PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-159-22750-00-00

Company Carrie Exploration and Development

Well Doll "C" #1

Field Chase-Silica

County Rice State Kansas

Location 2300' FSL & 2300' FWL

Sec: 19 Twp: 19 S Rge: 10 W

Other Services
CNL/CDL
DIL

Elevation
K.B. 1778
D.F.
G.L. 1769

Permanent Datum Ground Level Elevation 1769
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	09-15-2013			
Run Number	Two			
Depth Driller	3390			
Depth Logger	3389			
Bottom Logged Interval	3388			
Top Log Interval	2500			
Casing Driller	8.625 @ 296			
Casing Logger	296			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4000			
Density / Viscosity	9.1 48			
pH / Fluid Loss	9.5 9.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.52 @ 81			
Rmf @ Meas. Temp	0.39 @ 81			
Rmc @ Meas. Temp	0.70 @ 81			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.38 @ 112			
Operating Rig Time	3 1/2 Hours			
Max. Rec. Temp. F	112			
Equipment Number	91			
Location	Hays			
Recorded By	Y. Ruiz			
Witnessed By	Steve Reed			

<<< Fold Here >>>

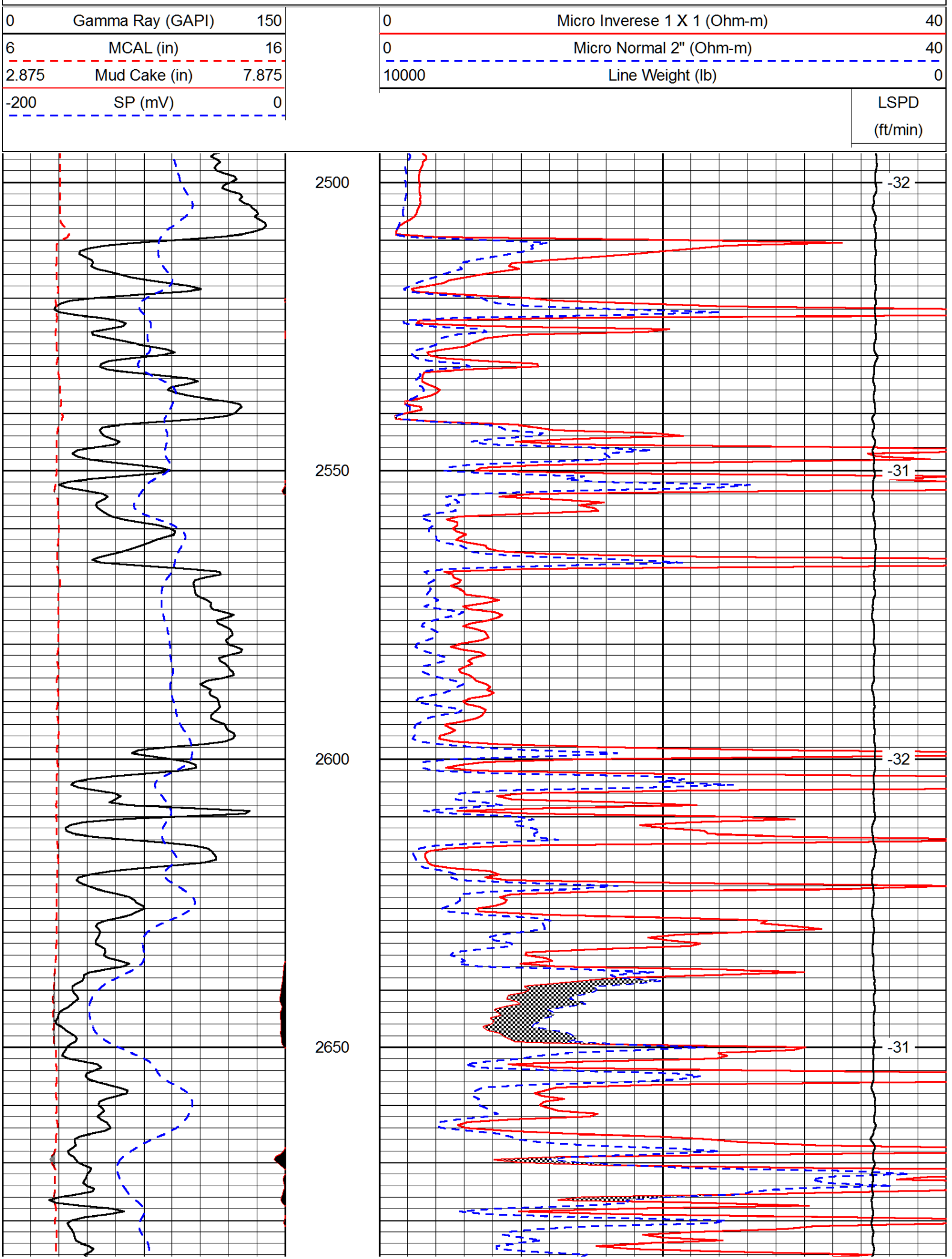
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

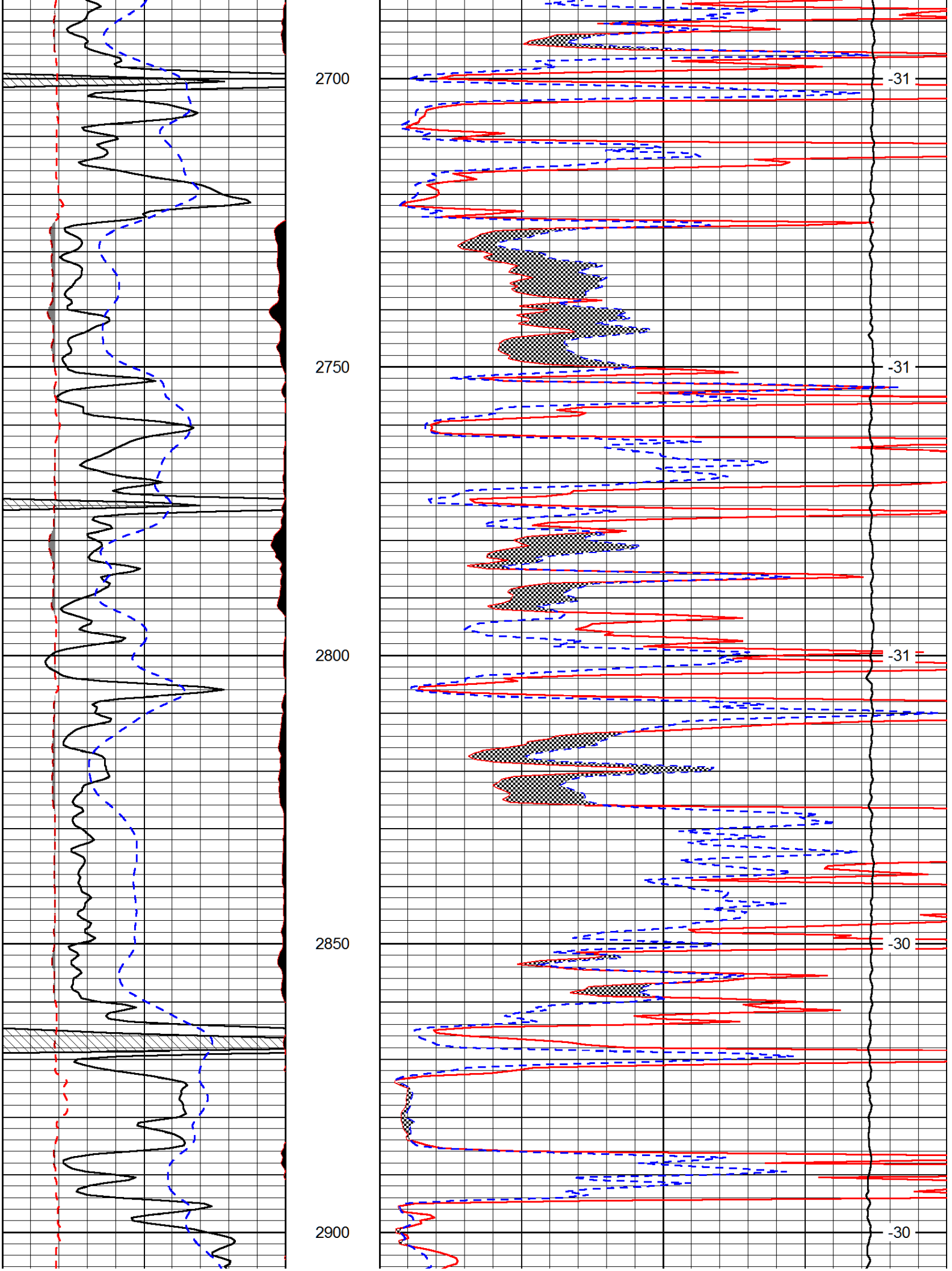
Comments

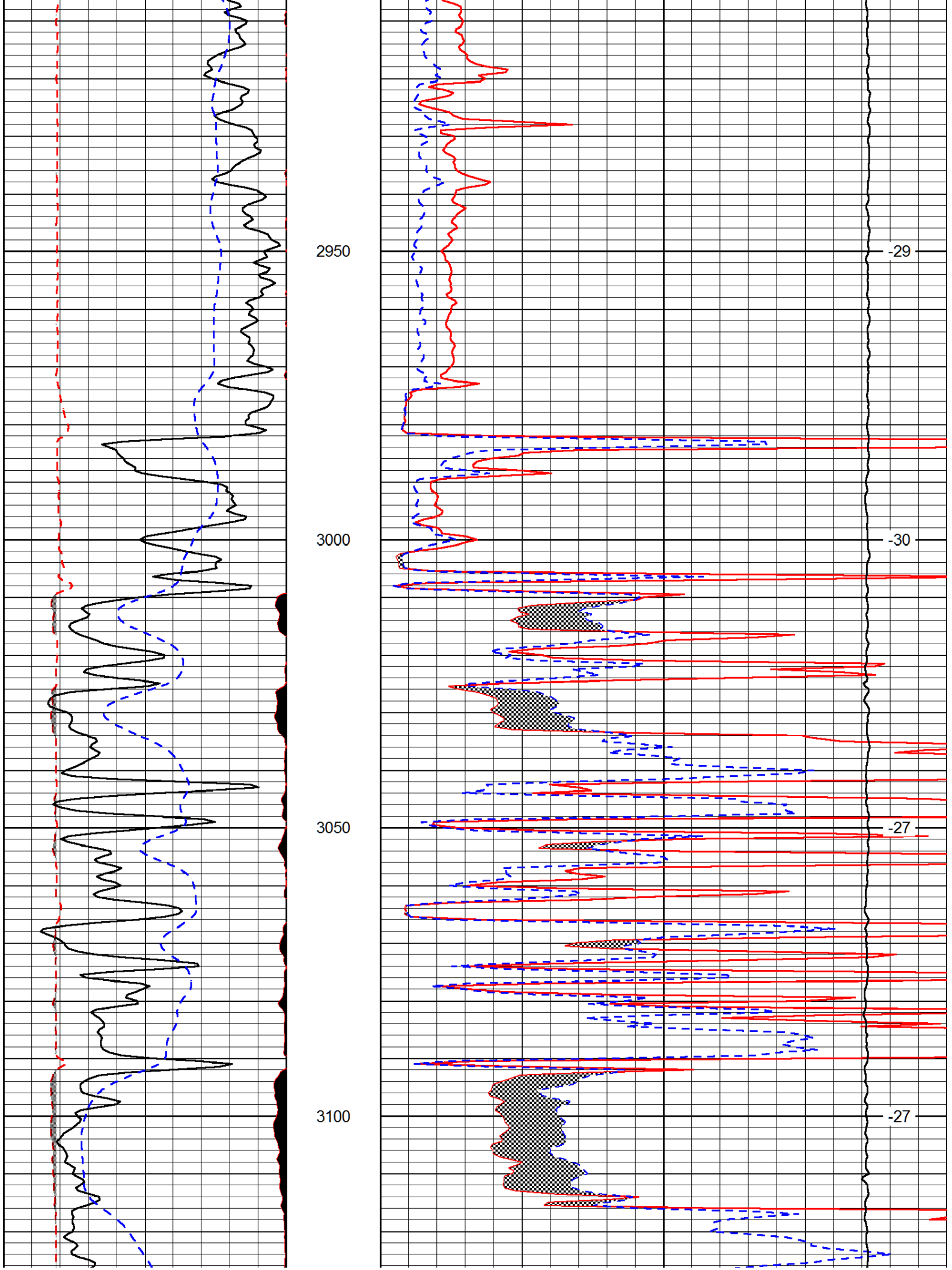
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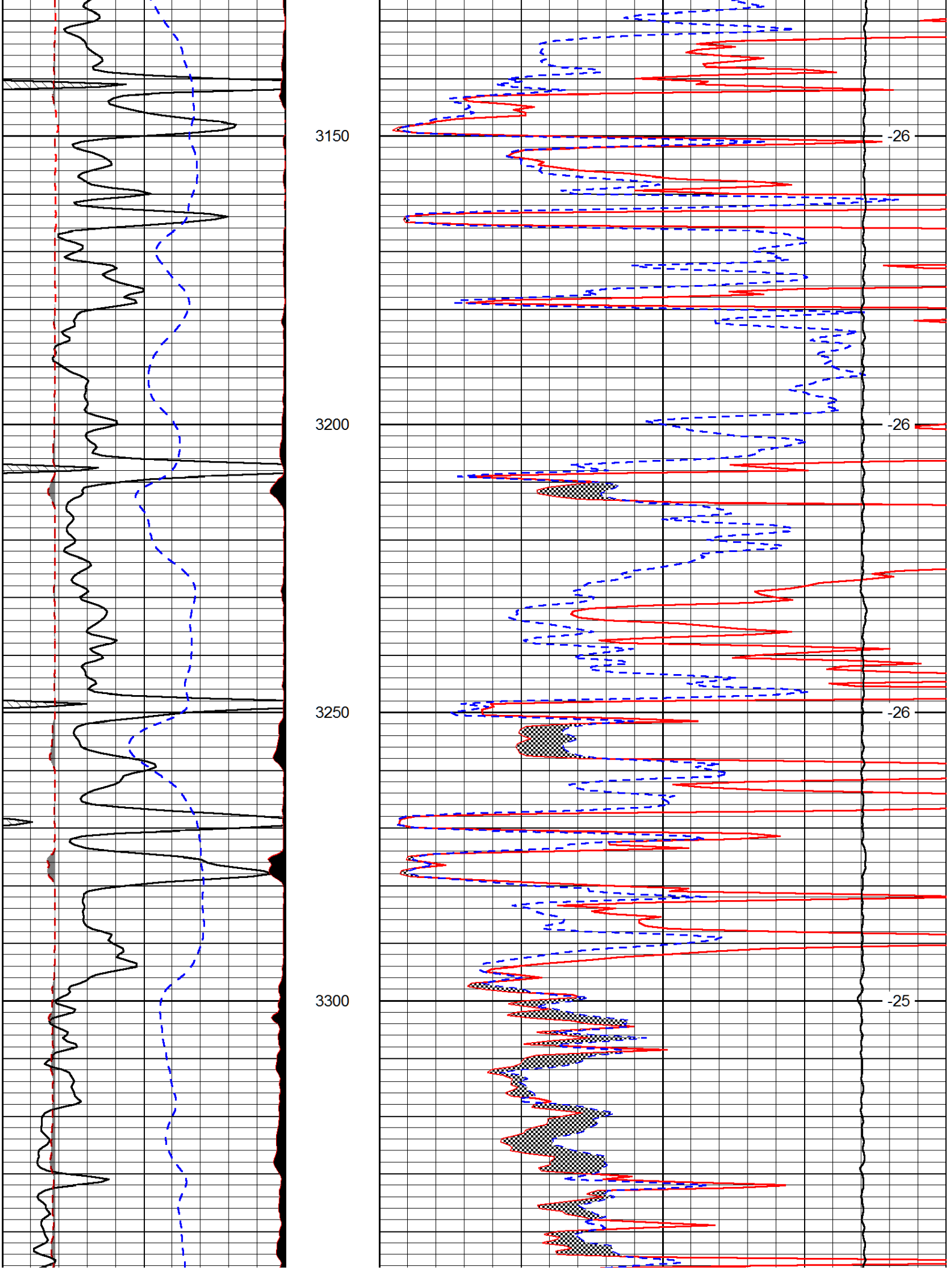
Ellinwood,
2 North, 1/2 East,
North into

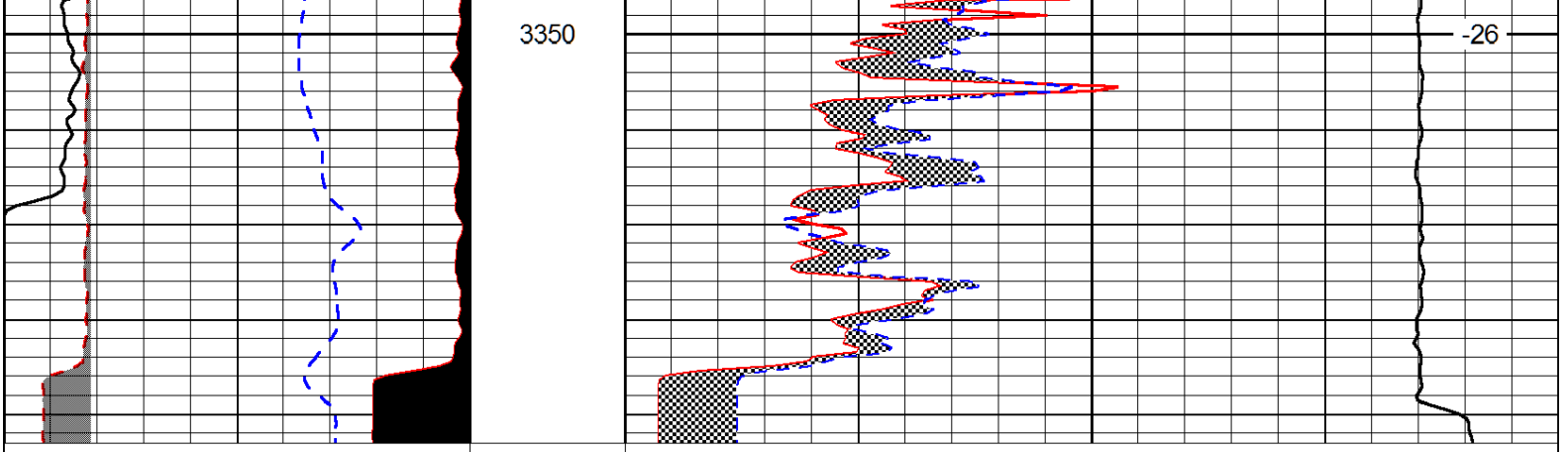
Database File:	carrie_091513hd.db
Dataset Pathname:	dil/carriestk
Presentation Format:	micro
Dataset Creation:	Sun Sep 15 17:22:12 2013
Charted by:	Depth in Feet scaled 1:240


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)
2500
2550
2600
2650
-32
-31
-32
-31


2700
2750
2800
2850
2900
-31
-31
-31
-30
-30


2950
3000
3050
3100
-29
-30
-27
-27


3150
3200
3250
3300
-26
-26
-26
-25



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(ft/min)