PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-147-20701-00-00

Company Bach Oil Production

Well Candy Krafft #1

Field Woodruff

County Phillips State Kansas

Location 1000' FSL & 330' FWL

Sec: 12 Twp: 1S Rge: 19W

Other Services
CNL/CDL
DIL

Elevation
K.B. 2070
D.F.
G.L. 2065

Permanent Datum Ground Level Elevation 2065
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	2/11/2013			
Run Number	Two			
Depth Driller	3547			
Depth Logger	3550			
Bottom Logged Interval	3549			
Top Log Interval	2900			
Casing Driller	8.625 @ 209			
Casing Logger	210			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	400			
Density / Viscosity	8.7 58			
pH / Fluid Loss	10.5 5.6			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.70 @ 43			
Rmf @ Meas. Temp	0.53 @ 43			
Rmc @ Meas. Temp	0.95 @ 43			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.23 @ 113			
Operating Rig Time	4 Hours			
Max. Rec. Temp. F	113			
Equipment Number	91			
Location	Hays			
Recorded By	D. Schmidt			
Witnessed By	Bob Petersen			

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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

Phillipsburg,
North to Hwy 383, 3 West to 500th, 1 South,
East & South into

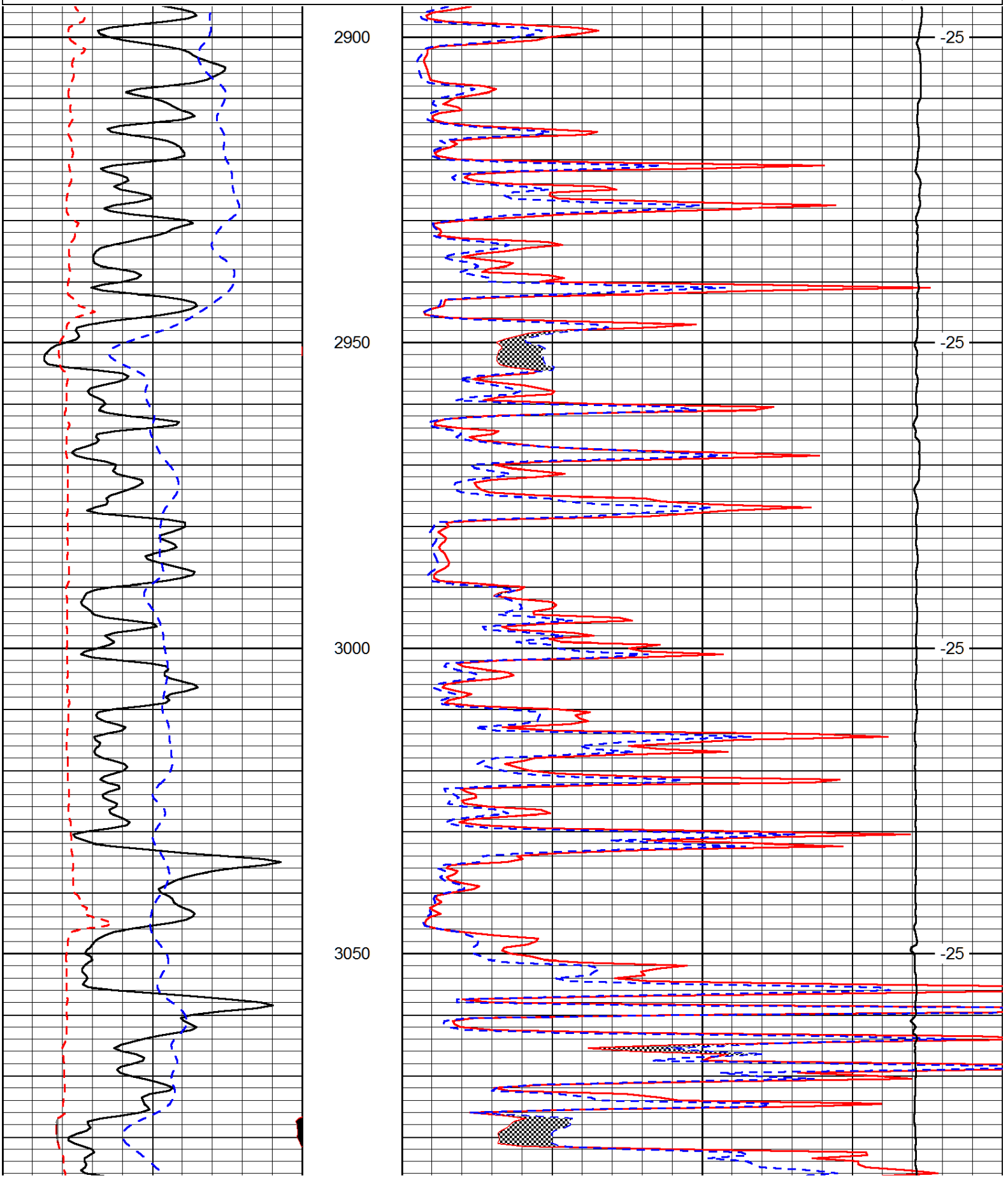
Database File:	bach_021013hd.db
Dataset Pathname:	dil/bchstck
Presentation Format:	micro
Dataset Creation:	Mon Feb 11 09:22:41 2013
Charted by:	Depth in Feet scaled 1:240

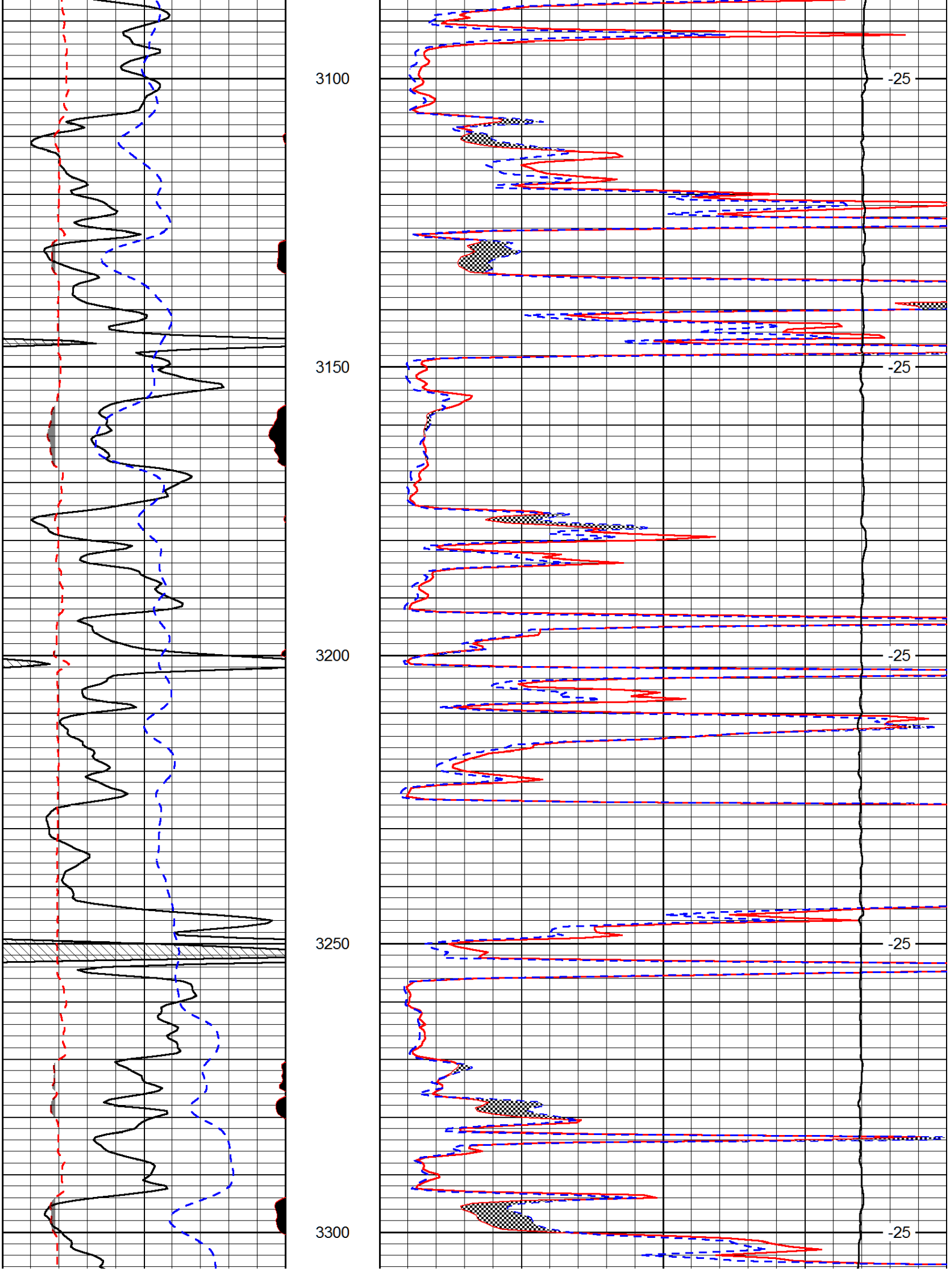
Charted by: Depth in Feet scaled 1:240

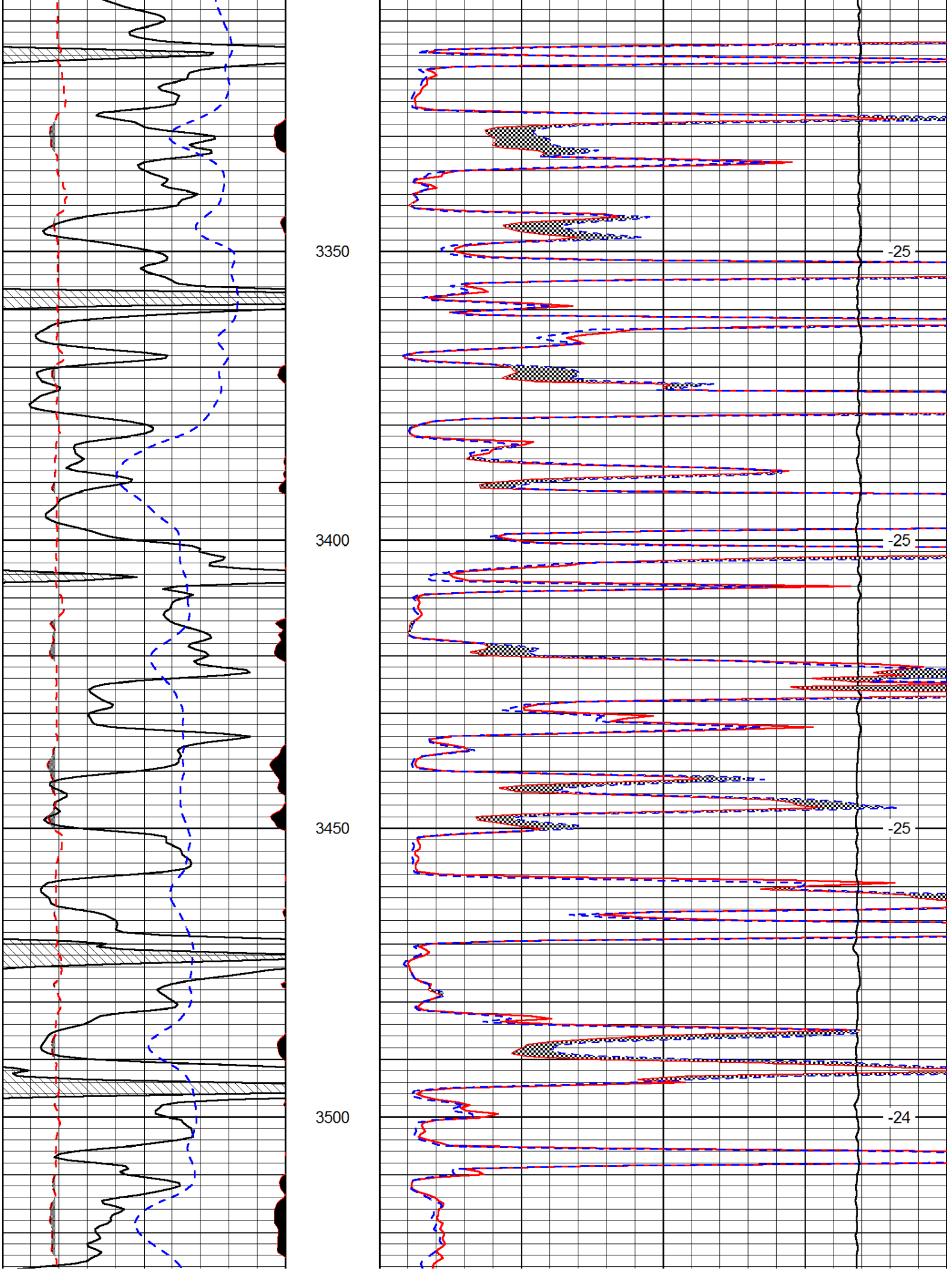
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

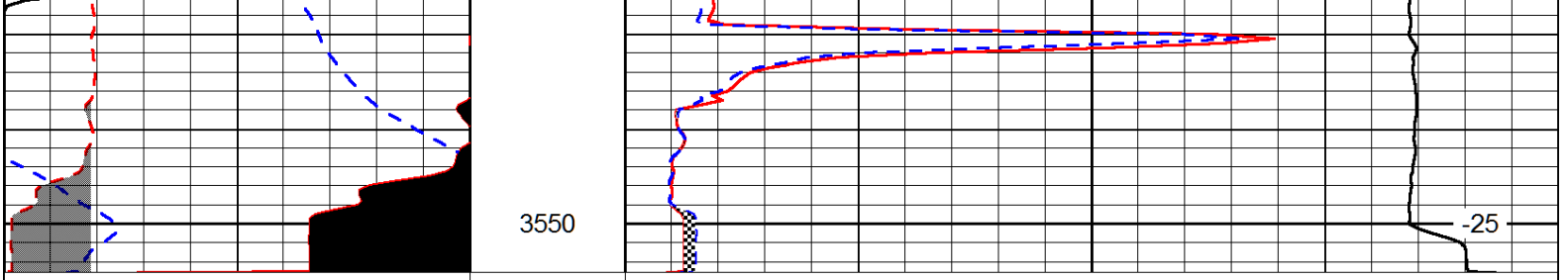
0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD (ft/min)




3100
3150
3200
3250
3300
-25
-25
-25
-25
-25


3350
3400
3450
3500
-25
-25
-25
-24



0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
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0	Micro Normal 2" (Ohm-m)	40
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LSPD
(ft/min)