



Pioneer Energy Services

Microresistivity Log

API No.	Company Culbreath Oil & Gas Company, Inc.		
	Well Coburn #5-08		
	Field Tilton Northeast		
	County Sheridan	State	Kansas
15-179-21336-00-00	Location	E2 SE NW 1980' FNL / 2310' FWL	
	Sec: 8	Twp: 10S	Rge: 26W
Permanent Datum	Ground Level	Elevation 2586	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	From Kelly Bushing	K.B. 2596 D.F. 2586 G.L. 2586	
Date	7/12/2013		
Run Number	Two		
Depth Driller	4120		
Depth Logger	4118		
Bottom Logged Interval	4117		
Top Log Interval	3500		
Casing Driller	8.625 @ 220		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	800		
Density / Viscosity	9.1 54		
pH / Fluid Loss	9.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.90 @ 74		
Rmf @ Meas. Temp	0.68 @ 74		
Rmc @ Meas. Temp	1.22 @ 74		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.56 @ 119		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	119		
Equipment Number	91		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Steve Murphy		

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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.

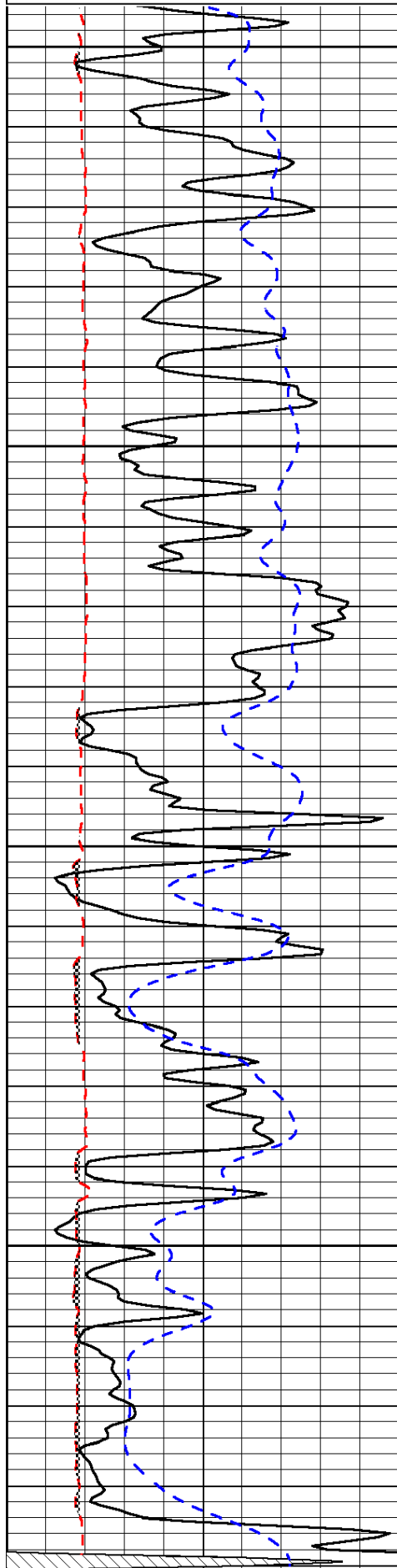
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Quinter, KS:
N edge of town: 7N, 1W, 2N, E into, L at CG

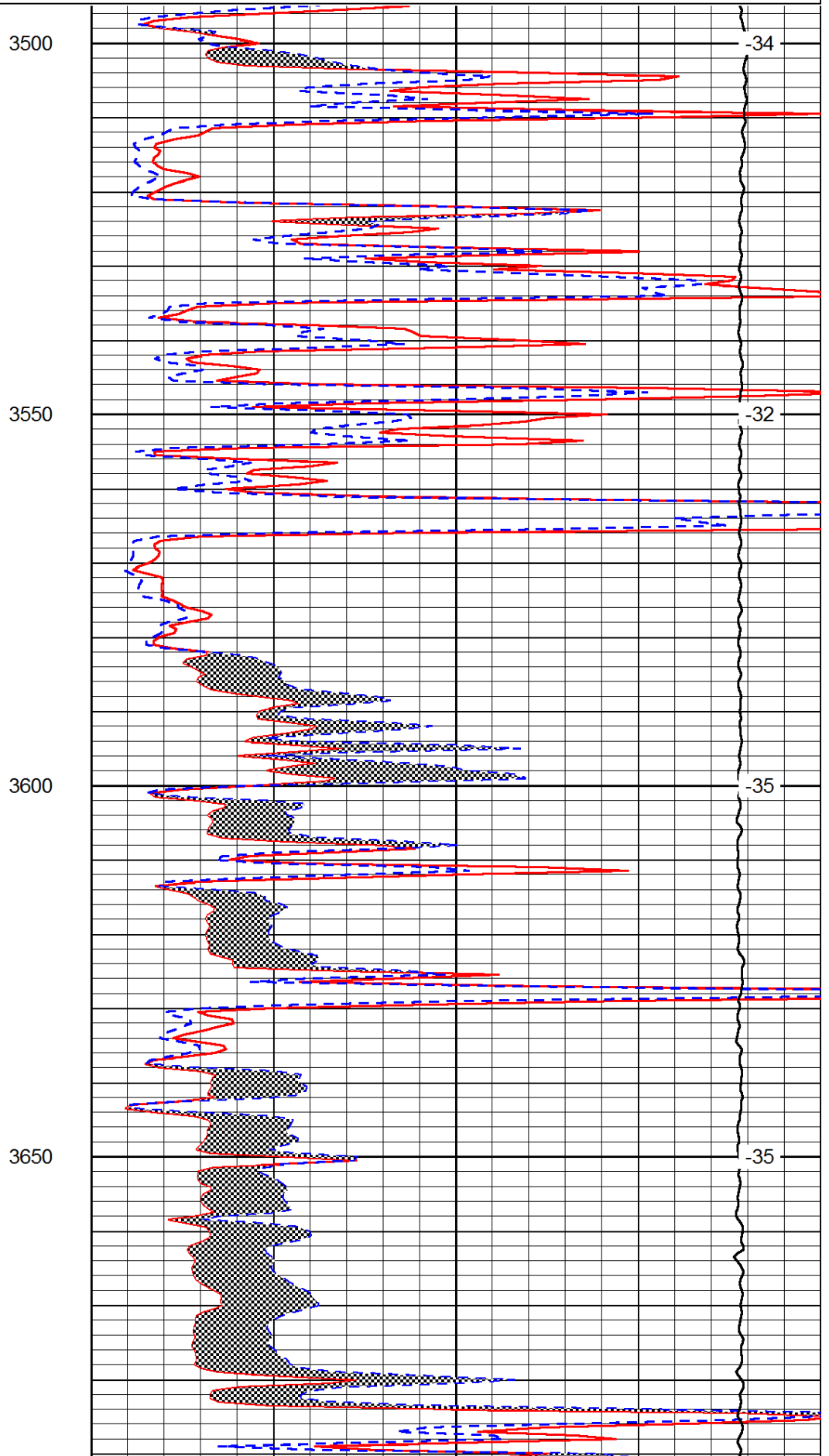
Database File: c:\warrior\data\culbreath_coburn #5-08\culbreath_hd.db
Dataset Pathname: dil/clbmain
Presentation Format: micro
Dataset Creation: Fri Jul 12 08:30:59 2013
Charted by: Depth in Feet scaled 1:240

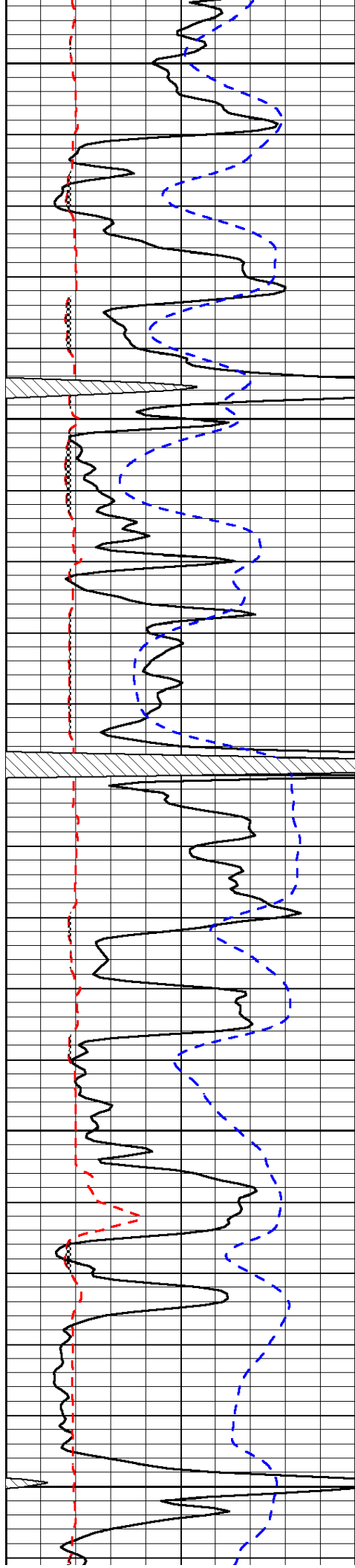
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





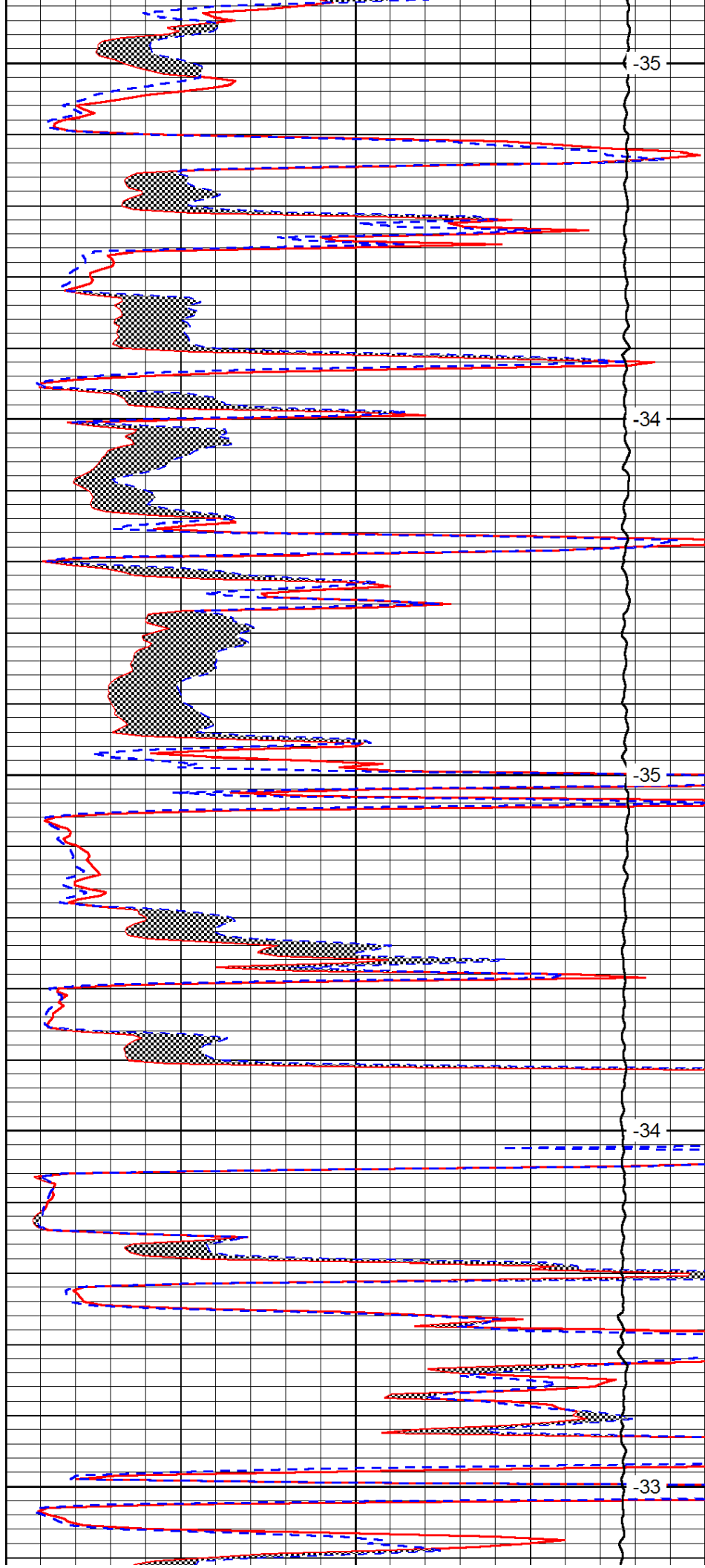
3700

3750

3800

3850

3900



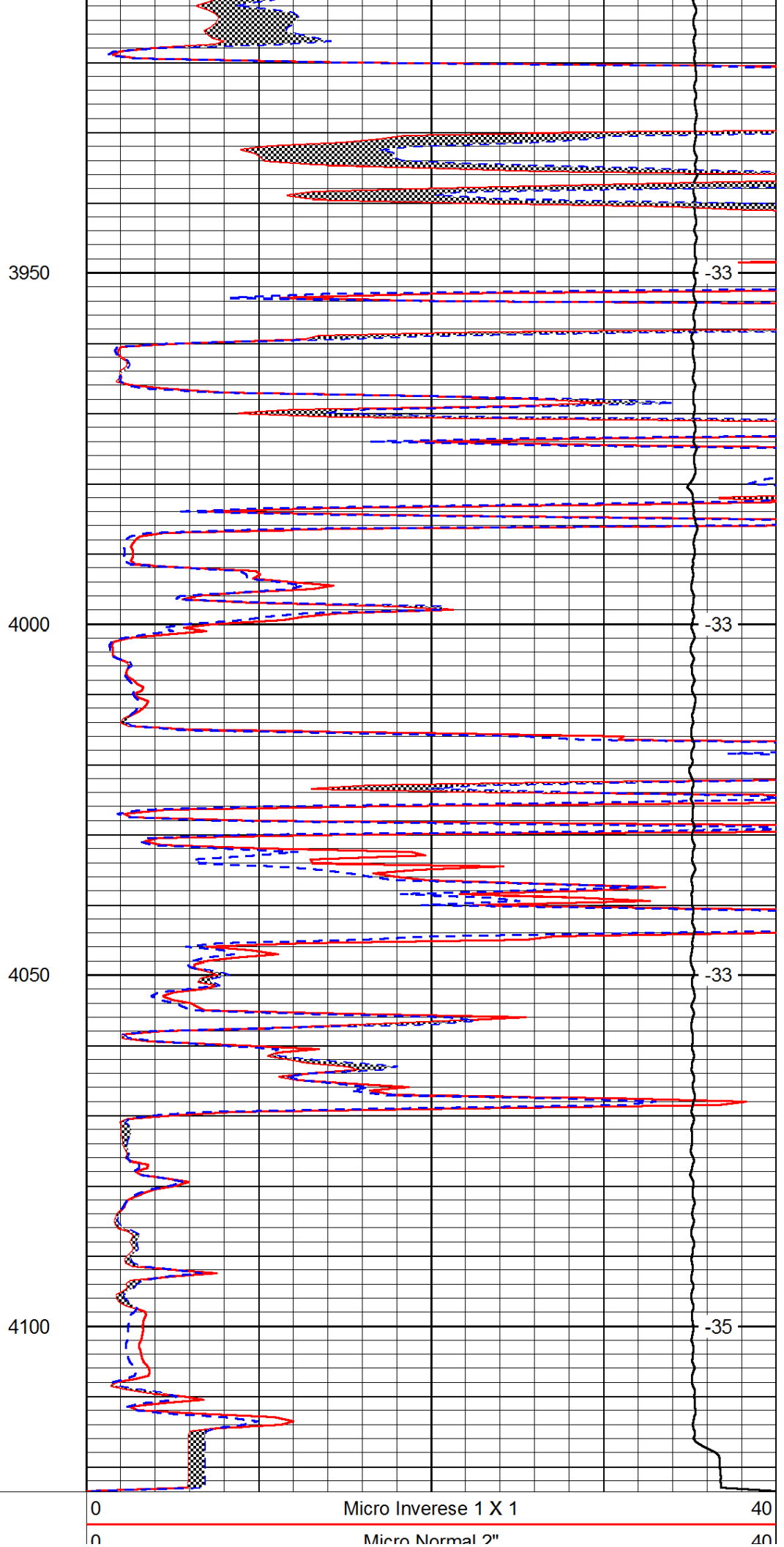
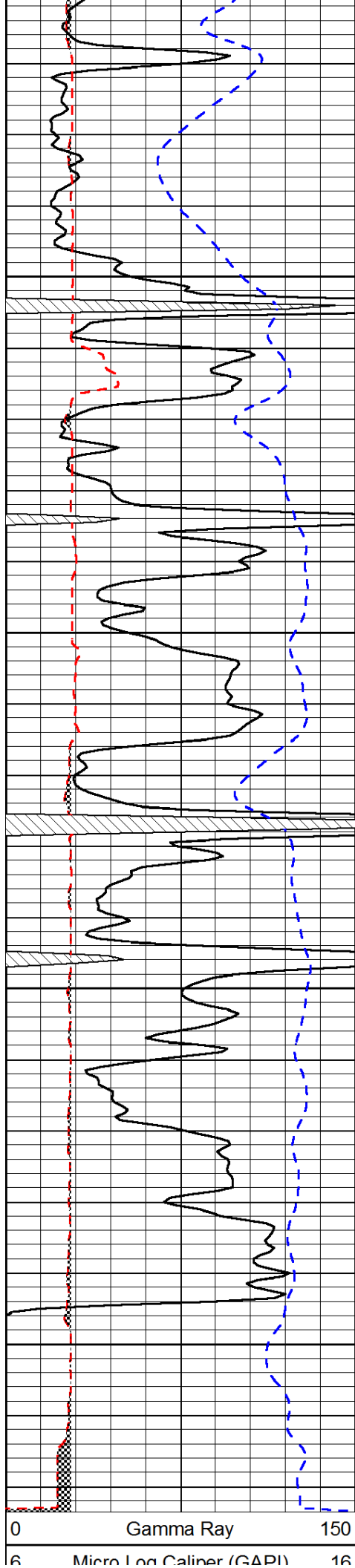
-35

-34

-35

-34

-33



0	Micro Log Caliper (CAH 1)	10
-200	SP (mV)	0

0	Micro Normal 2	10
15000	Line Weight	0

LSPD
