LOG-TECH

DIGITAL LOG (785) 625-3858

Microresistivity Log

API No. 15-083-21,722-00-00

Company Norstar Petroleum, Inc.

Well Phillips-Denny No. 1-4

Field Fossil Ridge

County Hodgeman State Kansas

Location SE NW NE
1046' FNL & 1777' FEL
Sec: 4 Twp: 22 S Rge: 23 W

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B.: 2307
D.F.:
G.L.: 2302

Permanent Datum Ground Level
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing Elevation 2302

Date	8/28/2011		
Run Number	Two		
Depth Driller	4700		
Depth Logger	4701		
Bottom Logged Interval	4700		
Top Log Interval	3700		
Casing Driller	8.625 @ 257		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7,400		
Density / Viscosity	9.1 56		
pH / Fluid Loss	9.0 16		
Source of Sample	Flowline		
Rm @ Meas. Temp	.62 @ 80		
Rmf @ Meas. Temp	.47 @ 80		
Rmc @ Meas. Temp	.83 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.40 @ 125		
Operating Rig Time	4 1/2 Hours		
Max. Rec. Temp. F	125		
Equipment Number	91		
Location	Hays		
Recorded By	K.Bange		
Witnessed By	Brad Rine		

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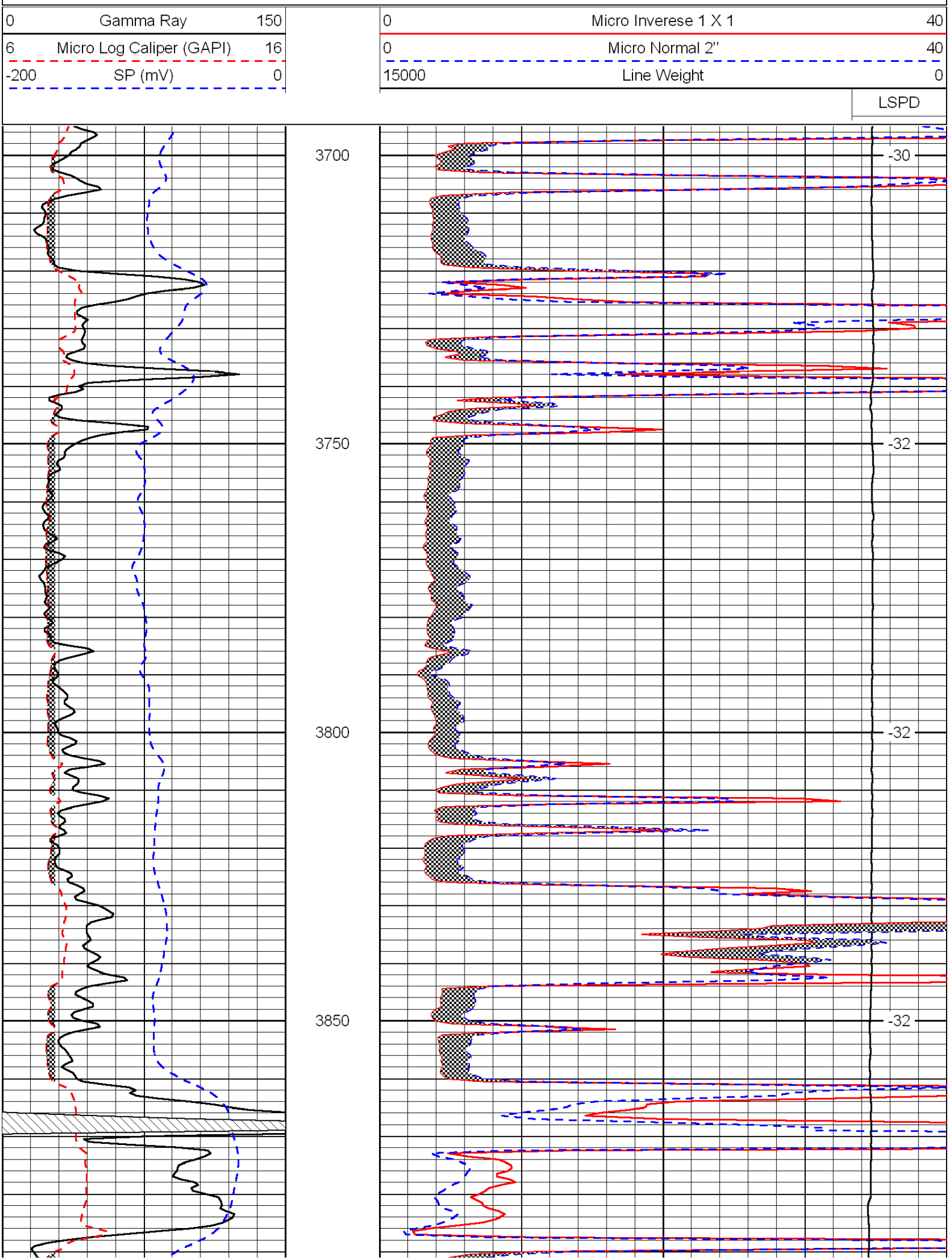
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

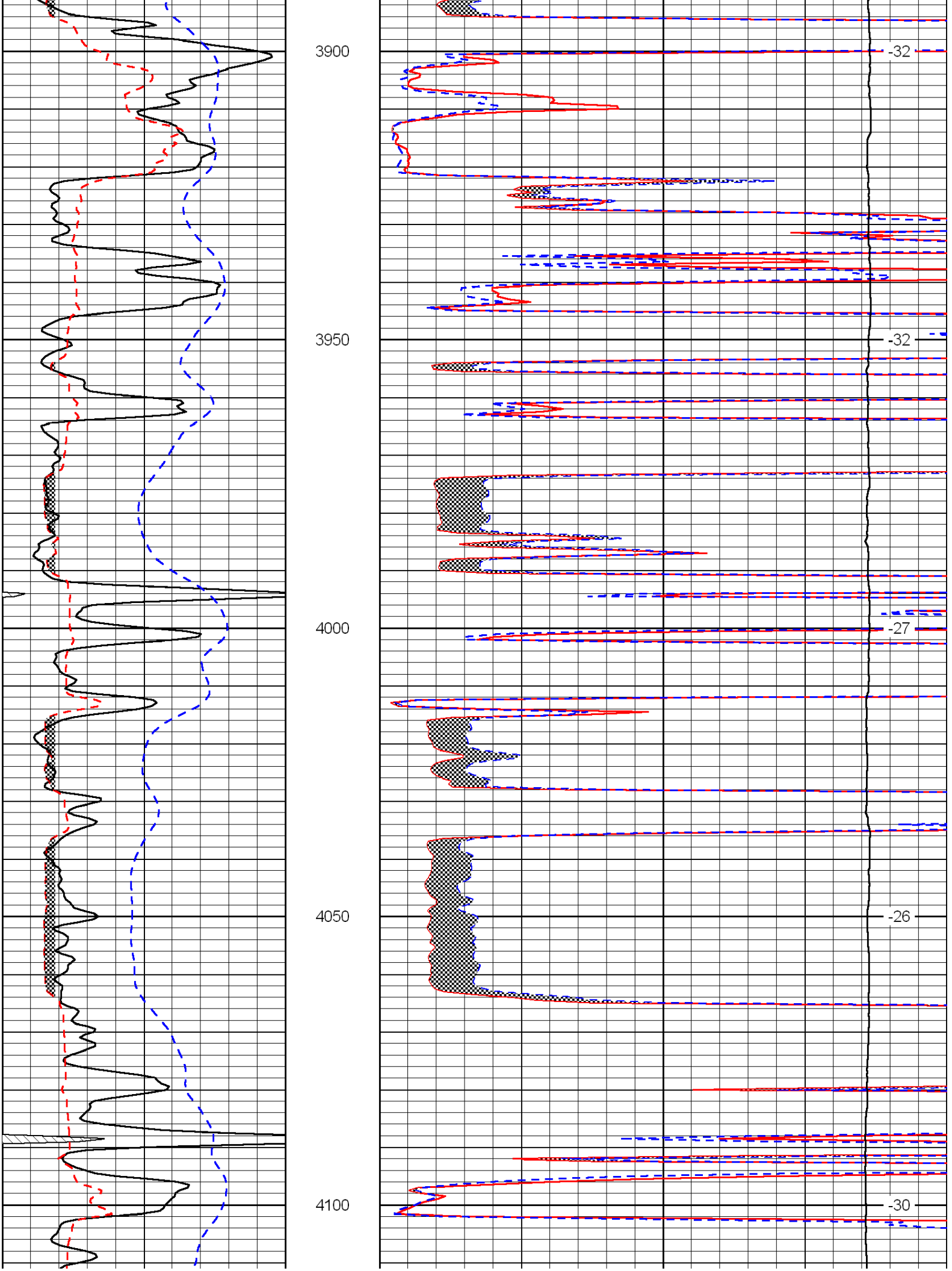
Comments

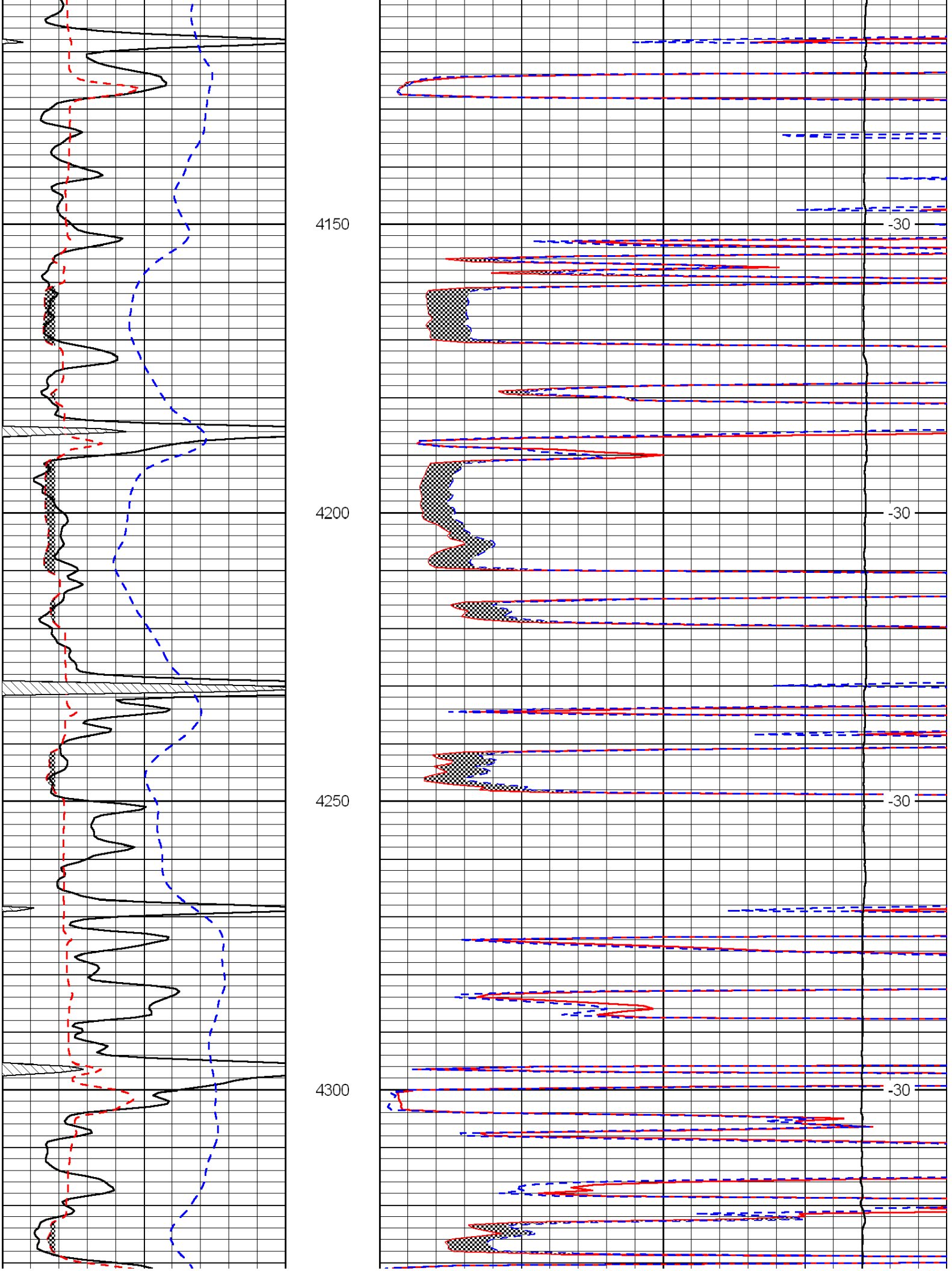
Thank you for using Log-Tech, Inc.
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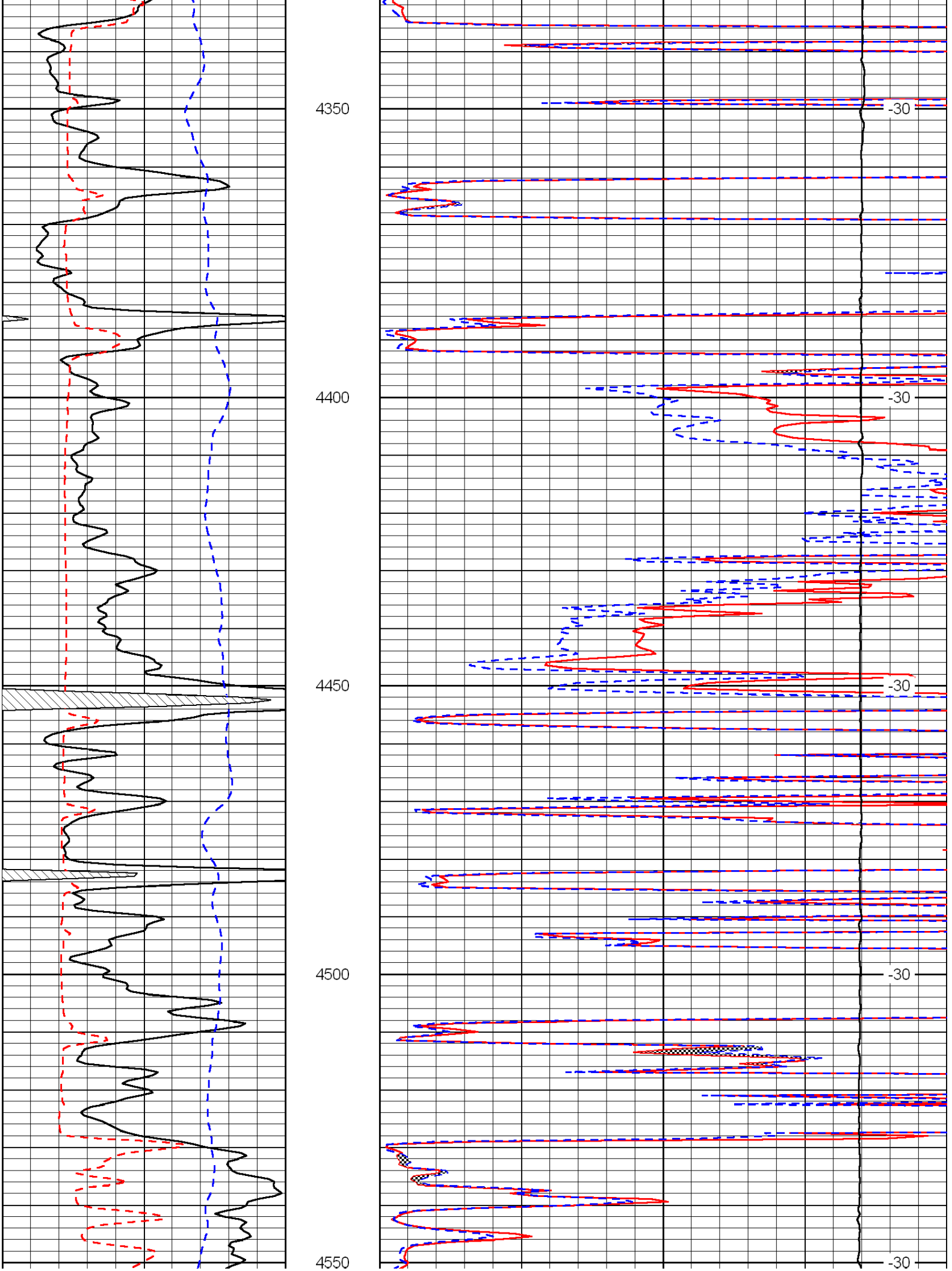
Ness City South to S Rd.
East 2 1/2
South into

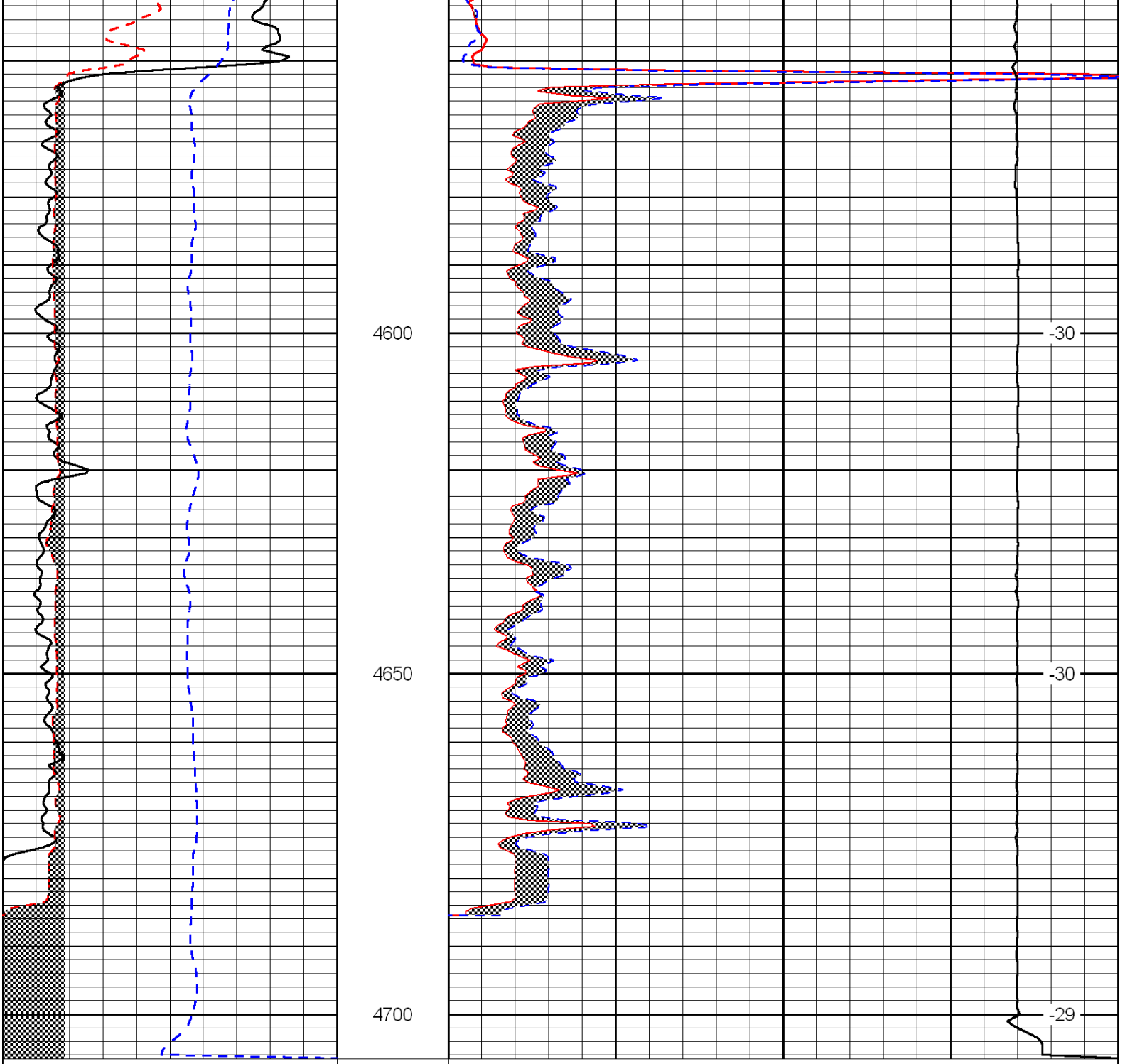
Database File:	c:\warrior\data\norstar_phillips-denny no. 1-4\norstar082811hd.db
Dataset Pathname:	dil/norstack
Presentation Format:	micro
Dataset Creation:	Sun Aug 28 14:58:12 2011
Charted by:	Depth in Feet scaled 1:240


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
3700
3750
3800
3850
-30
-32
-32
-32


3900
3950
4000
4050
4100
-32
-32
-27
-26
-30


4150
4200
4250
4300
-30
-30
-30
-30


4350
4400
4450
4500
4550
-30
-30
-30
-30
-30


4600
4650
4700
-30
-30
-29
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