PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-163-24,104-00-00

Company Great Plains Energy, Inc.

Well Karr No. 1 - 17

Field Axelson Northeast

County Rooks State Kansas

Location N/2 NW SW SW
1090' FSL & 330' FWL
Sec: 17 Twp: 7 S Rge: 18 W

Other Services
CNL/CDL
DIL

Elevation
K.B. 1937
D.F.
G.L. 1932

Permanent Datum Ground Level Elevation 1932
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	3/16/2013			
Run Number	Two			
Depth Driller	3458			
Depth Logger	3459			
Bottom Logged Interval	3458			
Top Log Interval	2600			
Casing Driller	8.625 @ 218			
Casing Logger	217			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	2100			
Density / Viscosity	8.9 55			
pH / Fluid Loss	11.0 6.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	.65 @ 63			
Rmf @ Meas. Temp	.49 @ 63			
Rmc @ Meas. Temp	.88 @ 63			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.37 @ 111			
Operating Rig Time	4 Hours			
Max. Rec. Temp. F	111			
Equipment Number	108			
Location	Hays			
Recorded By	D. Martin			
Witnessed By	Larry Nicholson			

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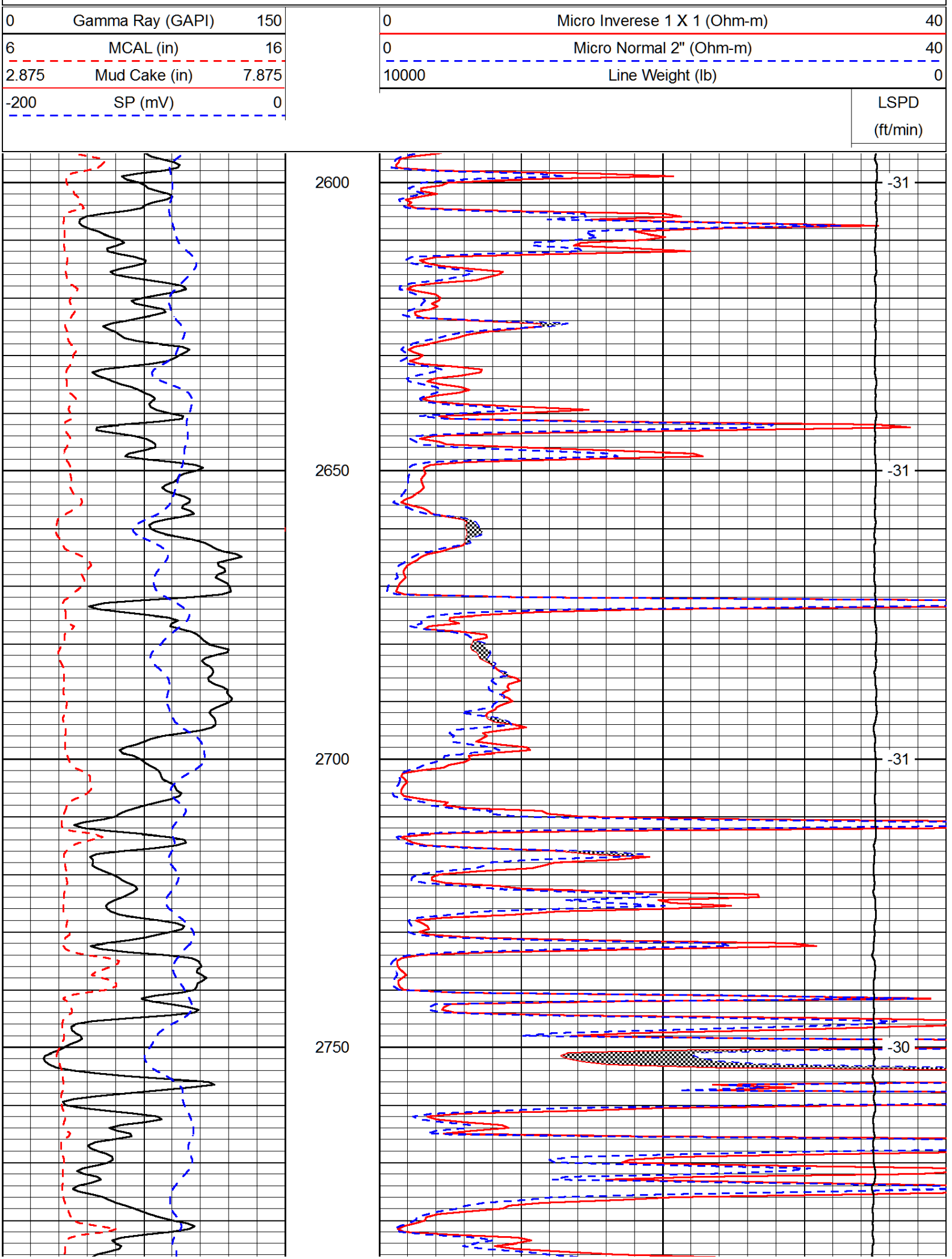
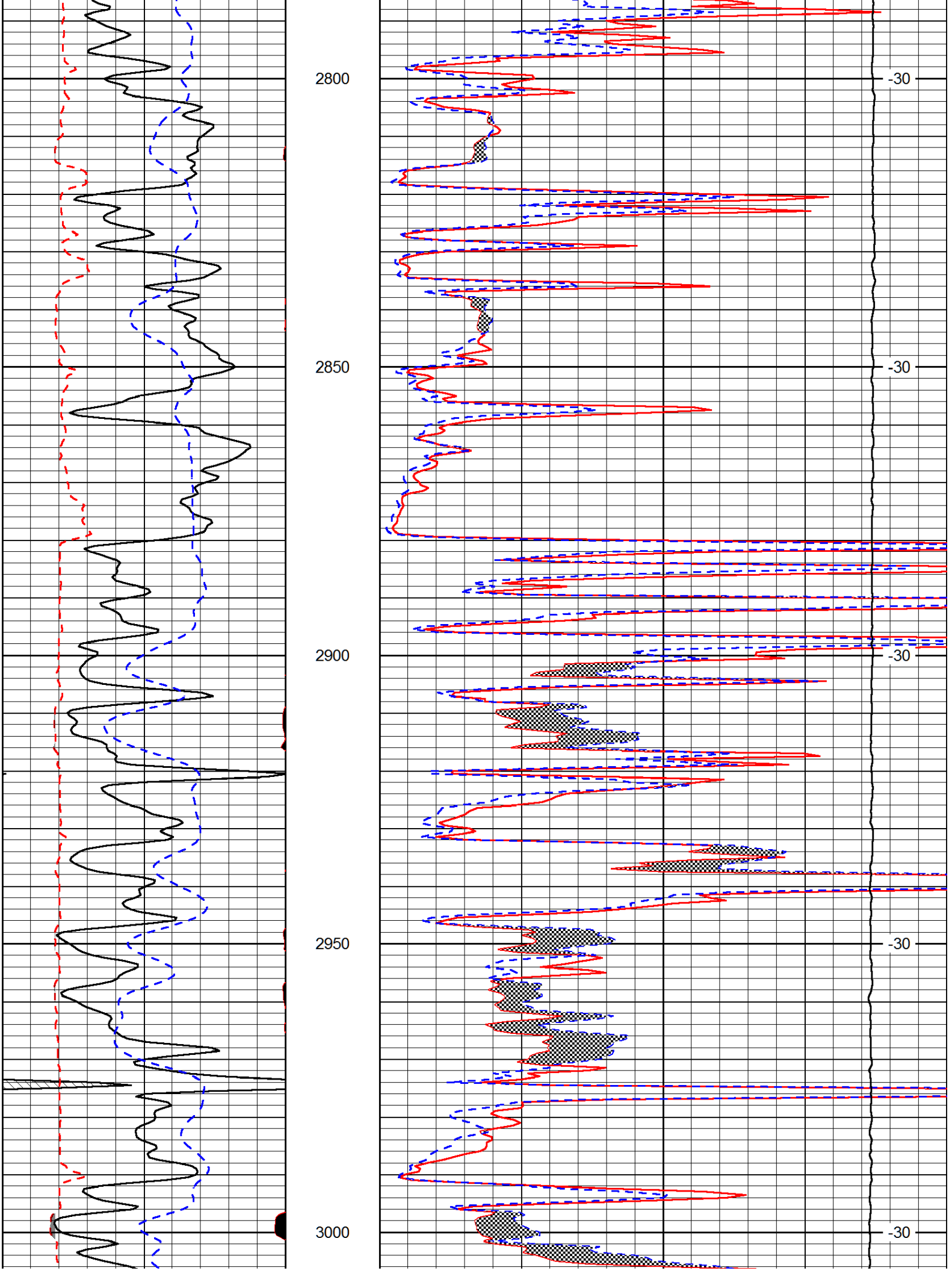
Comments

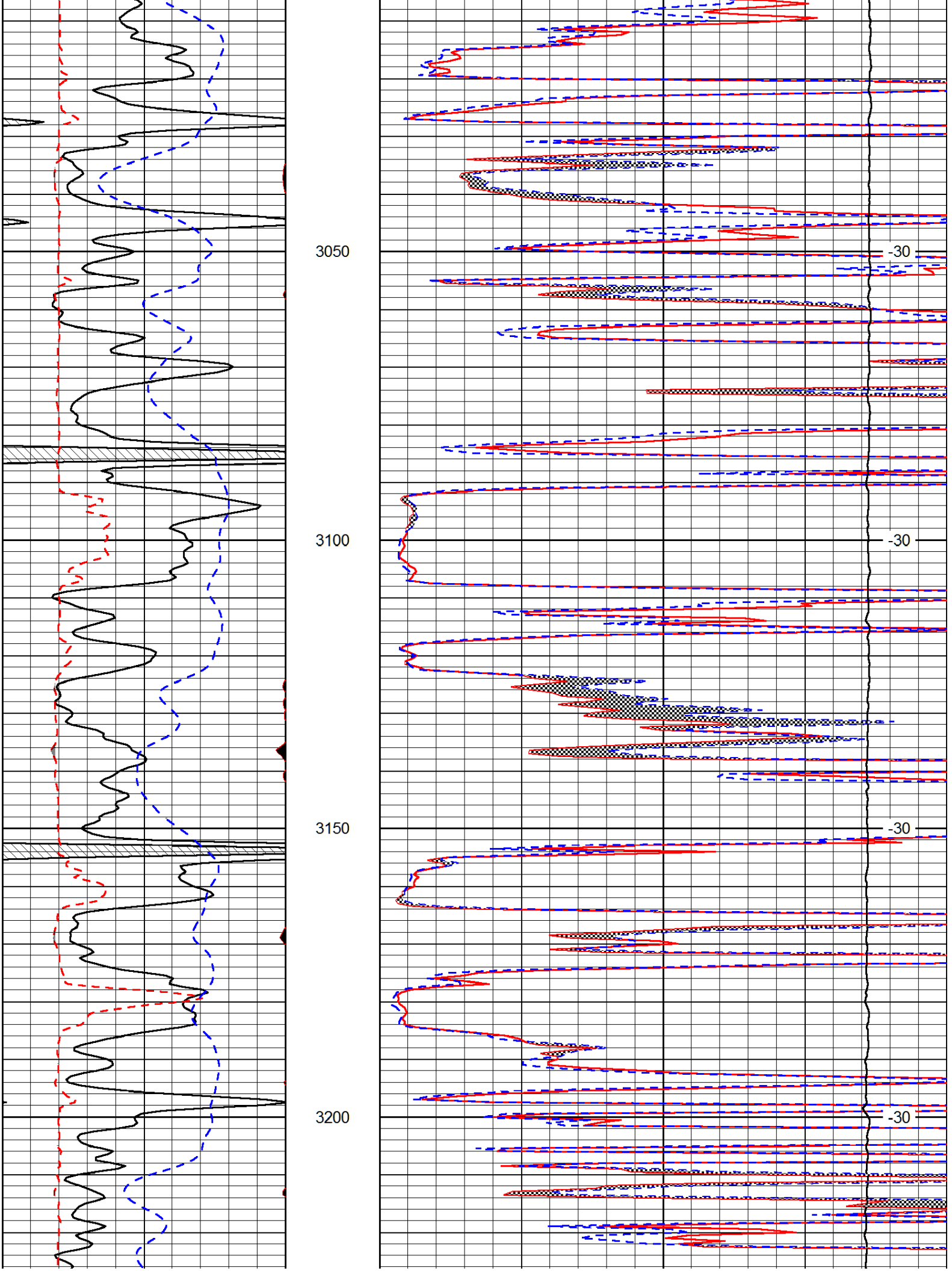
Thank you for using Log-Tech, Inc.
(785) 625-3858

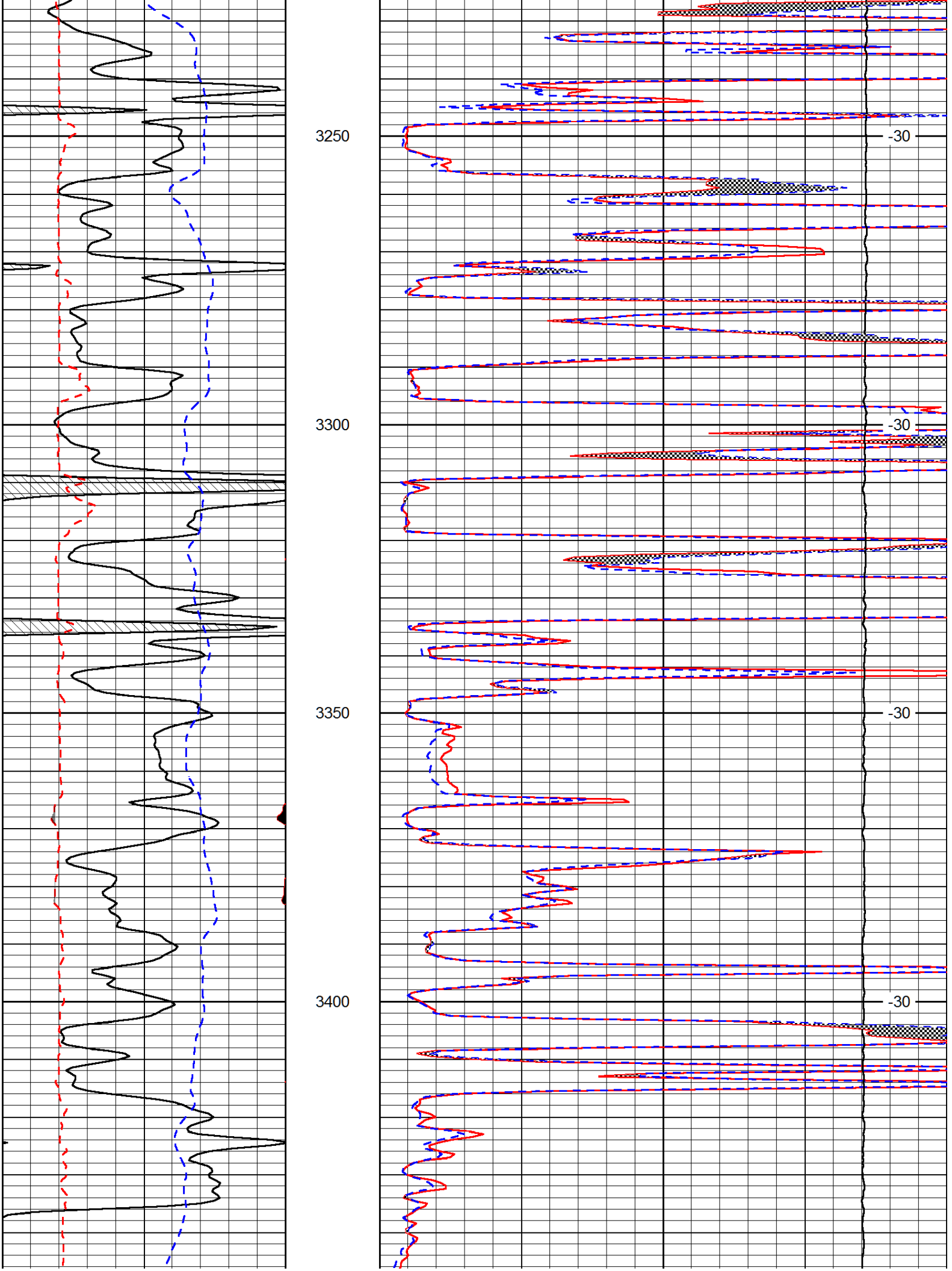
Stockton, KS
3 W on Highway to Curve,
1 W on J Rd., 1/4 N, E Into

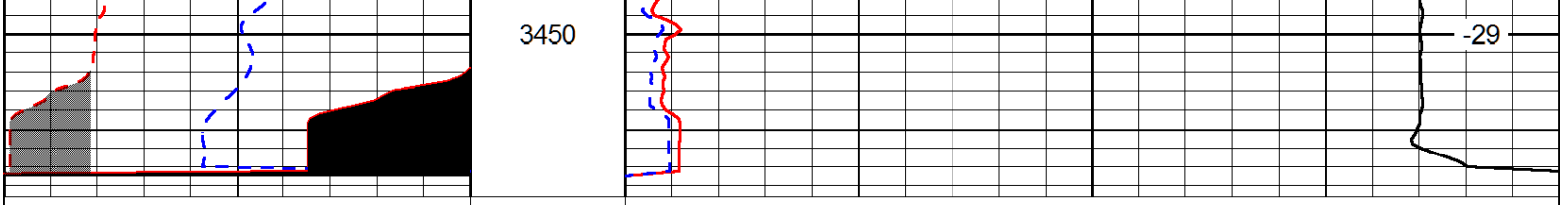
Database File: grplhd.db
Dataset Pathname: DIL/grplstk
Presentation Format: micro
Dataset Creation: Sat Mar 16 05:00:50 2013
Charted by: Depth in Feet scaled 1:240


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)
2600
2650
2700
2750
-31
-31
-31
-30


2800
2850
2900
2950
3000
-30
-30
-30
-30
-30


3050
3100
3150
3200
-30
-30
-30
-30


3250
3300
3350
3400
-30
-30
-30
-30



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LSPD
(ft/min)