LOG-TECH

DIGITAL LOG (785) 625-3858

Microresistivity Log

API No. 15-141-20415-00-00

Company Bruce Oil Company, L.L.C.

Well Schultze No. 1

Field

County Osborne State Kansas

Location S2 NE SW
1,650' FSL & 1,980' FWL

Sec: 23 Twp: 8S Rge: 14W

Other Services
CNL/CDL
DIL

Elevation
K.B. 1813
D.F.
G.L. 1808

Permanent Datum	Ground Level	Elevation 1808	
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	9/2/2010		
Run Number	Two		
Depth Driller	3640		
Depth Logger	3638		
Bottom Logged Interval	3637		
Top Log Interval	1400		
Casing Driller	8.625 @ 781		
Casing Logger	779		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7000		
Density / Viscosity	8.8 / 42		
pH / Fluid Loss	8.5 / 10.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.36 @ 78		
Rmf @ Meas. Temp	.27 @ 78		
Rmc @ Meas. Temp	.49 @ 78		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.25 @ 112		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	112		
Equipment Number	10		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Bob Peterson	Lonny Bruce	

<<< Fold Here >>>

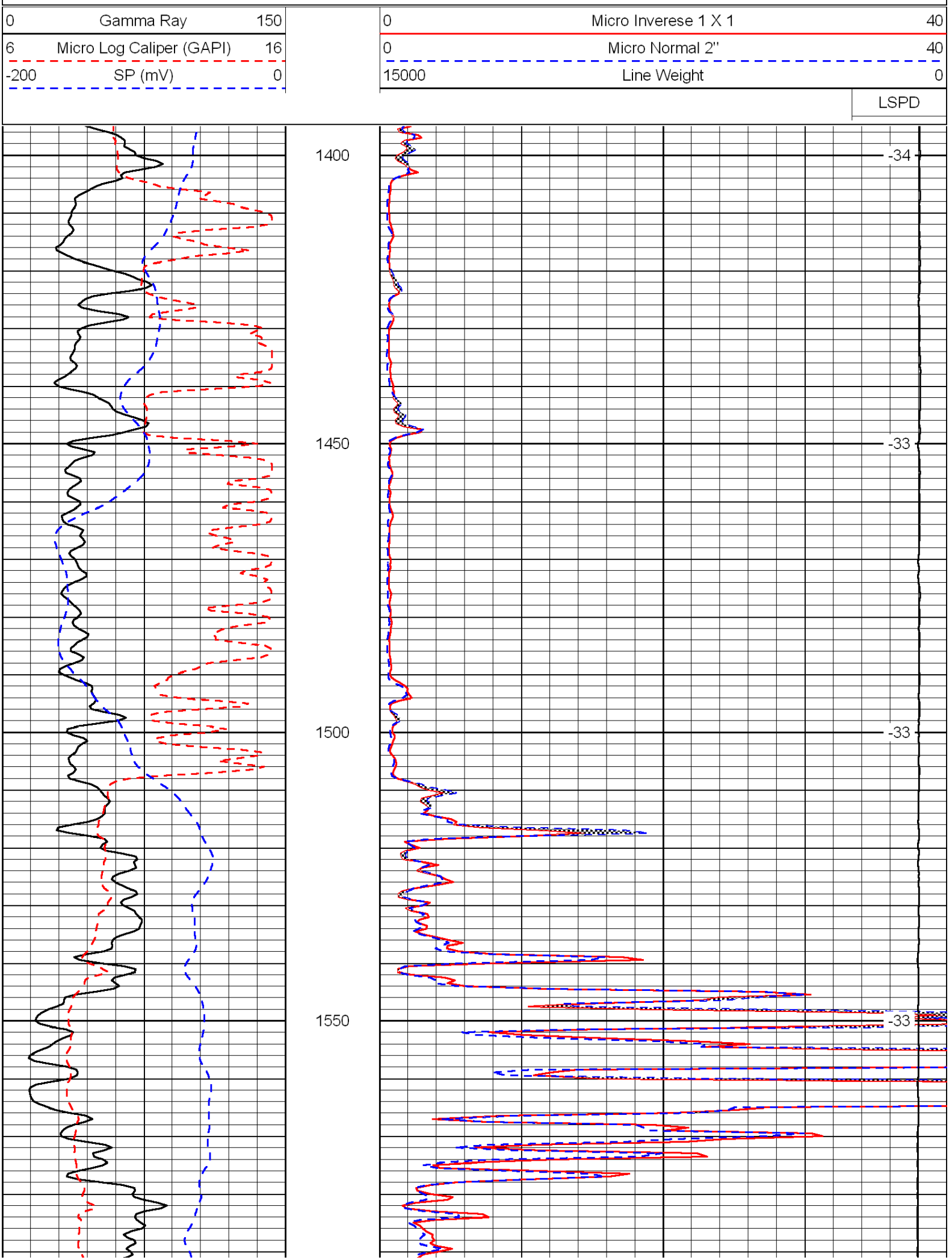
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

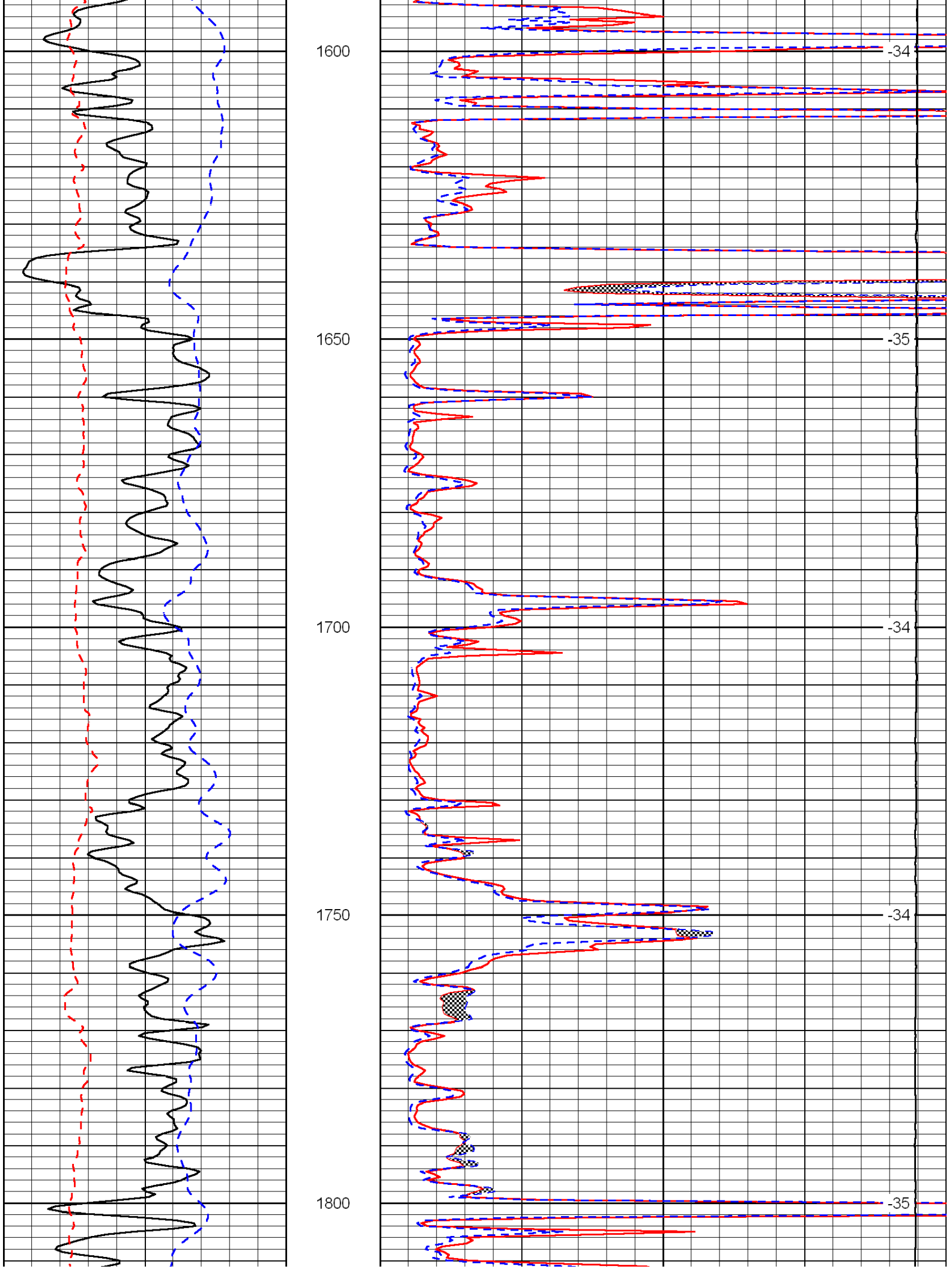
Comments

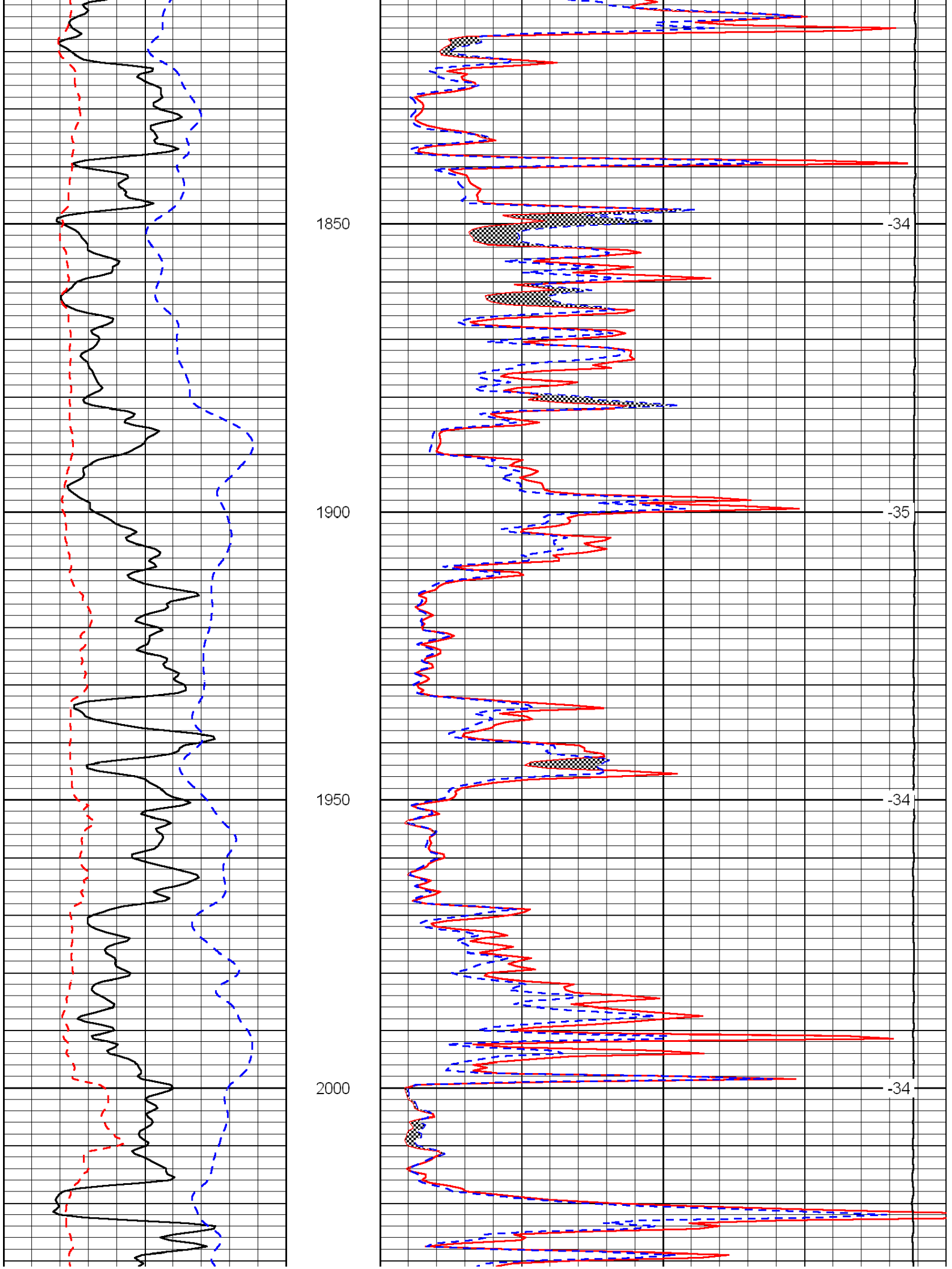
Thank you for using Log-Tech, Inc.
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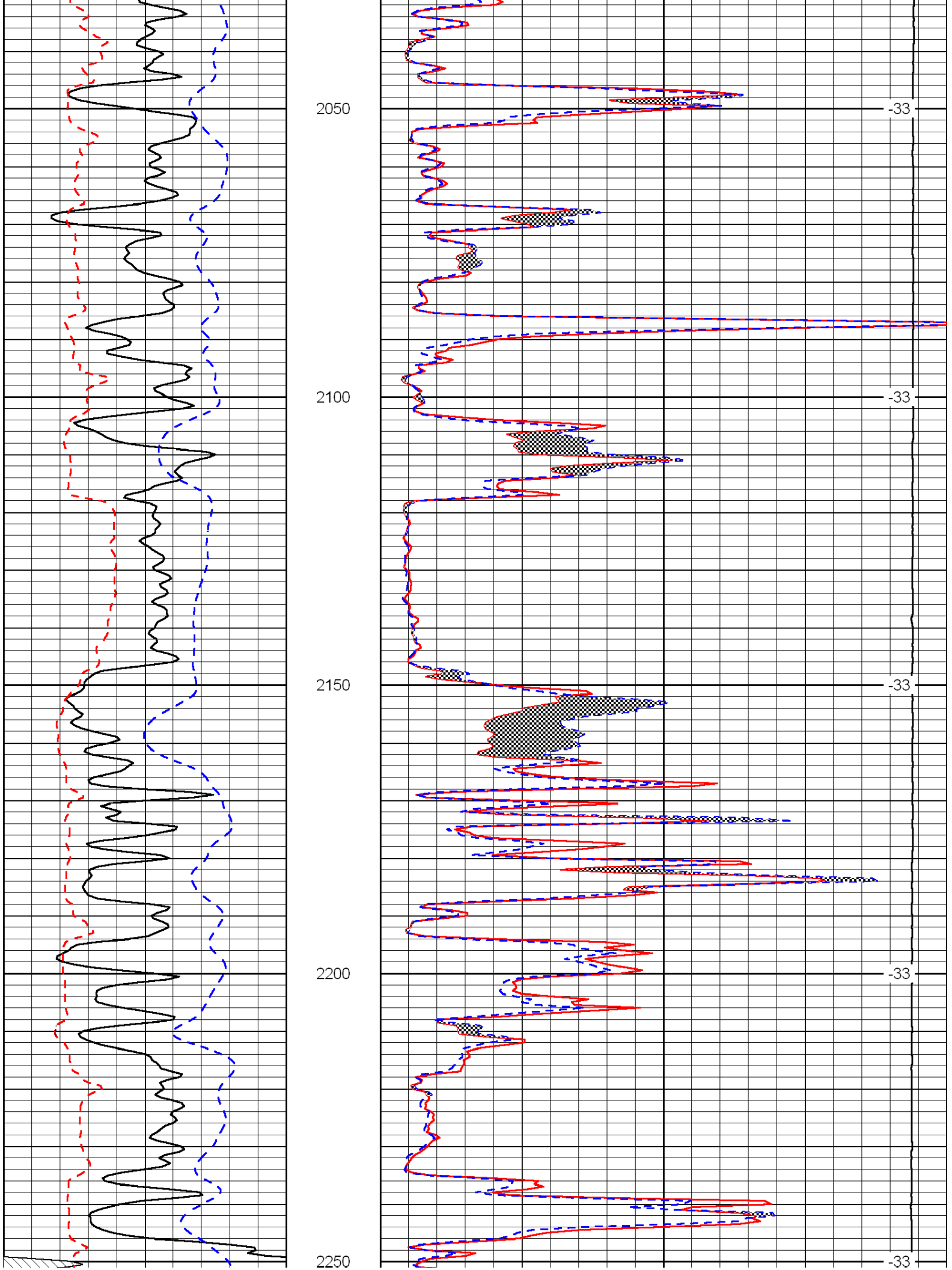
Russell, North to Highway 281 and Highway 18 Intersection, 3 1/2 West to 182 Rd, North to curve, 1/2 East, 8 North to 220 Dr, 2 East, 5 1/2 North on 200th Avenue to T, East 1/4, North to Gate, North Into

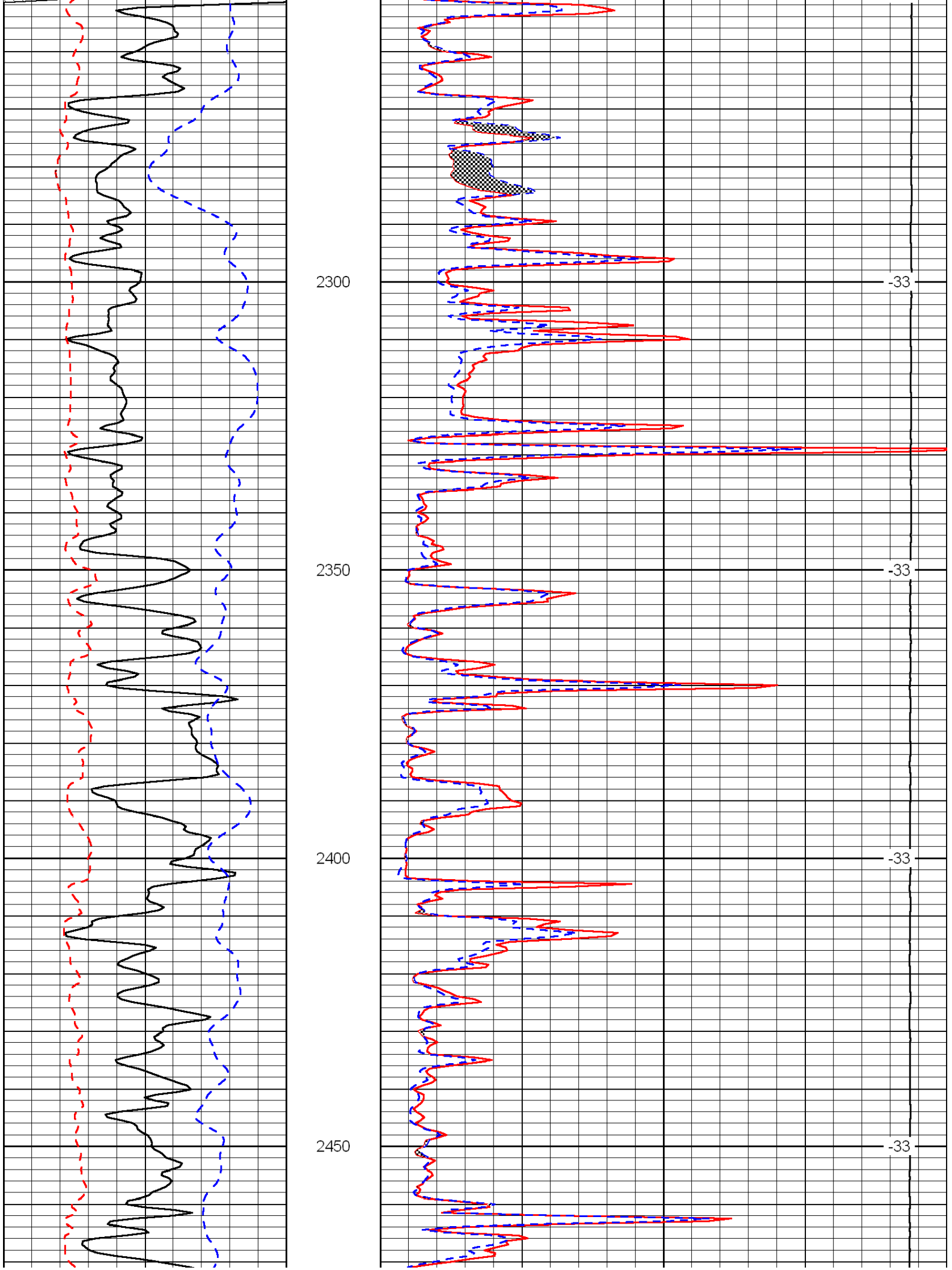
Database File:	c:\warrior\data\bruce oil_schultze no. 1\bruceoilhd.db
Dataset Pathname:	dil/brcestck
Presentation Format:	micro
Dataset Creation:	Thu Sep 02 17:15:23 2010
Charted by:	Depth in Feet scaled 1:240

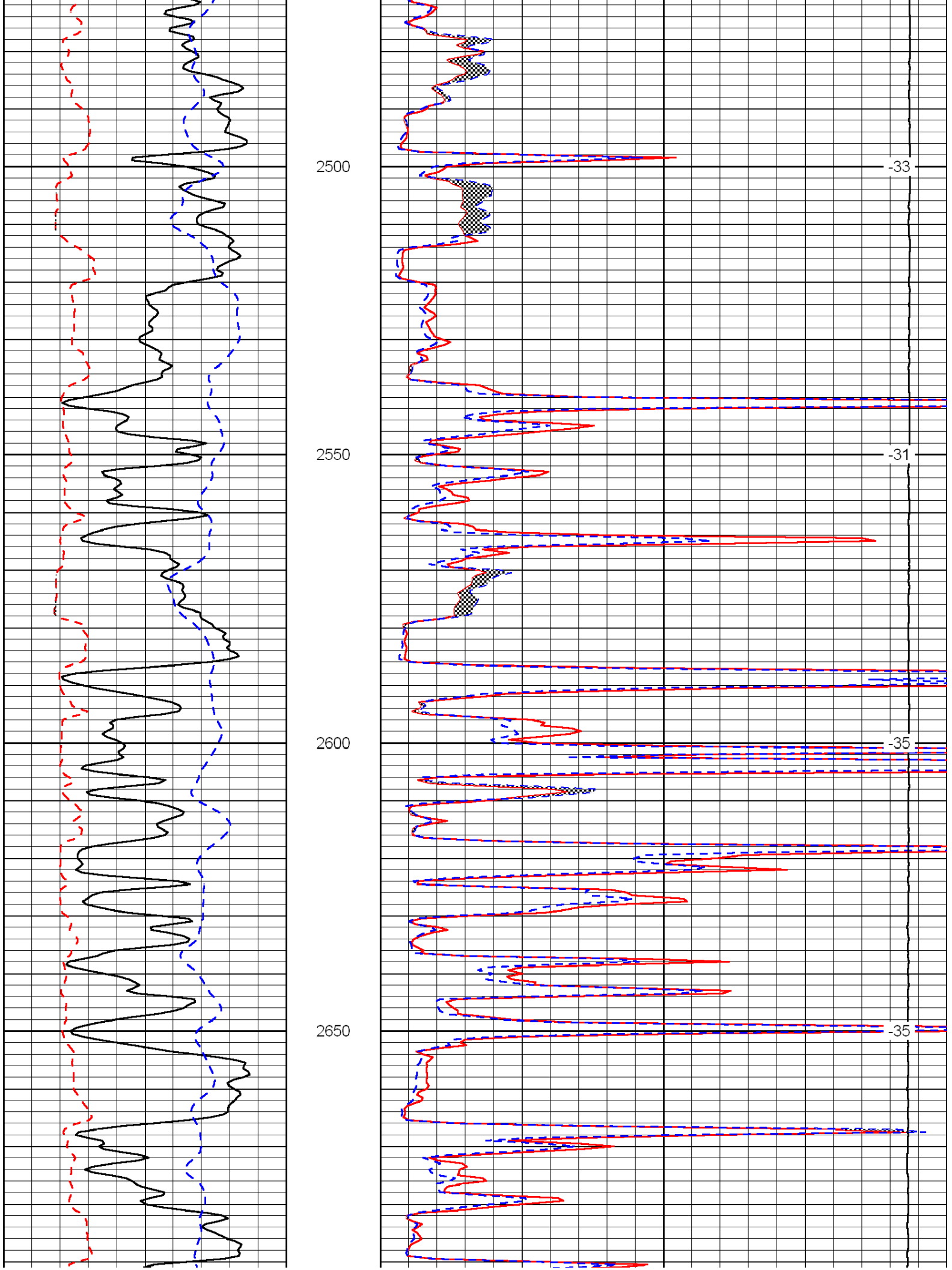

0 Gamma Ray 150
6 Micro Log Caliper (GAPI) 16
-200 SP (mV) 0
0 Micro Inverese 1 X 1 40
0 Micro Normal 2" 40
15000 Line Weight 0
LSPD
1400
1450
1500
1550
-34
-33
-33
-33

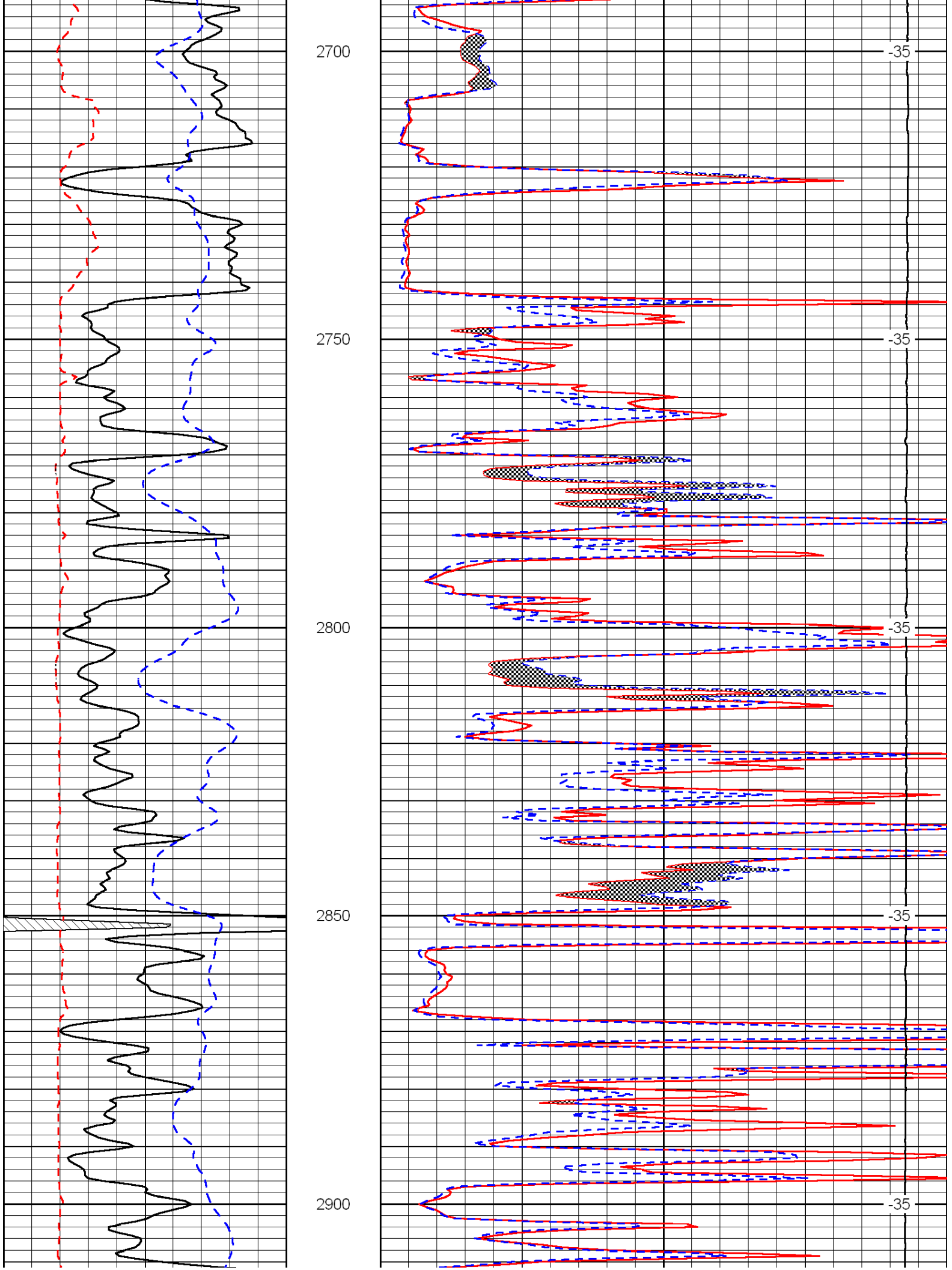

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1750
1800
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-35
-34
-34
-35

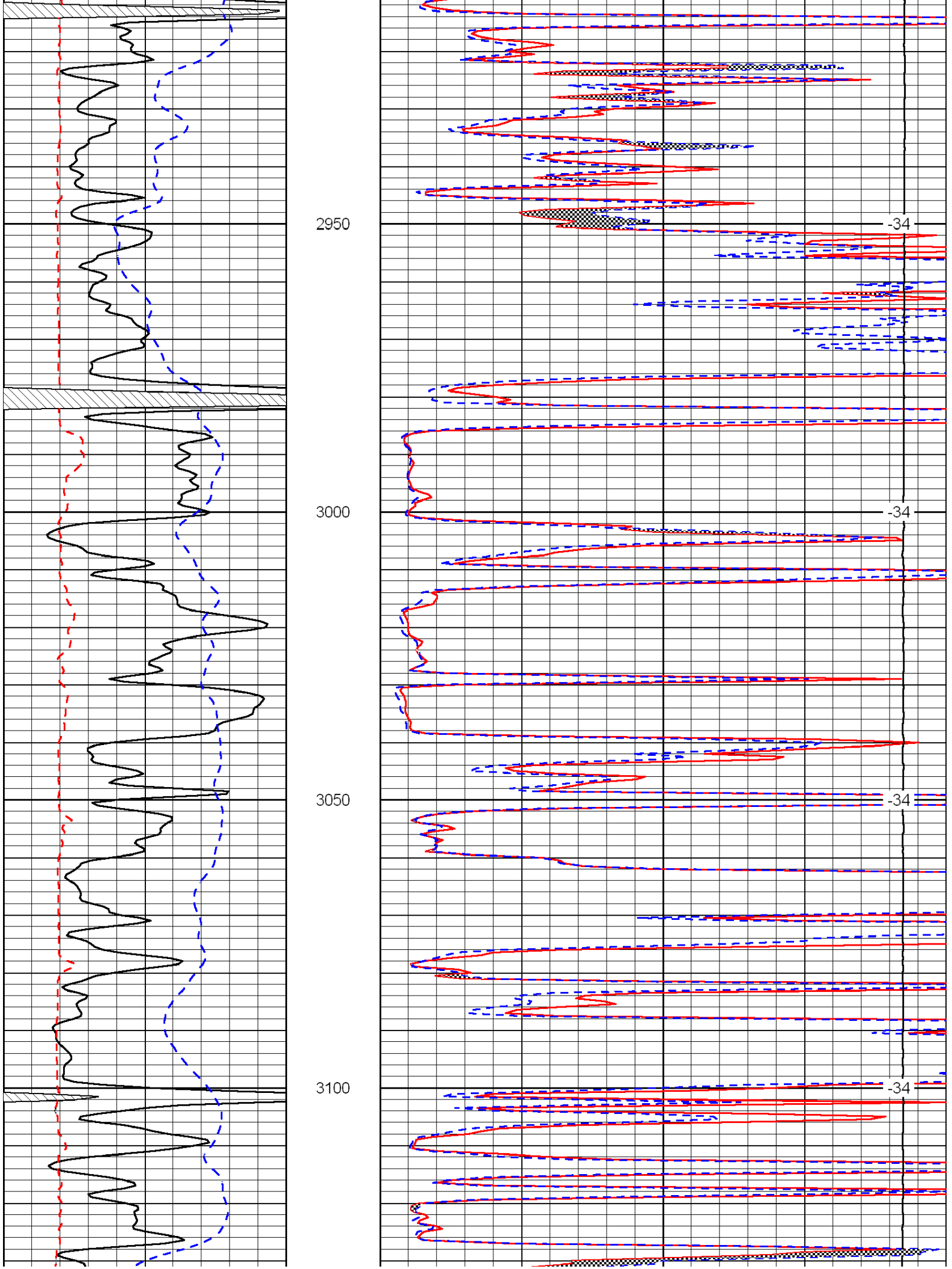

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-34
1900
-35
1950
-34
2000
-34

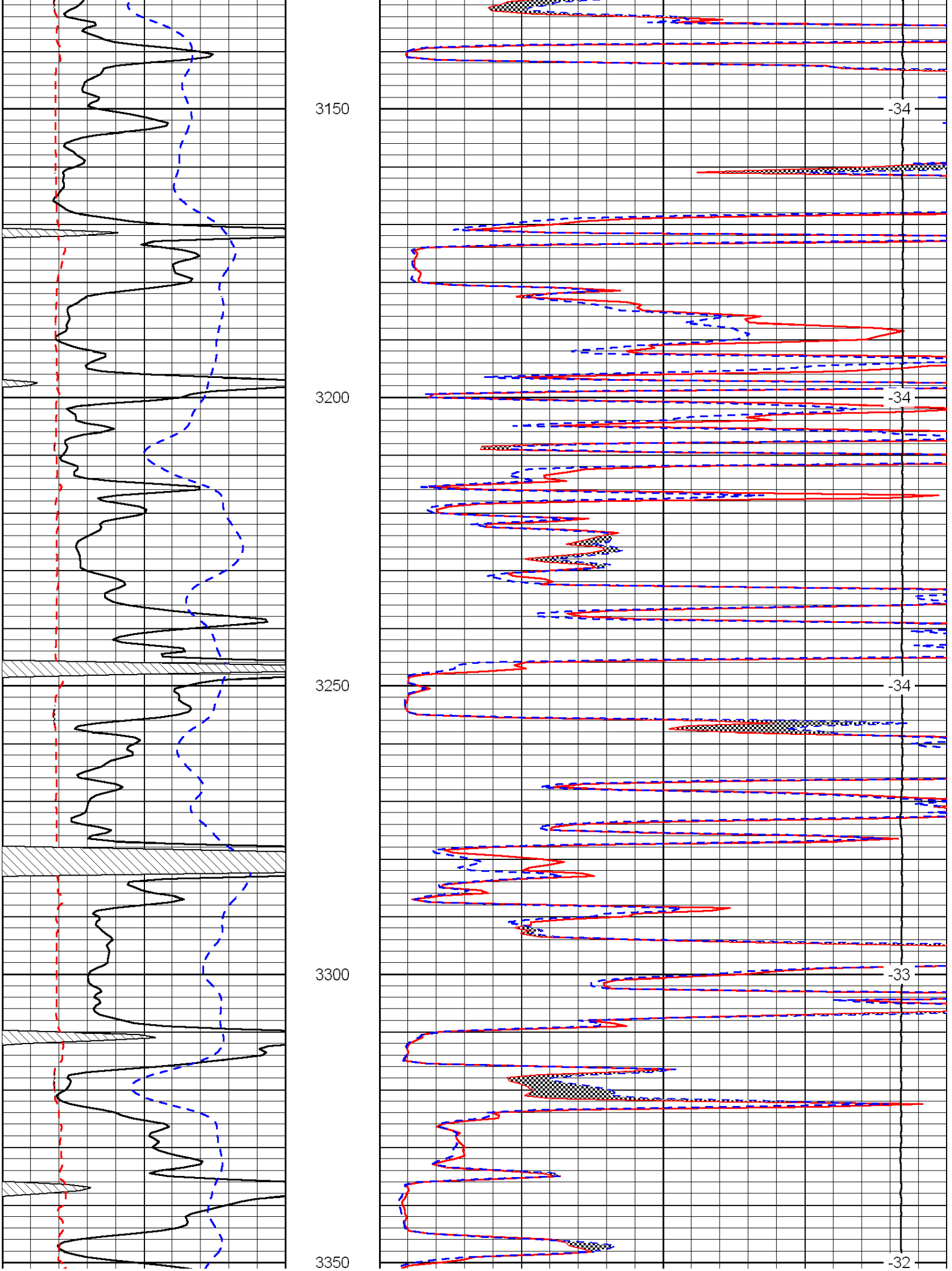

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2100
2150
2200
2250
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-33
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-33
-33

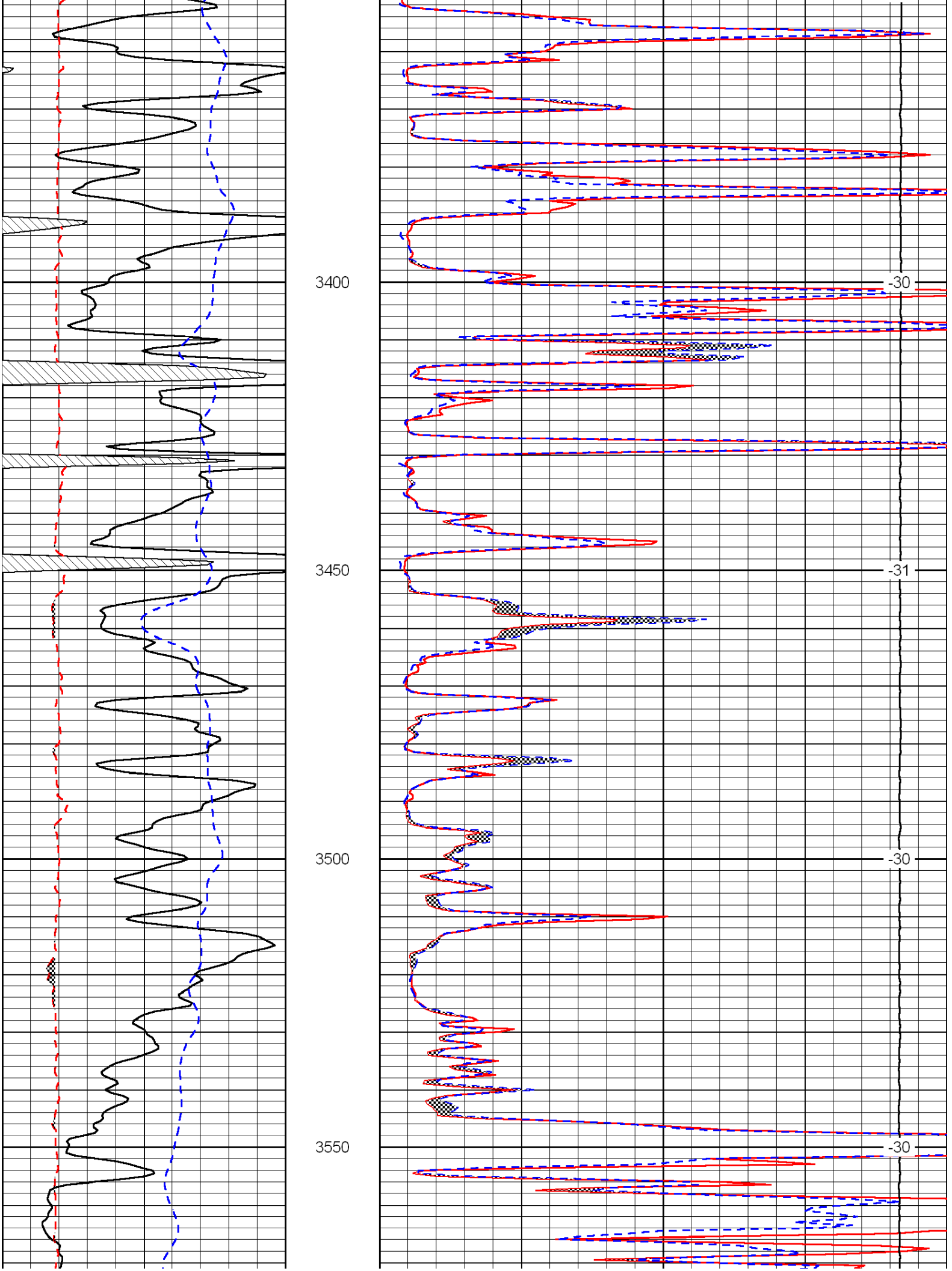

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2450
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-33
-33

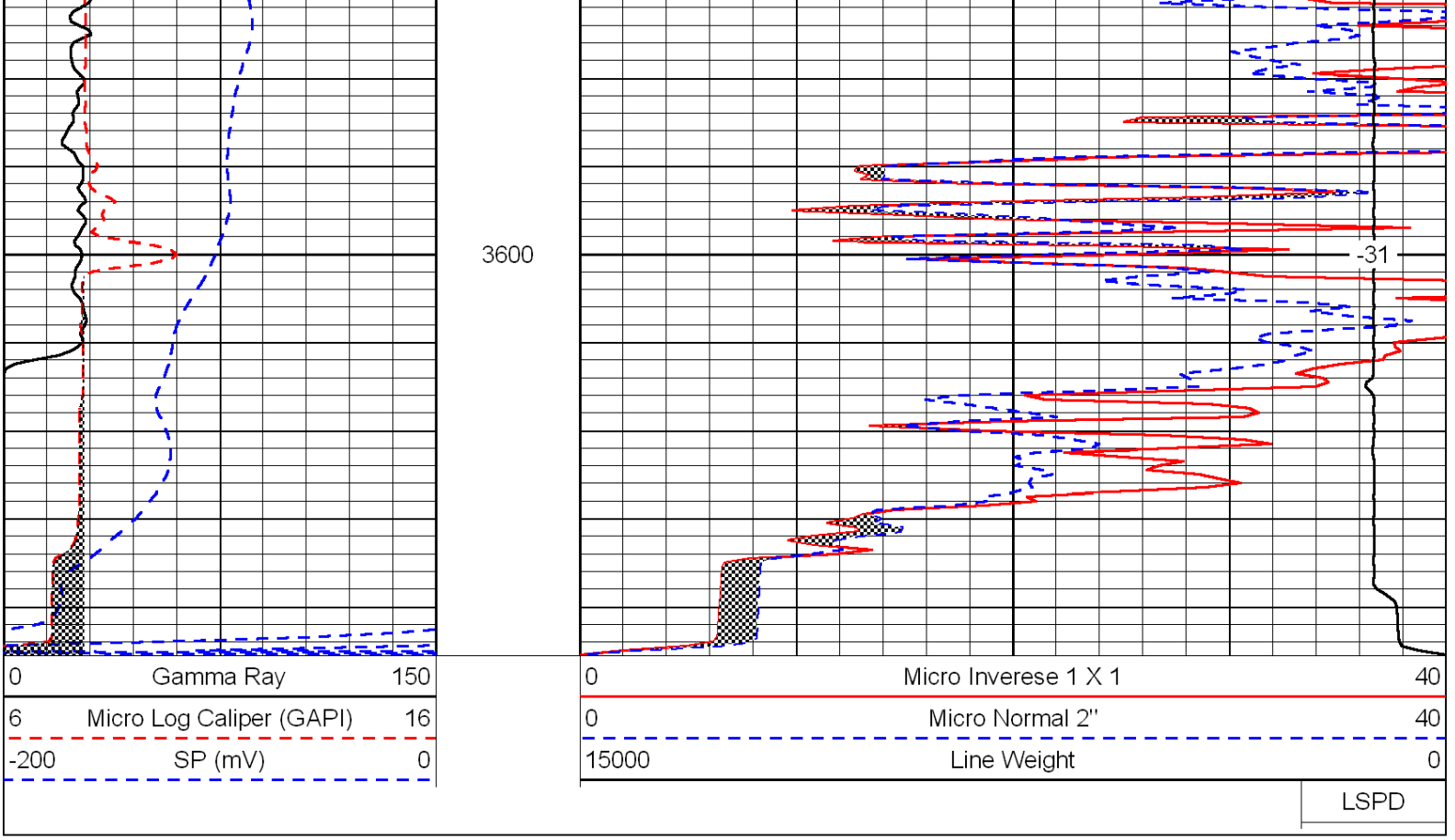

2500
2550
2600
2650
-33
-31
-35
-35


2700
2750
2800
2850
2900
-35
-35
-35
-35
-35


2950
3000
3050
3100
-34
-34
-34
-34


3150
3200
3250
3300
3350
-34
-34
-34
-33
-32


3400
-30
3450
-31
3500
-30
3550
-30


3600
-31
0
Gamma Ray
150
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