PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-145-21798-00-00

Company H&B Petroleum Corporation

Well Crane #1

Field Jessie

County Pawnee State Kansas

Location SE NE SW SE
720' FSL & 1555' FEL
Sec: 36 Twp: 21S Rge: 15W

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B. 1967
D.F.
G.L. 1959

Permanent Datum Ground Level Elevation 1959
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	2/23/2015		
Run Number	One		
Depth Driller	3910		
Depth Logger	3910		
Bottom Logged Interval	3909		
Top Log Interval	3200		
Casing Driller	8.625 @ 925		
Casing Logger	929		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	5000		
Density / Viscosity	9.4 | 62		
pH / Fluid Loss	8.5 | 8.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.65 @ 40		
Rmf @ Meas. Temp	0.49 @ 40		
Rmc @ Meas. Temp	0.88 @ 40		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.23 @ 115		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	115		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Jim Musgrove		

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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

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

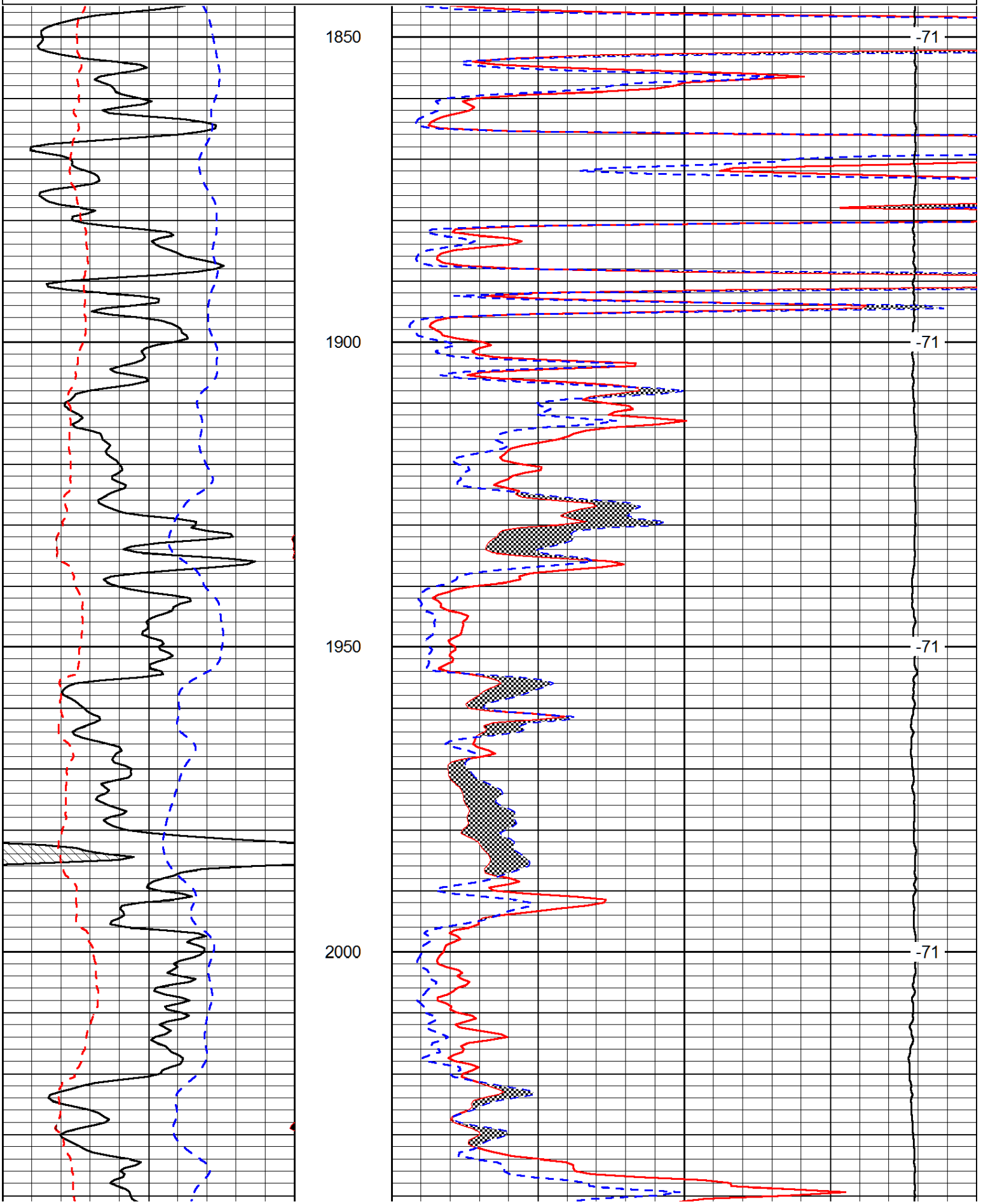
Radium,
1 1/2 West, North into

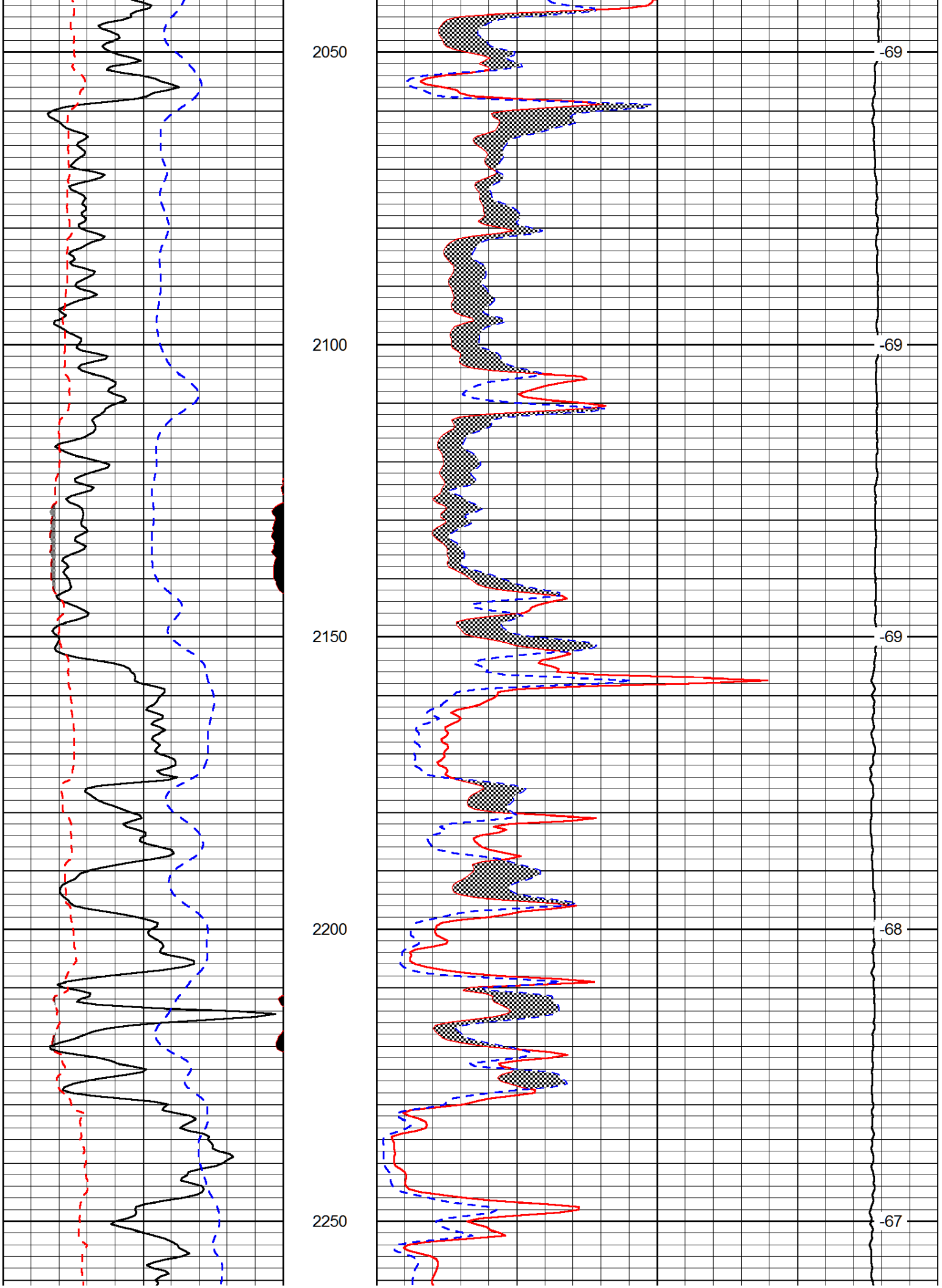
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Presentation Format:	micro
Dataset Creation:	Mon Feb 23 11:00:06 2015
Charted by:	Depth in Feet scaled 1:240

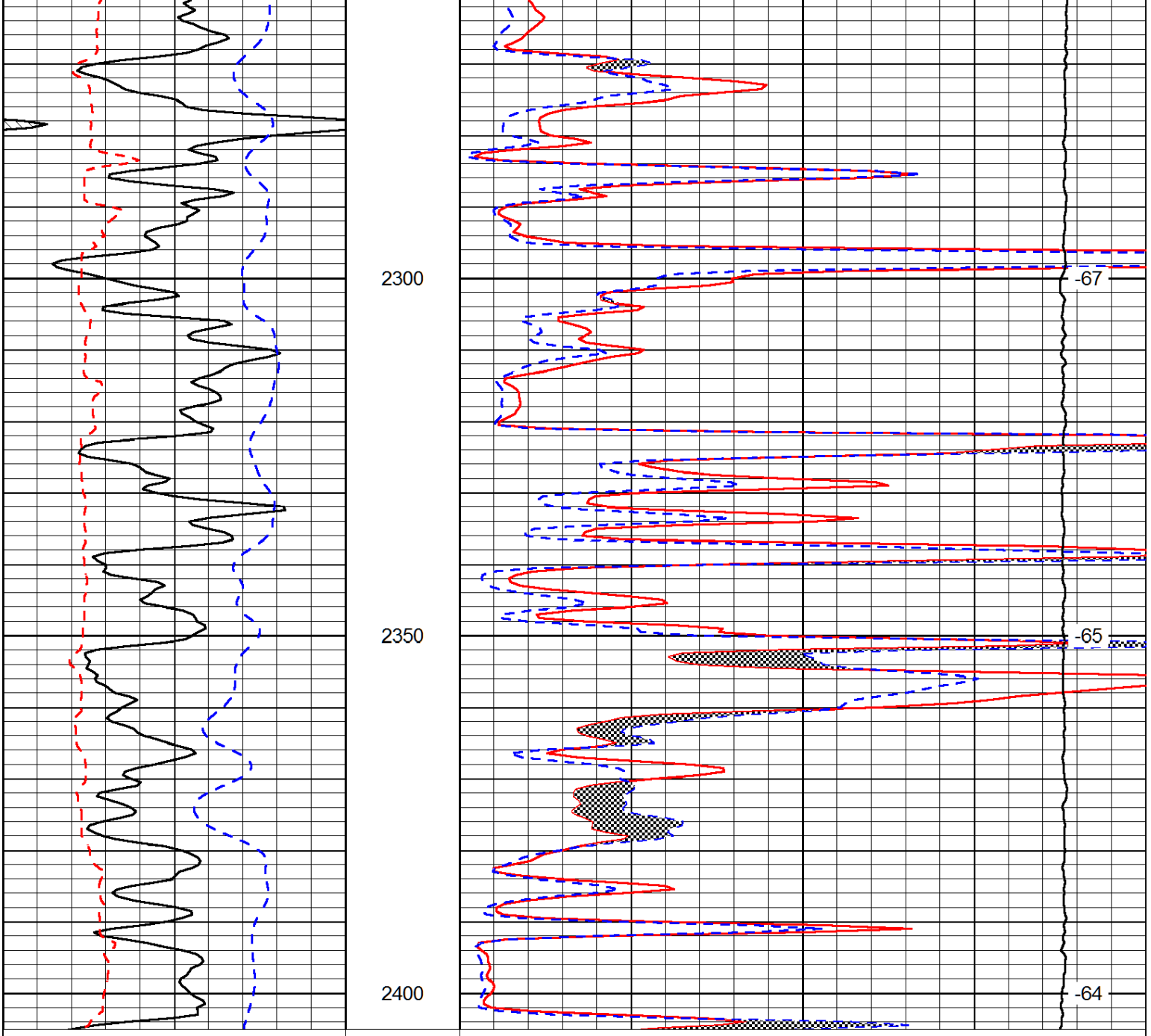
0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

0	Micro Inverese 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD




2050
2100
2150
2200
2250
-69
-69
-69
-68
-67



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

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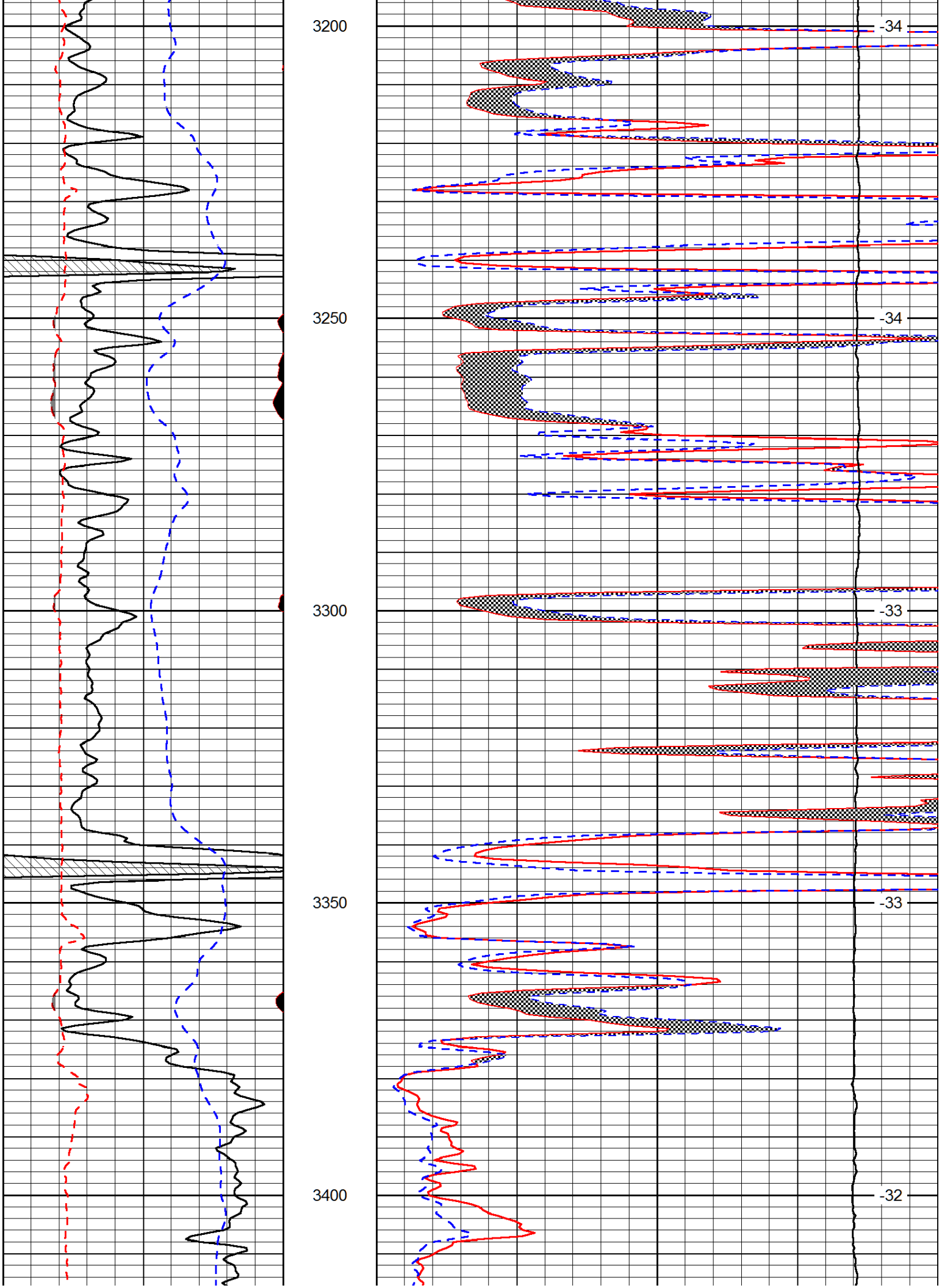
LSPD

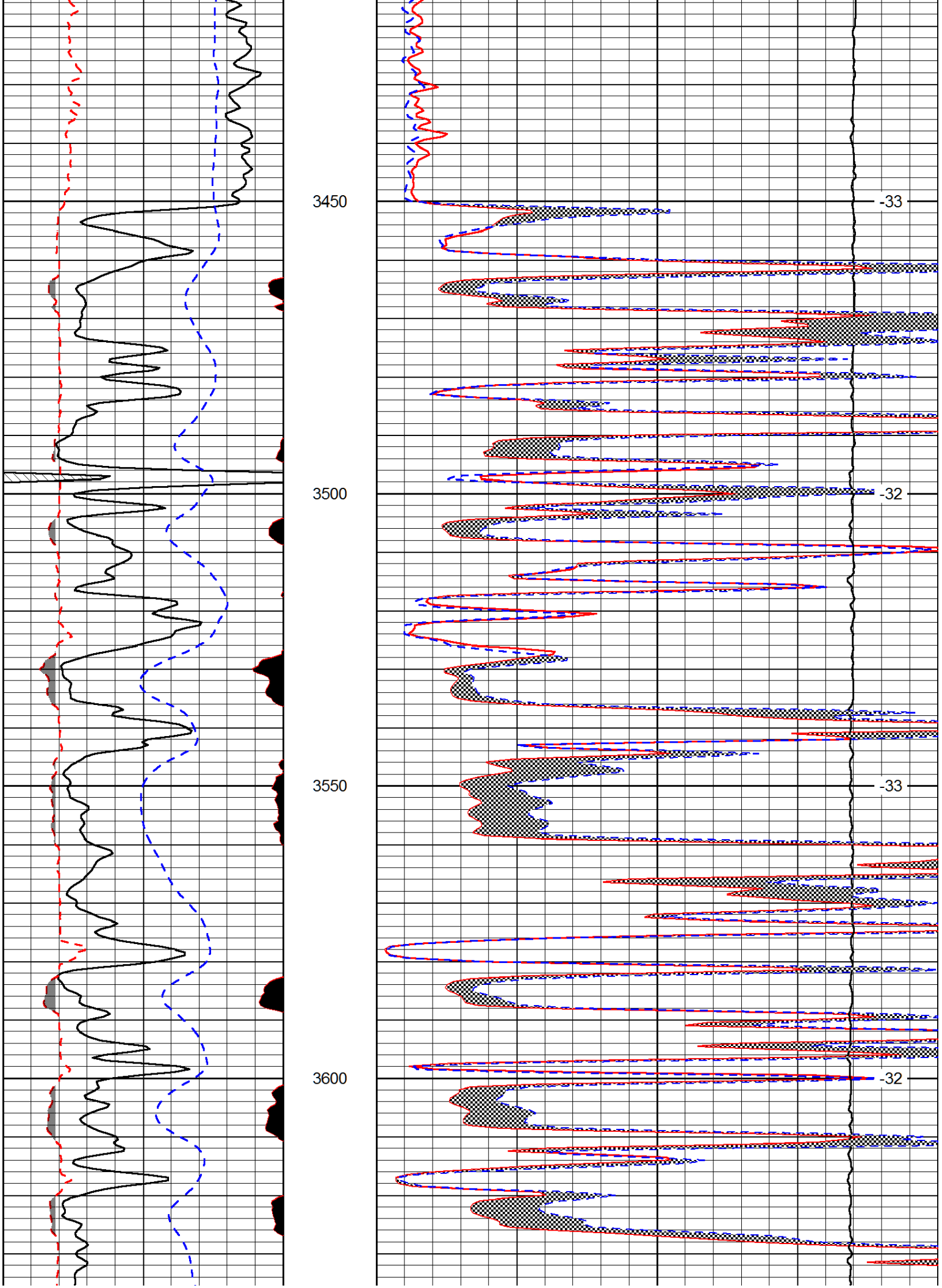
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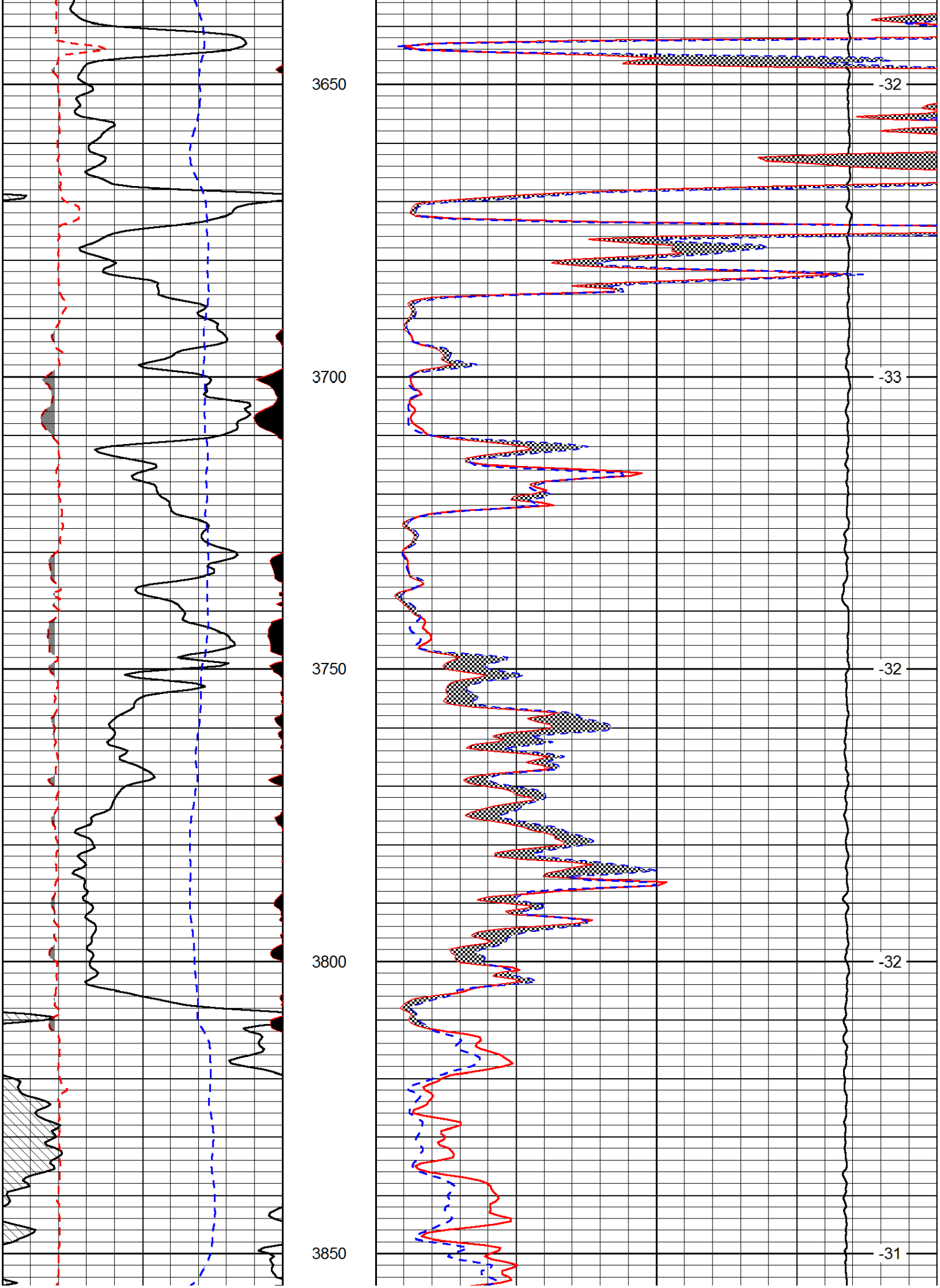
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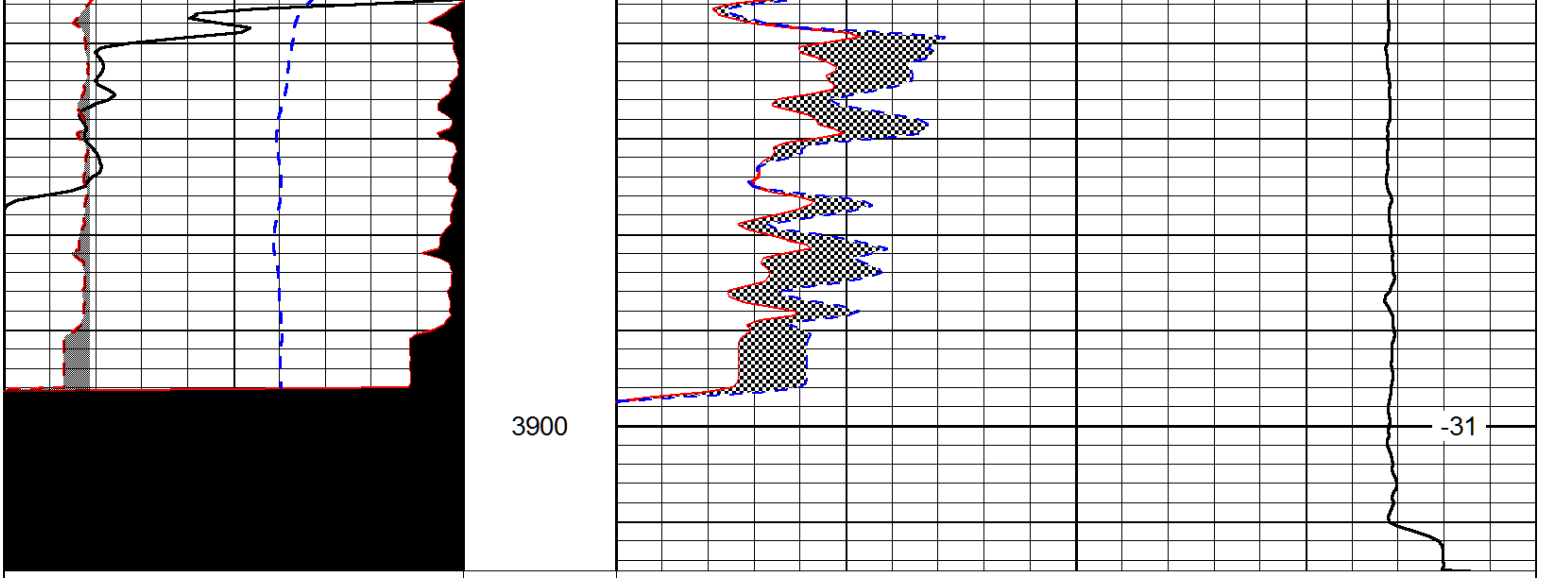
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0	Micro Normal 2"	40
10000	Line Weight	0

LSPD


3200
3250
3300
3350
3400
-34
-34
-33
-33
-32


3450
3500
3550
3600
-33
-32
-33
-32


3650
3700
3750
3800
3850
-32
-33
-32
-32
-31



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

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