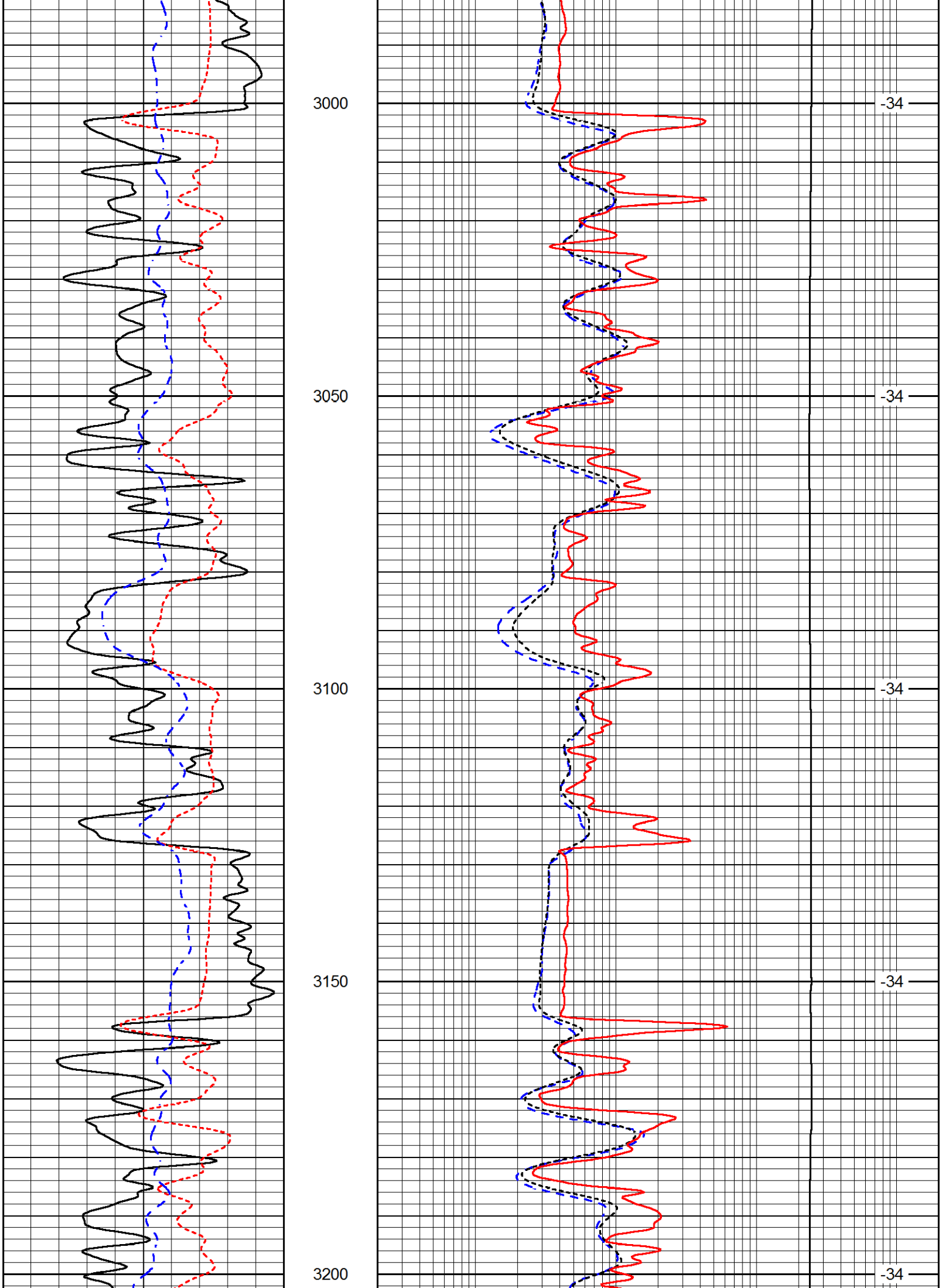
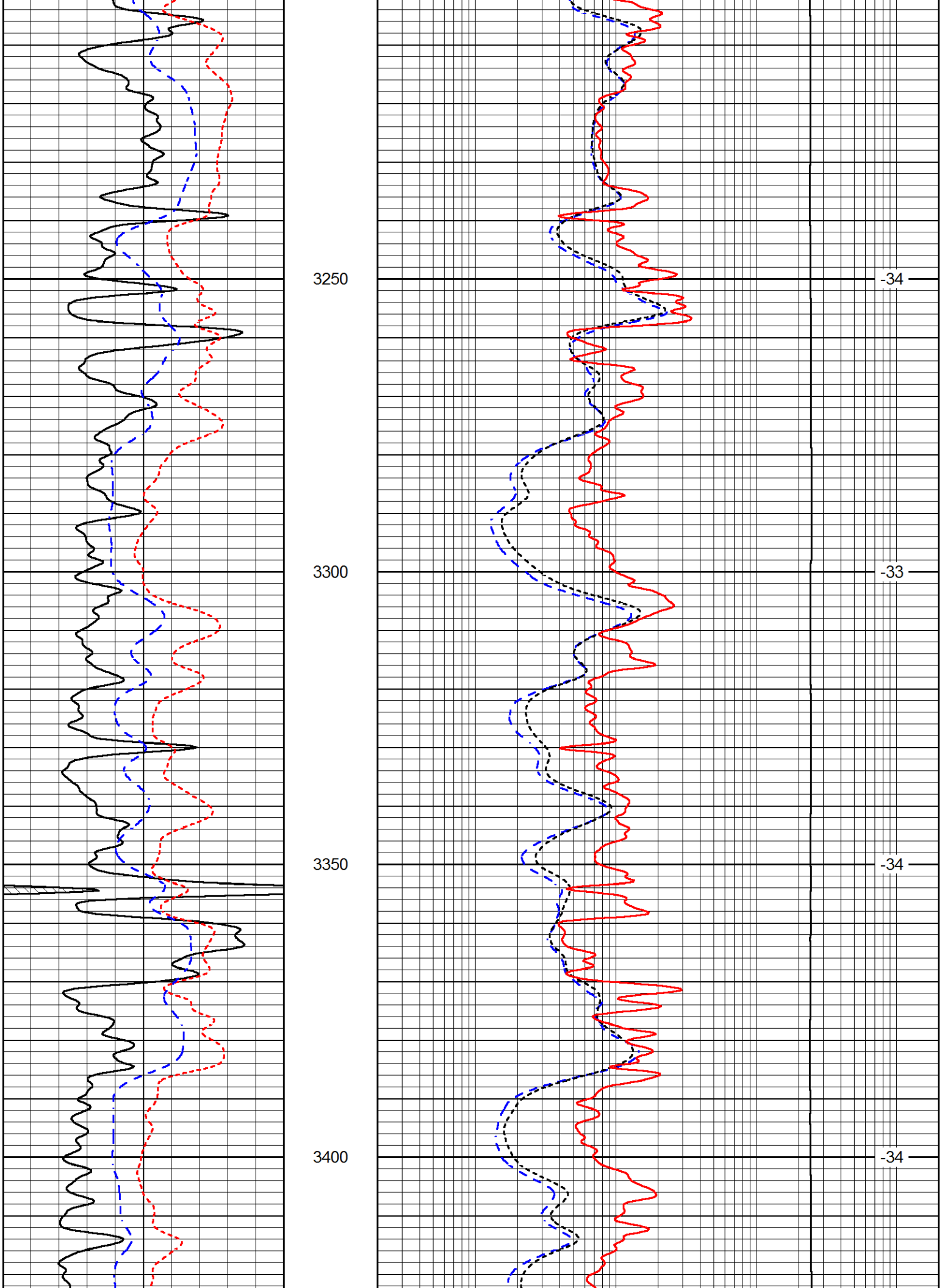
2400
2450
2500
-35
-35
-35
-35


2550
2600
2650
2700
2750
-35
-35
-35
-35
-35


2800
2850
2900
2950
-34
-35
-35
-35


3000
3050
3100
3150
3200
-34
-34
-34
-34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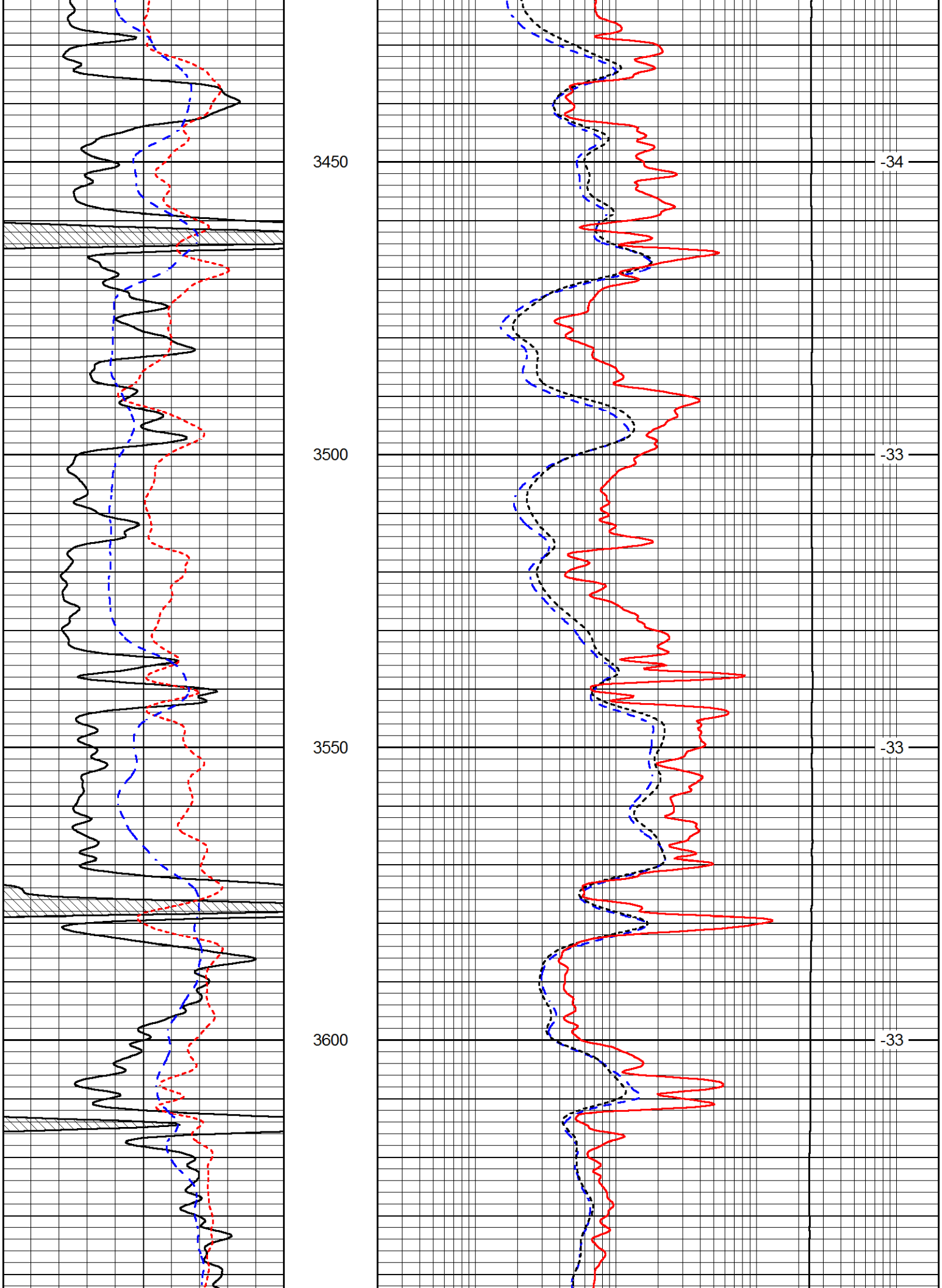
3300
3350
3400
-34
-33
-34
-34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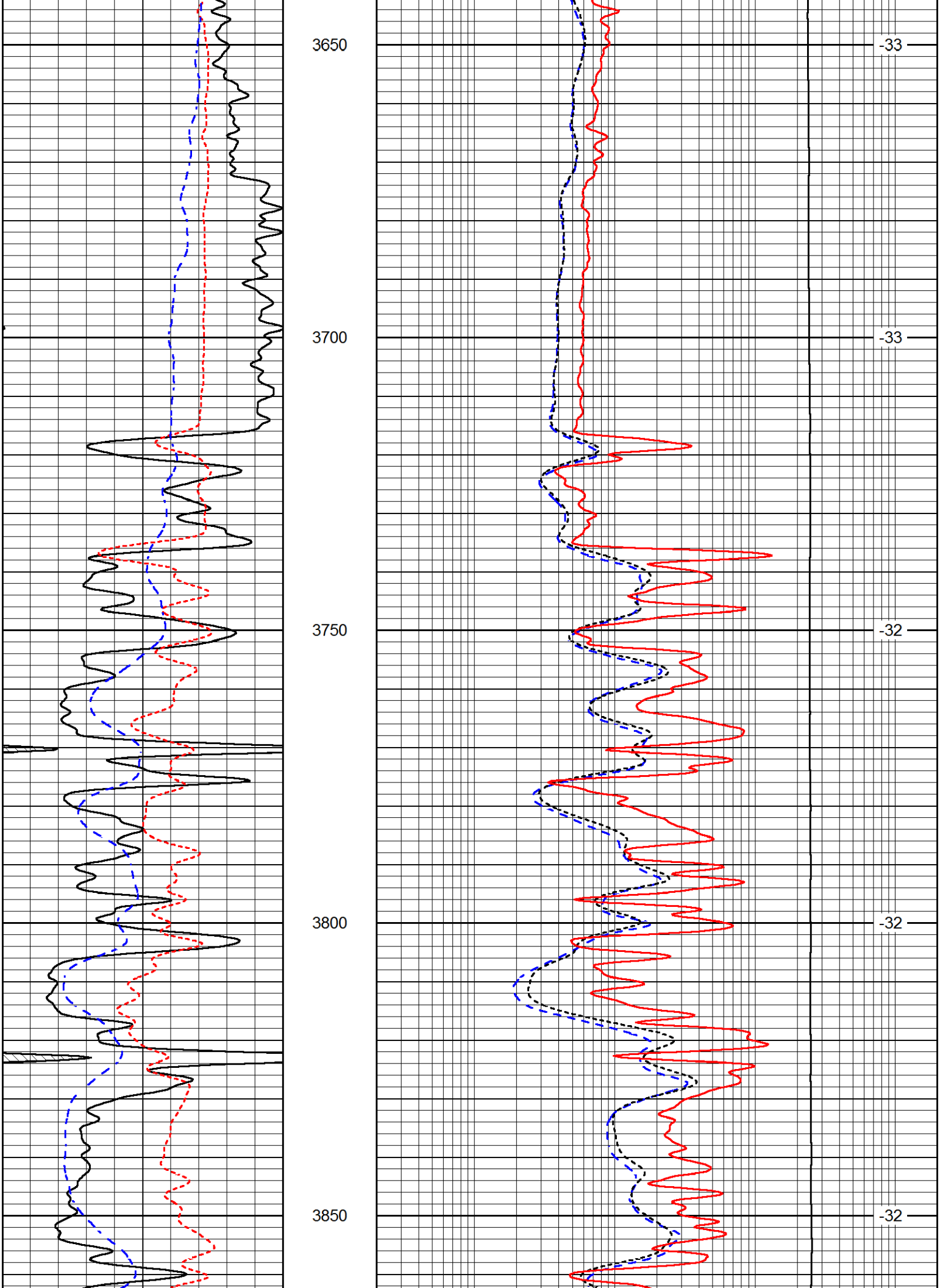
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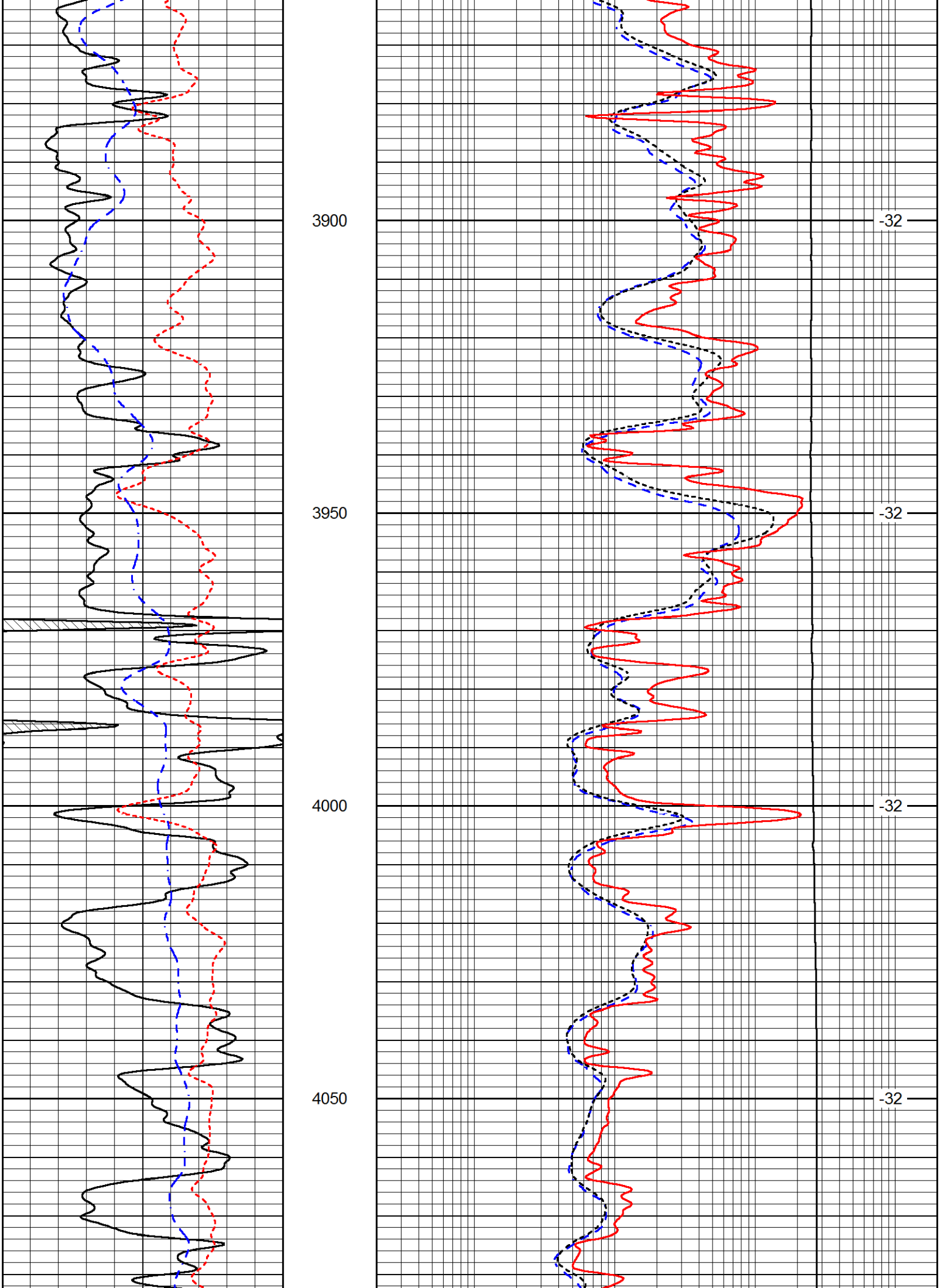
3700
3750
3800
3850
-33
-33
-32
-32
-32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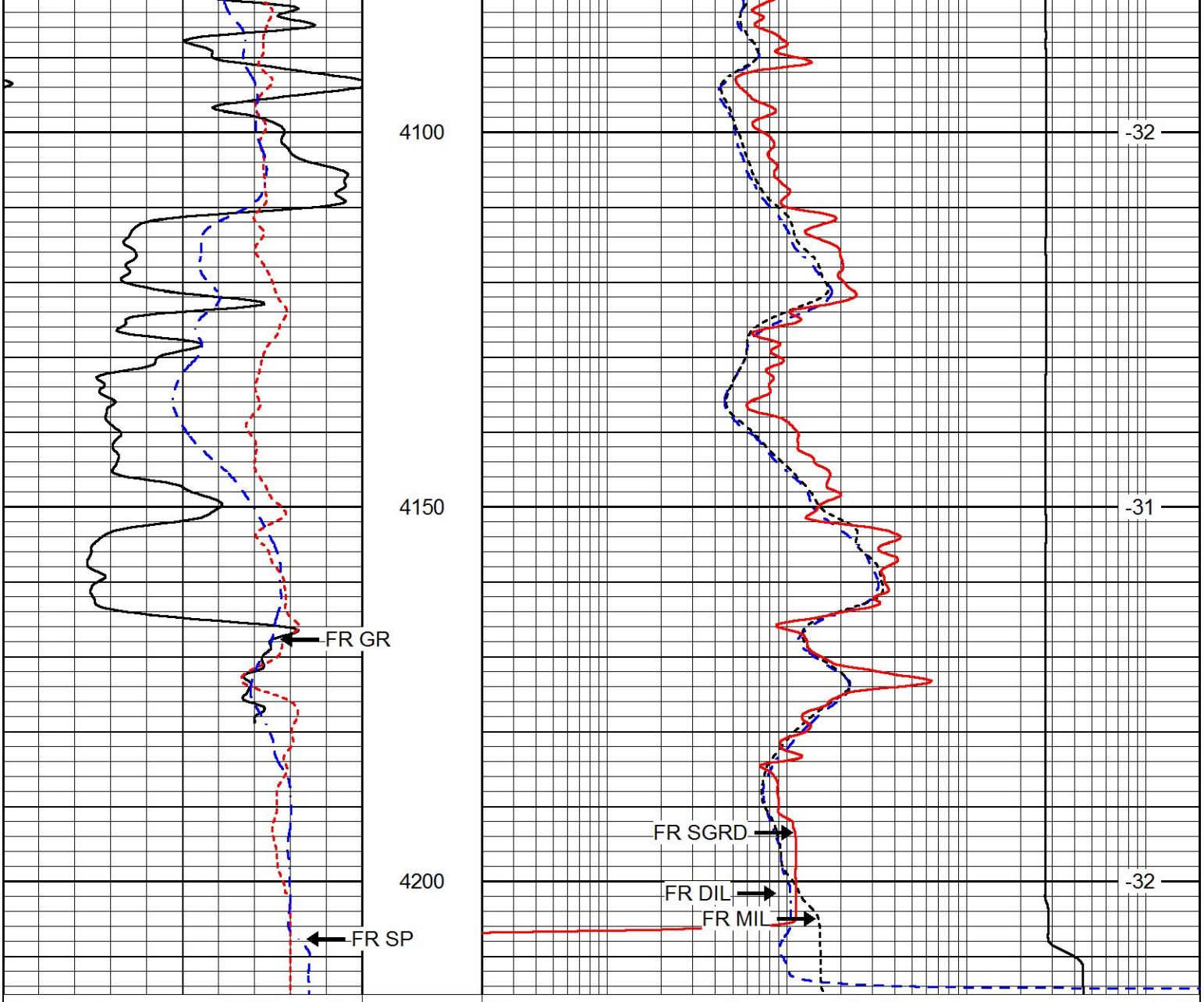
3950
4000
4050
-32
-32
-32
-32



PIONEER

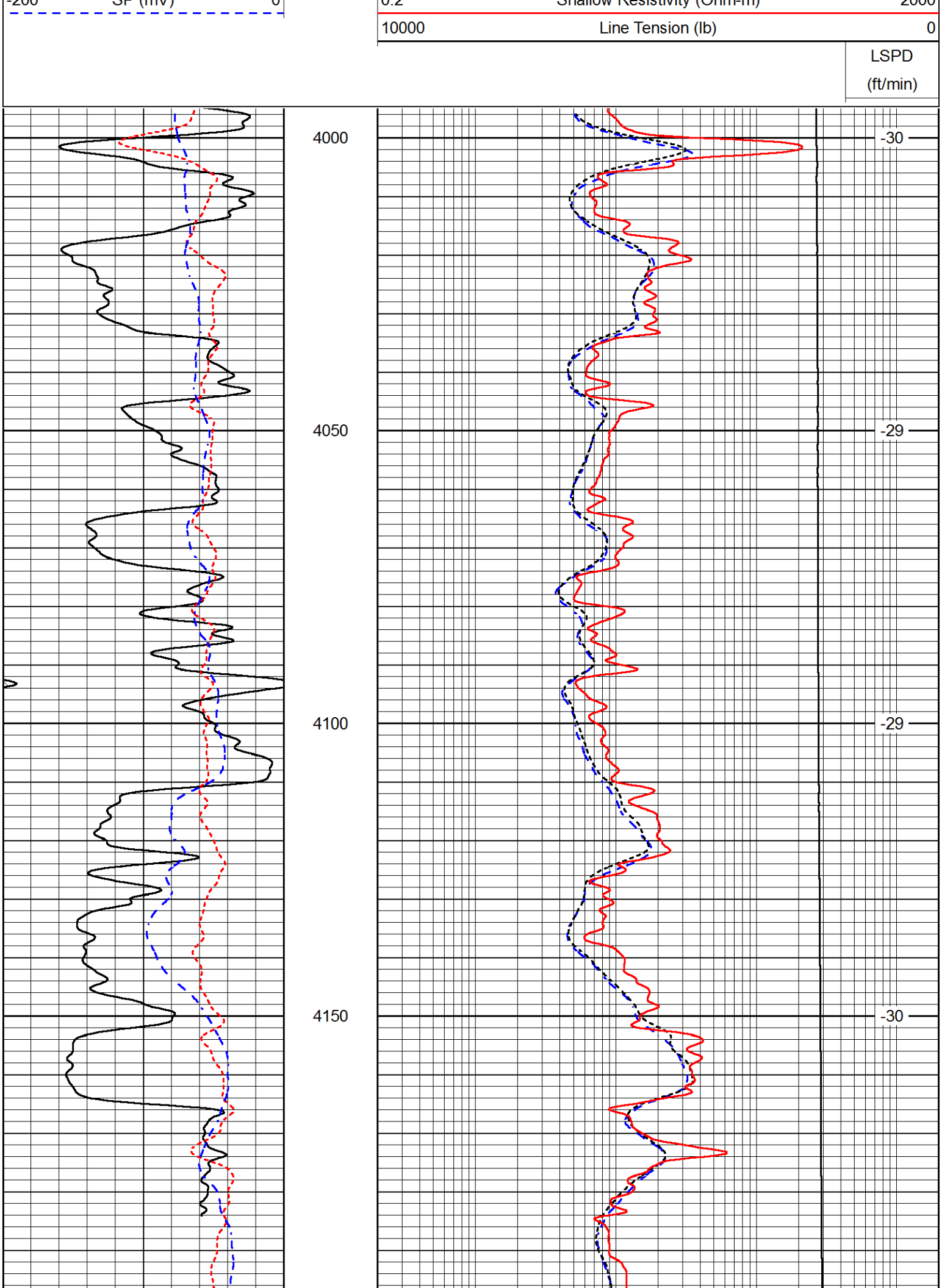
Pioneer Energy Services

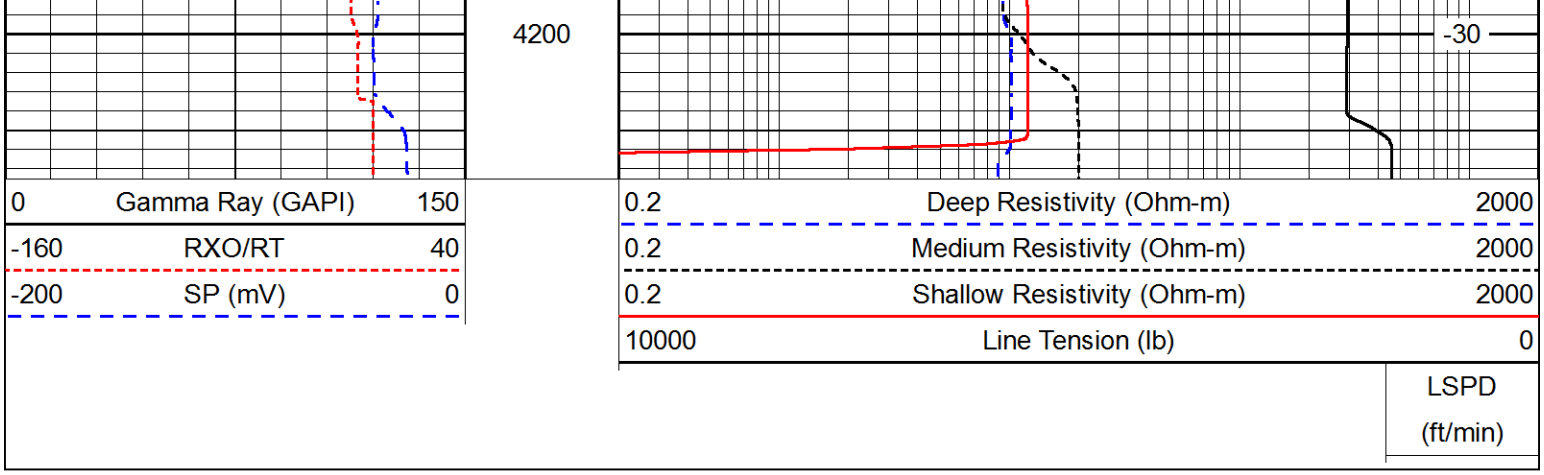
Repeat Section

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass4.1
Presentation Format	dil
Dataset Creation	Mon Apr 06 11:55:44 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000


-200
SP (mV)
0
0.2
Shallow Resistivity (Ohm-m)
2000
10000
Line Tension (lb)
0
LSPD
(ft/min)
4000
4050
4100
4150
-30
-29
-29
-30



Calibration Report

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Dataset Creation	Mon Apr 06 12:08:03 2015

Dual Induction Calibration Report

Serial-Model:	1985-PSI1985
Surface Cal Performed:	

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.450	-29.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.340	-26.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSI Stackable ML
Performed:	Thu Nov 20 02:23:03 2014

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30500.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	35500.0000	-0.5000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-81.7750

Compensated Density Calibration Report

Serial-Model:	94-965-M&W
Source / Verifier:	/
Master Calibration Performed:	Wed Oct 29 06:02:28 2014
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5991.97	7785.64	cps
Aluminum	2.685	g/cc	1103.34	4957.57	cps

Spine Angle = 75.06

Density/Spine Ratio = 0.531

Size	Reading

Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.45

Compensated Neutron Calibration Report

Serial Number:	CNT-825
Tool Model:	M&W

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	233-M&W	
Tool Model:	M&W	
Performed:	Thu Aug 14 14:54:58 2014	
Calibrator Value:	100.0	GAPI
Background Reading:	65.0	cps
Calibrator Reading:	207.0	cps
Sensitivity:	0.5700	GAPI/cps

PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-185-23912-00-00

Company Kansas Petroleum Resources, LLC

Well Castle Peak #2

Field Dillwin West

County Stafford State Kansas

Location

1980' FSL & 660' FWL

Sec: 17 Twp: 24S Rge: 14W

Other Services

DIL/MEL

Elevation

K.B. 2005
D.F.
G.L. 1993

Permanent Datum	Ground Level	Elevation 1993
Log Measured From	Kelly Bushing	12 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	

Date	4/6/2015			
Run Number	One			
Type Log	CNL / CDL			
Depth Driller	4210			
Depth Logger	4209			
Bottom Logged Interval	4180			
Top Logged Interval	2000			
Type Fluid In Hole	Chemical			
Salinity, PPM CL	6200			
Density	9.0			
Level	Full			
Max. Rec. Temp. F	118			
Operating Rig Time	3 1/2 Hours			
Equipment -- Location	15	Hays		
Recorded By	D. Schmidt			
Witnessed By	Rod Andersen			

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	902	8.625	23#	0	902
Two	7.875	902	TD				

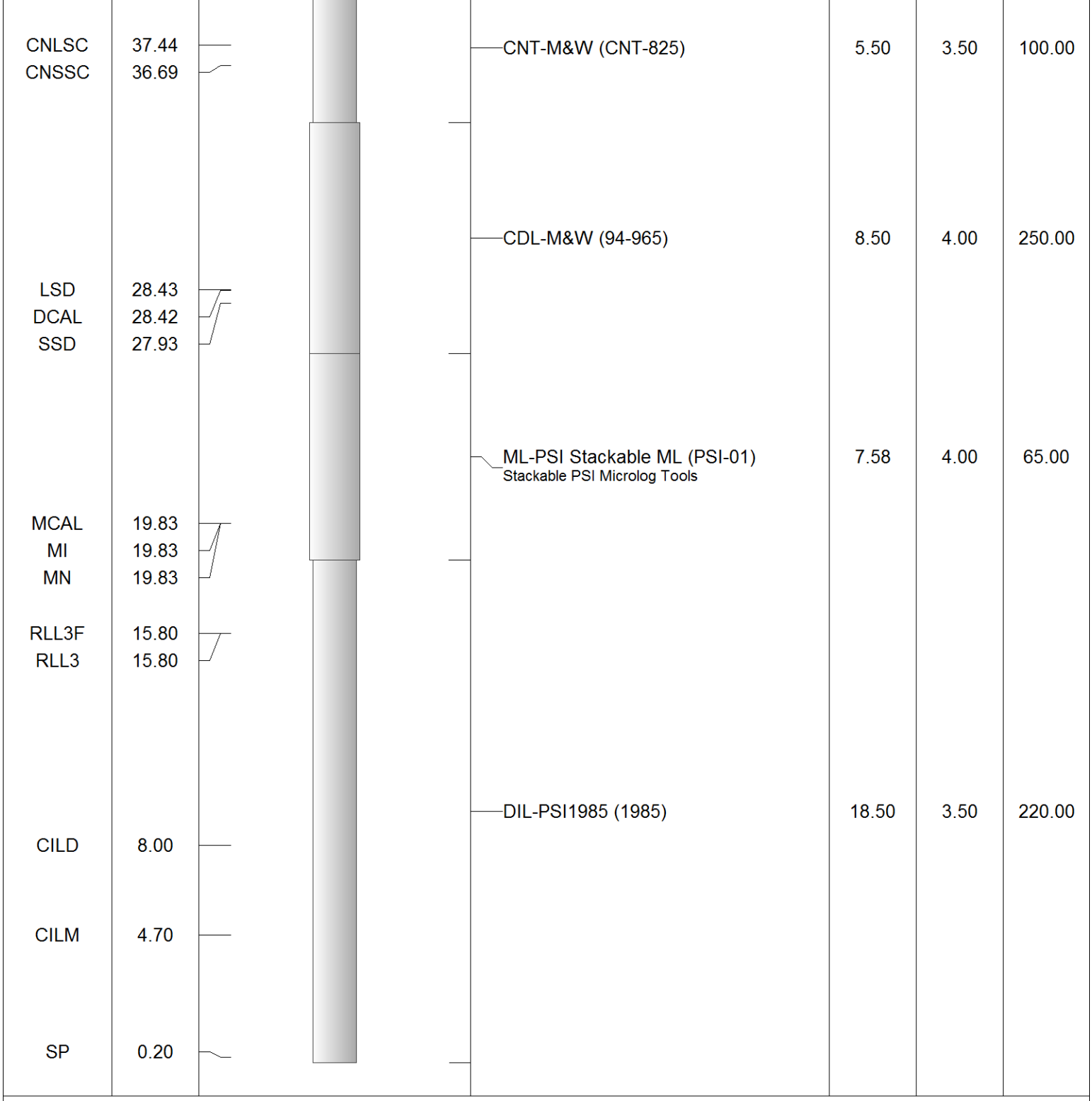
<< Fold Here >>>

Comments

Thank you for using Pioneer Energy Services
785.625.3858

St. John (Hwy 281 & Hwy 50),
West to NW 80th, 1/4 North,
East into

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (233-M&W)	3.00	3.50	50.00

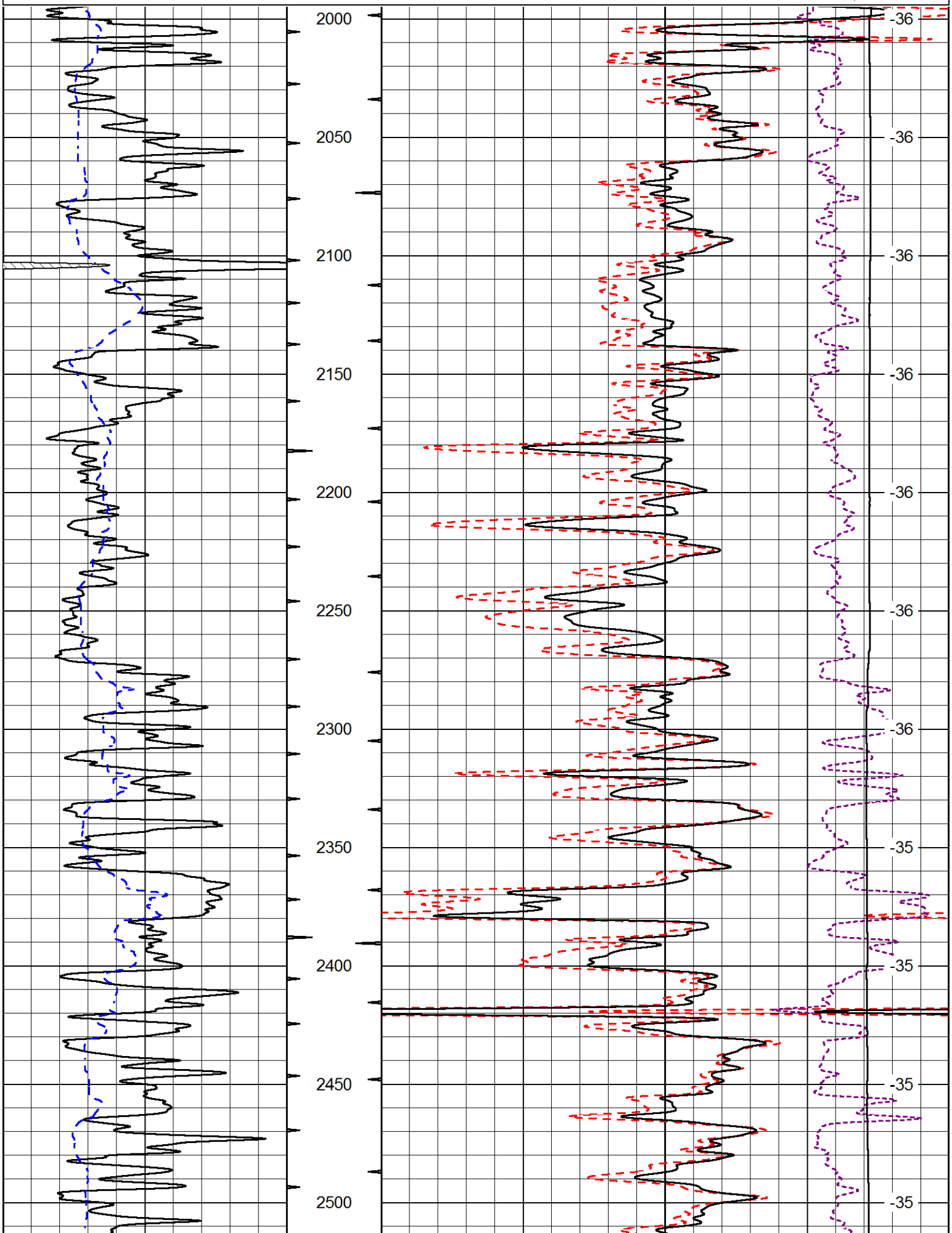


Dataset:	kansas petro_castle peak 2.db: field/well/stkml/pass5.8
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass6.1
Presentation Format	cdl
Dataset Creation	Mon Apr 06 12:10:18 2015
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25


LSPD
(ft/min)
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
-36
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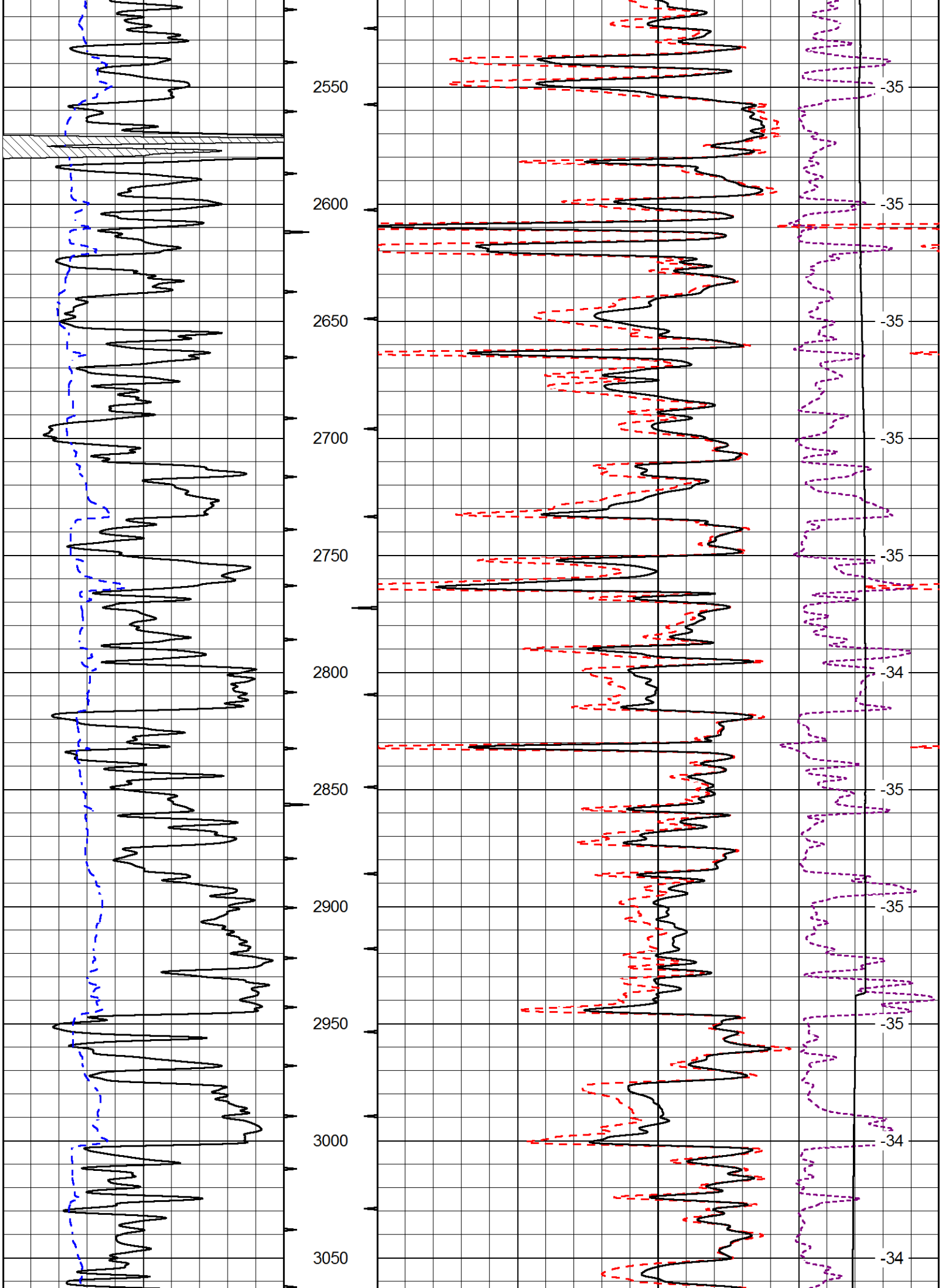
-36
-36
-36
-36
-35
-35
-35


2550
2600
2650
2700
2750
2800
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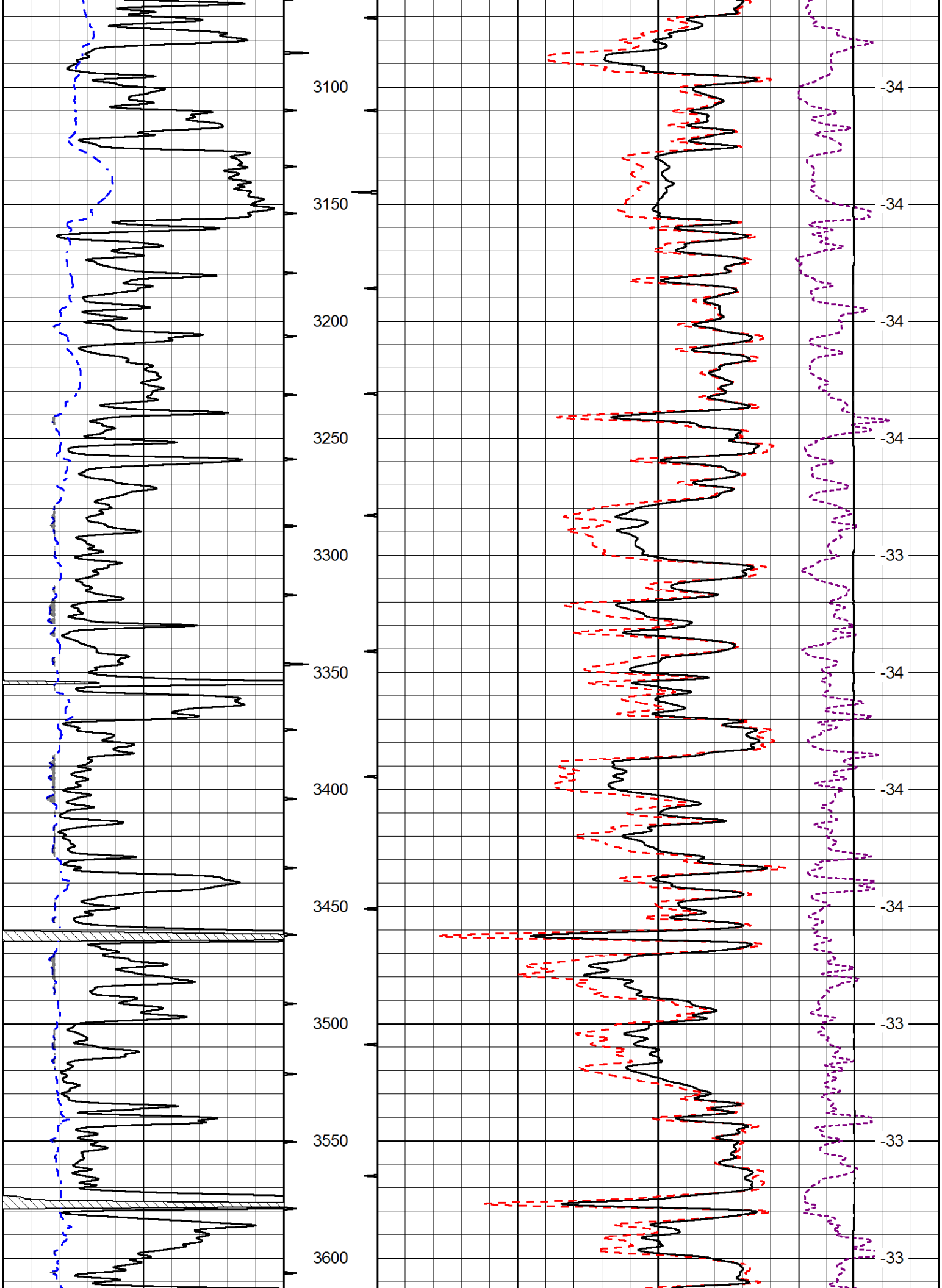
3000
3050
-35
-35
-35
-35
-35
-34
-35
-35
-34
-34


3100
3150
3200
3250
3300
3350
3400
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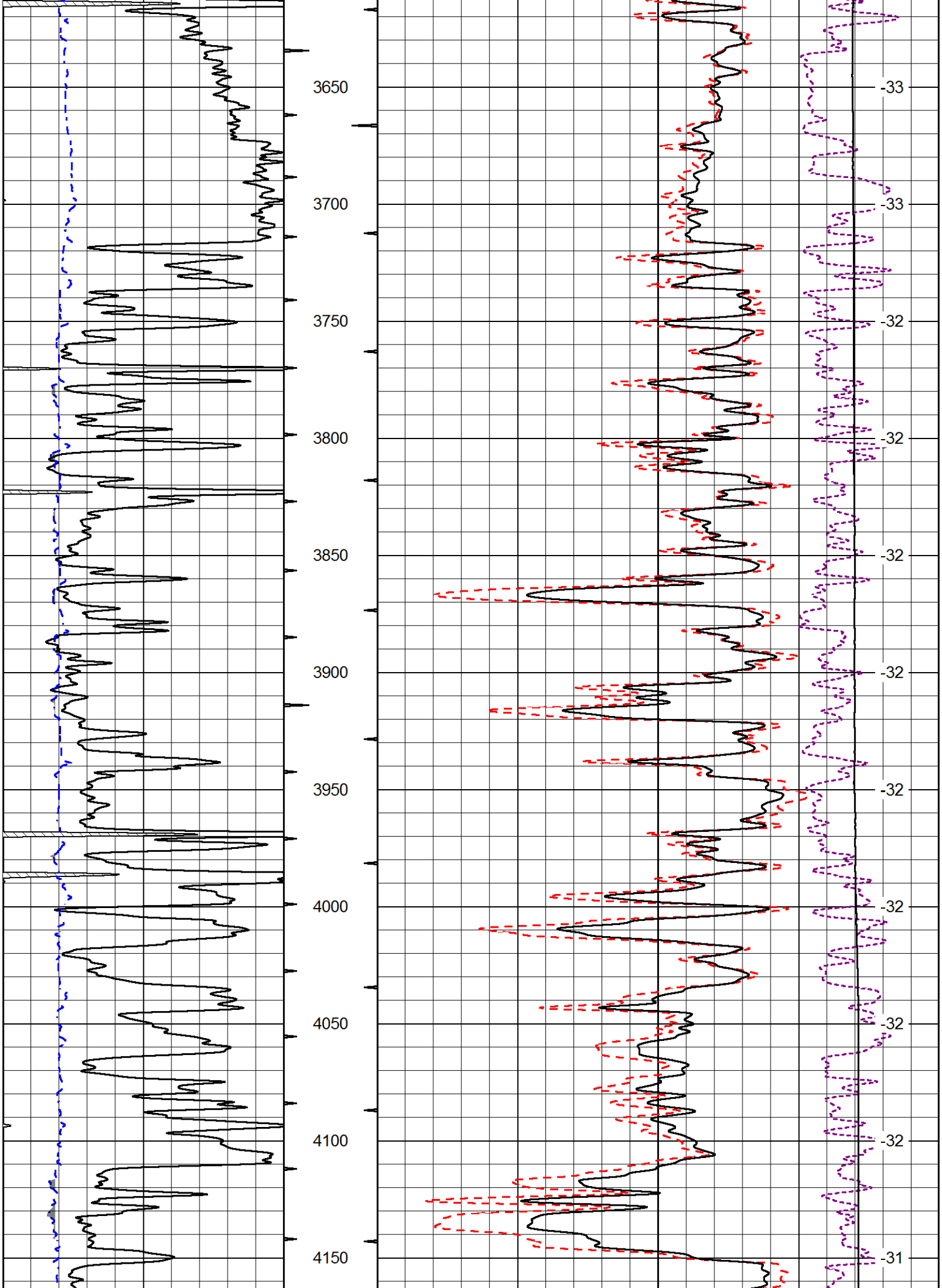
3500
3550
3600
-34
-34
-34
-34
-33
-34
-34
-33
-33
-33


3650
3700
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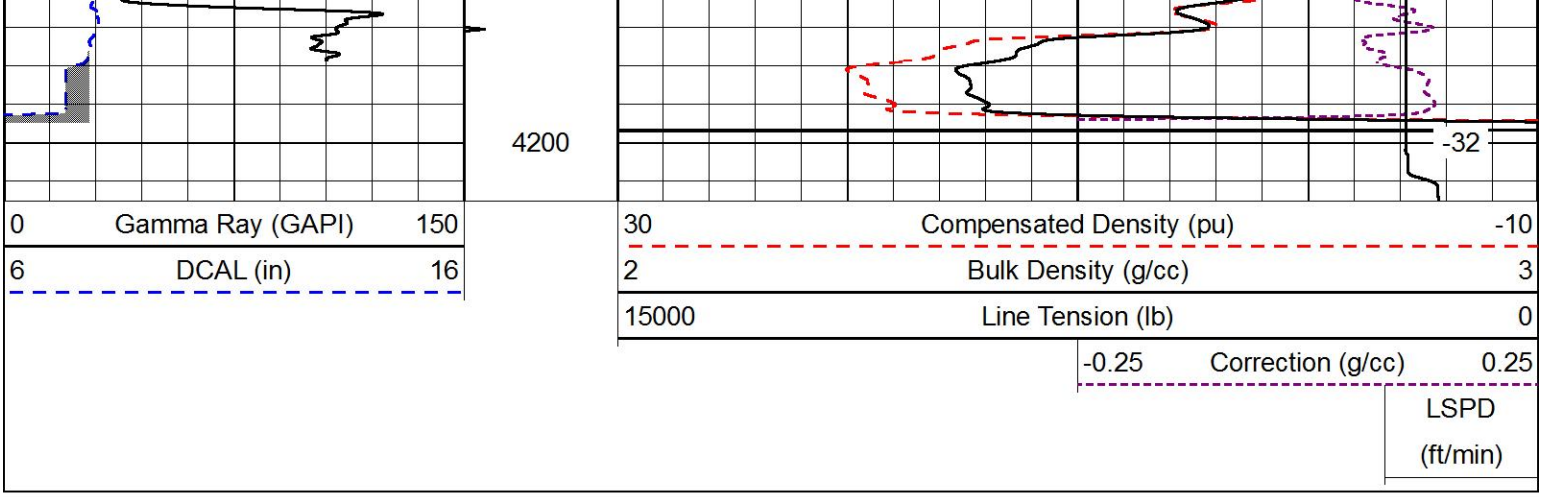
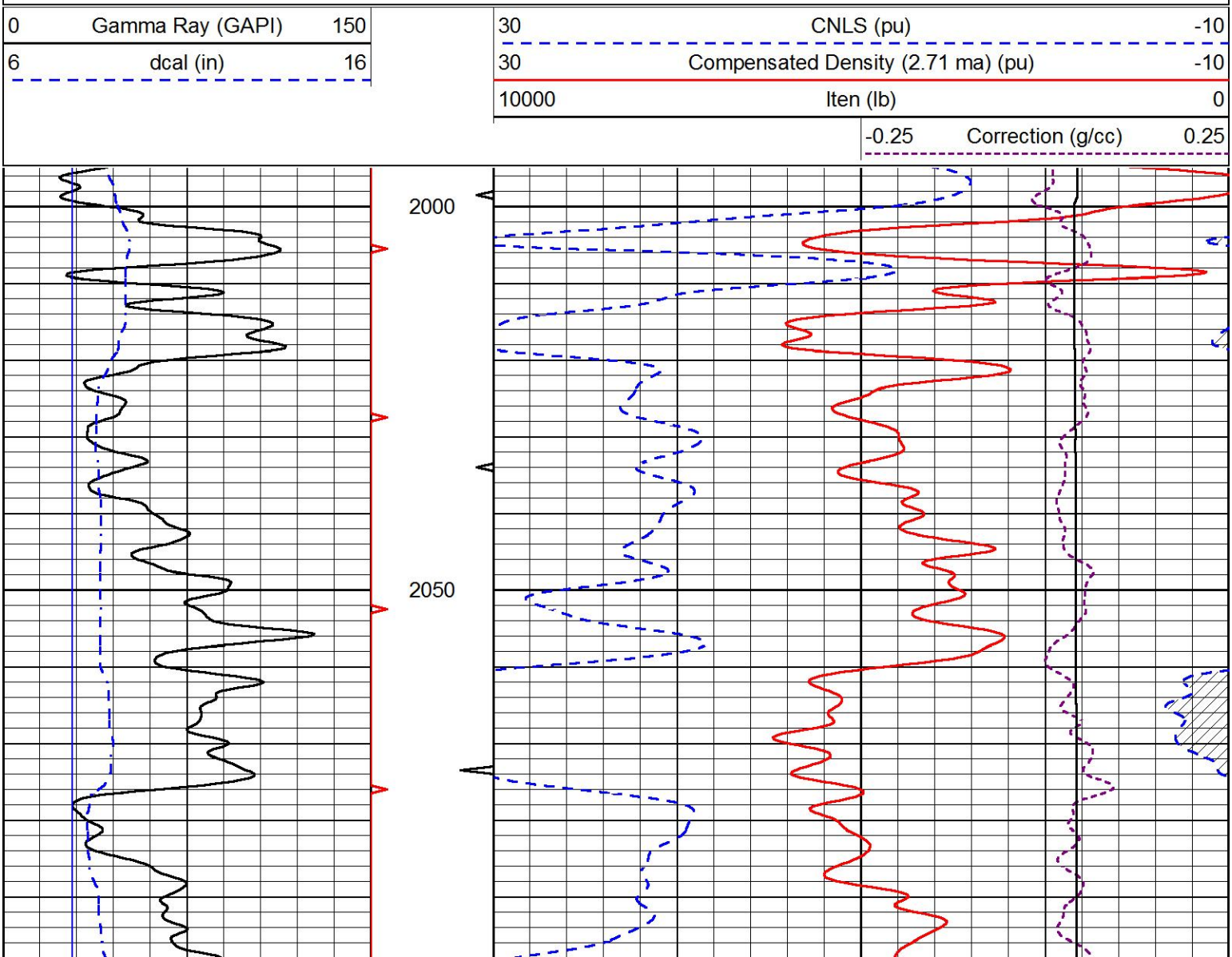


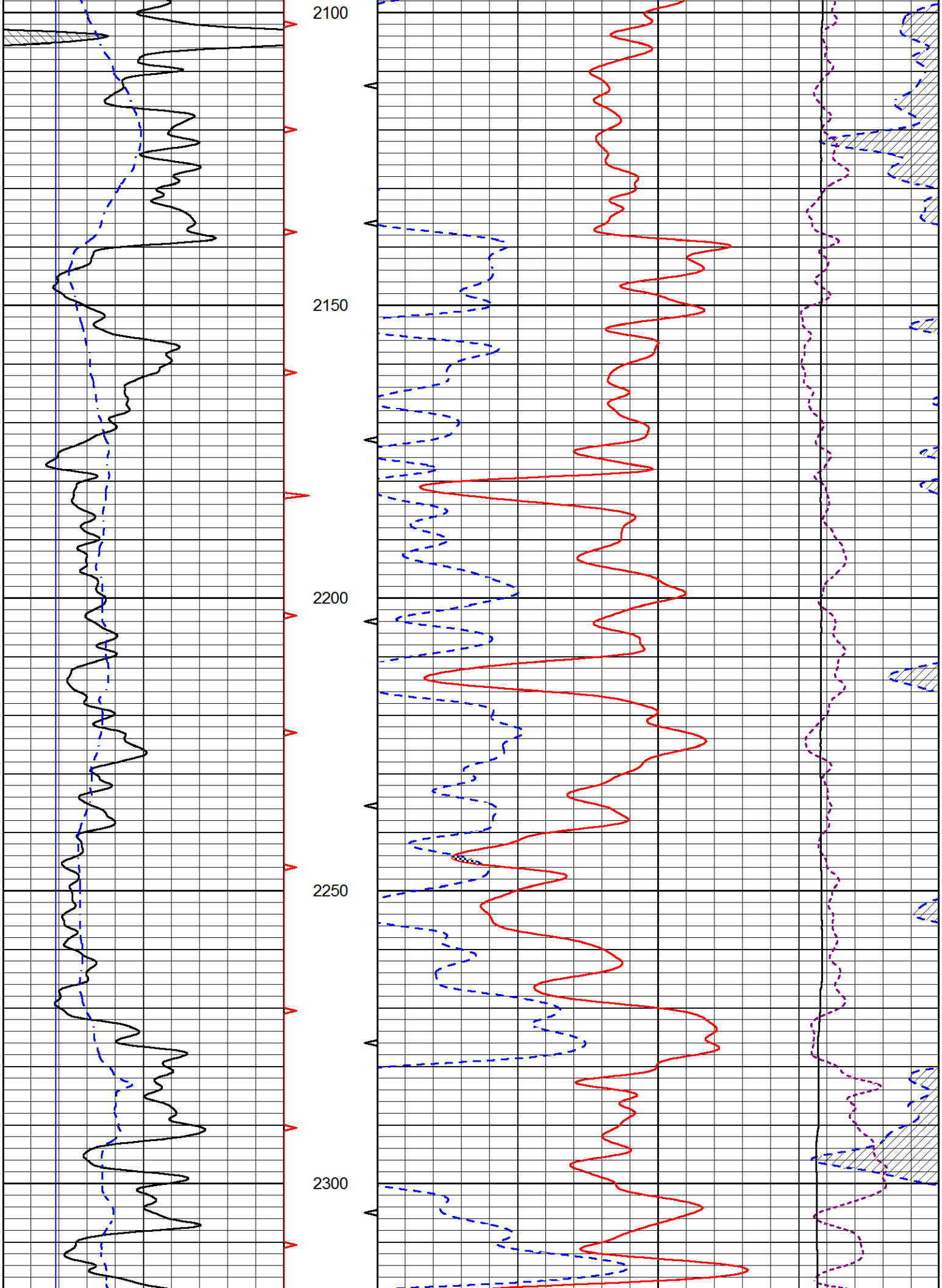
PIONEER

Pioneer Energy Services

Main Pass

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Presentation Format	cndlspec
Dataset Creation	Mon Apr 06 12:08:03 2015
Charted by	Depth in Feet scaled 1:240

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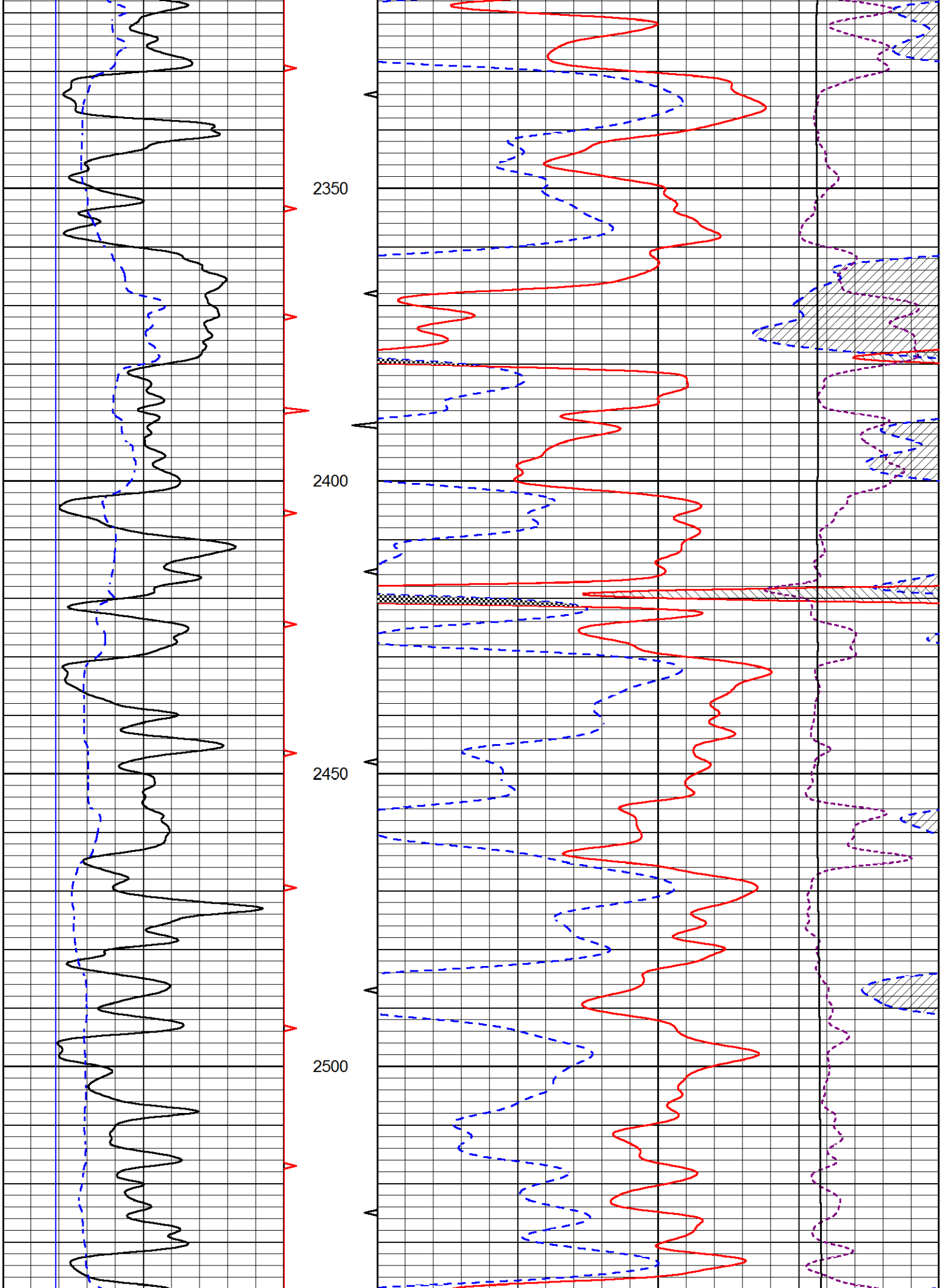
2150
2200
2250
2300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2450
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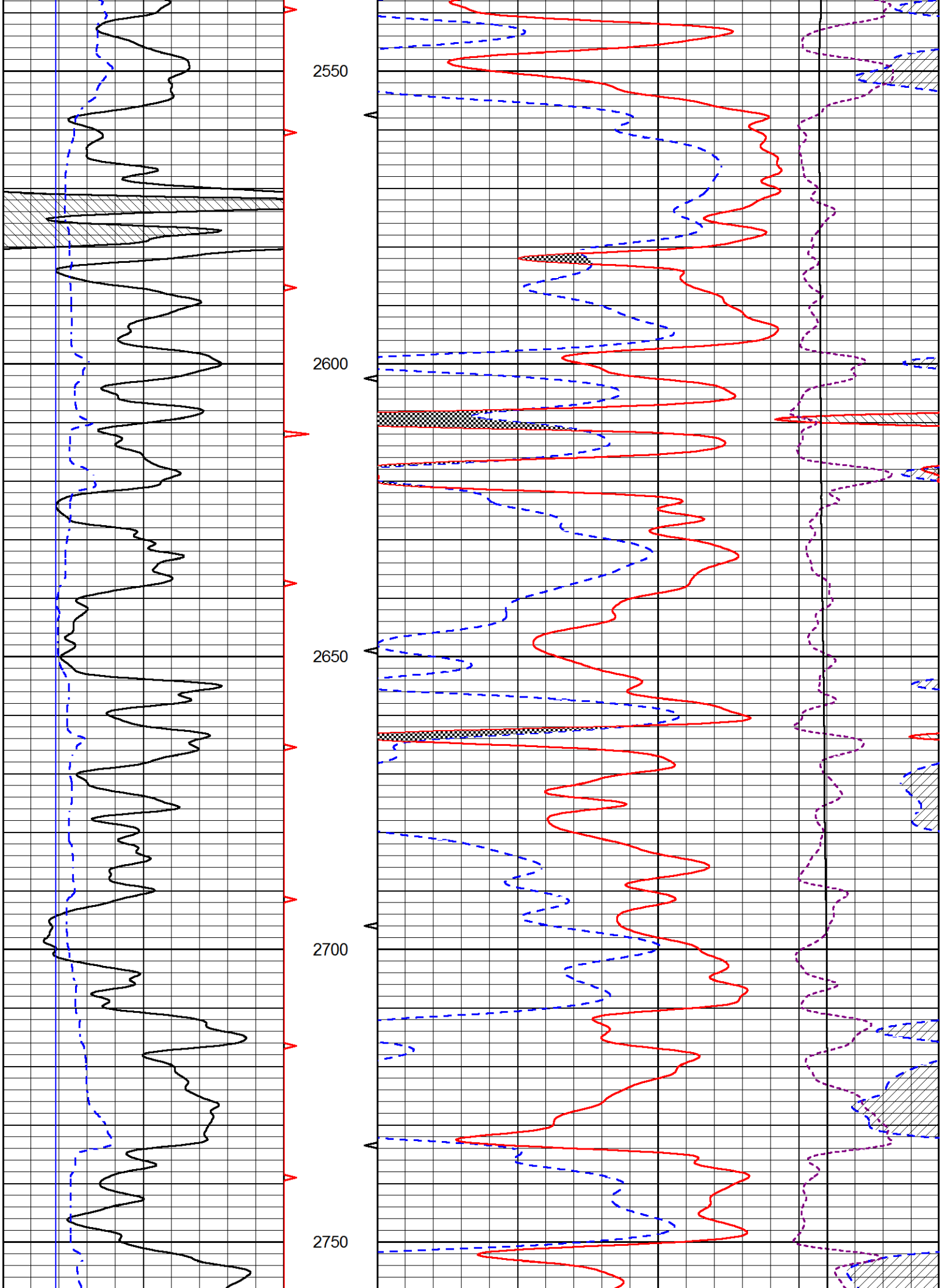
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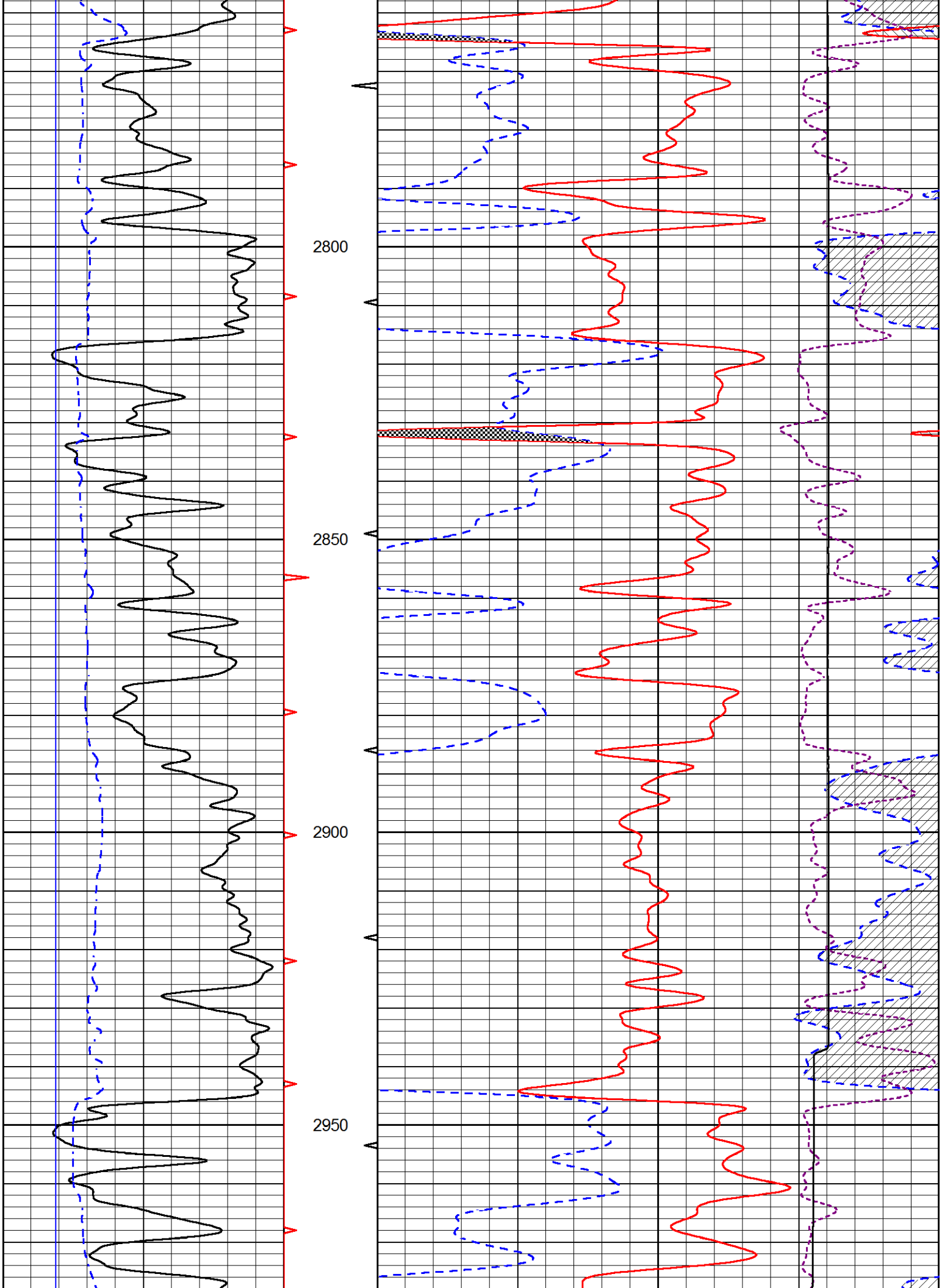
2650
2700
2750


2800
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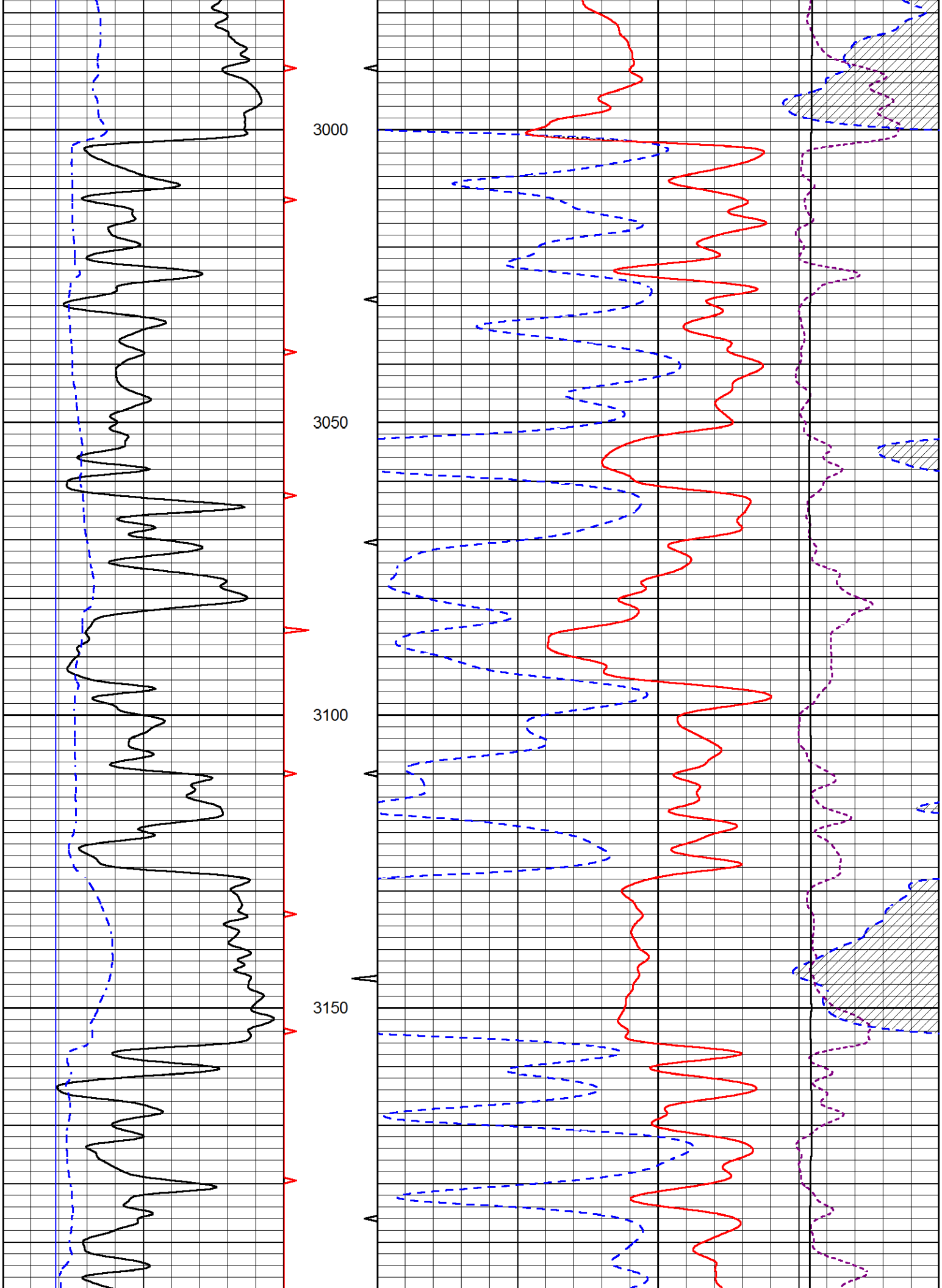
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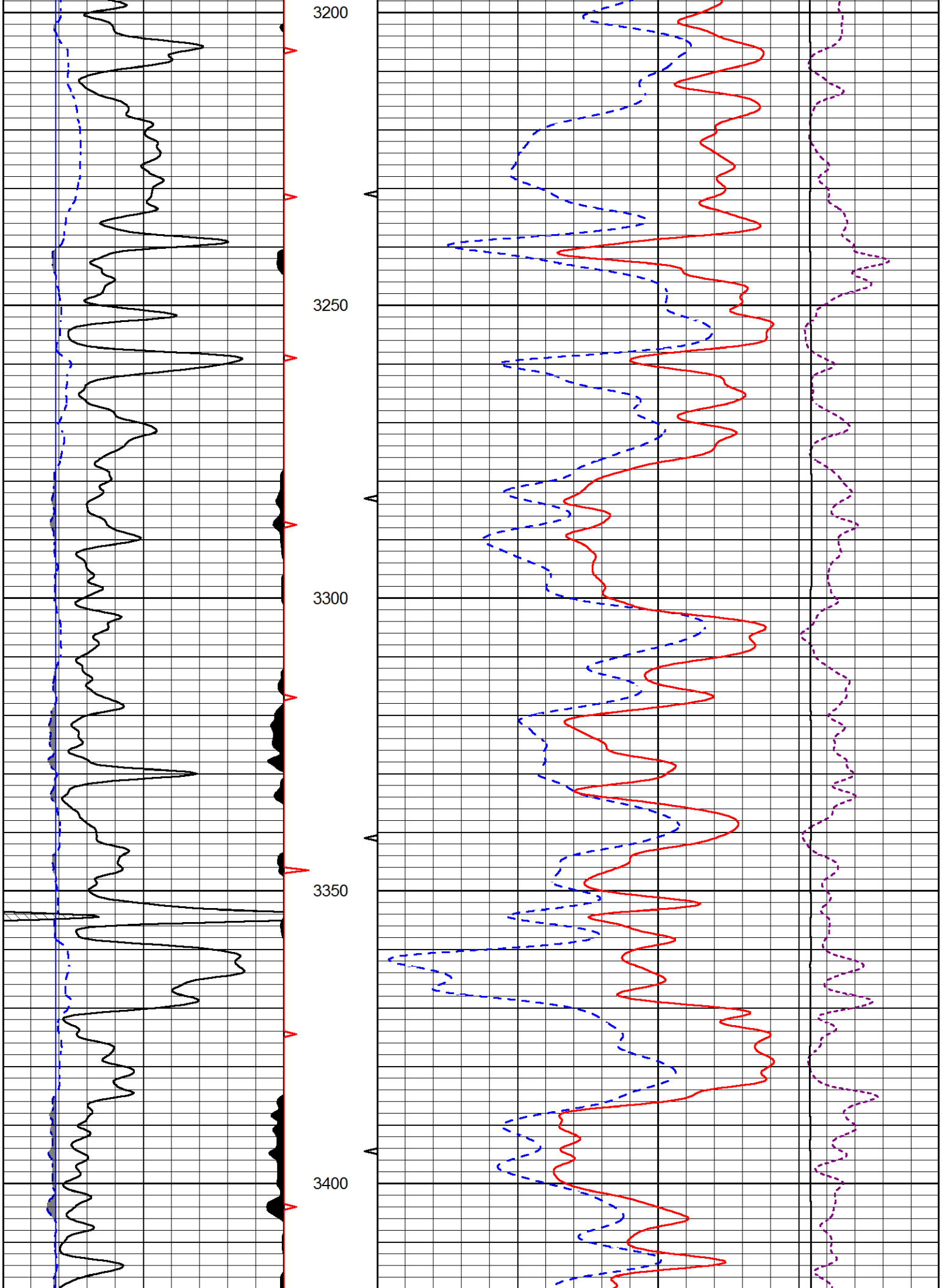
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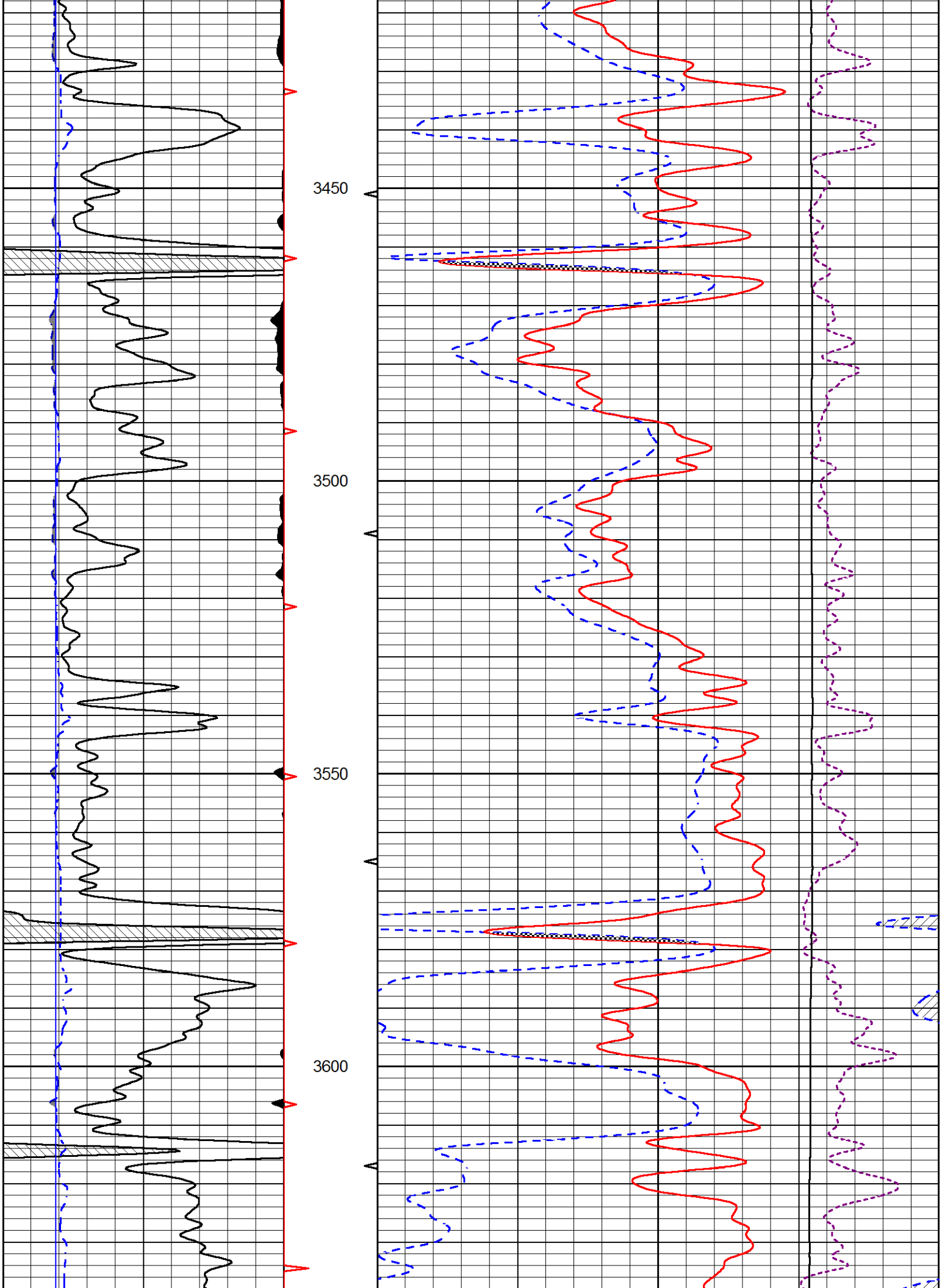
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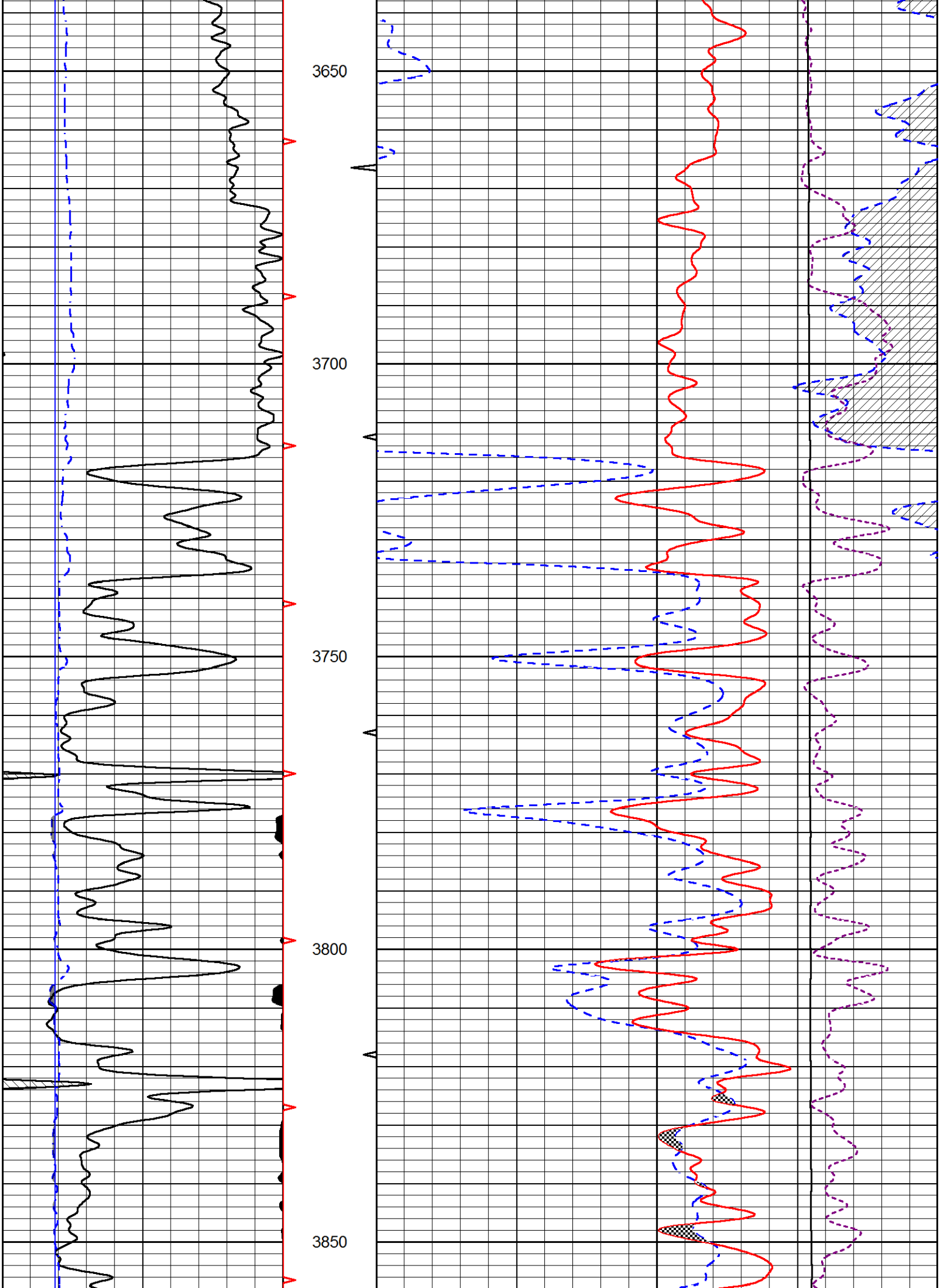
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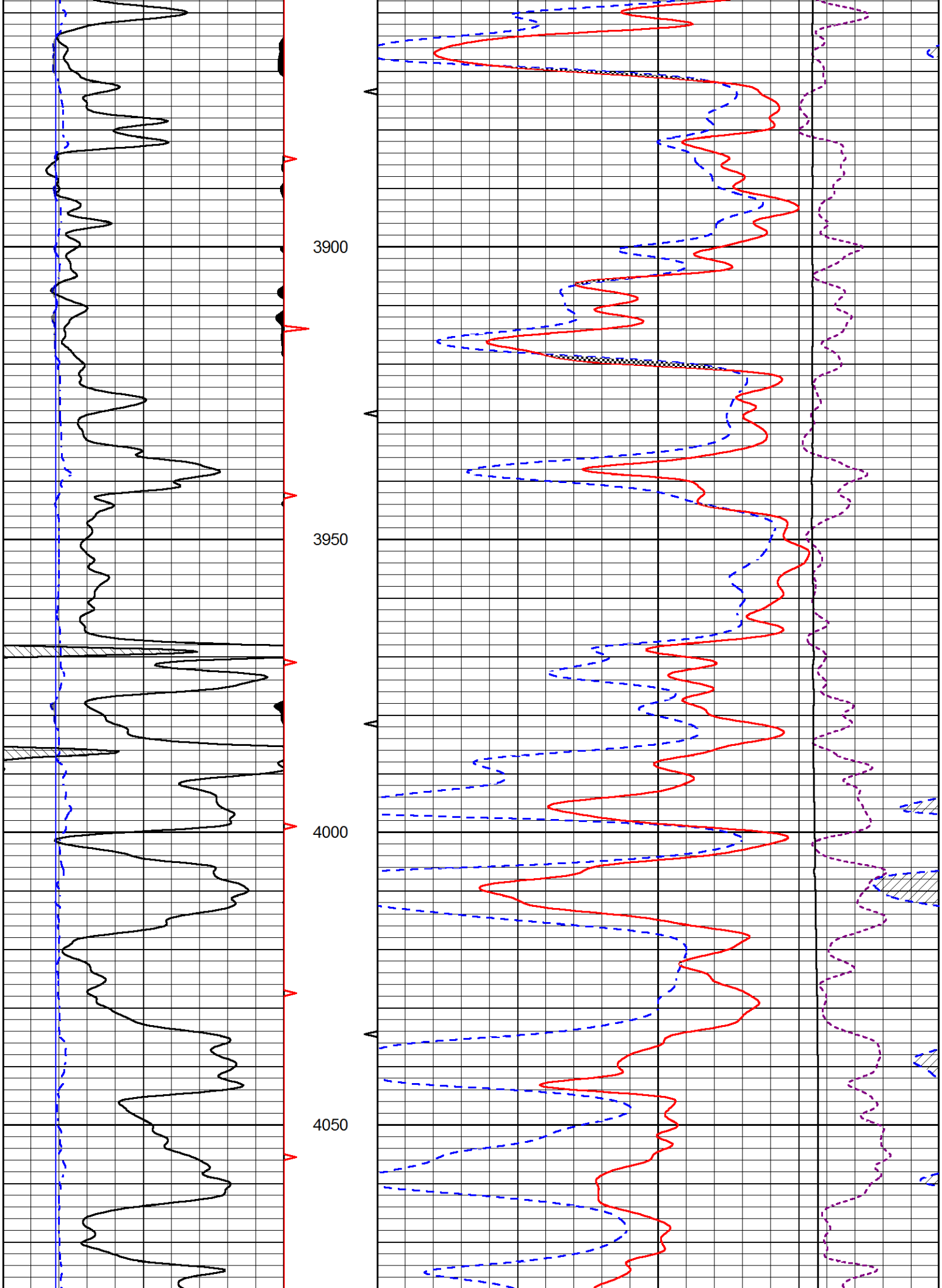
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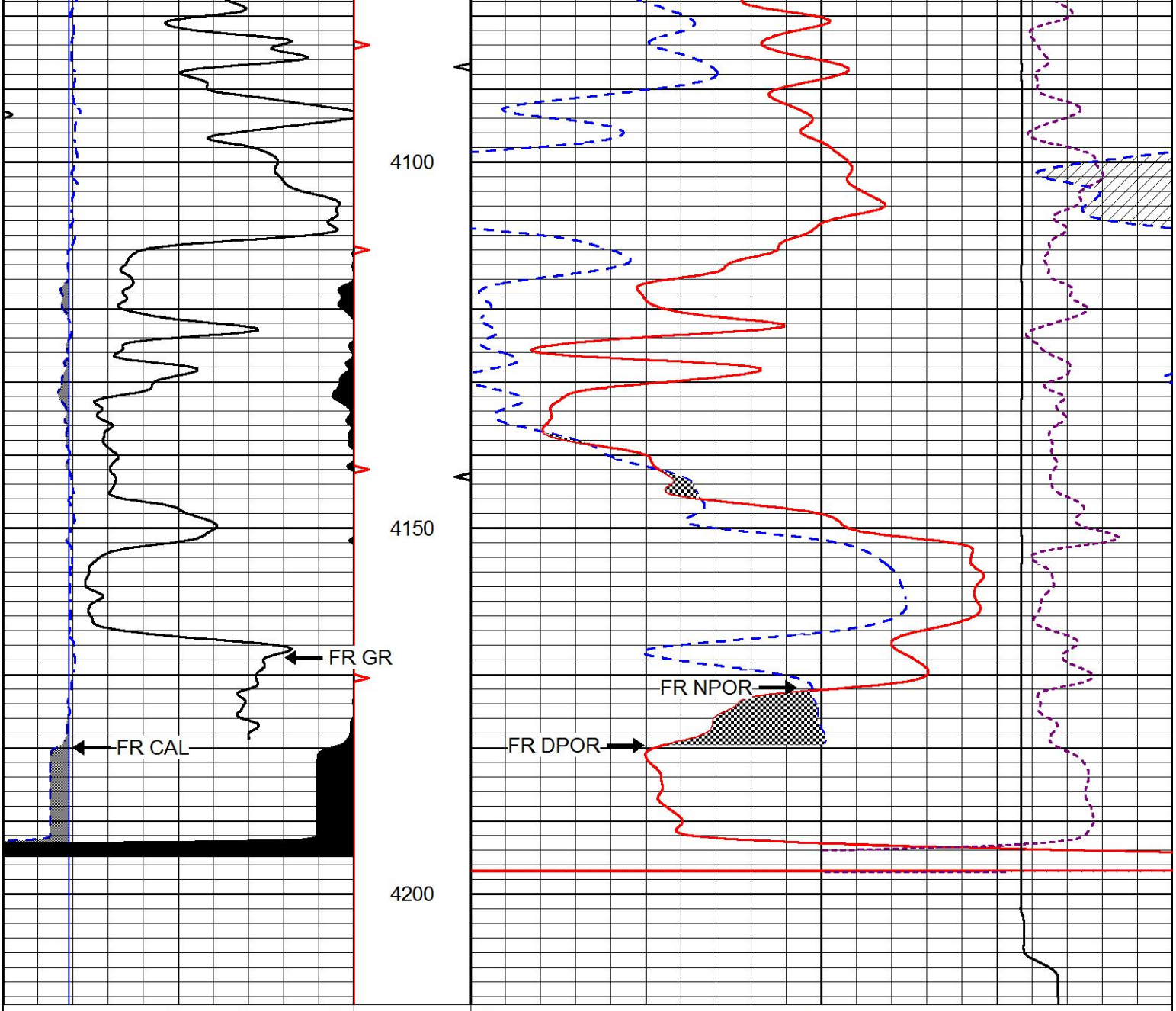


0	Gamma Ray (GAPI)	150
6	dcal (in)	16

30	CNLS (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Iten (lb)	0
-0.25	Correction (g/cc)	0.25

PIONEER

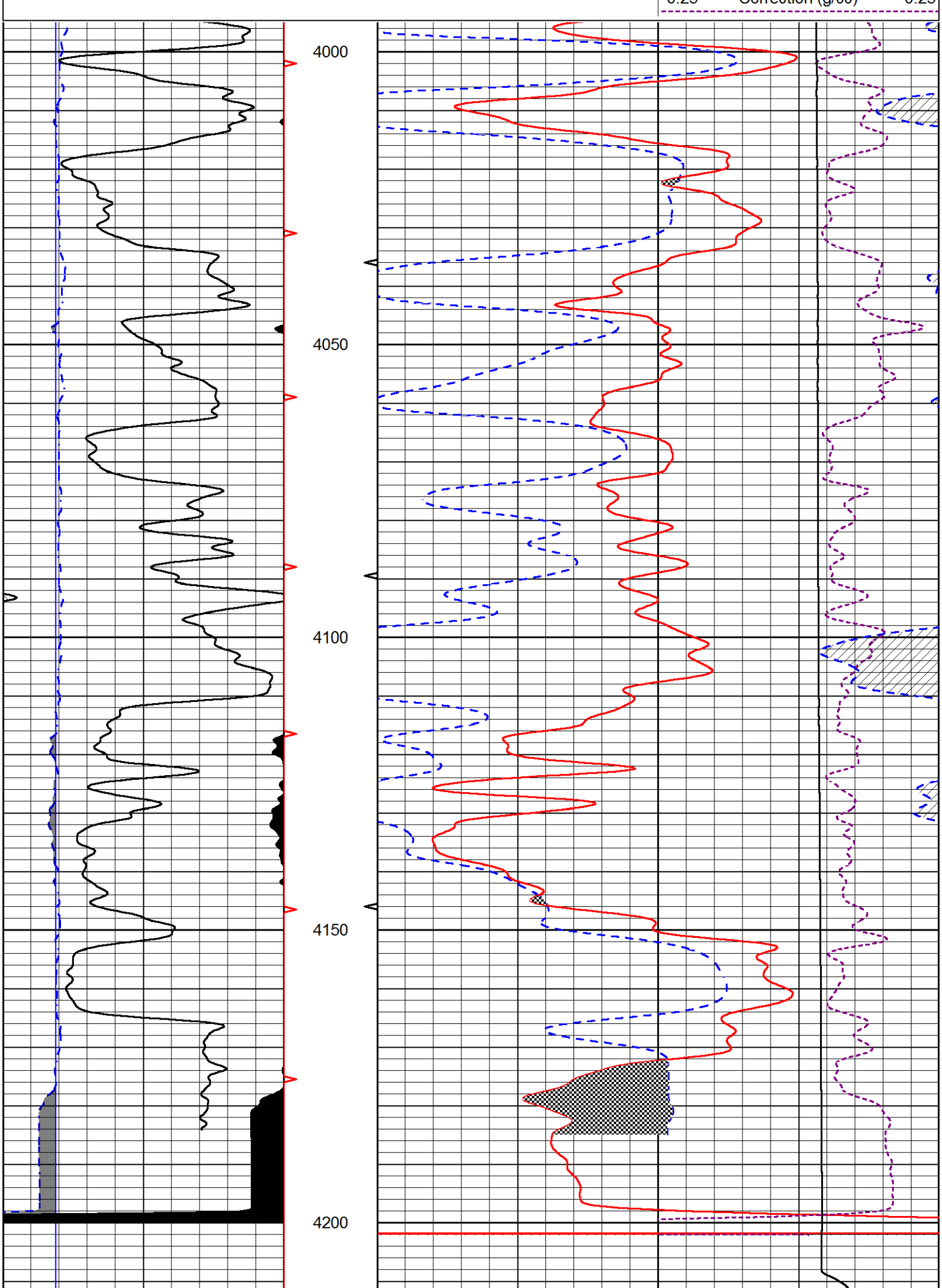
Pioneer Energy Services

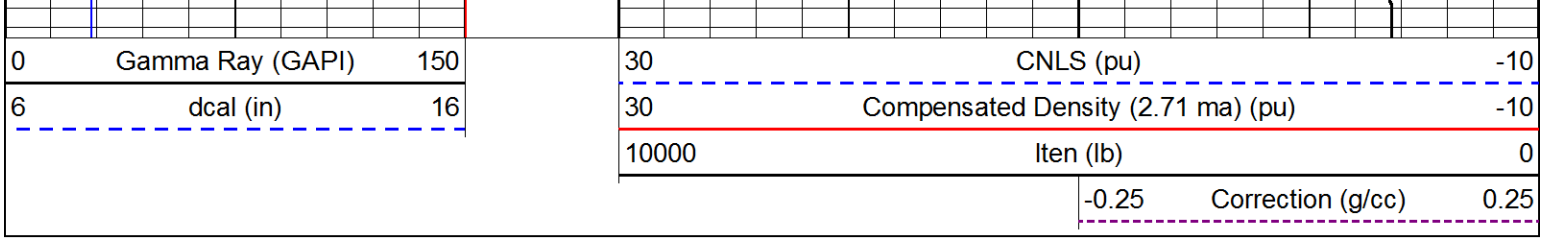
Repeat Section

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass4.1
Presentation Format	cndlspec
Dataset Creation	Mon Apr 06 11:55:44 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	dcal (in)	16

30	CNLS (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Iten (lb)	0
-0.25	Correction (g/cc)	0.25


0.25 Correction (g/cc) 0.25
4000
4050
4100
4150
4200



Calibration Report

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Dataset Creation	Mon Apr 06 12:08:03 2015

Dual Induction Calibration Report

Serial-Model:	1985-PSI1985
Surface Cal Performed:	

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.450	-29.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.340	-26.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSI Stackable ML
Performed:	Thu Nov 20 02:23:03 2014

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30500.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	35500.0000	-0.5000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-81.7750

Compensated Density Calibration Report

Serial-Model:	94-965-M&W
Source / Verifier:	/
Master Calibration Performed:	Wed Oct 29 06:02:28 2014
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5991.97	7785.64	cps
Aluminum	2.685	g/cc	1103.34	4957.57	cps

Spine Angle = 75.06

Density/Spine Ratio = 0.531

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.45

Compensated Neutron Calibration Report

Serial Number:	CNT-825
Tool Model:	M&W

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number:	233-M&W	
Tool Model:	M&W	
Performed:	Thu Aug 14 14:54:58 2014	
Calibrator Value:	100.0	GAPI
Background Reading:	65.0	cps
Calibrator Reading:	207.0	cps
Sensitivity:	0.5700	GAPI/cps

PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-185-23912-00-00

Company Kansas Petroleum Resources, LLC

Well Castle Peak #2

Field Dillwin West

County Stafford State Kansas

Location 1980' FSL & 660' FWL

Sec: 17 Twp: 24S Rge: 14W

Other Services
CNL/CDL
DIL

Elevation
K.B. 2005
D.F.
G.L. 1993

Permanent Datum	Ground Level	Elevation 1993	
Log Measured From	Kelly Bushing	12 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	4/6/2015		
Run Number	One		
Depth Driller	4210		
Depth Logger	4209		
Bottom Logged Interval	4208		
Top Log Interval	2000		
Casing Driller	8.625 @ 902		
Casing Logger	899		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6200		
Density / Viscosity	9.0 55		
pH / Fluid Loss	11.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.50 @ 65		
Rmf @ Meas. Temp	0.38 @ 65		
Rmc @ Meas. Temp	0.68 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.28 @ 118		
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	118		
Equipment Number	15		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Rod Andersen		

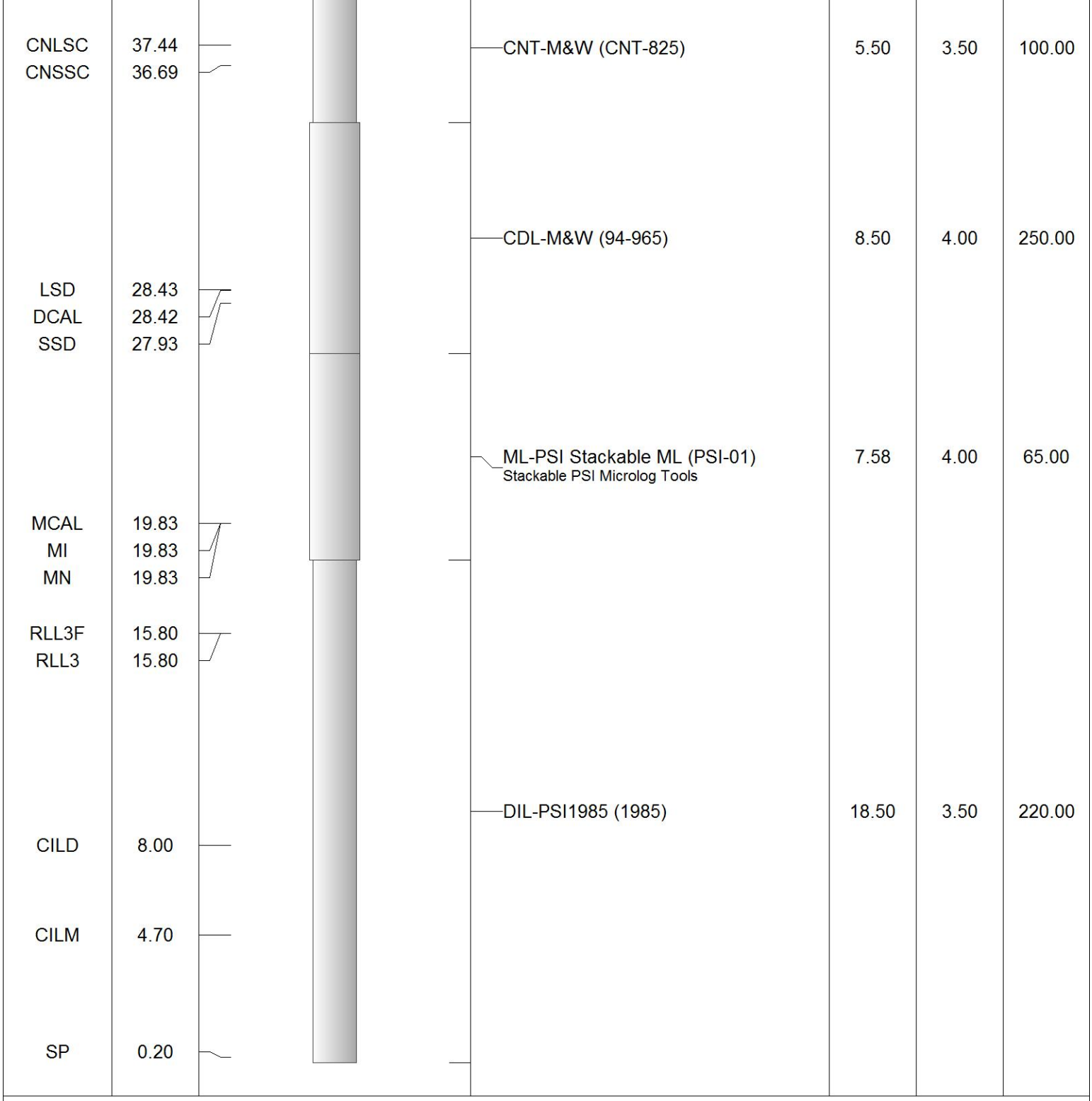
<<< Fold Here >>>

Comments

Thank you for using Pioneer Energy Services
785.625.3858

St. John (Hwy 281 & Hwy 50),
West to NW 80th, 1/4 North,
East into

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (233-M&W)	3.00	3.50	50.00

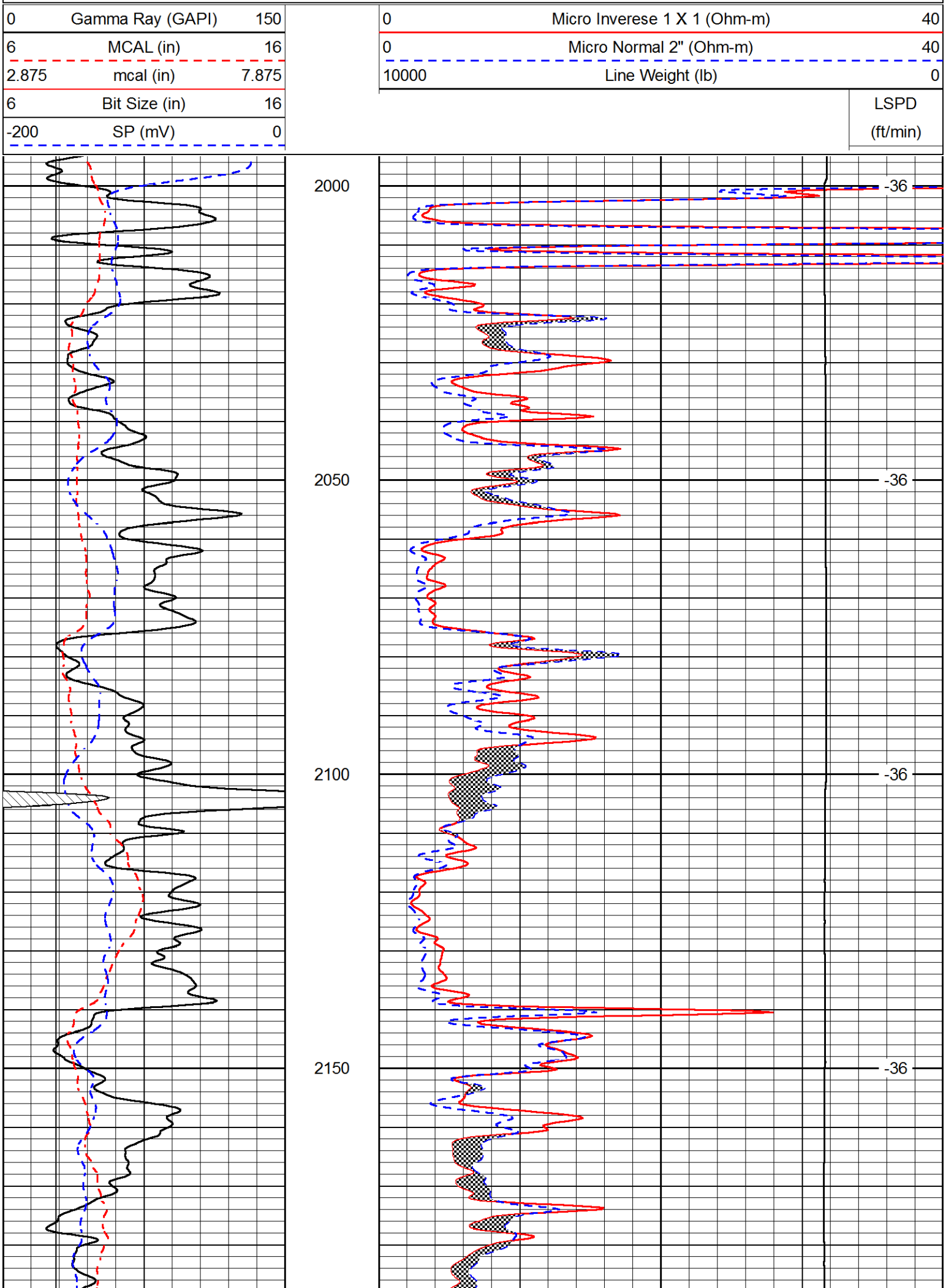


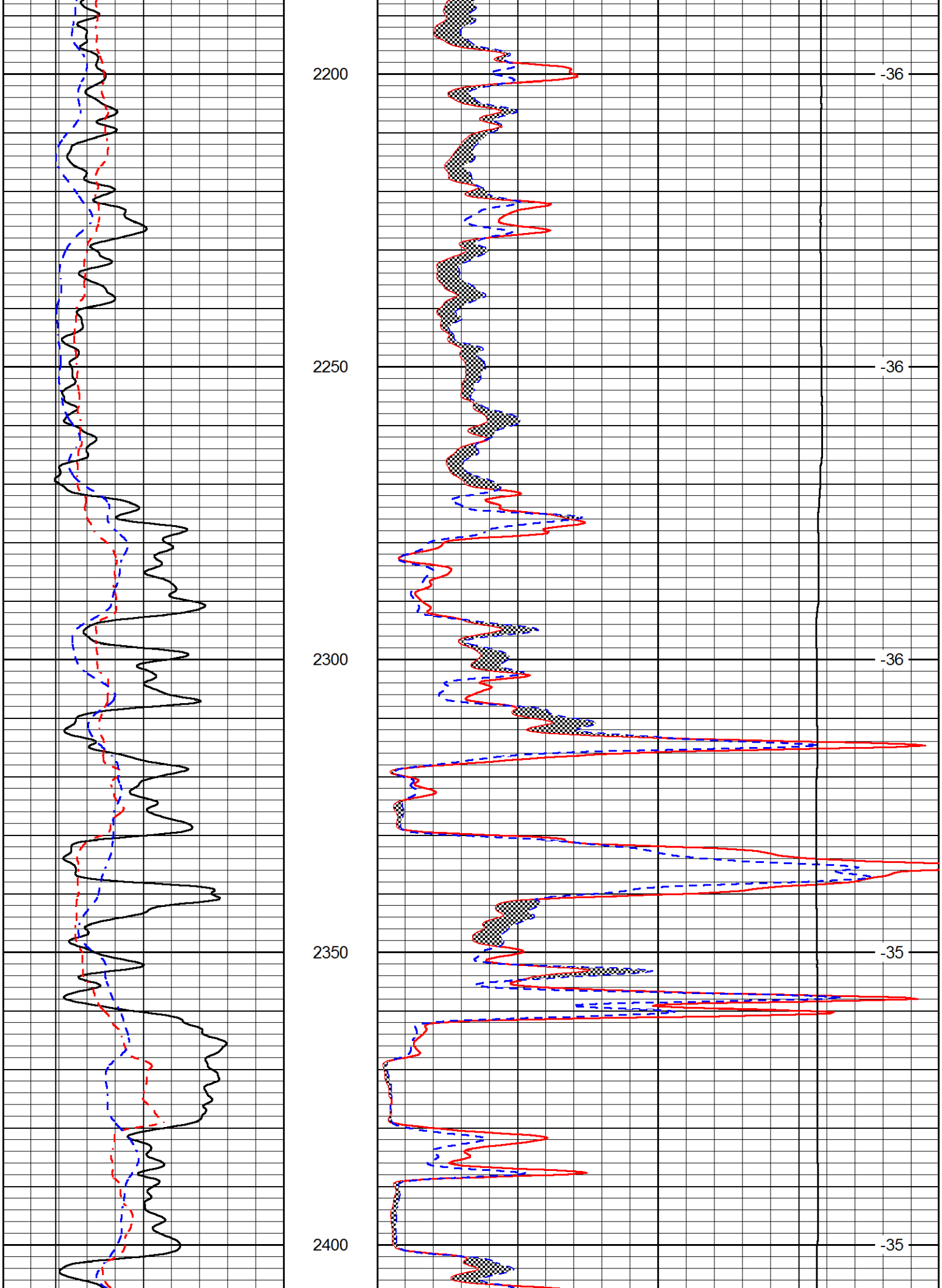
Dataset:	kansas petro_castle peak 2.db: field/well/stkml/pass5.8
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

PIONEER
Pioneer Energy Services

Main Pass

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Presentation Format	micro
Dataset Creation	Mon Apr 06 12:08:03 2015
Charted by	Depth in Feet scaled 1:240


0 Gamma Ray (GAPI) 150
6 MCAL (in) 16
2.875 mcal (in) 7.875
6 Bit Size (in) 16
-200 SP (mV) 0
0 Micro Inverese 1 X 1 (Ohm-m) 40
0 Micro Normal 2" (Ohm-m) 40
10000 Line Weight (lb) 0
LSPD (ft/min)
2000
2050
2100
2150
-36
-36
-36
-36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2400
-36
-36
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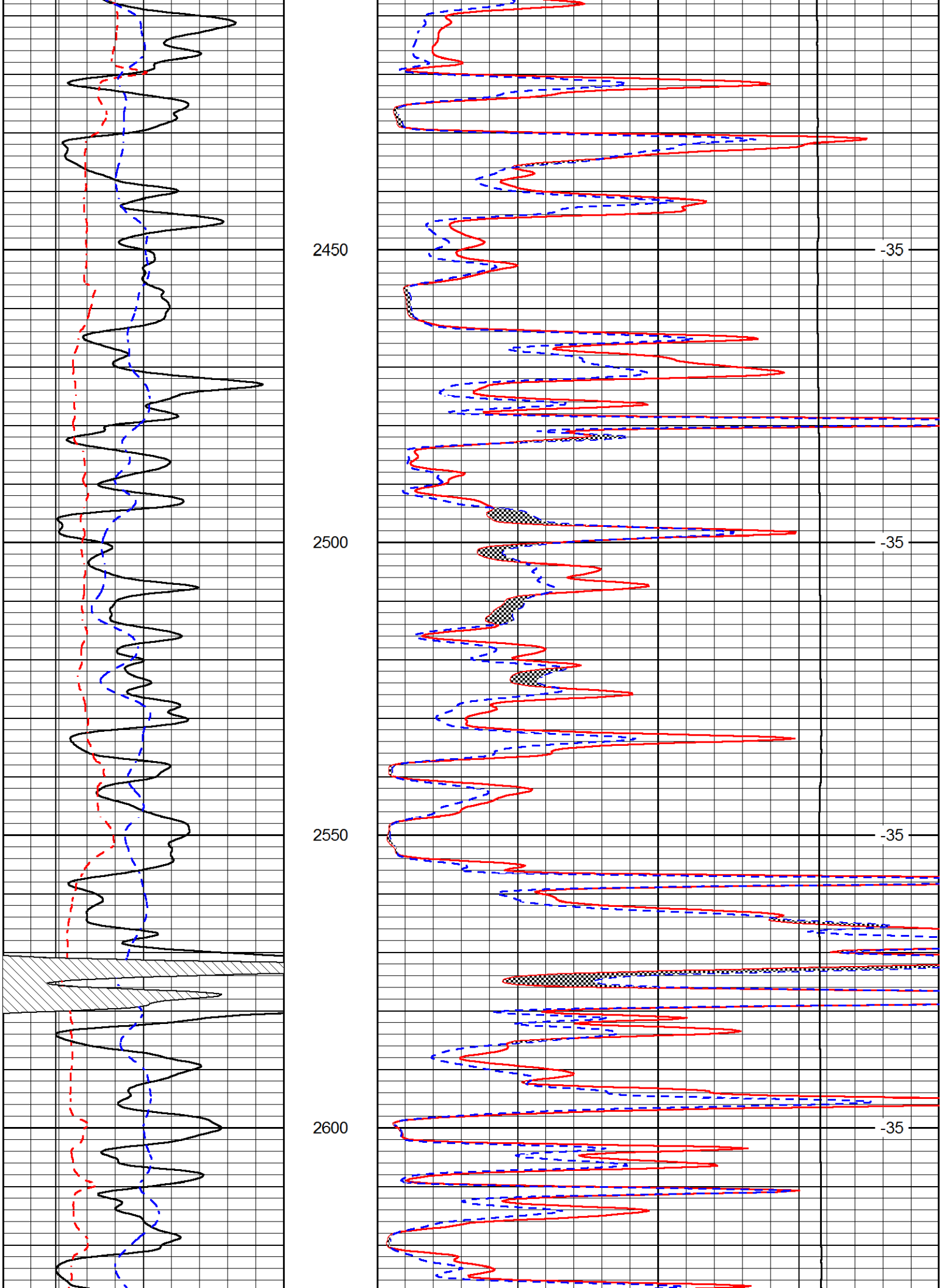
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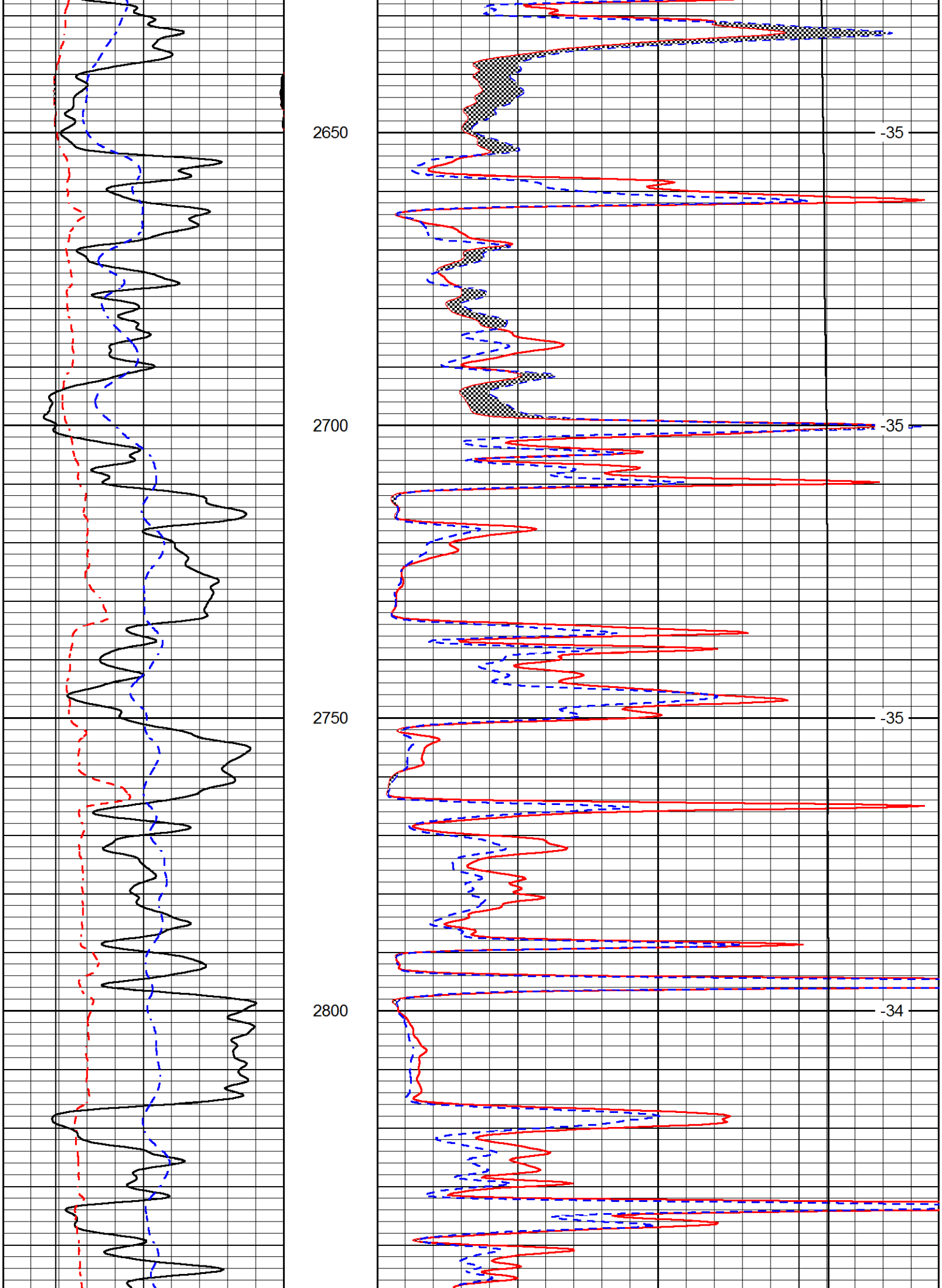
2500
-35
2550
-35
2600
-35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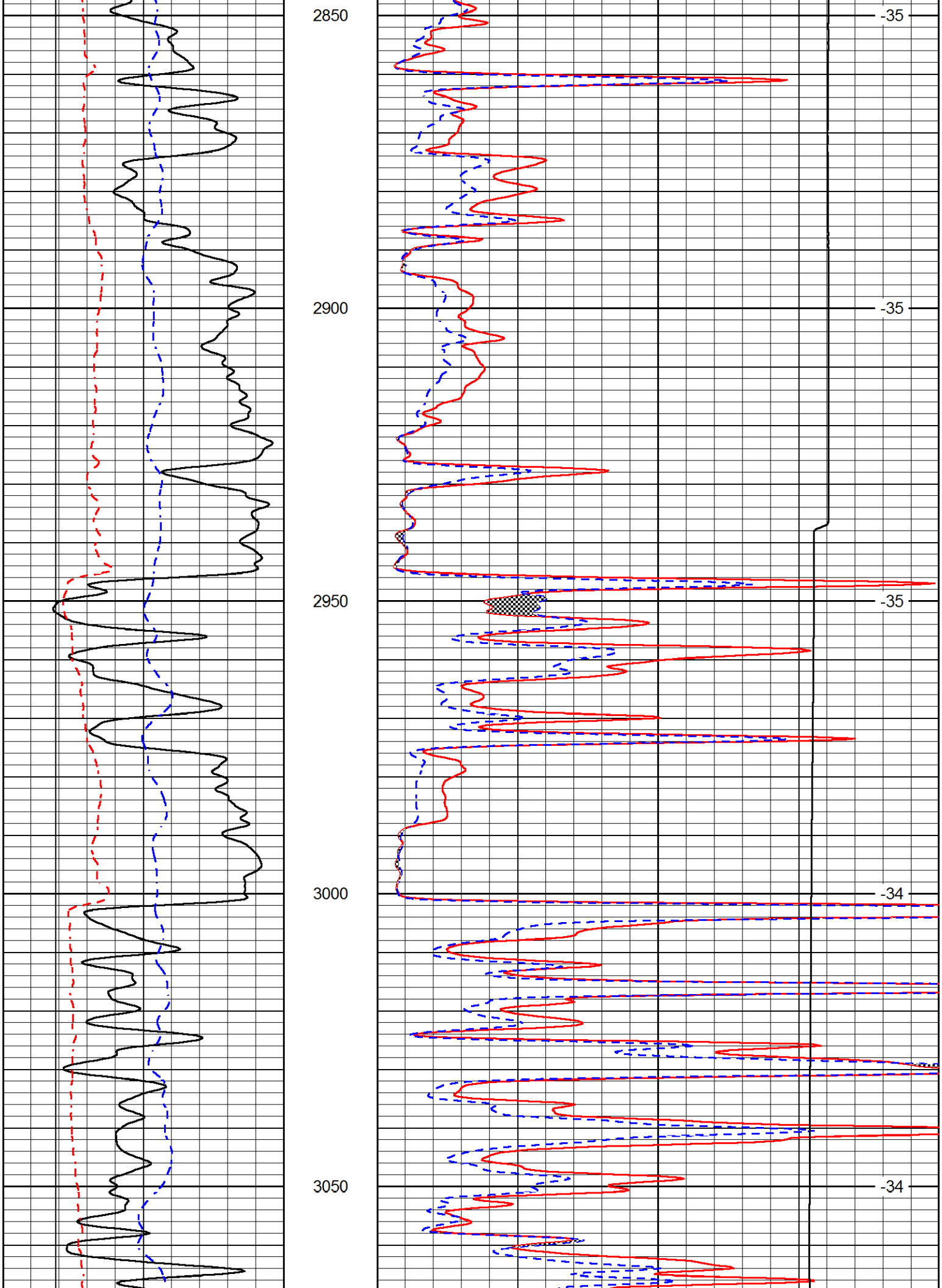
-34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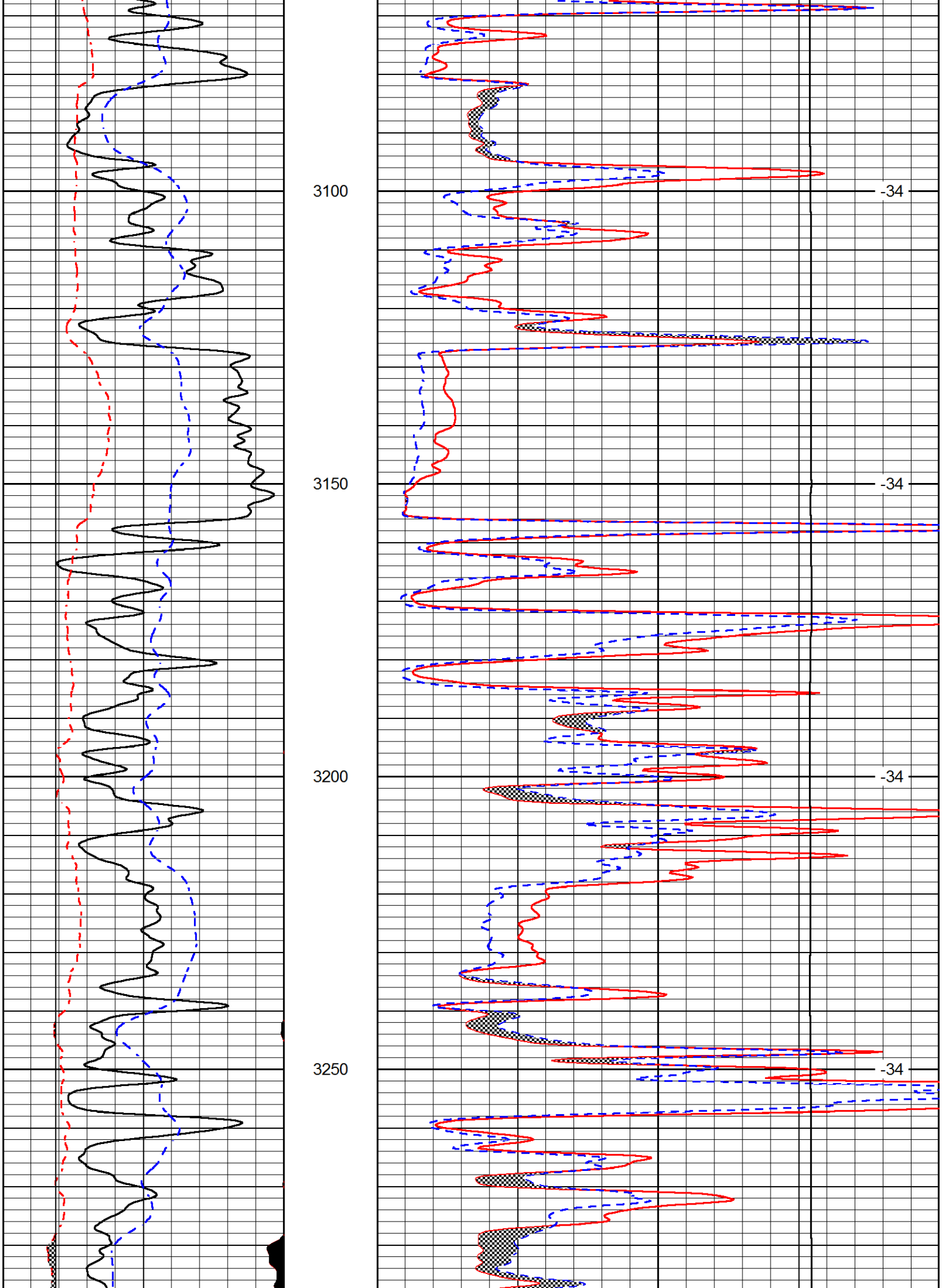
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3250
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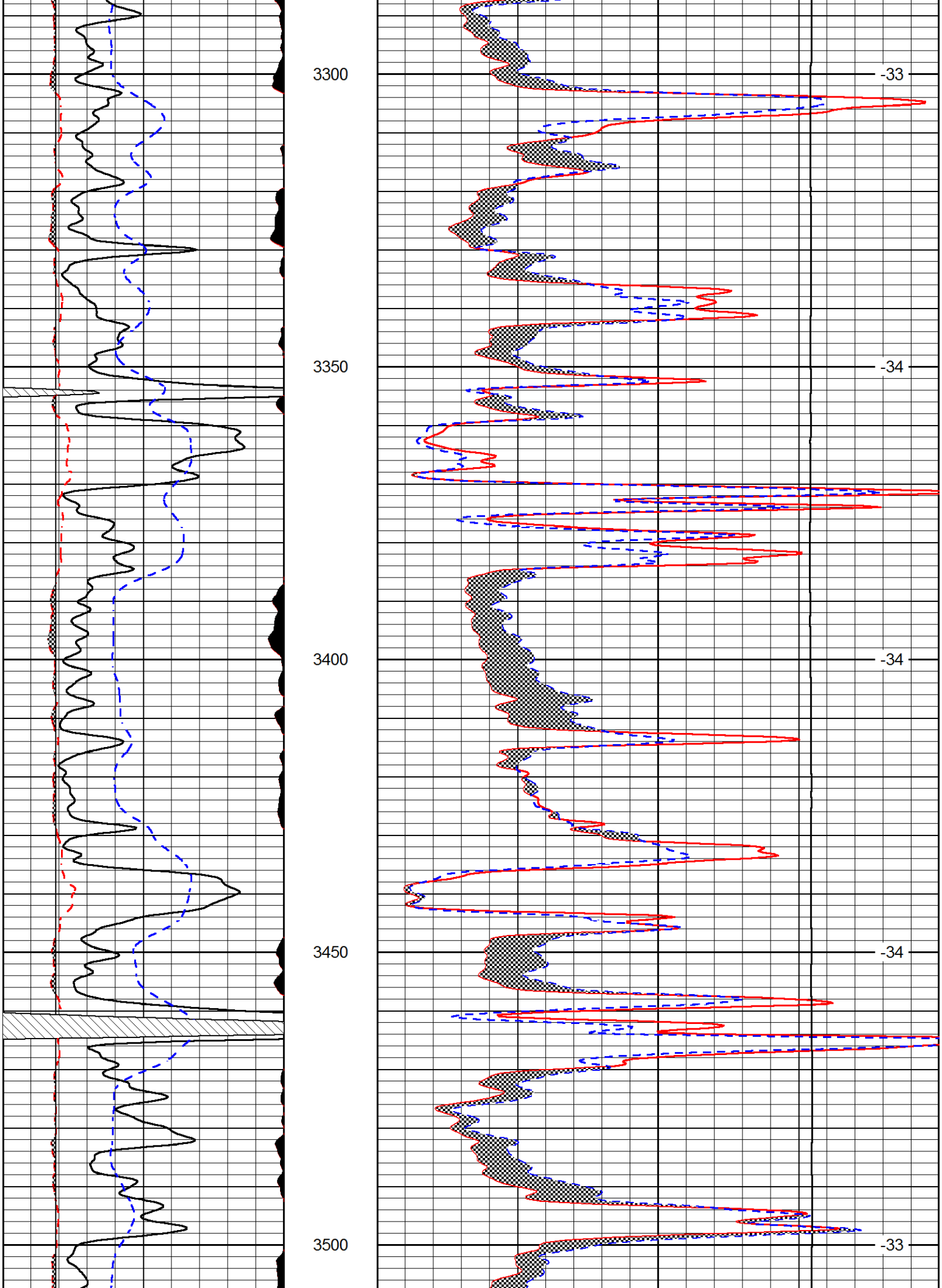
-34
-34
-34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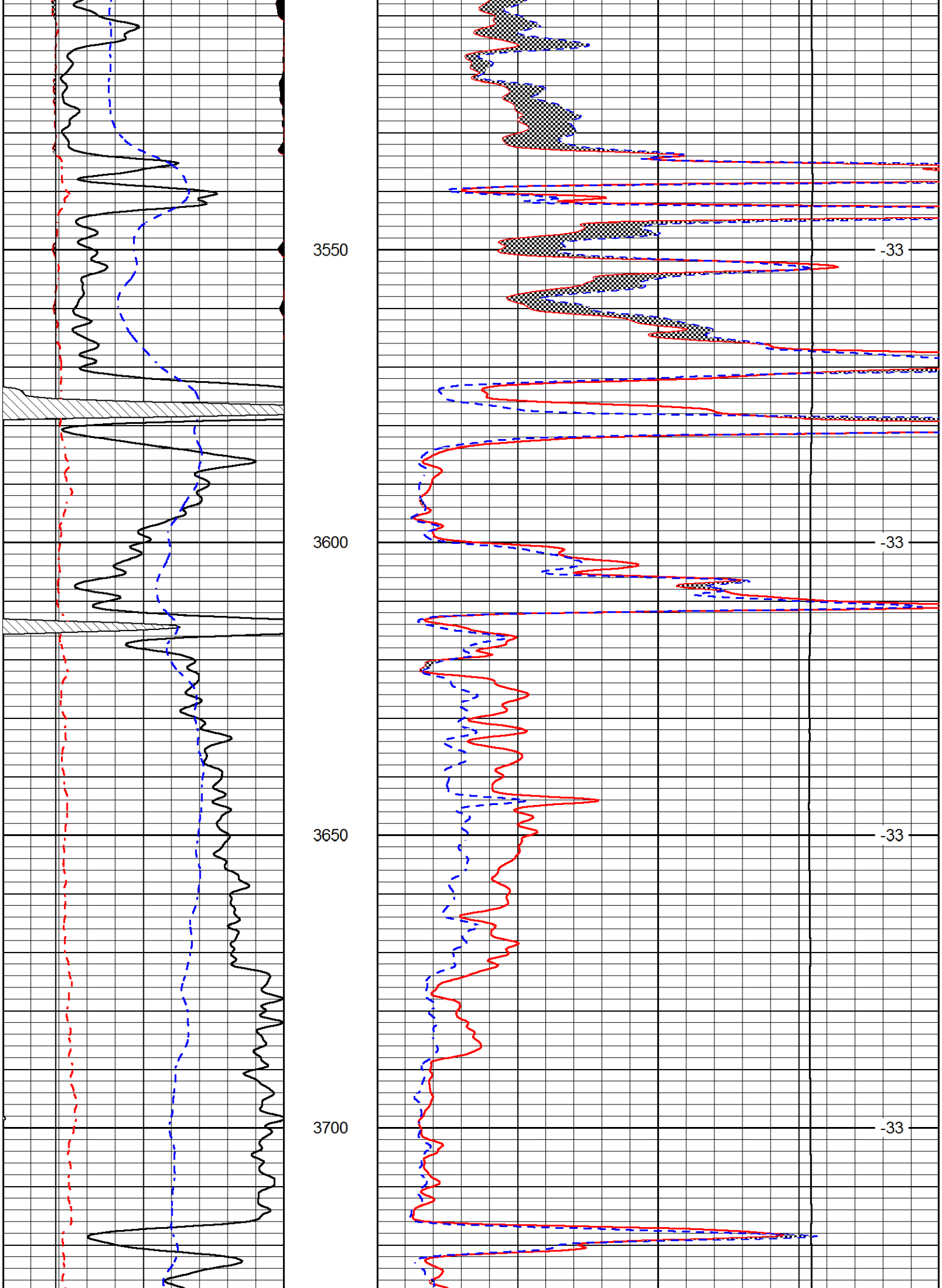
-34
-34
-33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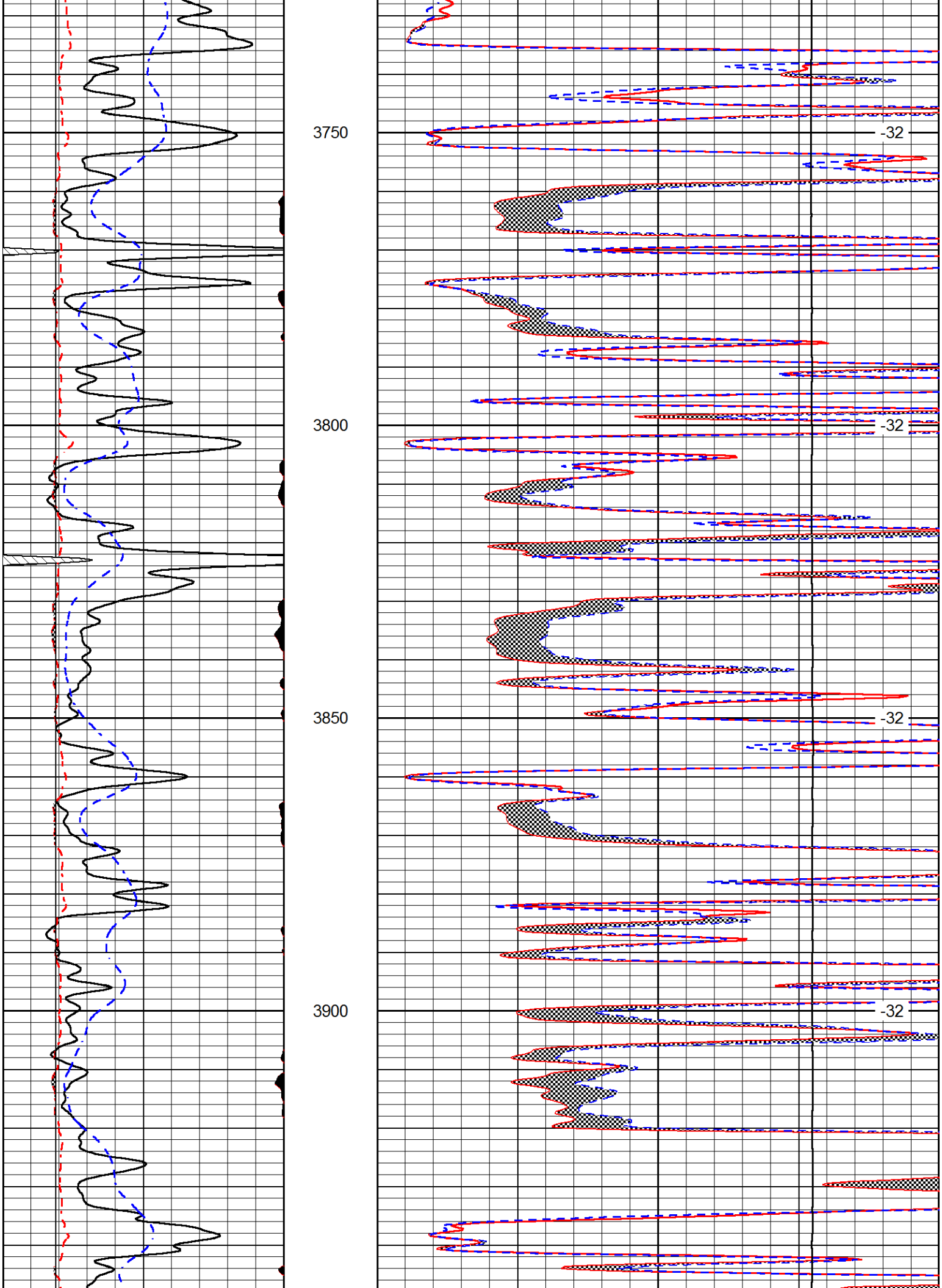
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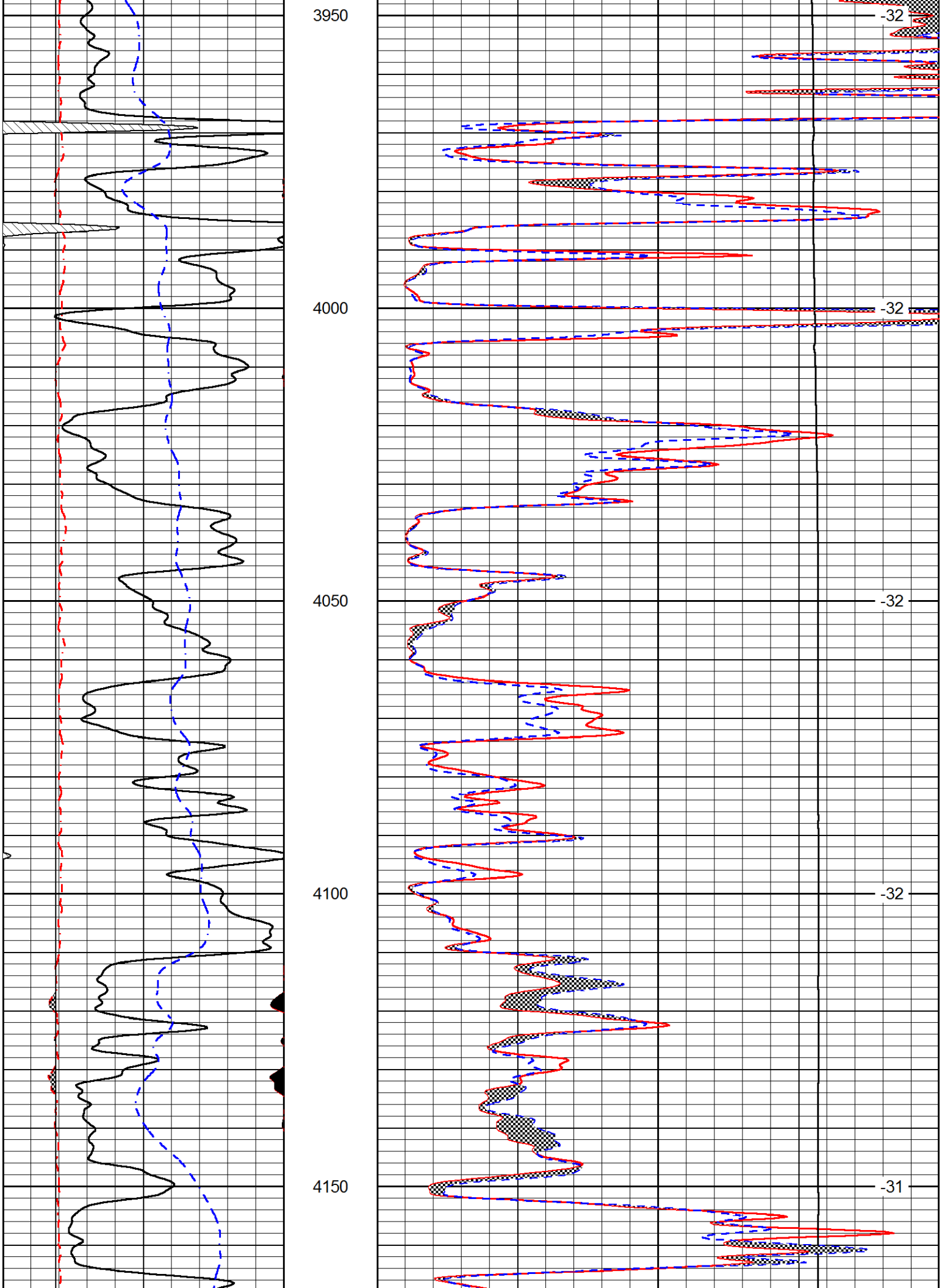
-32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4150
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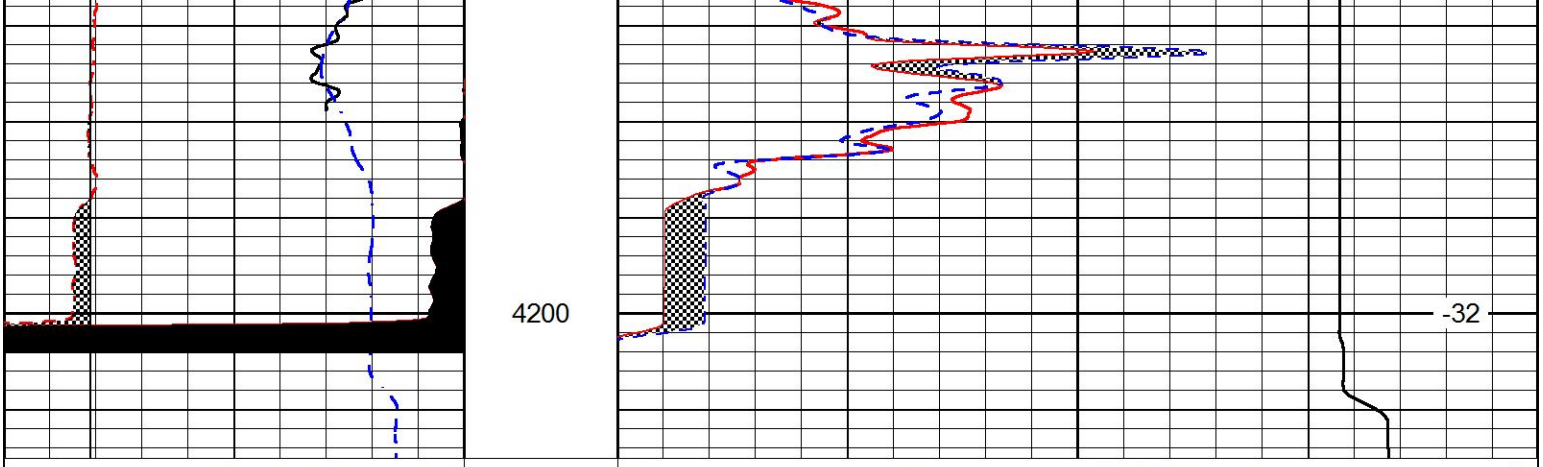
-32
-31



0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD (ft/min)

PIONEER

Pioneer Energy Services

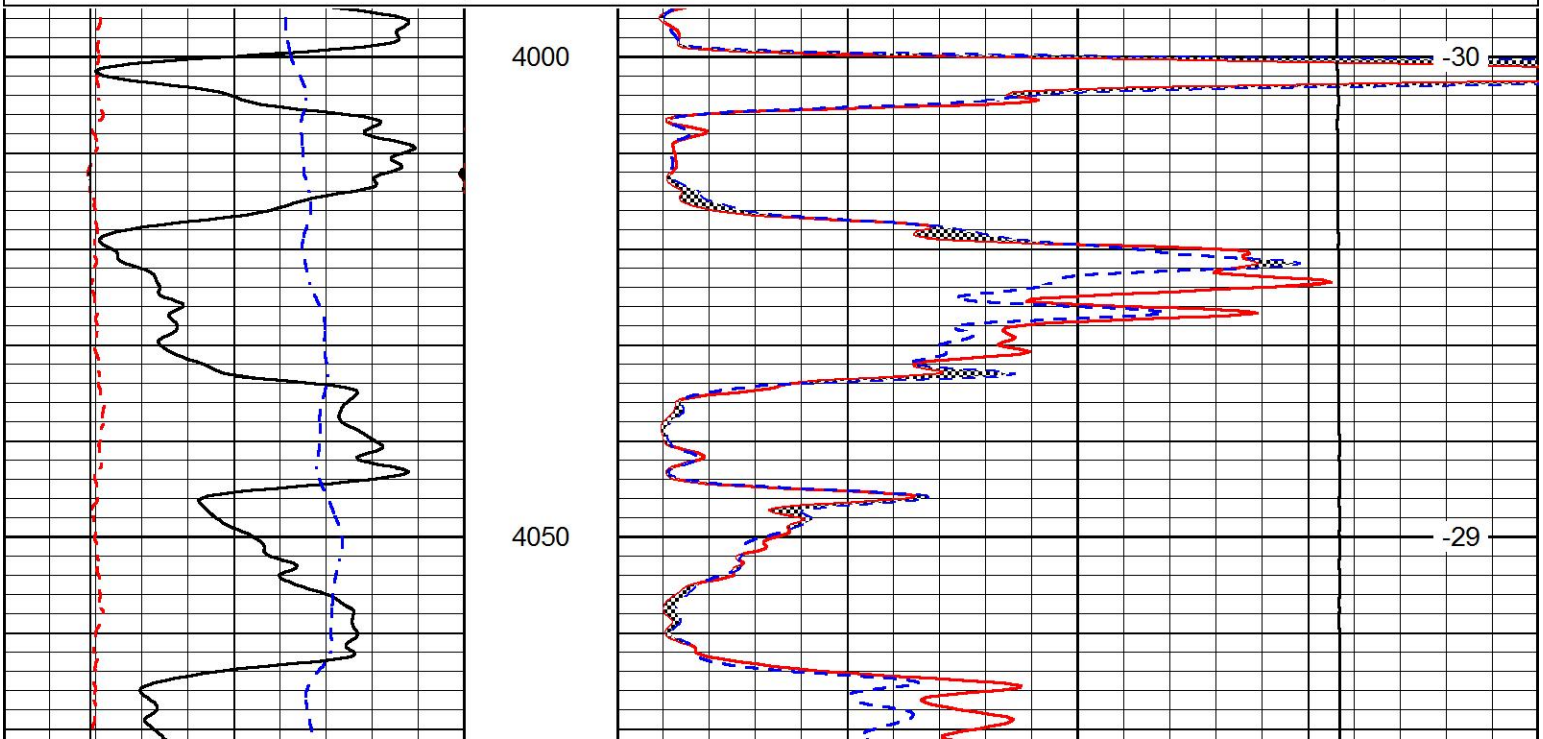
Repeat Section

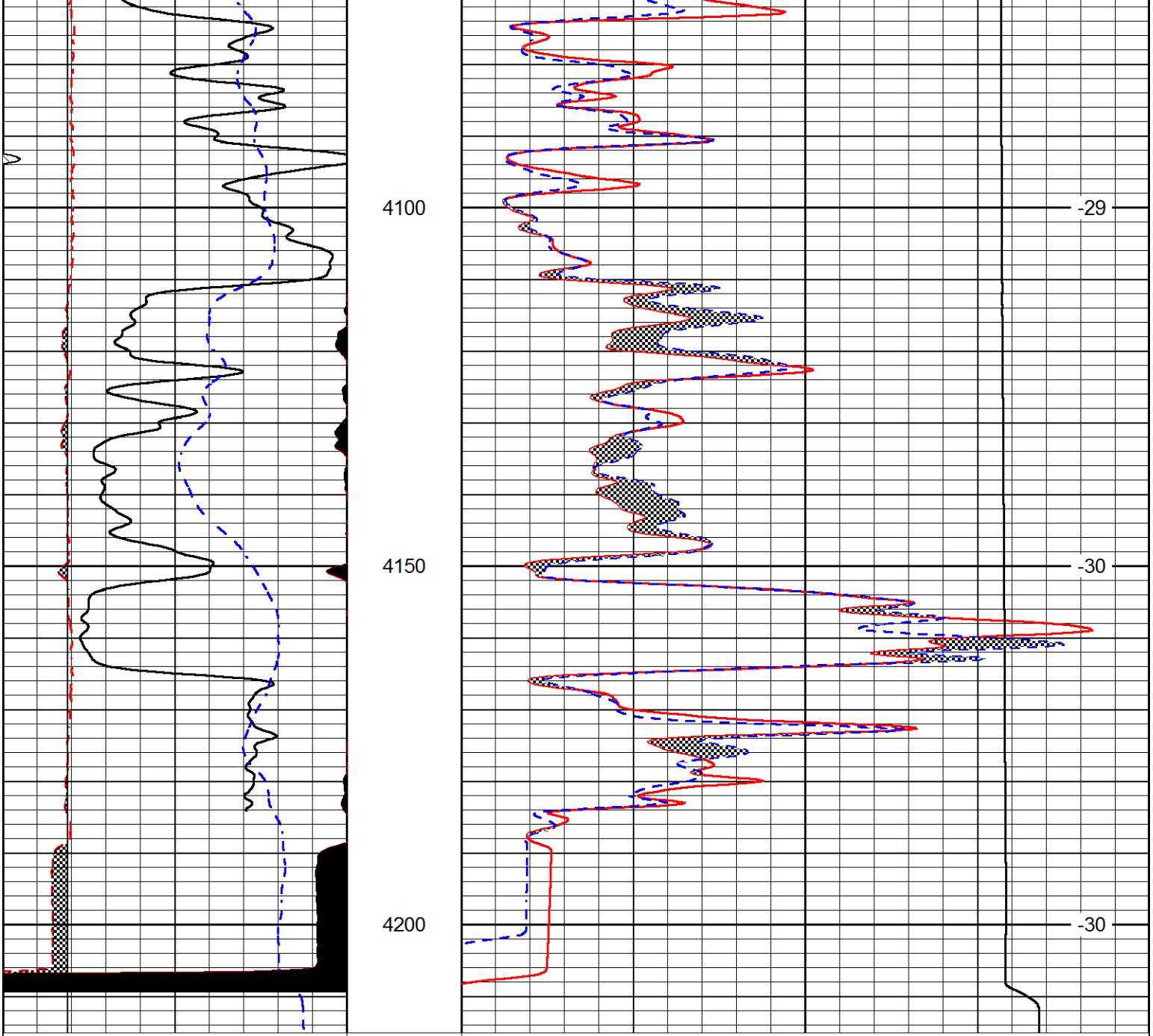
Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass4.1
Presentation Format	micro
Dataset Creation	Mon Apr 06 11:55:44 2015
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD (ft/min)





0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)

Calibration Report

Database File	kansas petro_castle peak 2.db
Dataset Pathname	stkml/pass5.1
Dataset Creation	Mon Apr 06 12:08:03 2015

Dual Induction Calibration Report

Serial-Model: 1985-PSI1985
Surface Cal Performed:

	Readings		References		Results	
Loop:	Air	Loop	Air	Loop	m	b

Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.450	-29.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.340	-26.000

Microlog Calibration Report

Serial-Model: PSI-01-PSI Stackable ML
Performed: Thu Nov 20 02:23:03 2014

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30500.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	35500.0000	-0.5000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-81.7750

Compensated Density Calibration Report

Serial-Model: 94-965-M&W
Source / Verifier: /
Master Calibration Performed: Wed Oct 29 06:02:28 2014
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5991.97	7785.64	cps
Aluminum	2.685	g/cc	1103.34	4957.57	cps

Spine Angle = 75.06 Density/Spine Ratio = 0.531

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.45

Compensated Neutron Calibration Report

Serial Number: CNT-825
Tool Model: M&W

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 233-M&W
Tool Model: M&W
Performed: Thu Aug 14 14:54:58 2014

Calibrator Value: 100.0 GAPI

Background Reading: 65.0 cps
Calibrator Reading: 207.0 cps

Sensitivity: 0.5700 GAPI/cps