



Pioneer Energy Services

Microresistivity Log

API No.	Company A&A Production		
	Well Urban No. 3		
	Field Towns South		
	County Thomas	State	Kansas
	Location	S2 SE NE SE 1,350' FSL & 330' FEL	
	Sec: 28	Twp: 10S	Rge: 34W
	Permanent Datum	Ground Level	Elevation 3201
	Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
	Drilling Measured From	Kelly Bushing	
Date		1/13/2013	
Run Number		Two	
Depth Driller		4715	
Depth Logger		4716	
Bottom Logged Interval		4715	
Top Log Interval		4050	
Casing Driller		8.625 @ 224	
Casing Logger		228	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity,ppm CL		10000	
Density / Viscosity		9.2 54	
pH / Fluid Loss		10.0 9.2	
Source of Sample		Flowline	
Rm @ Meas. Temp		.20 @ 46	
Rmf @ Meas. Temp		.15 @ 46	
Rmc @ Meas. Temp		.27 @ 46	
Source of Rmf / Rmc		Charts	
Rm @ BHT		.07 @ 123	
Operating Rig Time		4 Hours	
Max Rec. Temp. F		123	
Equipment Number		91	
Location		Hays	
Recorded By		J. Long	
Witnessed By		Andy Anderson	

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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.

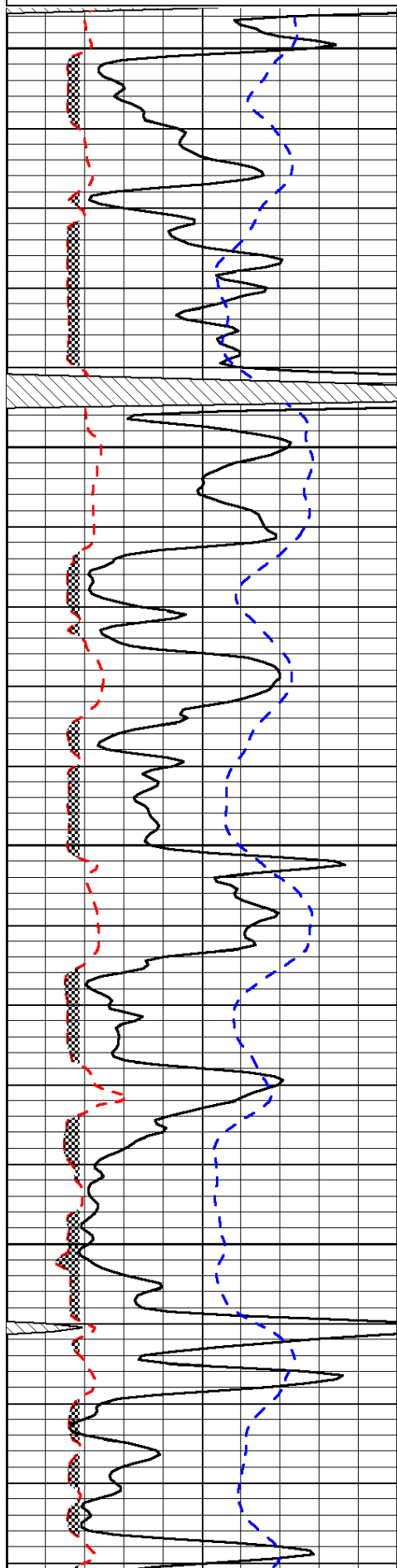
Comments

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

Monument, West to Highway 40 and Highway 25 Intersection, North to County Line, 4 West, 1 North,
East Into

Database File: c:\warrior\data\aa&a production_urban #3\aa&a_urban_3hd.db
Dataset Pathname: dil/aastck
Presentation Format: micro
Dataset Creation: Sun Jan 13 11:50:08 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



4050

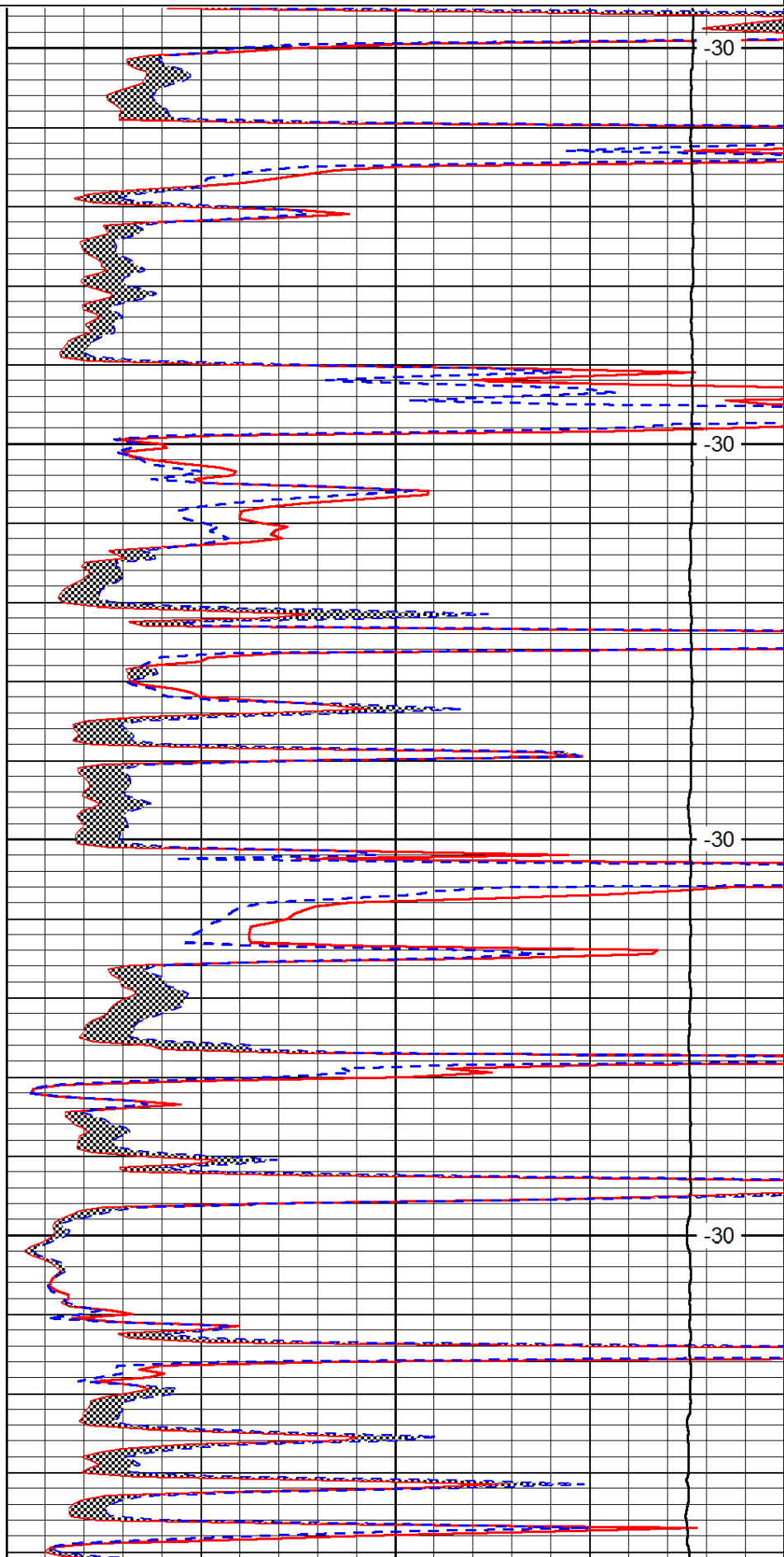
4100

4150

4200

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

LSPD

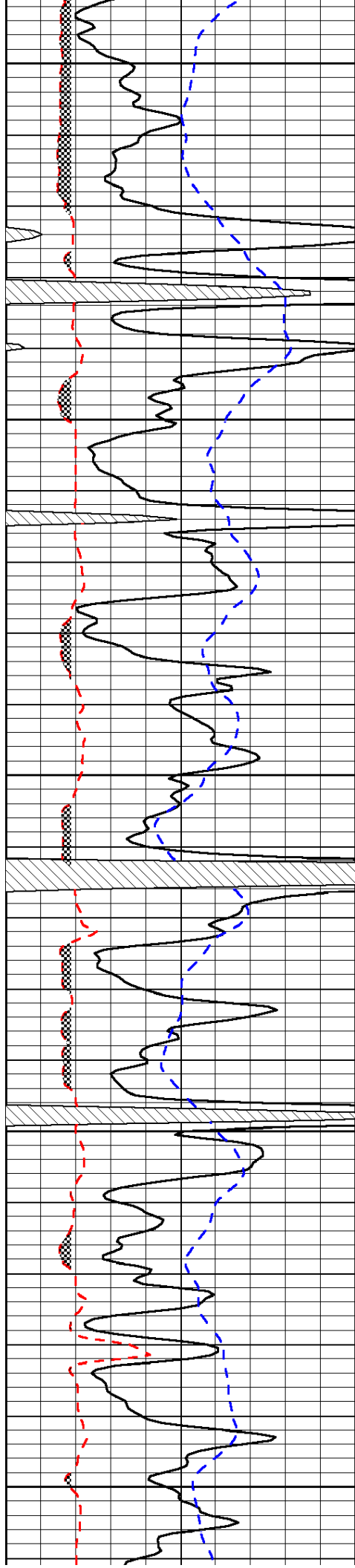


-30

-30

-30

-30



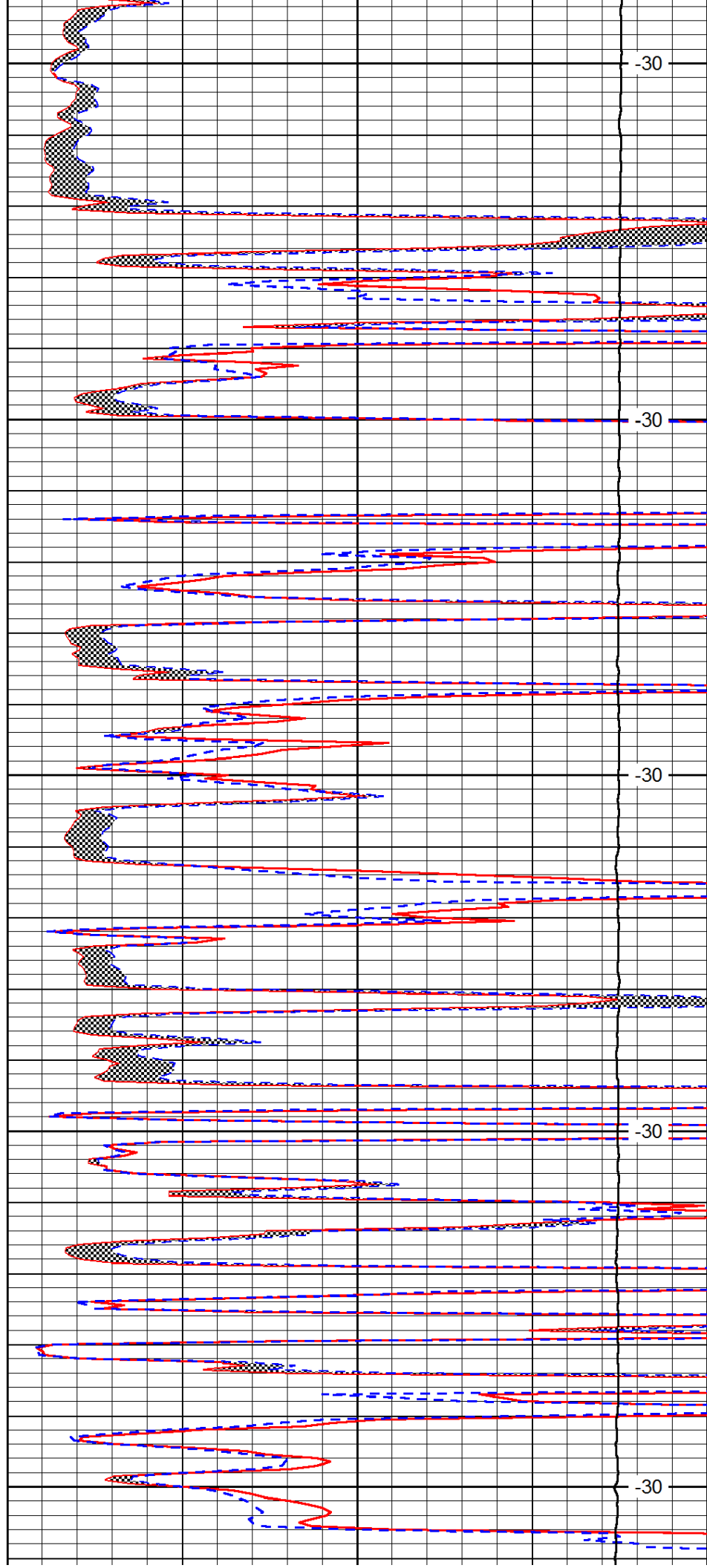
4250

4300

4350

4400

4450



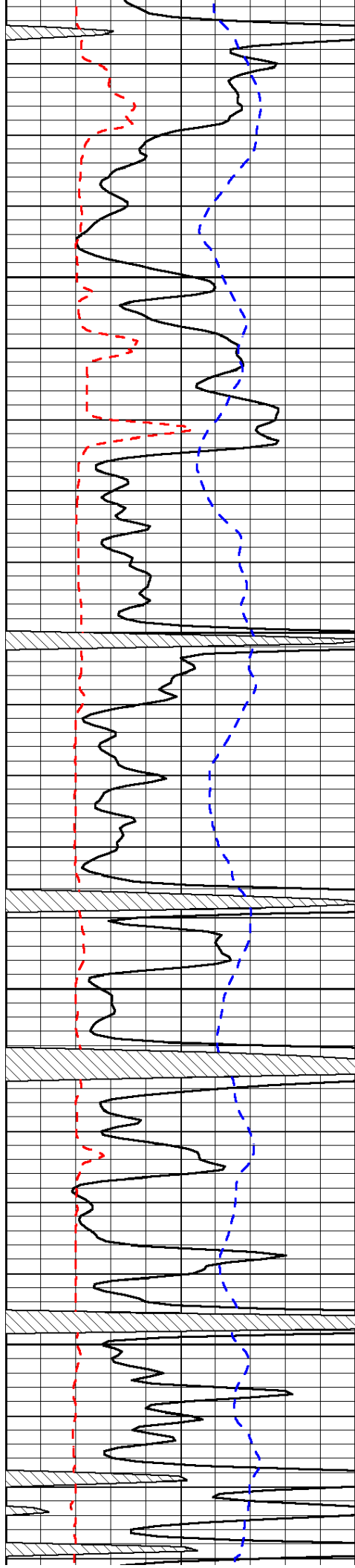
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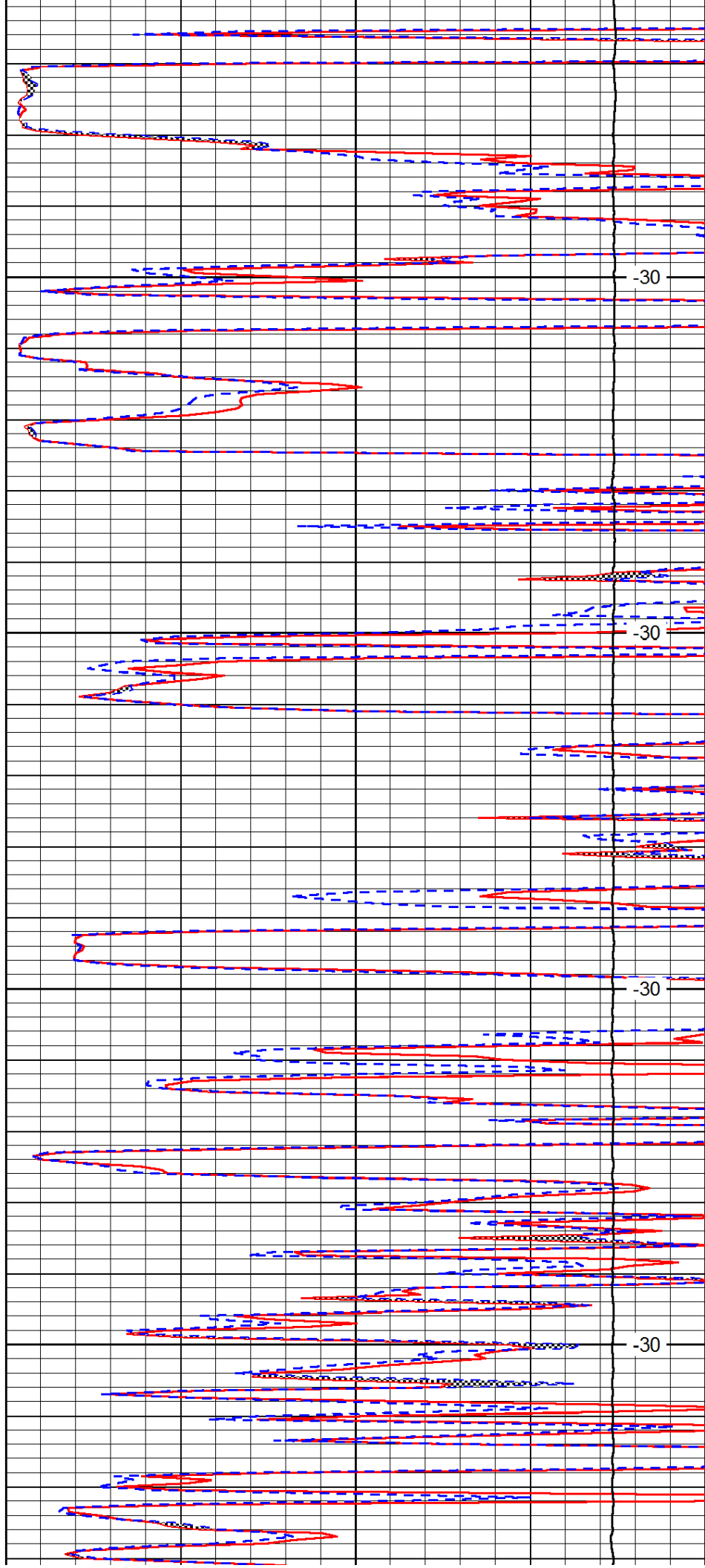


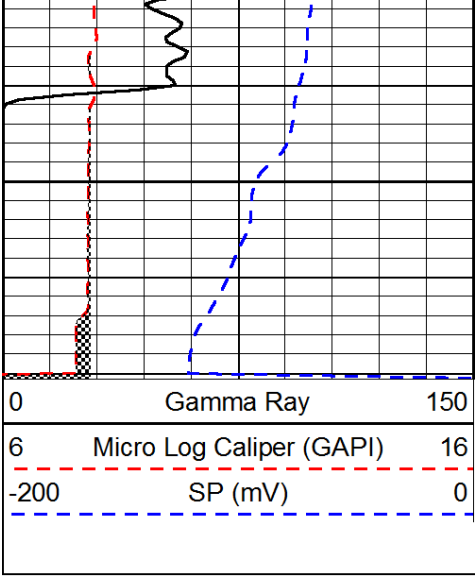
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4550

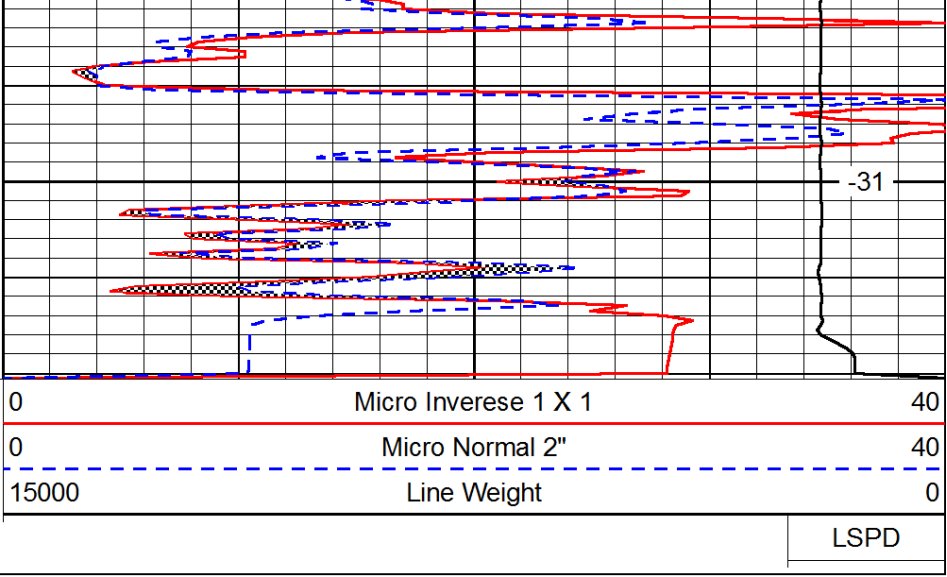
4600

4650





4700



LSPD