PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-179-21330-00-00

Company Culbreath Oil & Gas Company, Inc.

Well Dubois #2-36

Field Unnamed

County Sheridan State Kansas

Location 990' FSL & 1650' FWL

Sec: 36 Twp: 9 S Rge: 26 W

Other Services
CNL/CDL
DIL

Elevation
K.B. 2604
D.F.
G.L. 2594

Permanent Datum	Ground Level	Elevation 2594	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	06-08-2013		
Run Number	Two		
Depth Driller	4150		
Depth Logger	4152		
Bottom Logged Interval	4151		
Top Log Interval	3500		
Casing Driller	8.625 @ 265		
Casing Logger	263		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	3000		
Density / Viscosity	9.3 52		
pH / Fluid Loss	8.0 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.90 @ 75		
Rmf @ Meas. Temp	0.67 @ 75		
Rmc @ Meas. Temp	1.25 @ 75		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.56 @ 120		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	120		
Equipment Number	91		
Location	Hays		
Recorded By	Y. Ruiz	D. Schmidt	
Witnessed By	Pat Deenihan		

<<< Fold Here >>>

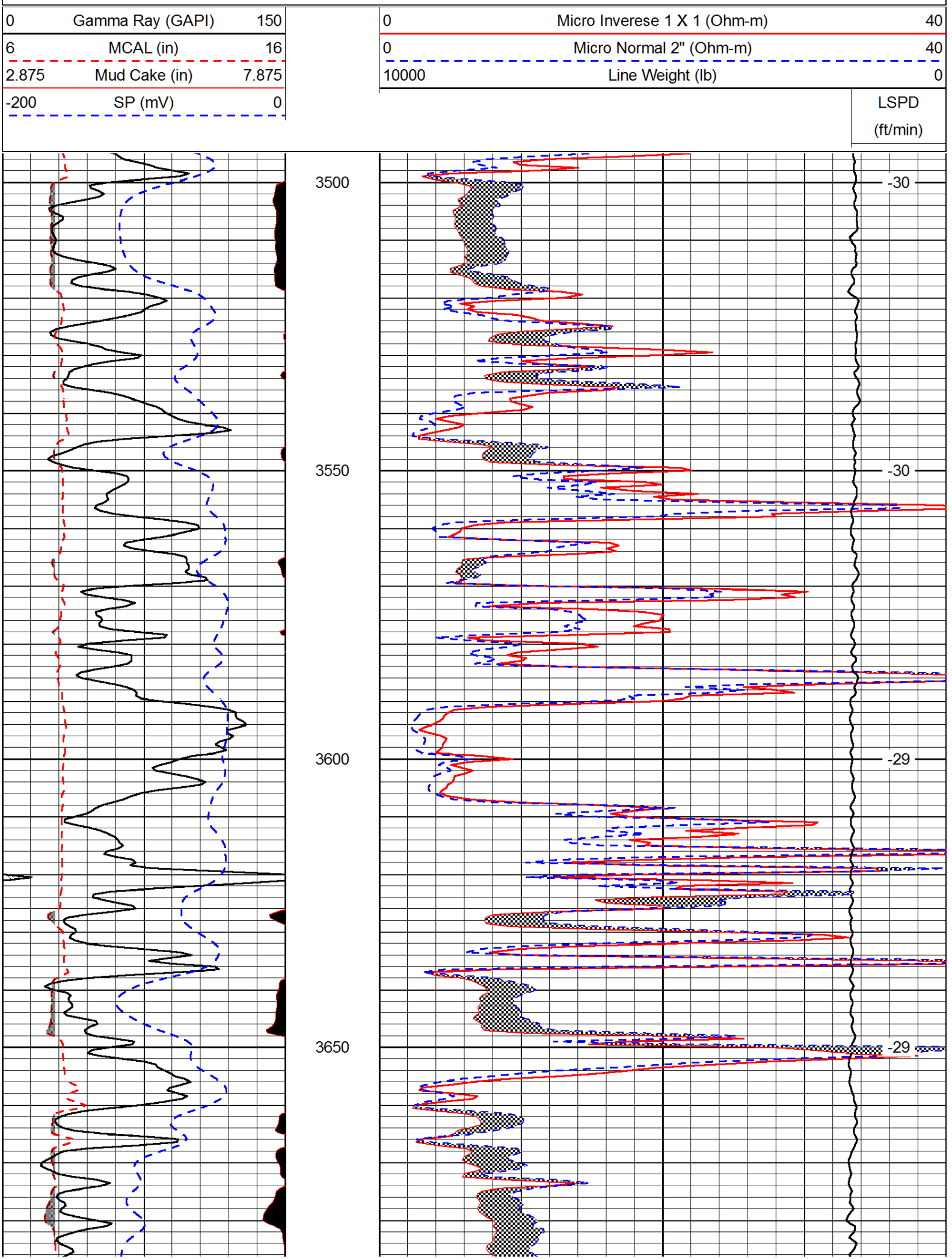
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

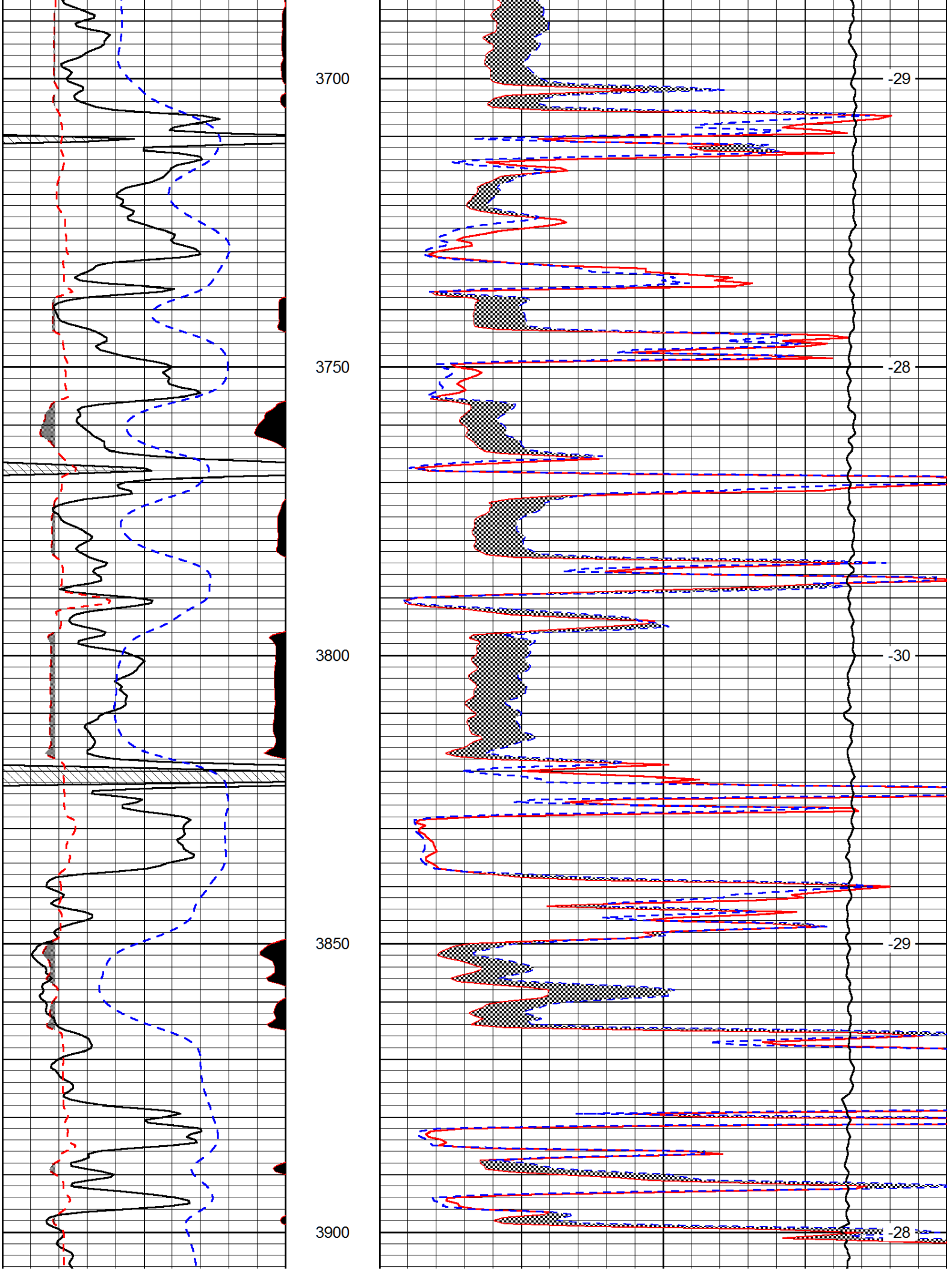
Comments

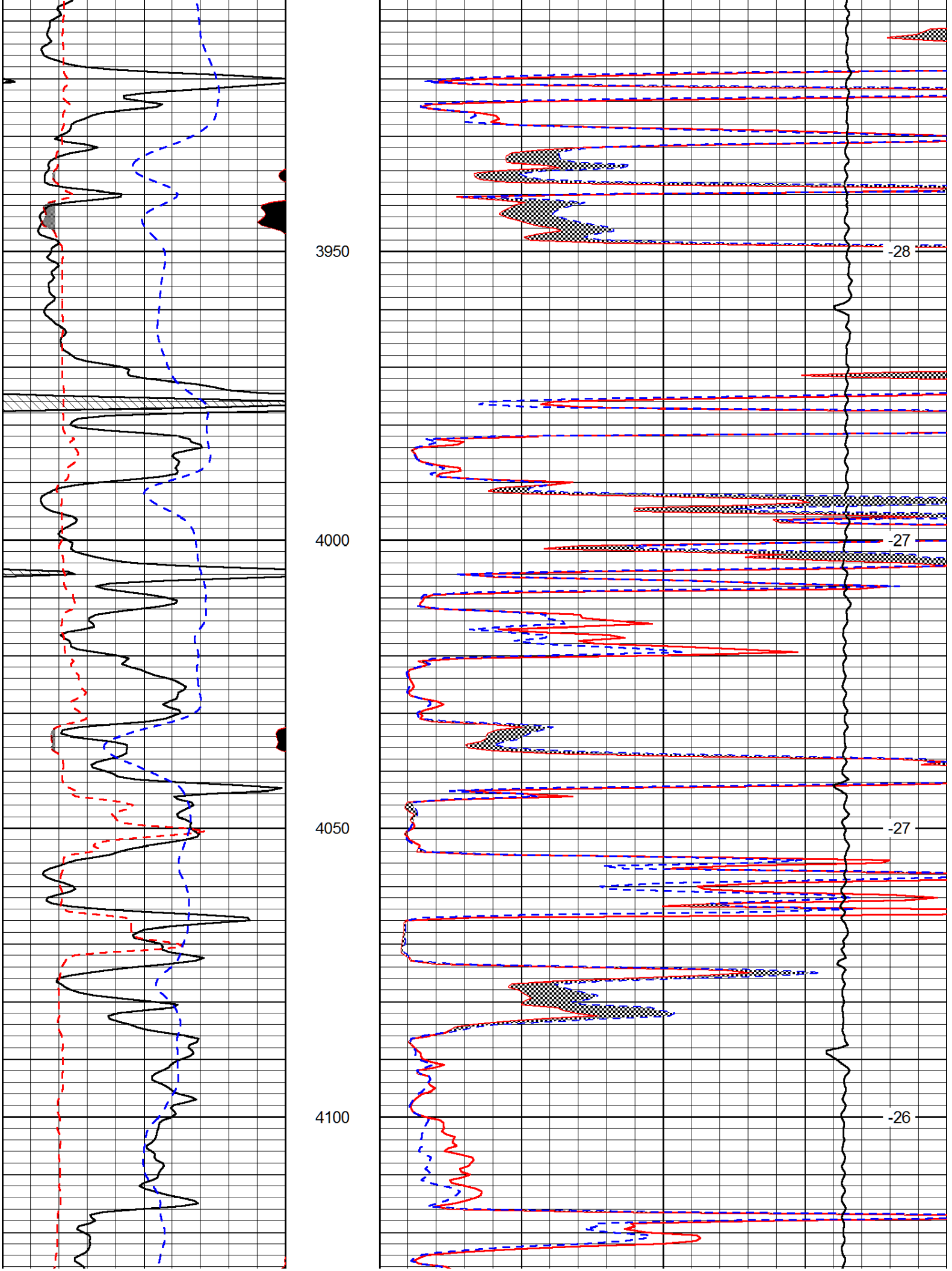
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(785) 625-3858

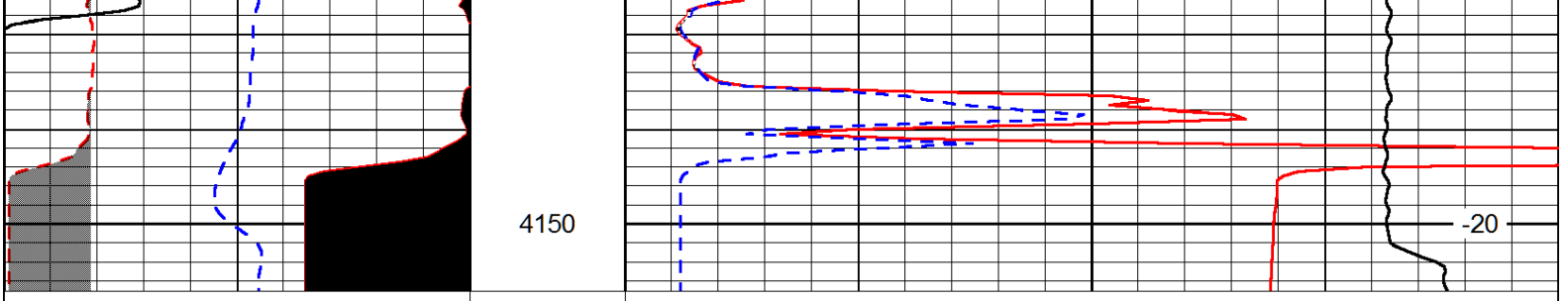
Collyer,
West on Hwy 40 to 78 Rd, 11 1/4 North to 100 Rd, 1/4 East.
North into

Database File:	culbreath_060813hd.db
Dataset Pathname:	dil/custck
Presentation Format:	micro
Dataset Creation:	Sat Jun 08 19:50:54 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)
3500
3550
3600
3650
-30
-30
-29
-29


3700
3750
3800
3850
3900
-29
-28
-30
-29
-28


3950
4000
4050
4100
-28
-27
-27
-26



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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)