



PIONEER

Pioneer Energy Services

Microresistivity Log

API No.	Company Range Oil Company, Inc.			
15-017-20921-00-00	Well	Madden 'A' Unit #2		
	Field	Panther Ranch SW		
	County	Chase	State	Kansas
	Location	250' FNL & 2260' FWL		
Sec: 31		Twp: 19S	Rge: 6E	Other Services CNL/CDL DIL
Permanent Datum		Ground Level	Elevation 1453	Elevation
Log Measured From		Kelly Bushing	6 Ft. Above Perm. Datum	K.B. 1459
Drilling Measured From		Frorkely Bushing		D.F. 1453
Date		4/17/2015		
Run Number		One		
Depth Driller		2280		
Depth Logger		2278		
Bottom Logged Interval		2277		
Top Log Interval		550		
Casing Driller		8.625 @ 209		
Casing Logger		209		
Bit Size		7.875		
Type Fluid in Hole		Chemical		
Salinity, ppm CL		1250		
Density / Viscosity		9.3	48	
pH / Fluid Loss		9.0	10.2	
Source of Sample		Flowline		
Rm @ Meas. Temp		1.20 @ 55		
Rmf @ Meas. Temp		0.90 @ 55		
Rmc @ Meas. Temp		1.62 @ 55		
Source of Rmf / Rmc		Charts		
Rm @ BHT		0.67 @ 99		
Operating Rig Time		2 Hours		
Max Rec. Temp. F		99		
Equipment Number		91		
Location		Hays		
Recorded By		D. Schmidt		
Witnessed By		Ken Wallace		

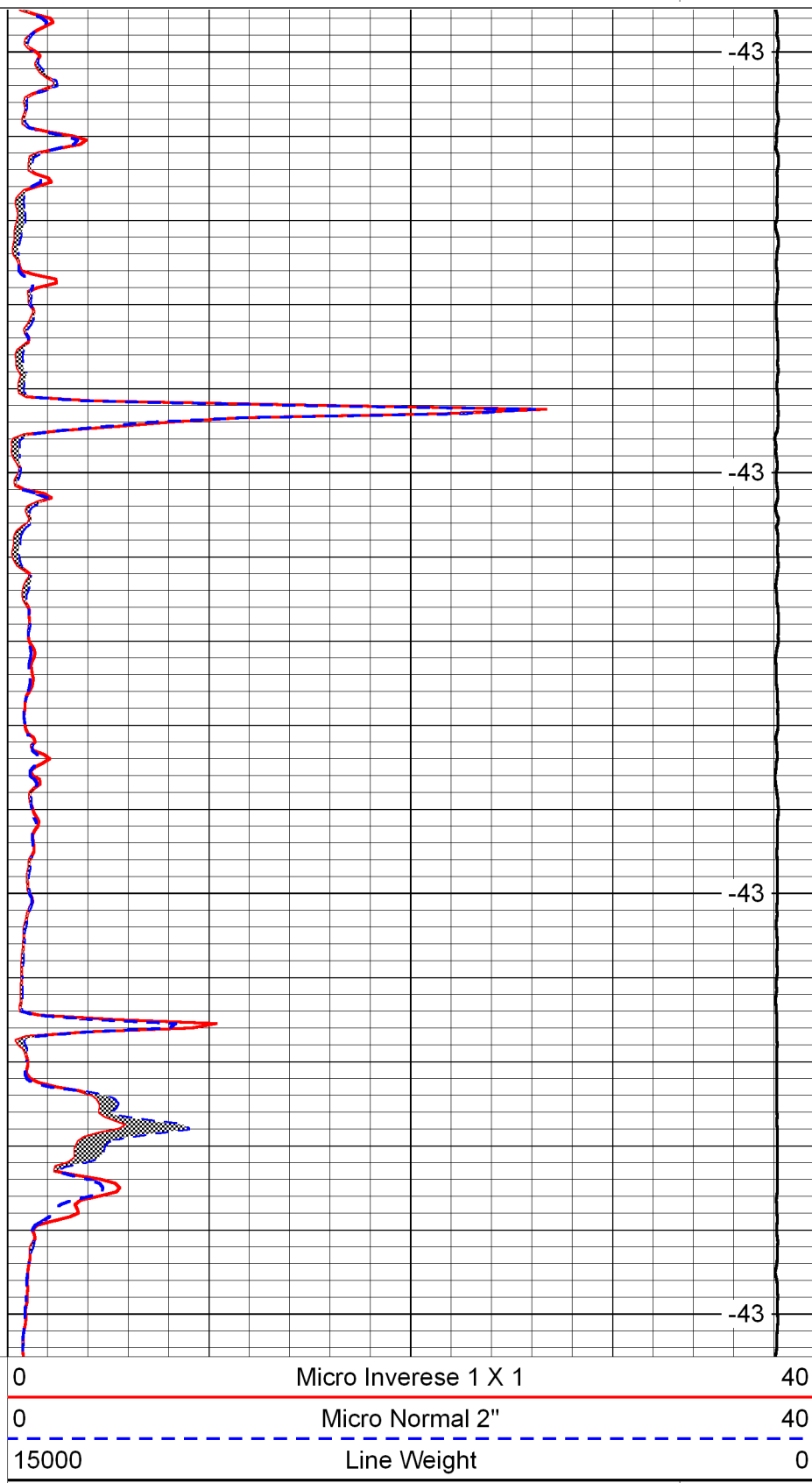
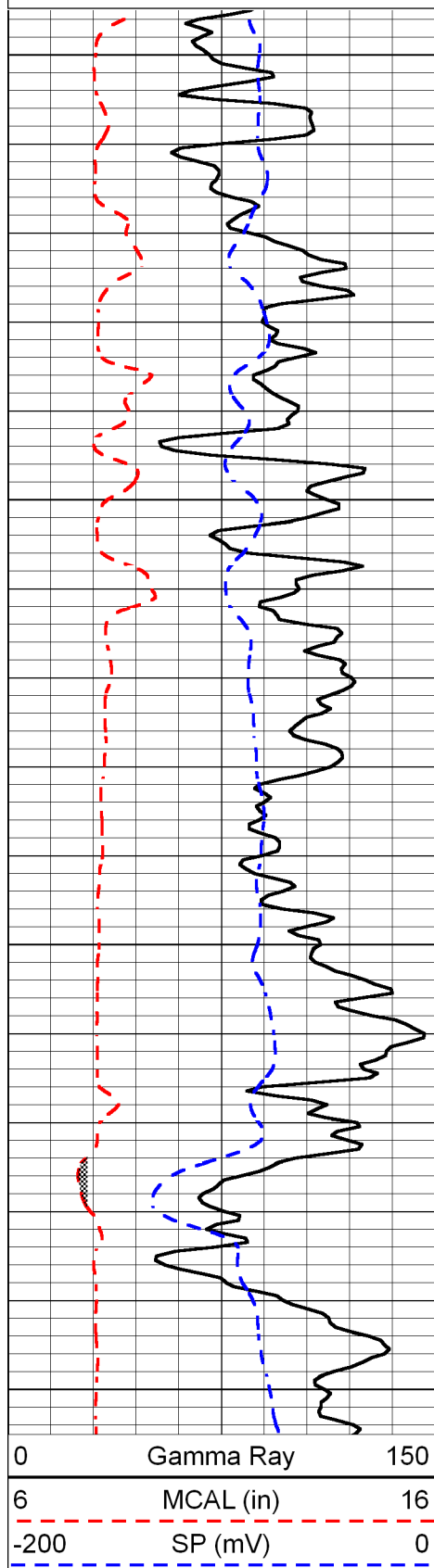
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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.pioneeres.com
785 625 3858
Marion,
East to Hwy 150 & Hwy 77 junction, 8 1/4 East,
South and East into

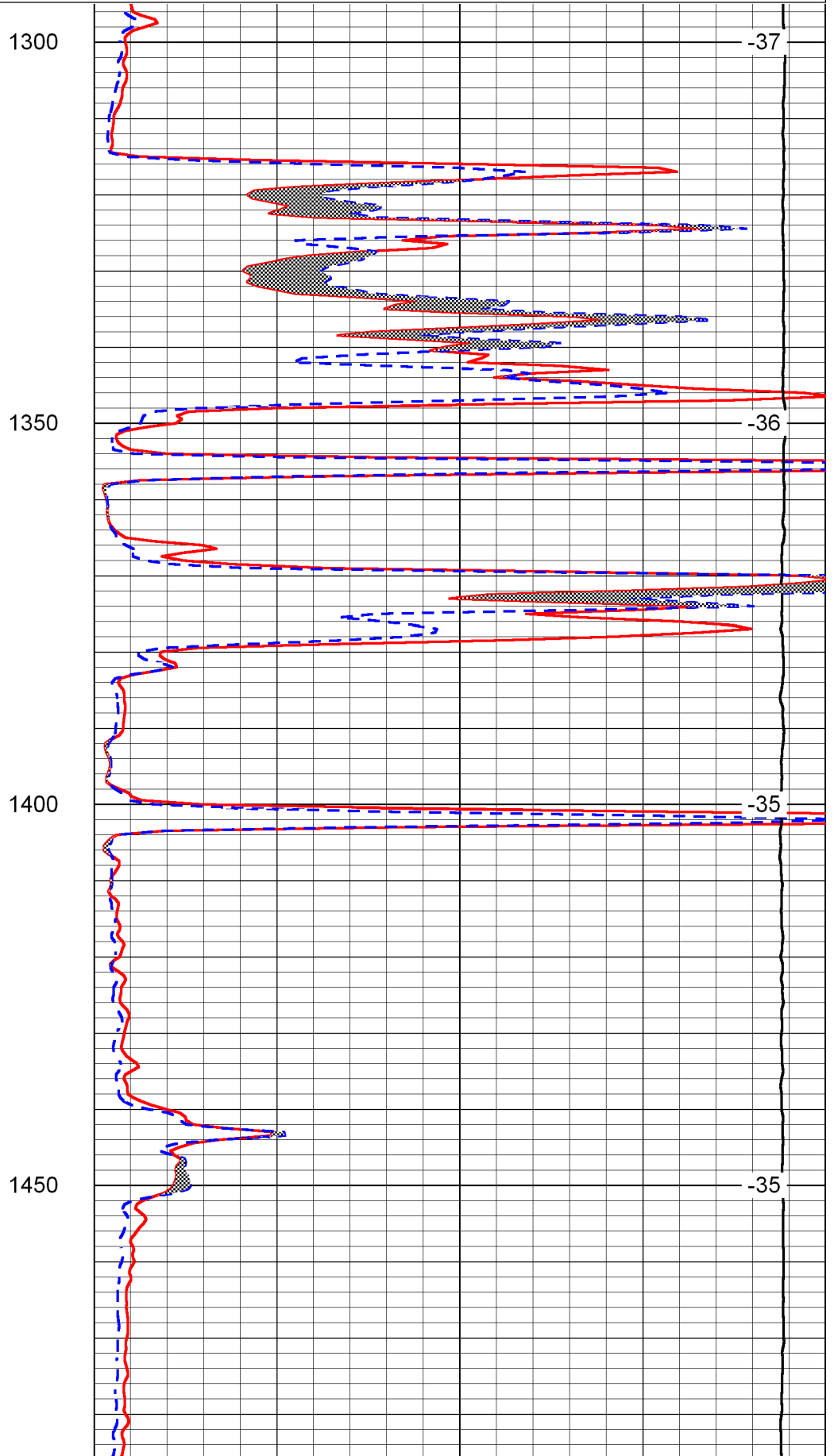
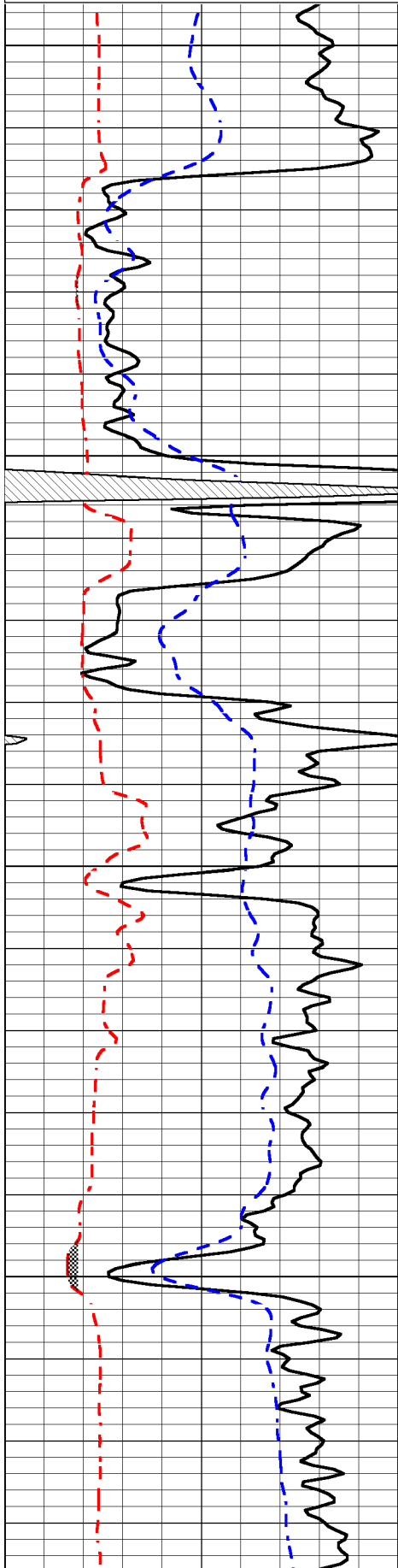
Database File	range_madden 'a' unit #2\range_madden a unit 2hd.db
Dataset Pathname	dil\rastkml
Presentation Format	micro
Dataset Creation	Fri Apr 17 05:01:34 2015
Charted by	Depth in Feet scaled 1:240

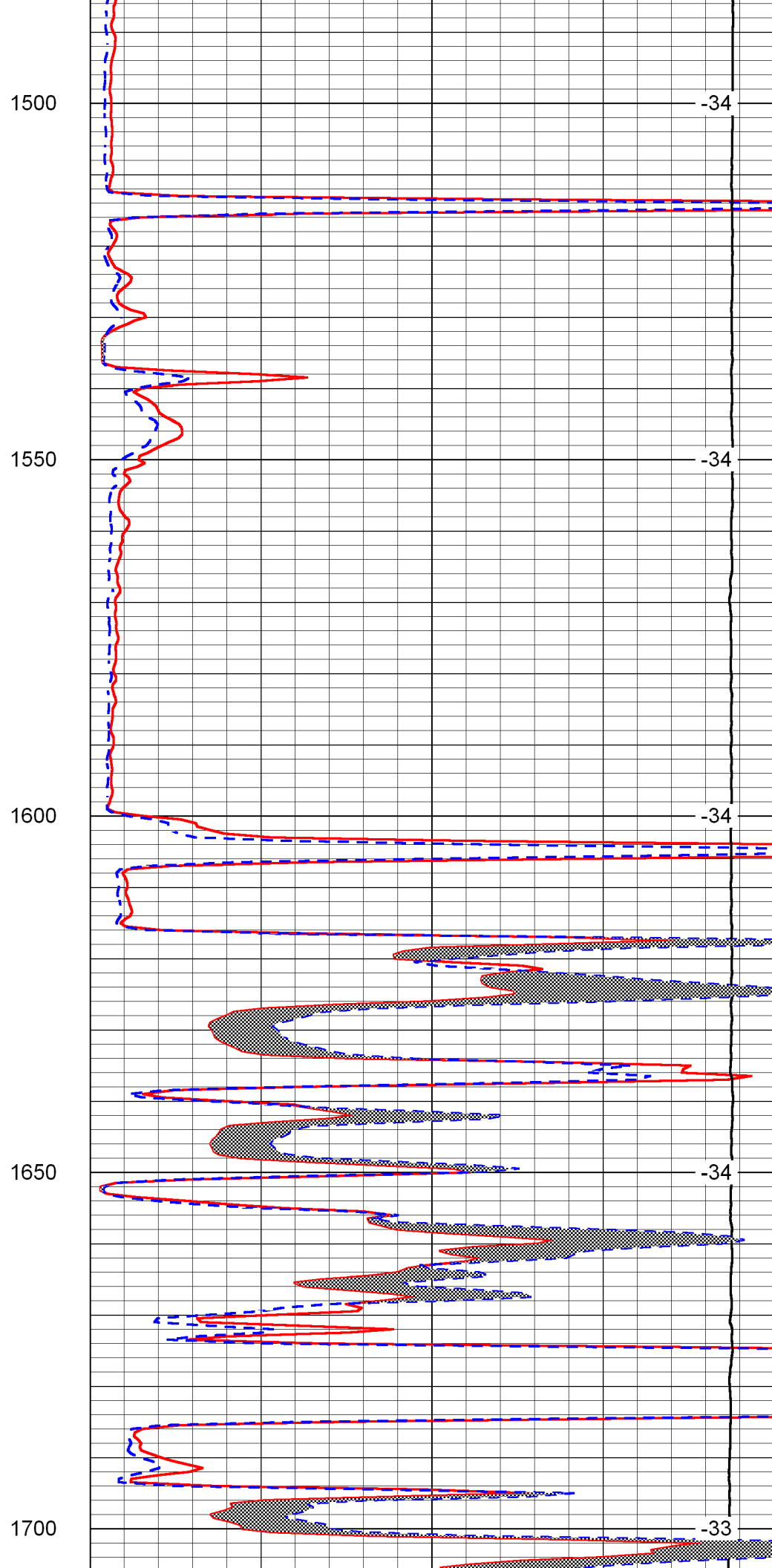
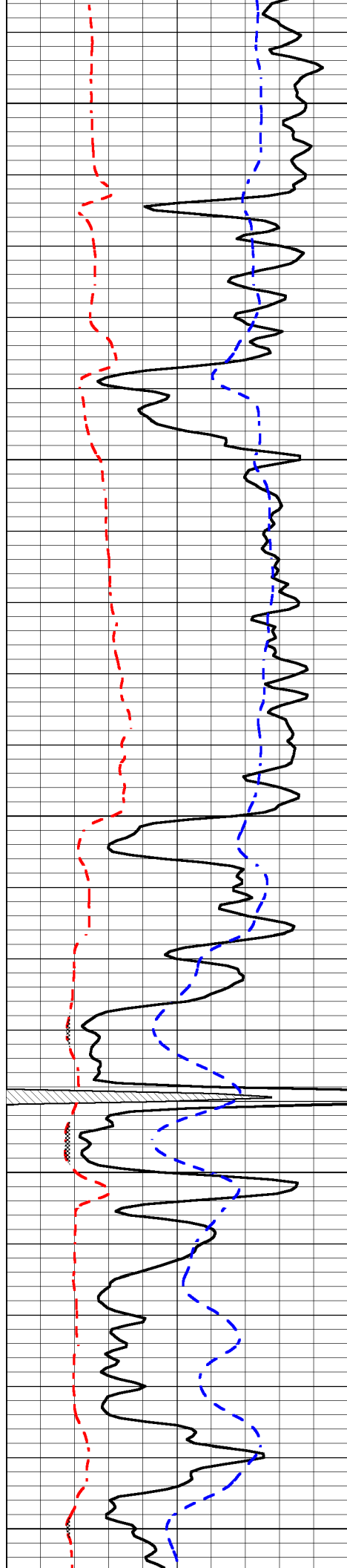


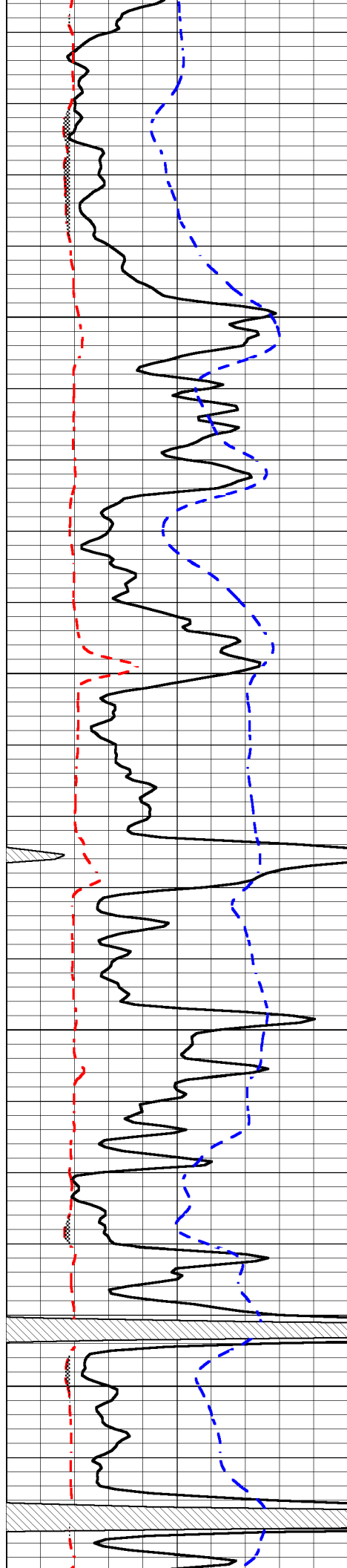
0	Gamma Ray	150
6	MCAL (in)	16
-200	SP (mV)	0

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

LSPD





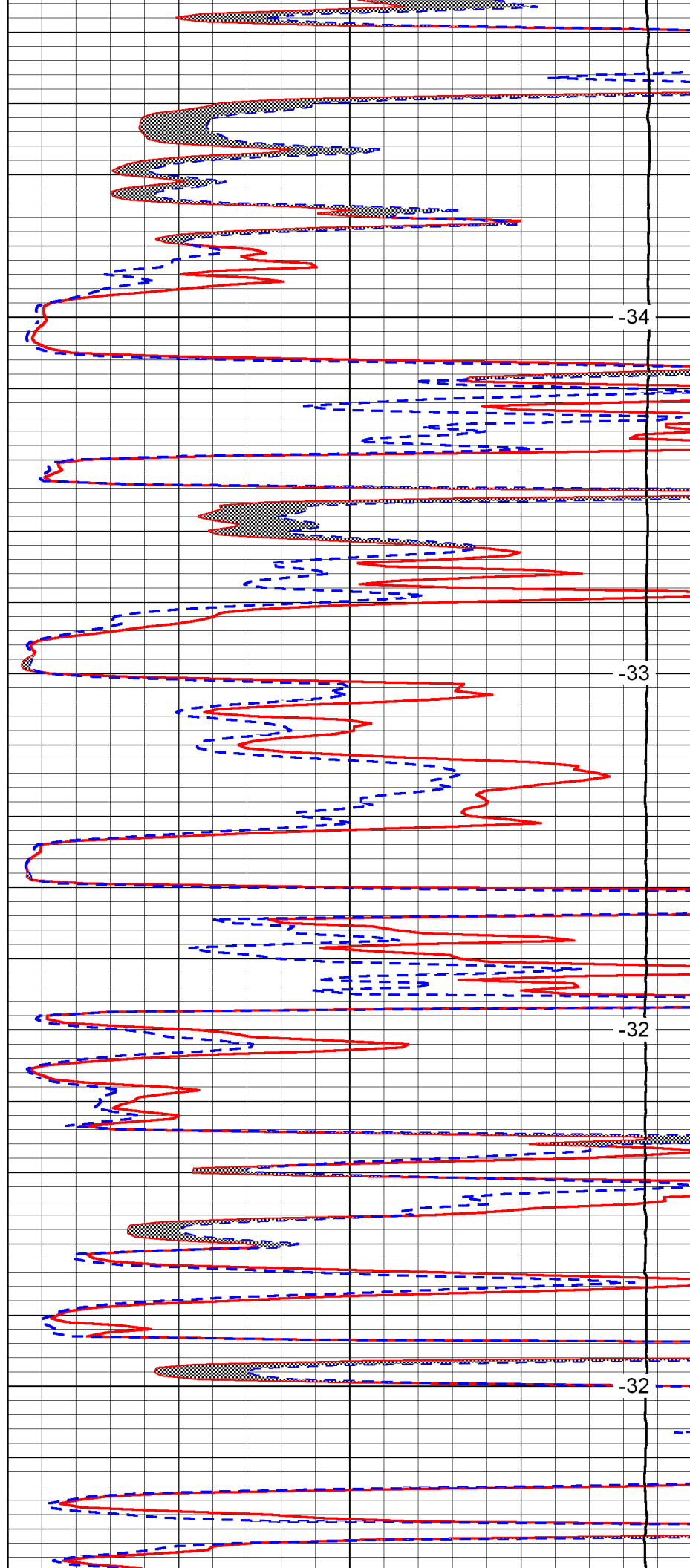


1750

1800

1850

1900

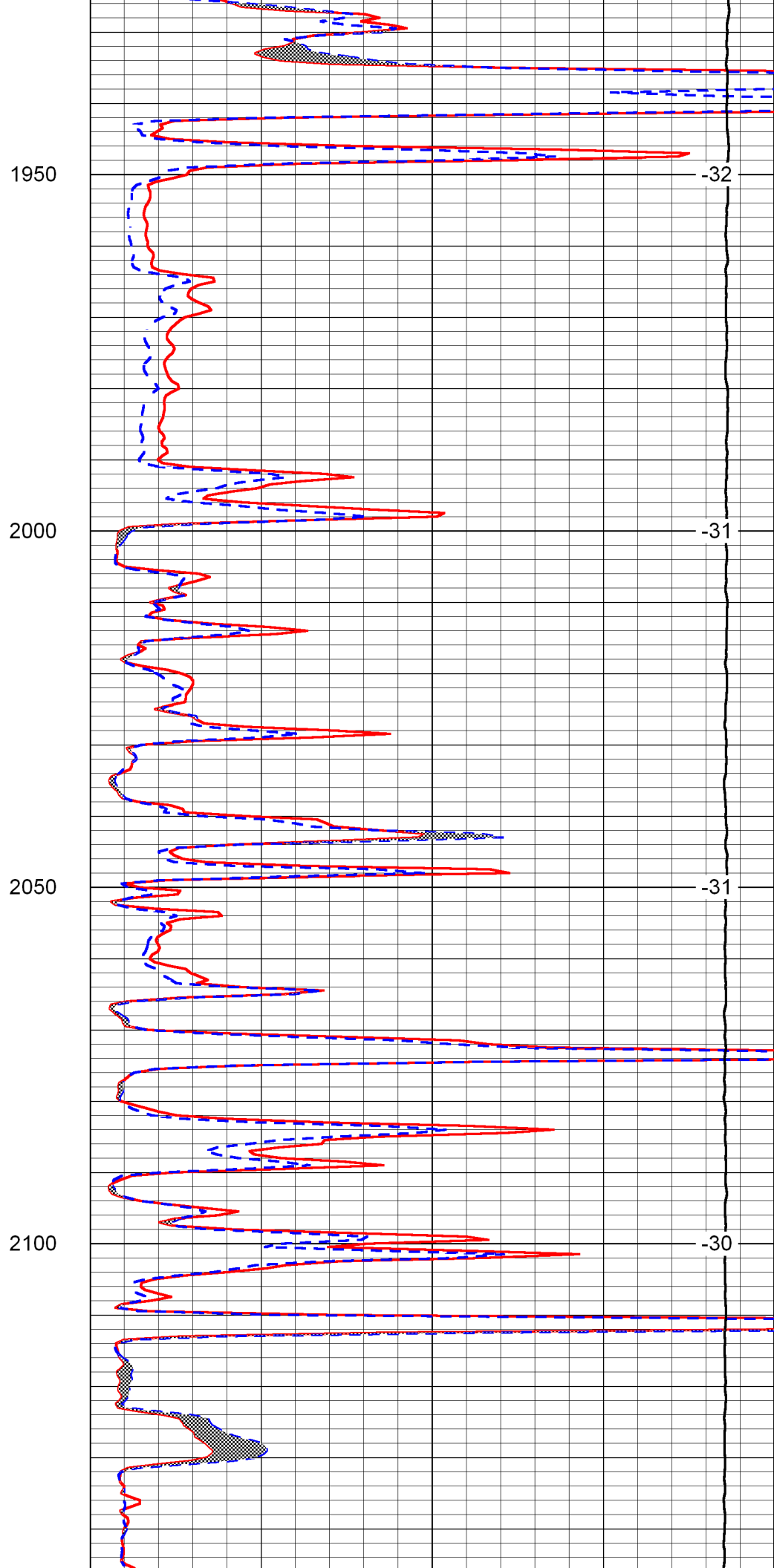
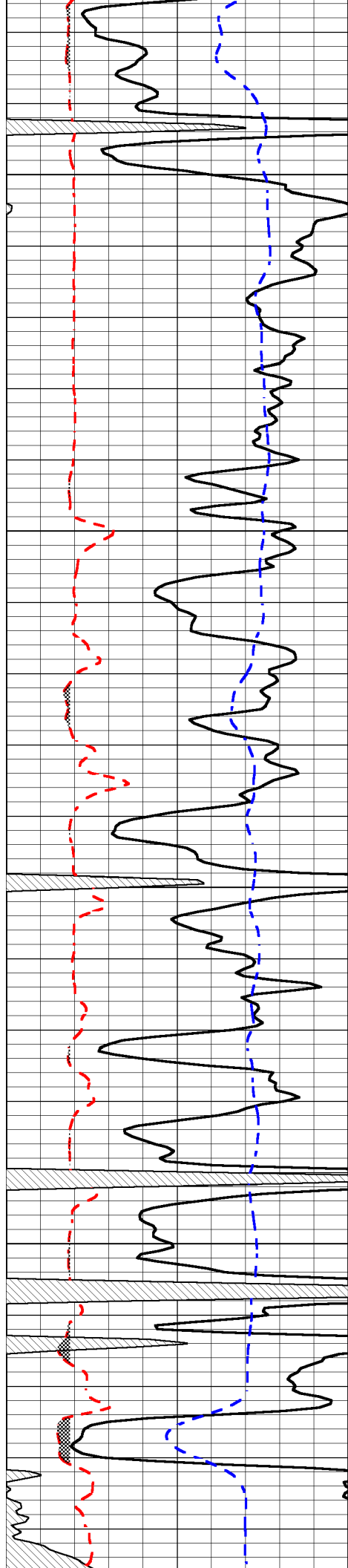


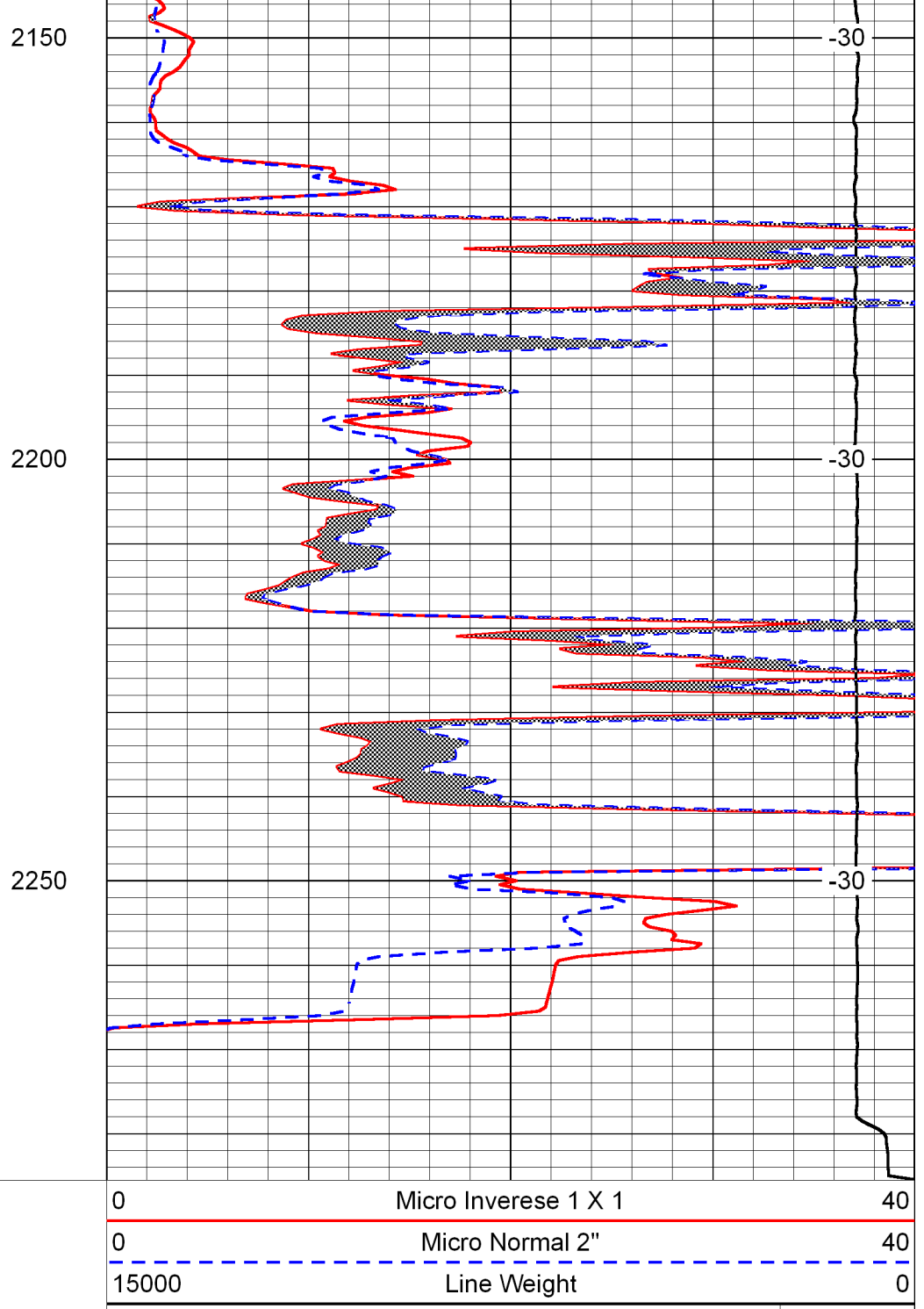
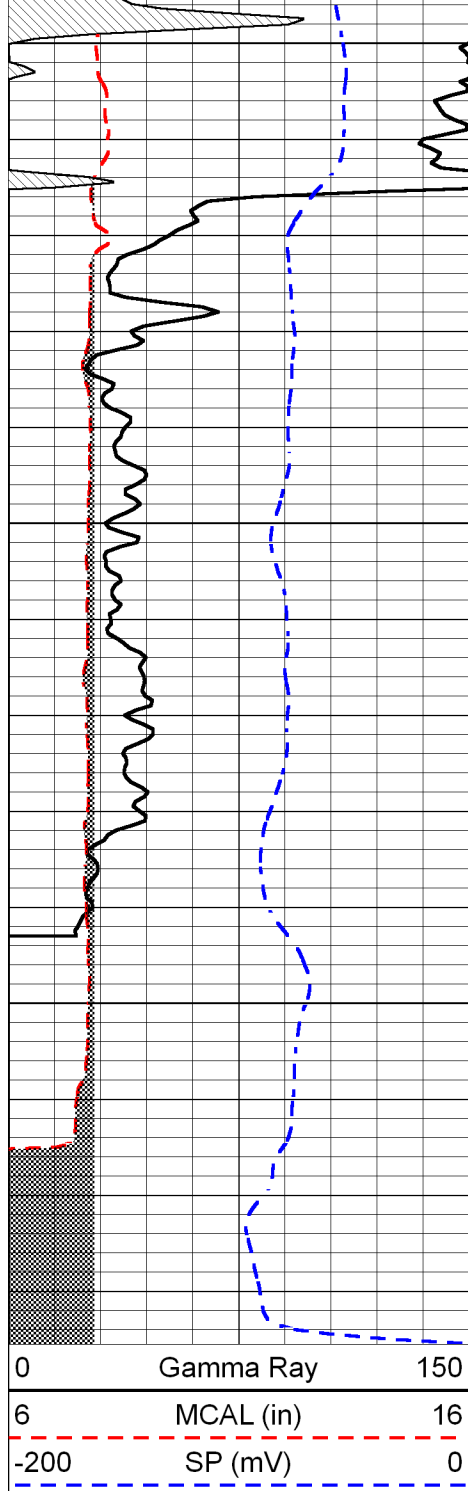
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