LOG-TECH

DIGITAL LOG (785) 625-3858

Microresistivity Log

API No. 15-065-23,775-00-00

Company H&C Oil Operating, Inc.

Well Bollig No. 12-1

Field Law Southeast

County Graham State Kansas

Location 1,320' FNL & 1,650' FWL

Sec: 12 Twp: 10S Rge: 23W

Permanent Datum Ground Level Elevation 2420

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B. 2425
D.F.
G.L. 2420

Date	10/5/2011		
Run Number	Two		
Depth Driller	4272		
Depth Logger	4271		
Bottom Logged Interval	4270		
Top Log Interval	3350		
Casing Driller	8.625 @ 270		
Casing Logger	265		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	3000		
Density / Viscosity	9.2 72		
pH / Fluid Loss	9.0 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	.56 @ 76		
Rmf @ Meas. Temp	.42 @ 76		
Rmc @ Meas. Temp	.76 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.36 @ 119		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	119		
Equipment Number	10		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Clayton Erickson		

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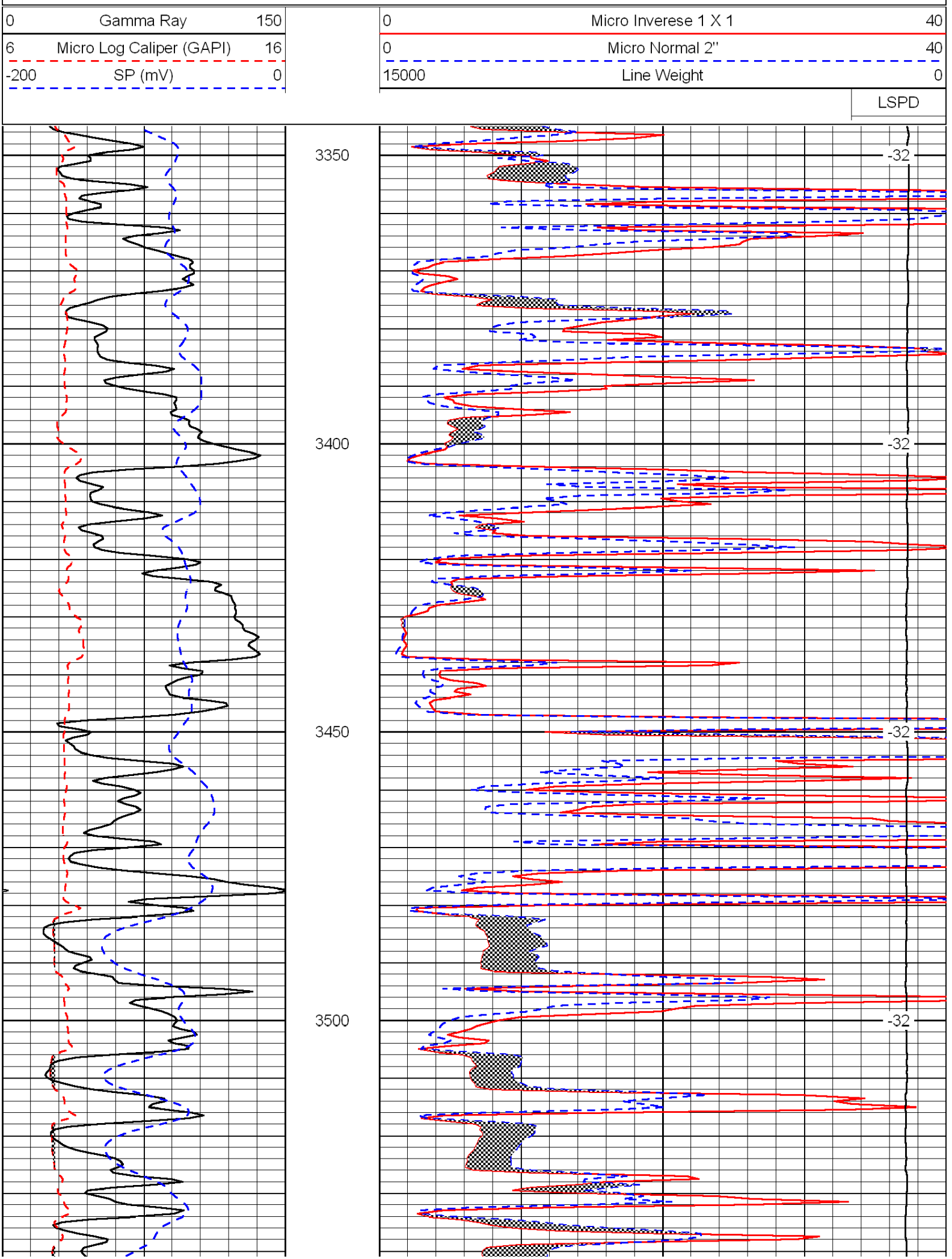
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

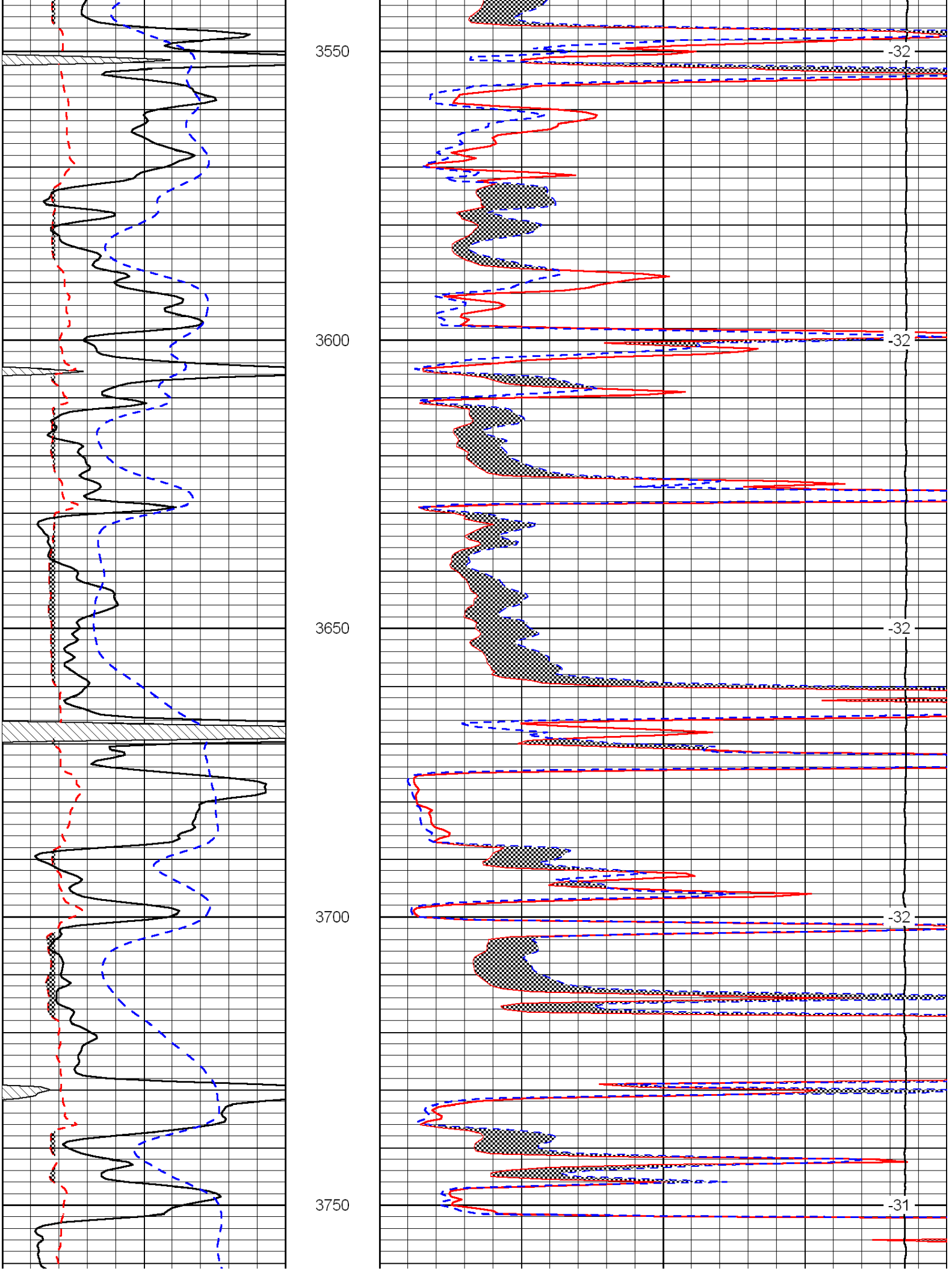
Comments

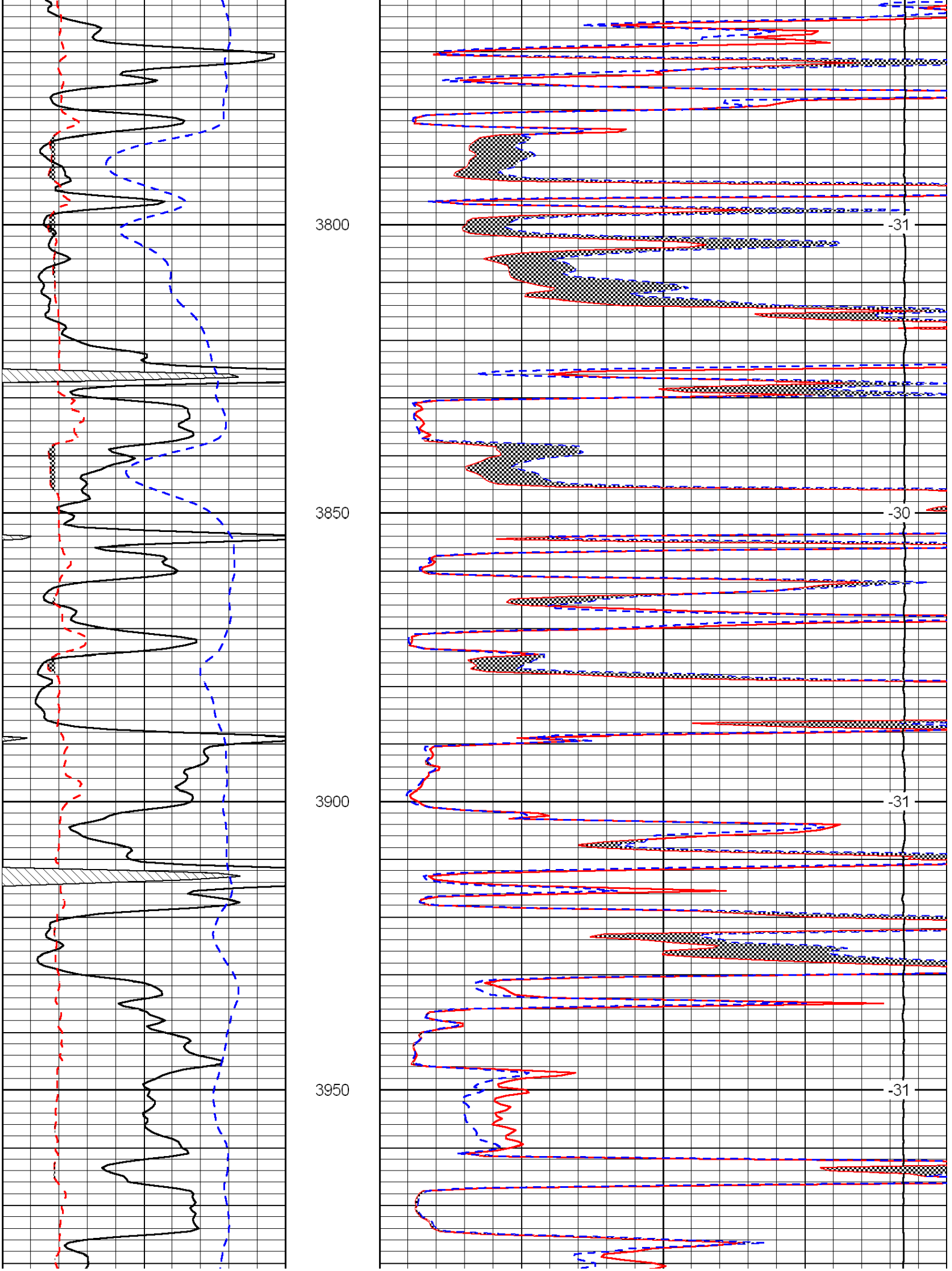
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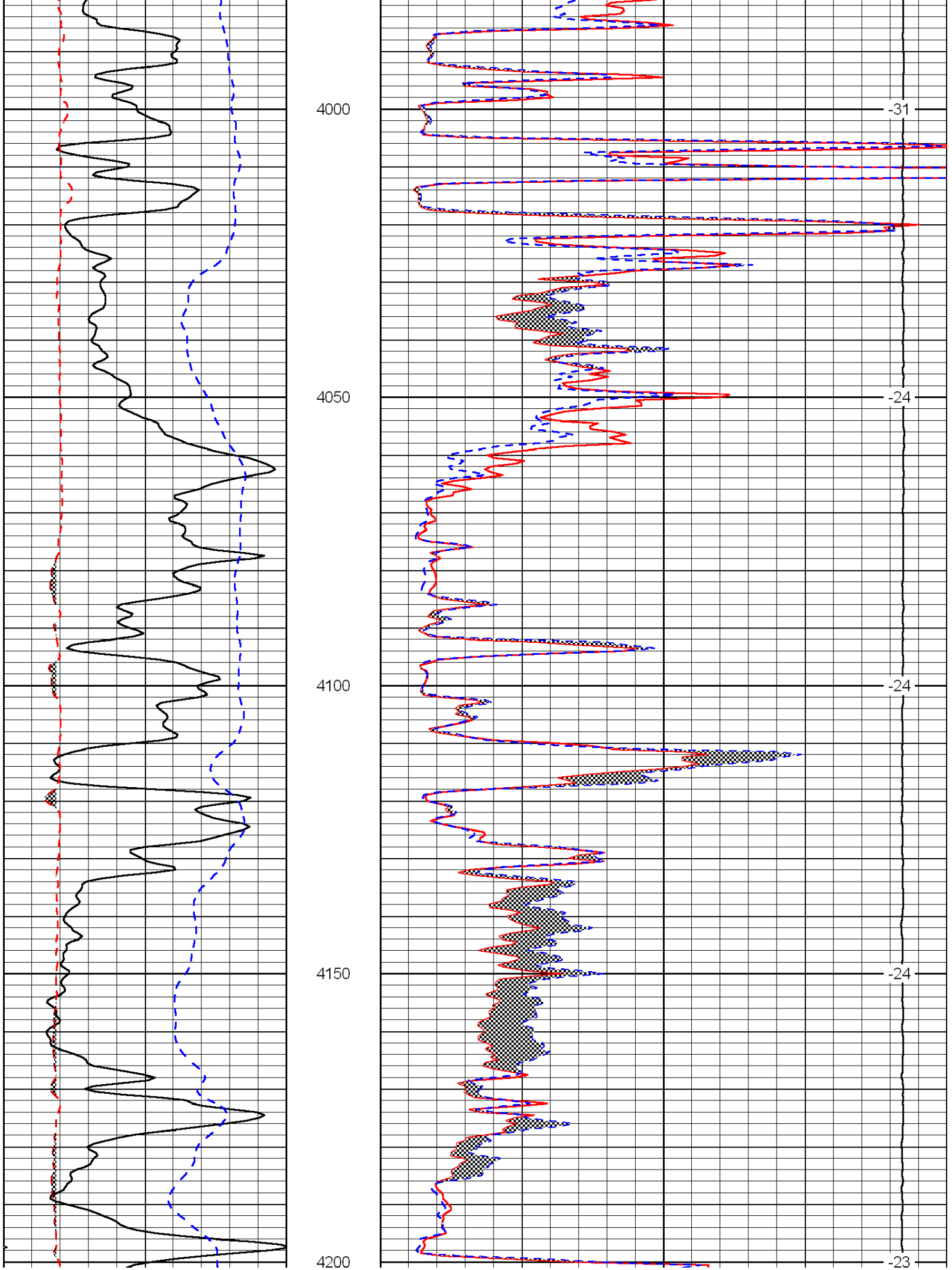
Wakeeney, North to H Road (Redline Road), 1 East to 270 Road, 2 South to F Road, 1/4 East, South Into

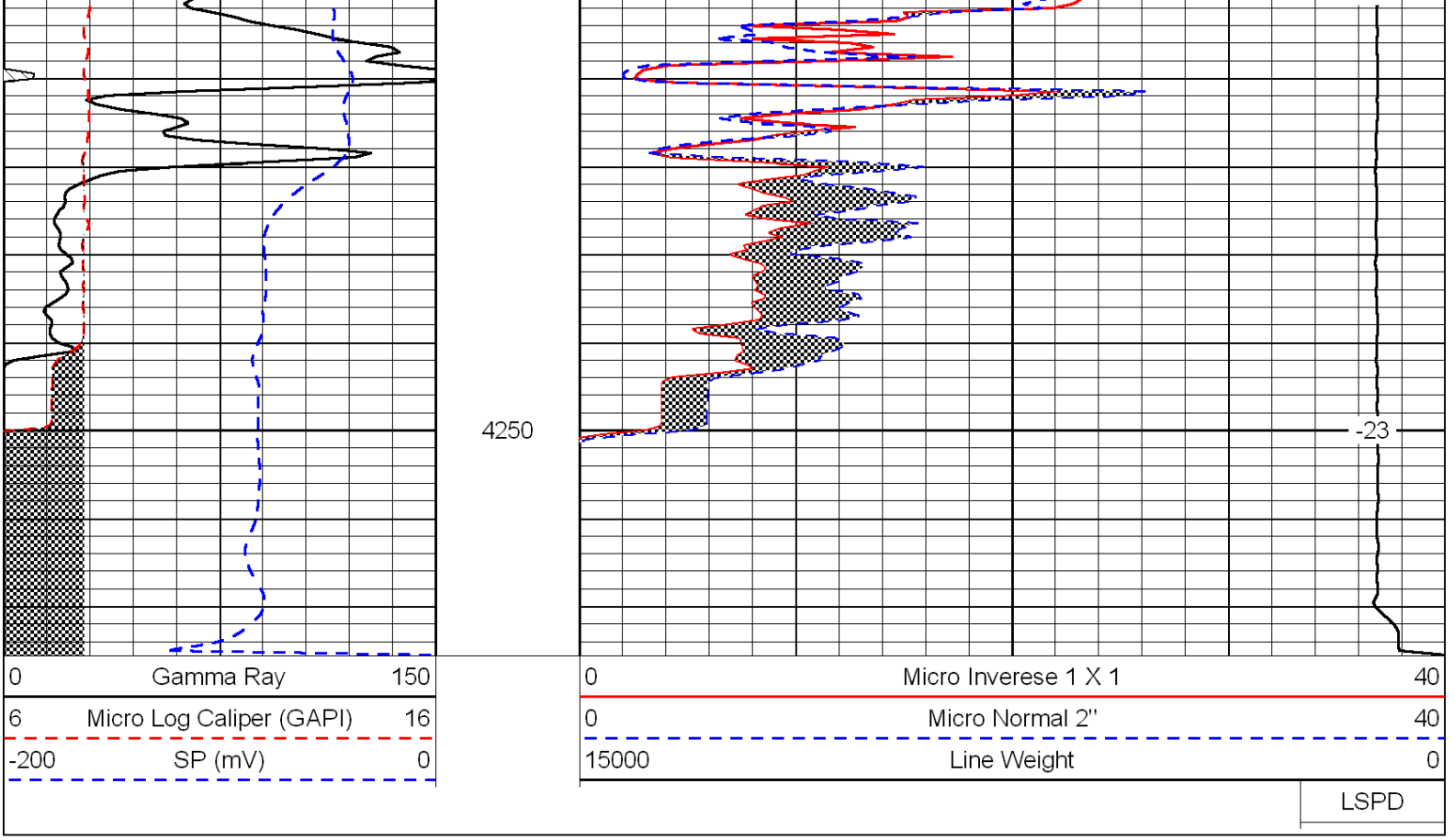
Database File:	c:\warrior\data\h&c_bollig no. 12-1\h&c_bollig_12-1hd.db
Dataset Pathname:	dil/hcstck
Presentation Format:	micro
Dataset Creation:	Thu Oct 06 00:26:17 2011
Charted by:	Depth in Feet scaled 1:240


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
3350
3400
3450
3500
-32
-32
-32
-32


3550
3600
3650
3700
3750
-32
-32
-32
-32
-31


3800
-31
3850
-30
3900
-31
3950
-31


4000
4050
4100
4150
4200
-31
-24
-24
-24
-23


4250
-23
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