



PIONEER

Pioneer Energy Services

Microresistivity Log

API No.	Company Craig Oil Company		
	Well Krug #10		
	Field Trapp		
	County Russell	State	Kansas
	Location	1610' FNL & 615' FWL	
	Sec: 7	Twp: 15S	Rge: 13W
Permanent Datum	Ground Level	Elevation 1864	Other Services CNL/CDL DIL
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	K.B. 1871 D.F. G.L. 1864
Drilling Measured From	Kelly Bushing		
Date	11/7/2012		
Run Number	Two		
Depth Driller	3365		
Depth Logger	3364		
Bottom Logged Interval	3363		
Top Log Interval	1900		
Casing Driller	8.625 @ 418		
Casing Logger	419		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3000		
Density / Viscosity	8.9	63	
pH / Fluid Loss	10.0	8.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.56 @ 56		
Rmf @ Meas. Temp	0.42 @ 56		
Rmc @ Meas. Temp	0.76 @ 56		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.28 @ 112		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	112		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Jeff Lawler		

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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

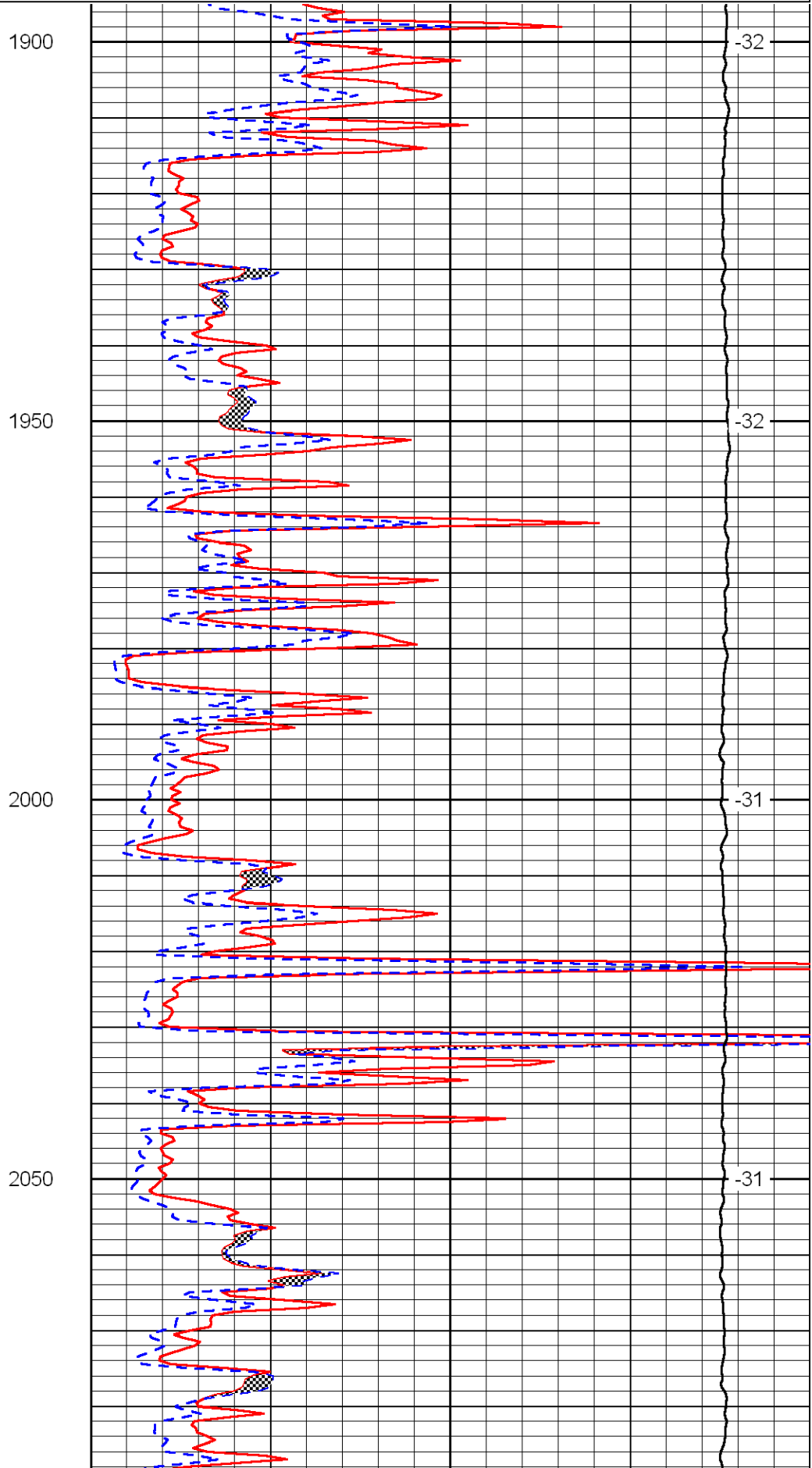
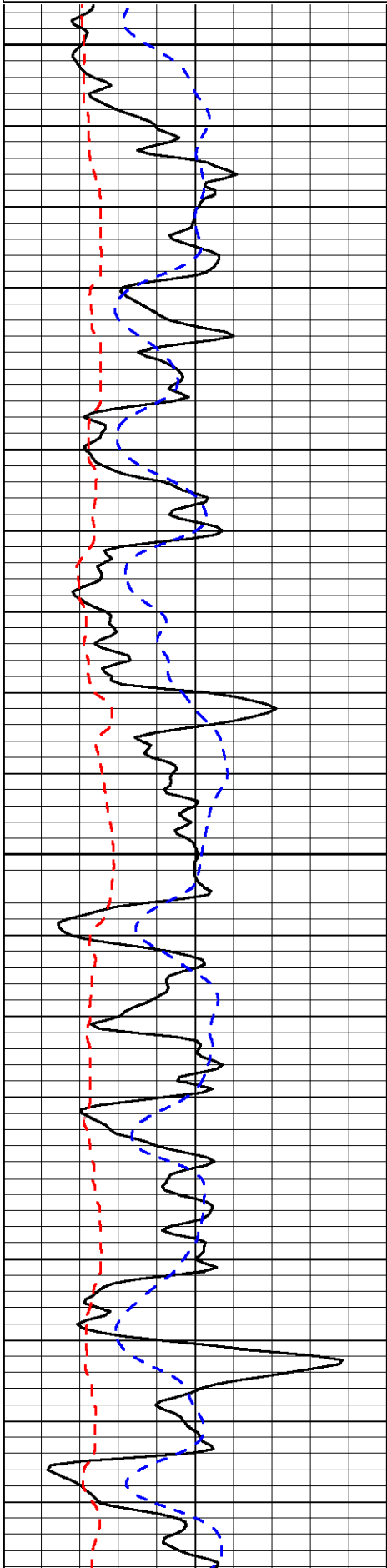
Thank you for using Log-Tech, Inc.
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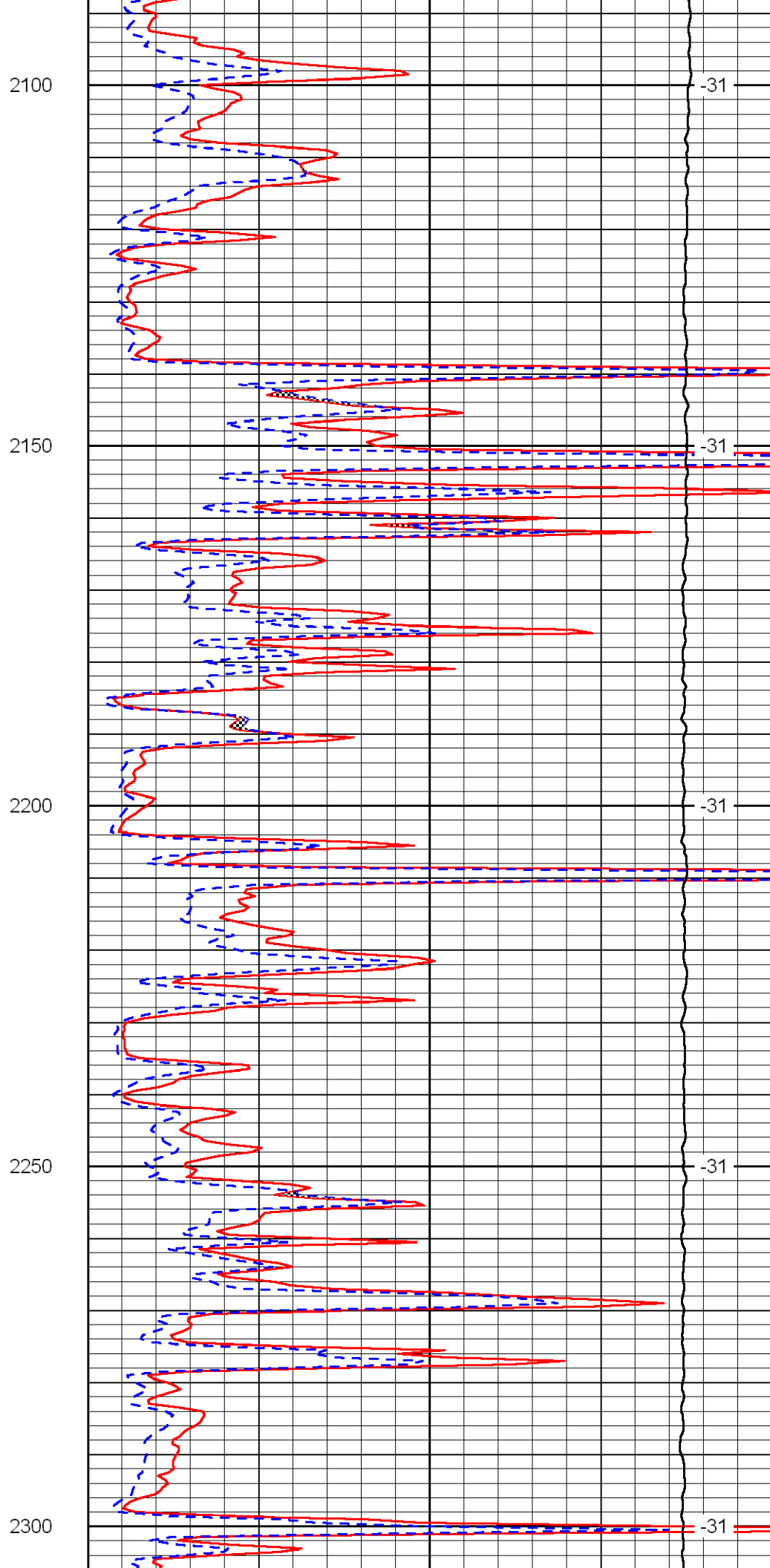
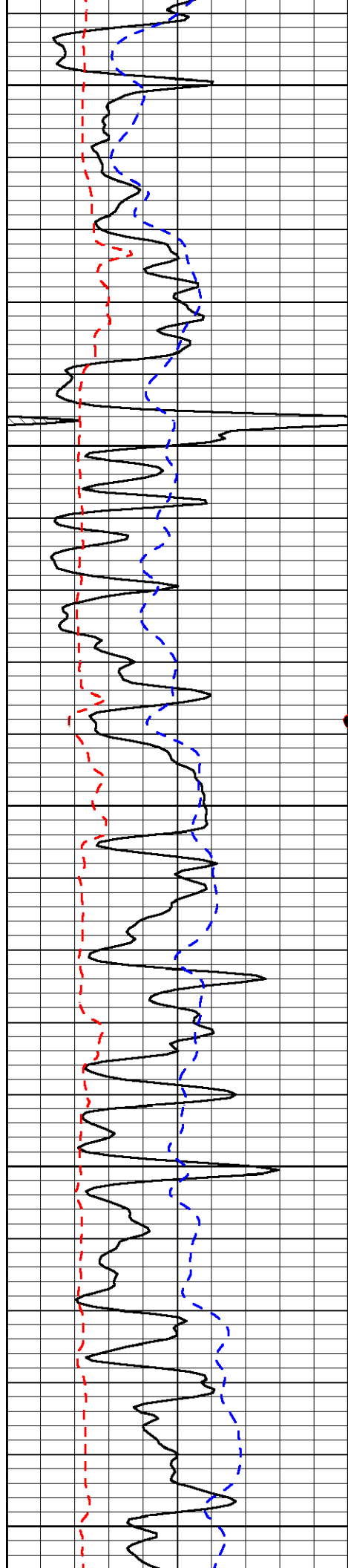
Russell,
8 1/2 South on Hwy 281 to Winterset Rd, 1 1/2 East to 187th,
1 1/2 North, East & North into

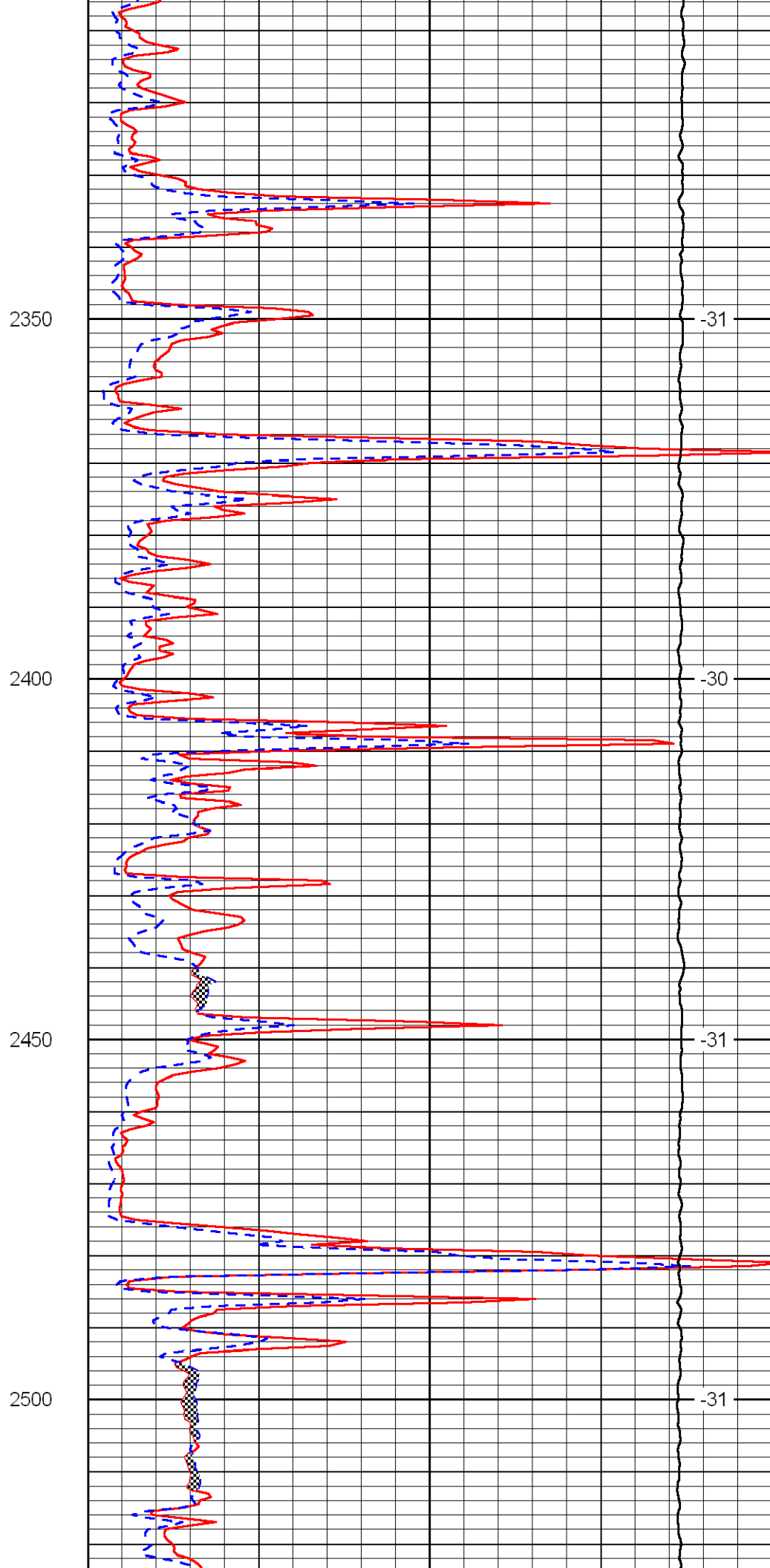
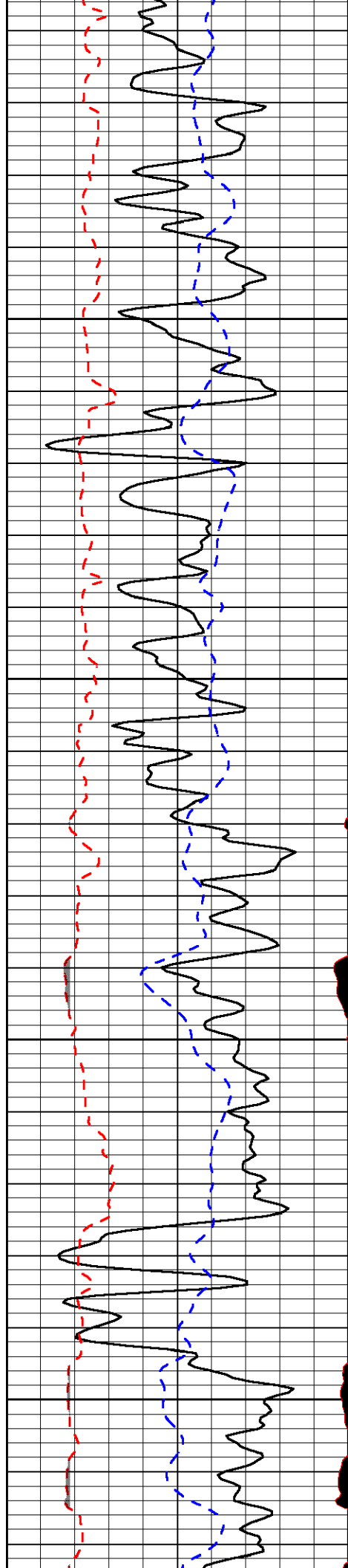
Database File: craig_110712hd.db
Dataset Pathname: dil/crgstack
Presentation Format: micro
Dataset Creation: Wed Nov 07 13:35:22 2012
Charted by: Depth in Feet scaled 1:240

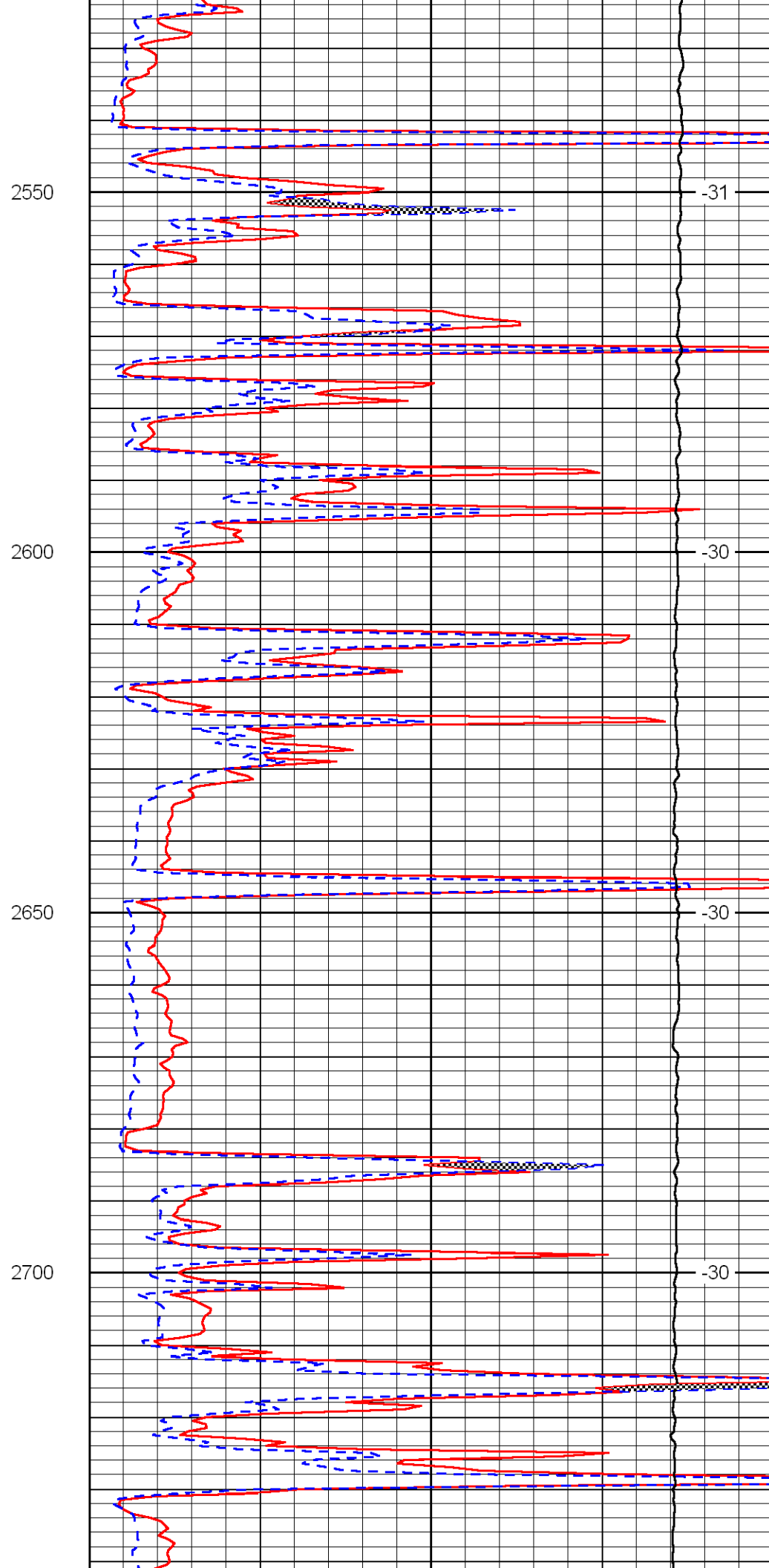
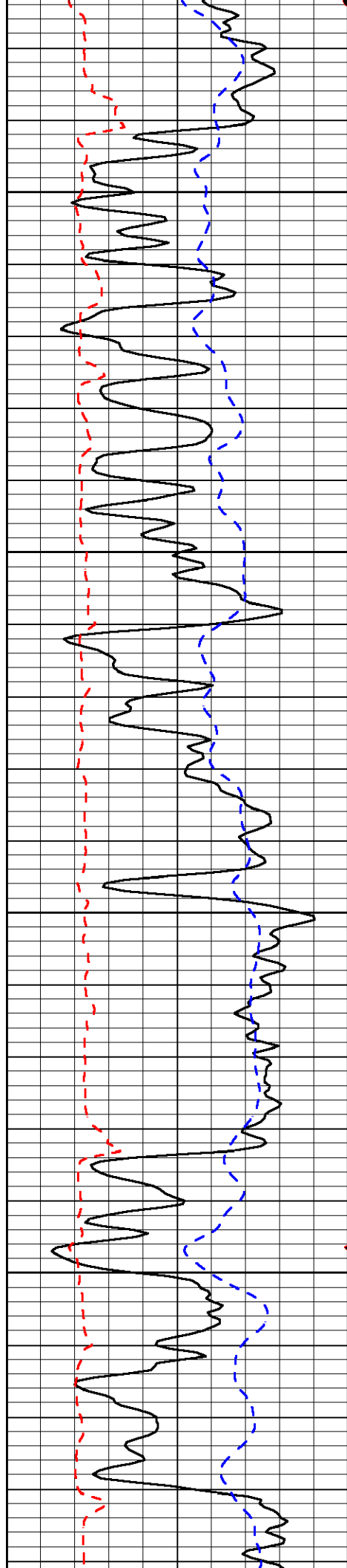
0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0

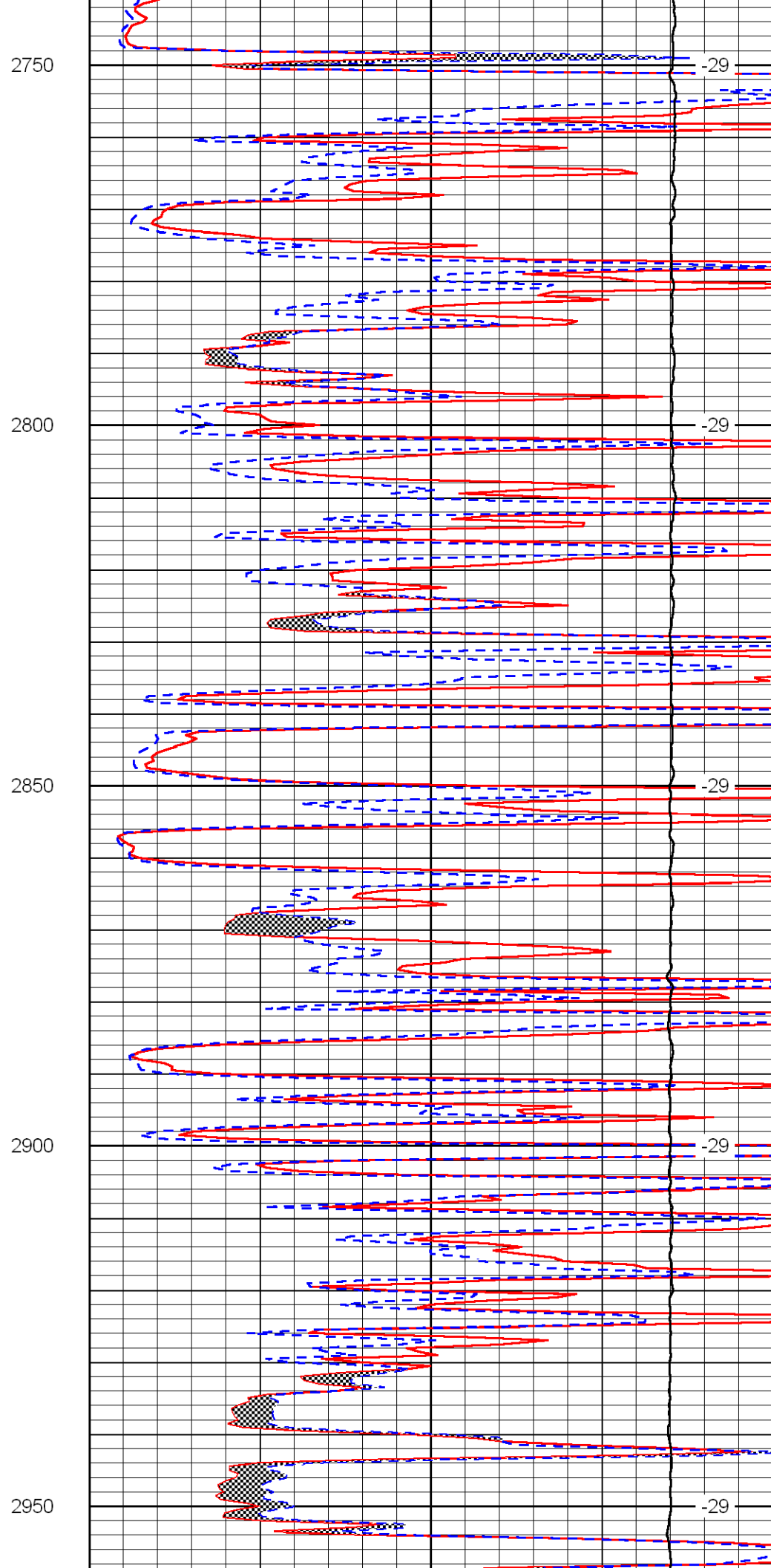
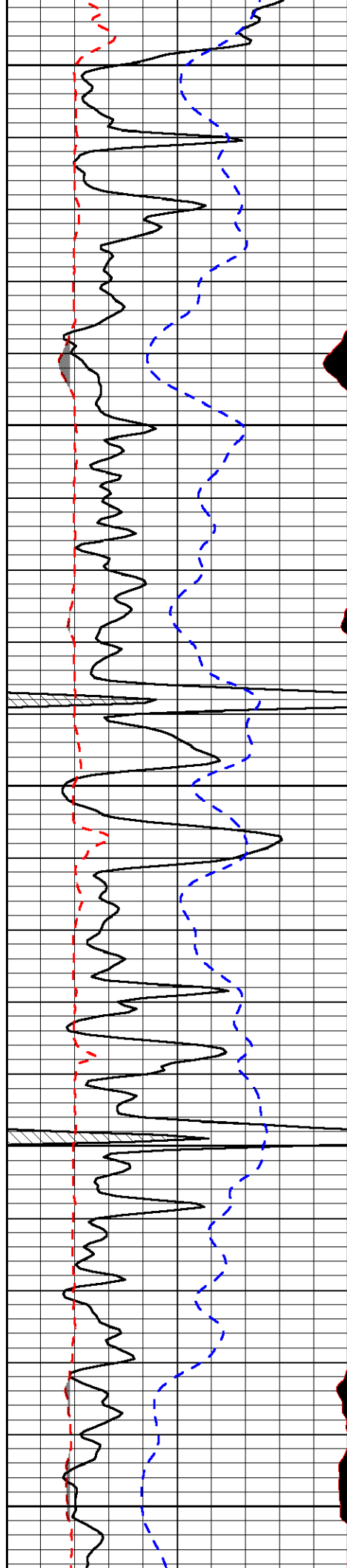
0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD

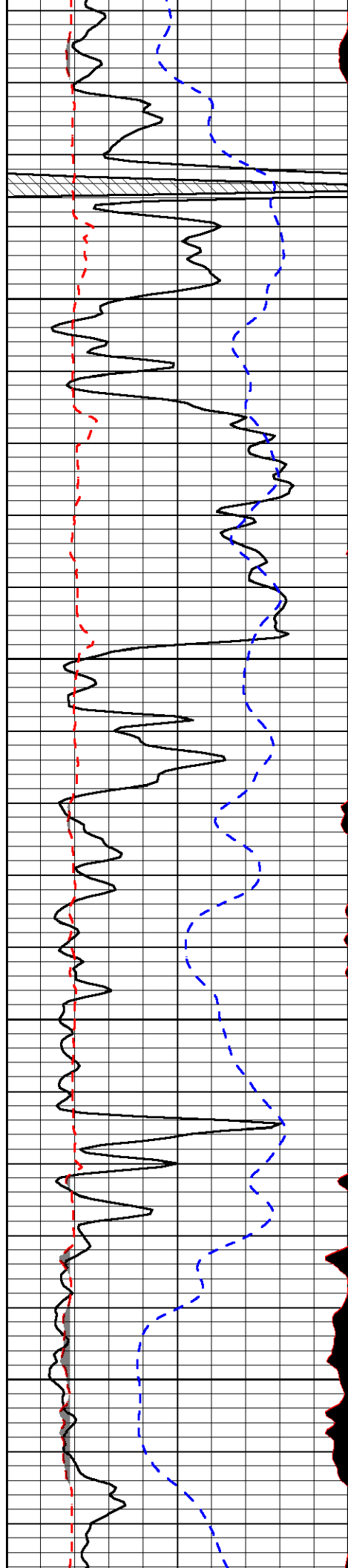










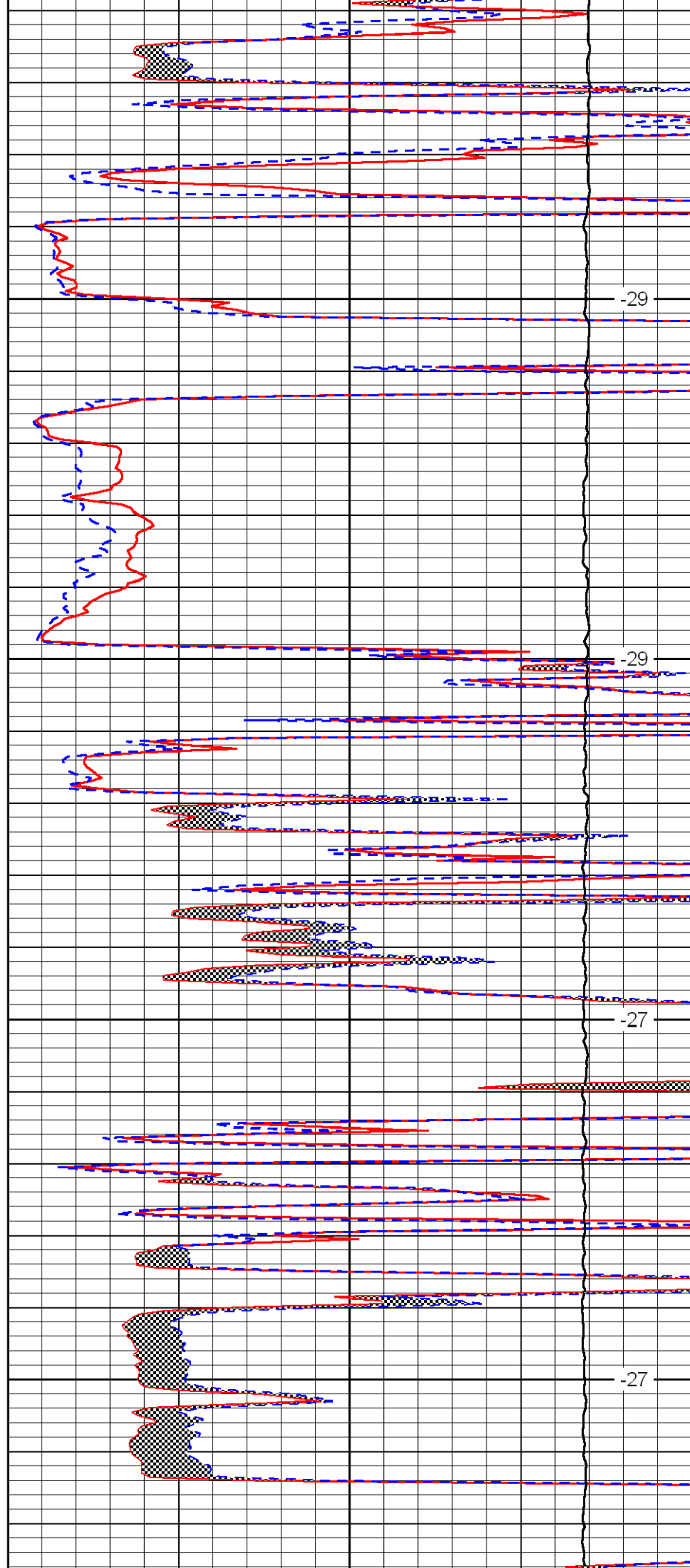


3000

3050

3100

3150



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