LOG-TECH

DIGITAL LOG (785) 625-3858

API No. 15-101-22,325-00-00

Microresistivity Log

Company Larson Engineering, Inc.

Well Gail No. 1-21

Field Reifschneider Southeast

County Lane State Kansas

Location SE SW NE NE
1165' FNL & 950' FEL
Sec: 21 Twp: 18 S Rge: 29 W

Other Services
CNL/CDL
DIL

Elevation
K.B. 2815
D.F.
G.L. 2808

Permanent Datum Ground Level Elevation 2808
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	11/14/2011			
Run Number	Two			
Depth Driller	4655			
Depth Logger	4659			
Bottom Logged Interval	4658			
Top Log Interval	3600			
Casing Driller	8.625 @ 261			
Casing Logger	257			
Bit Size	7.875			
Type Fluid in Hole	Chemcial			
Salinity,ppm CL	2600			
Density / Viscosity	9.1 | 59			
pH / Fluid Loss	10.5 | 6.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	.70 @ 62			
Rmf @ Meas. Temp	.53 @ 62			
Rmc @ Meas. Temp	.95 @ 62			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.35 @ 123			
Operating Rig Time	4 1/2 Hours			
Max Rec. Temp. F	123			
Equipment Number	15			
Location	Hays			
Recorded By	Daylon Kerr			
Witnessed By	Vern Schrag			

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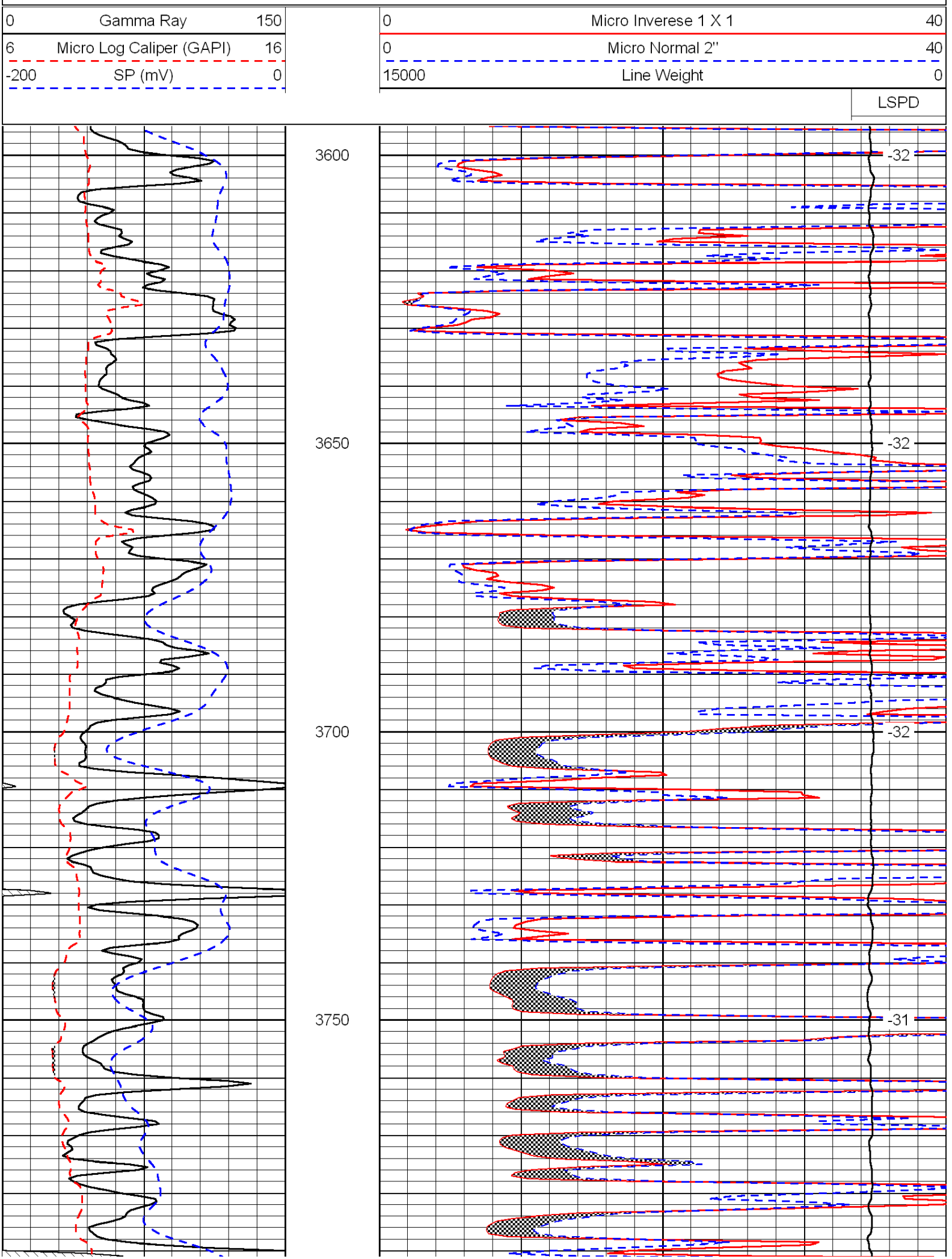
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

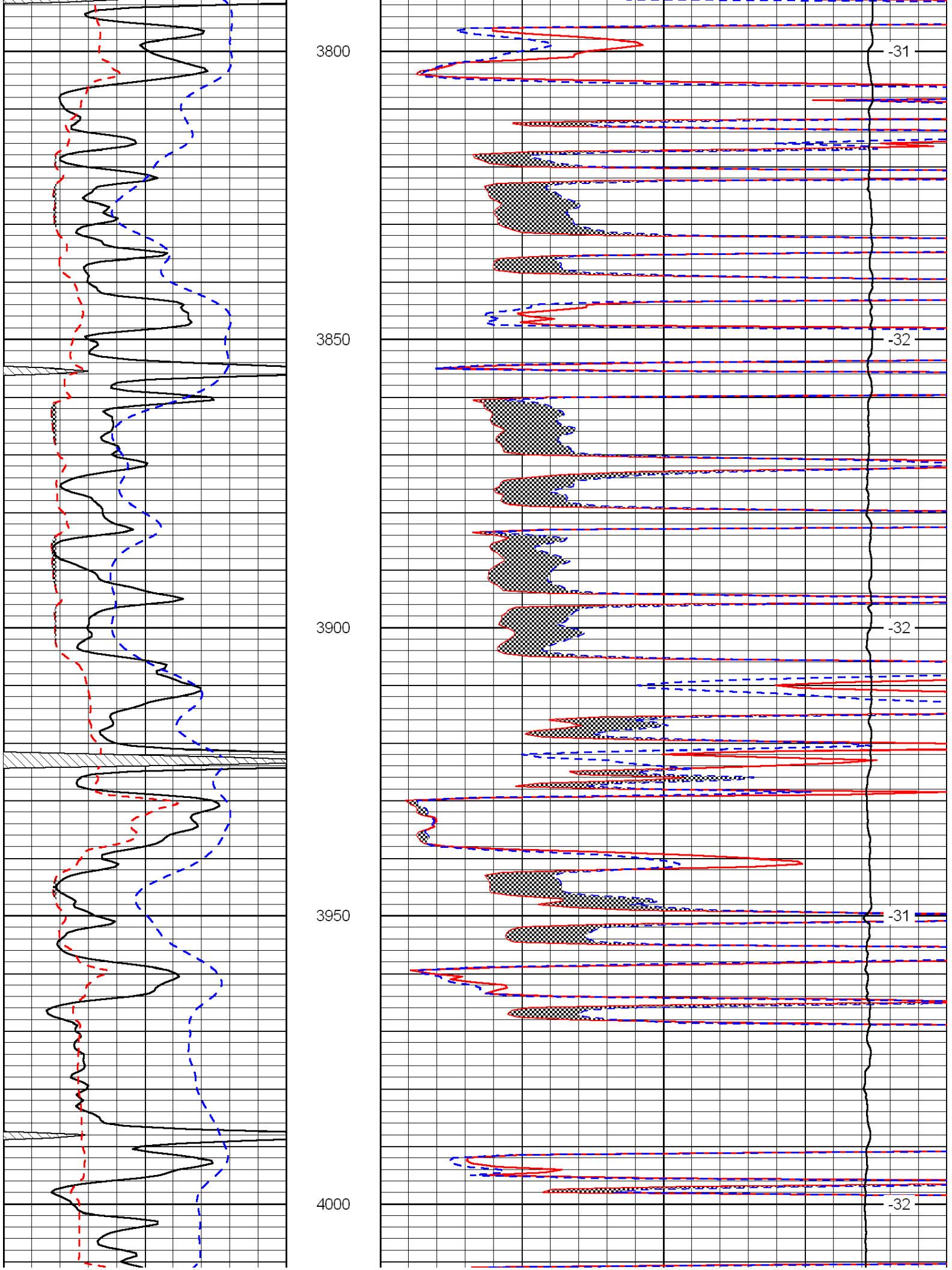
Comments

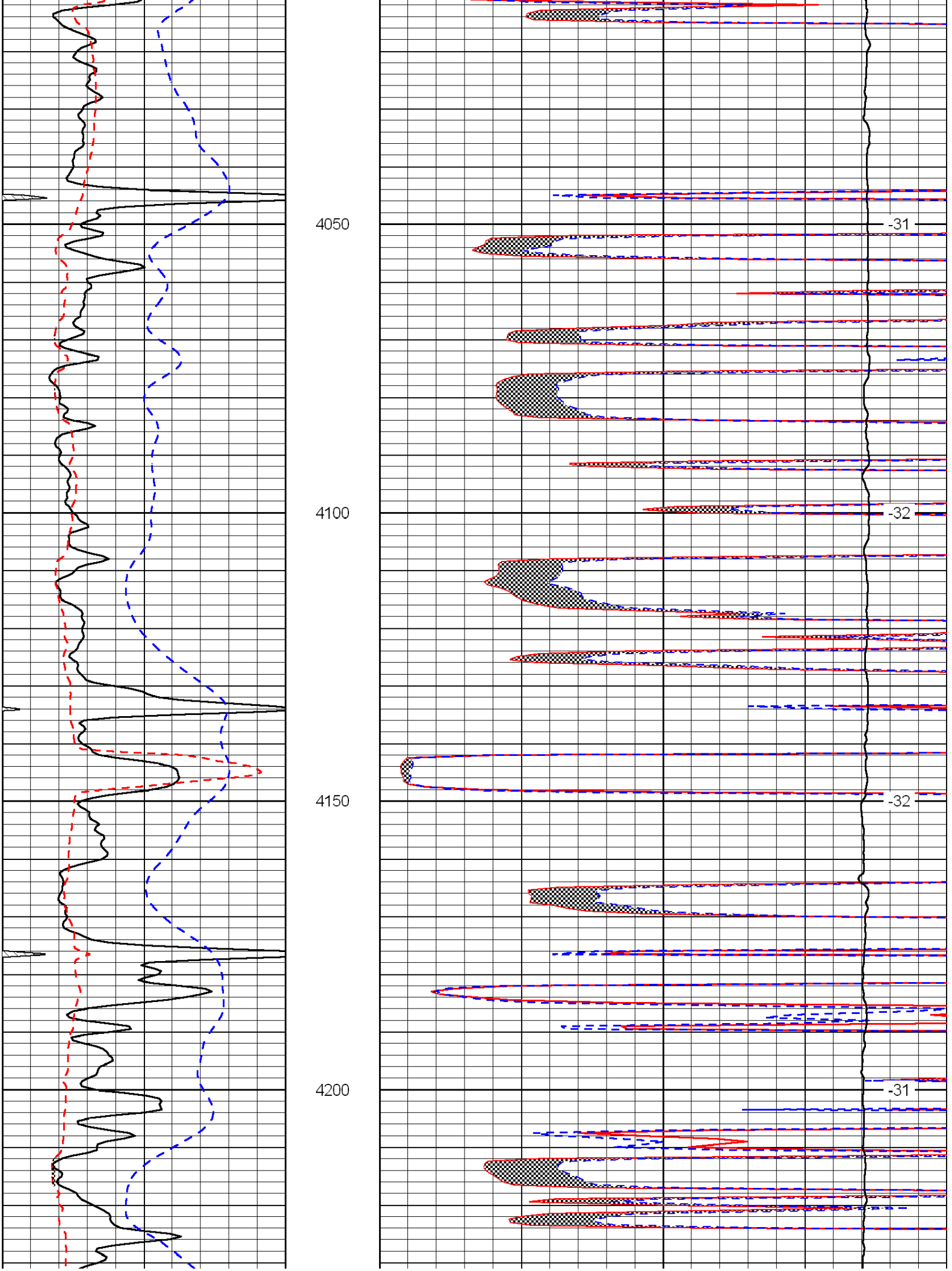
Thank you for using Log-Tech, Inc.
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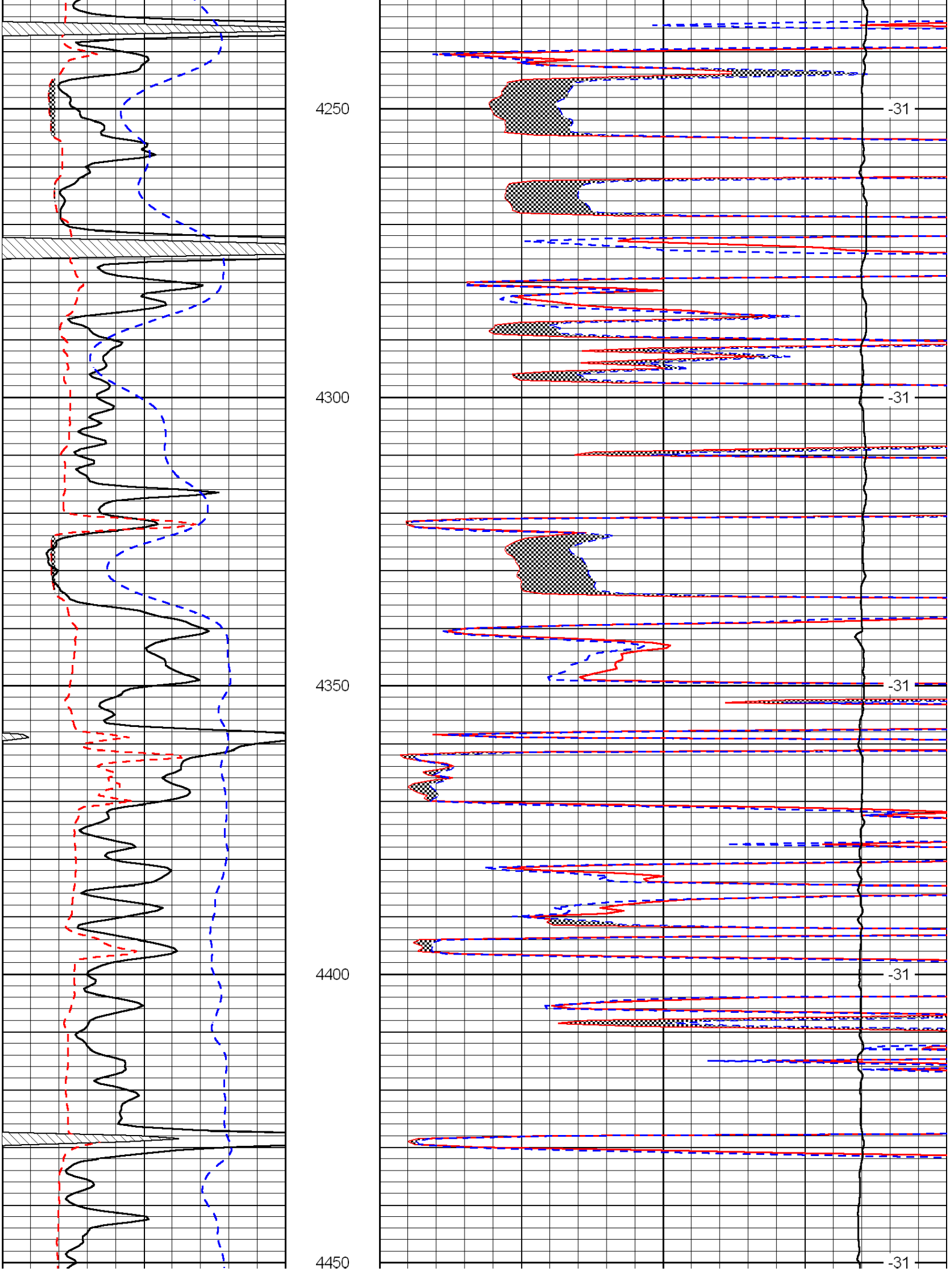
Dighton KS,
West 3 1/4, 1/4 South,
East Into

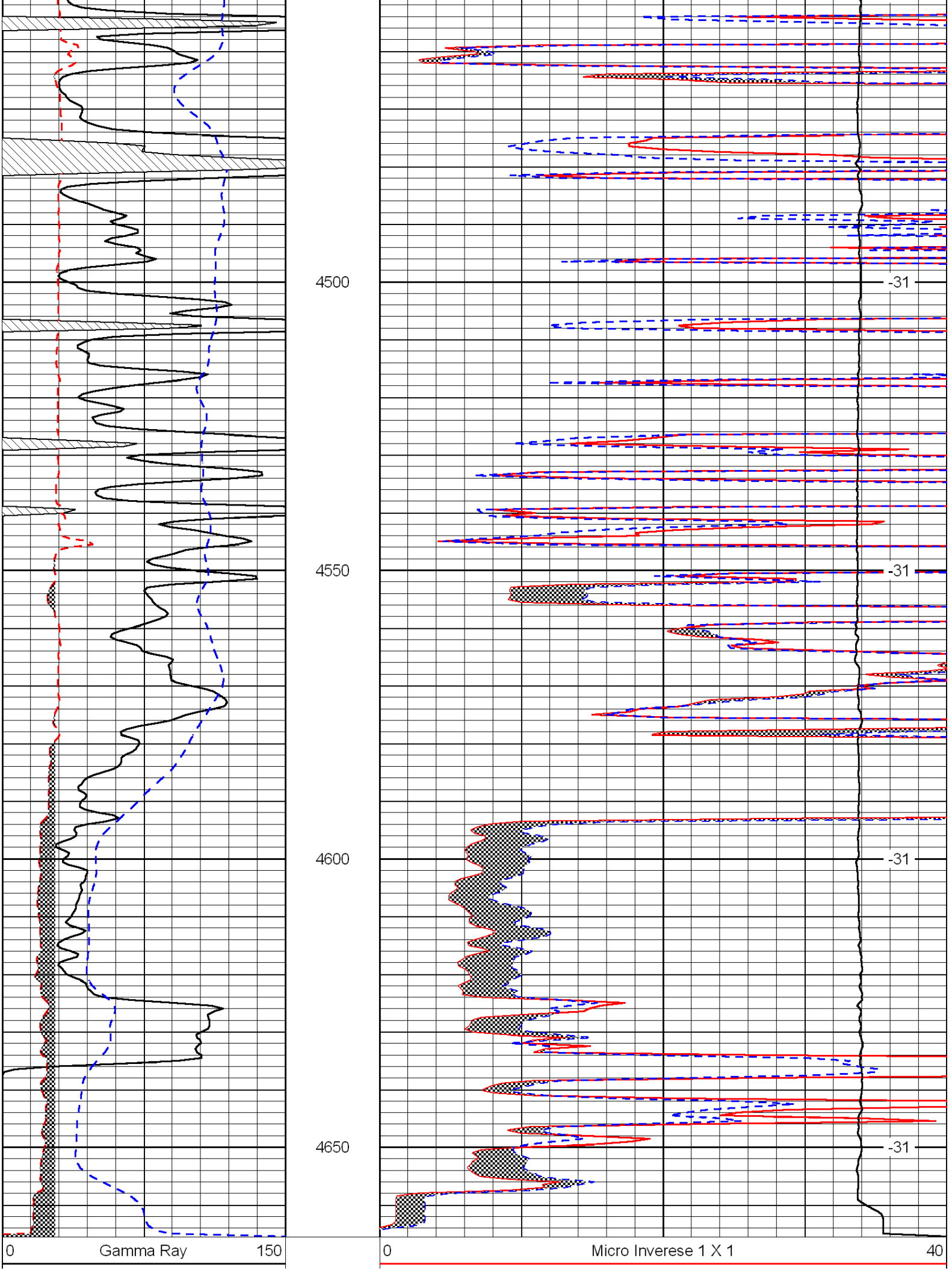
Database File:	c:\warrior\data\larson_gail no. 1-21\larson_gail_1_21hd.db
Dataset Pathname:	DIL/larstk
Presentation Format:	micro
Dataset Creation:	Mon Nov 14 23:23:13 2011
Charted by:	Depth in Feet scaled 1:240


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


3800
3850
3900
3950
4000
-31
-32
-32
-31
-32


4050
4100
4150
4200
-31
-32
-32
-31


4250
4300
4350
4400
4450
-31
-31
-31
-31
-31


4500
4550
4600
4650
-31
-31
-31
-31
0
Gamma Ray
150
0
Micro Inverese 1 X 1
40

6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Normal 2"	40
15000	Line Weight	0

LSPD