



Pioneer Energy Services

Microresistivity Log

API No.

15-009-26028-00-00

Company American Warrior, Inc.

Well Oeser #2

Field Kraft-Prusa

County Barton State Kansas

Location 1154' FSL & 892' FEL

Sec: 18 Twp: 16S Rge: 11W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level Elevation 1895
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1903
D.F. 1895
G.L. 1895

Date 12/19/2014

Run Number Two

Depth Driller 3461

Depth Logger 3461

Bottom Logged Interval 3460

Top Log Interval 2700

Casing Driller 8.625 @ 733

Casing Logger 727

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 7200

Density / Viscosity 9.4 53

pH / Fluid Loss 8.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp 0.45 @ 50

Rmf @ Meas. Temp 0.34 @ 50

Rmc @ Meas. Temp 0.61 @ 50

Source of Rmf / Rmc Charts

Rm @ BHT 0.20 @ 111

Operating Rig Time 4 Hours

Max Rec. Temp. F 111

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Jim Mulsgrve

<<< 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

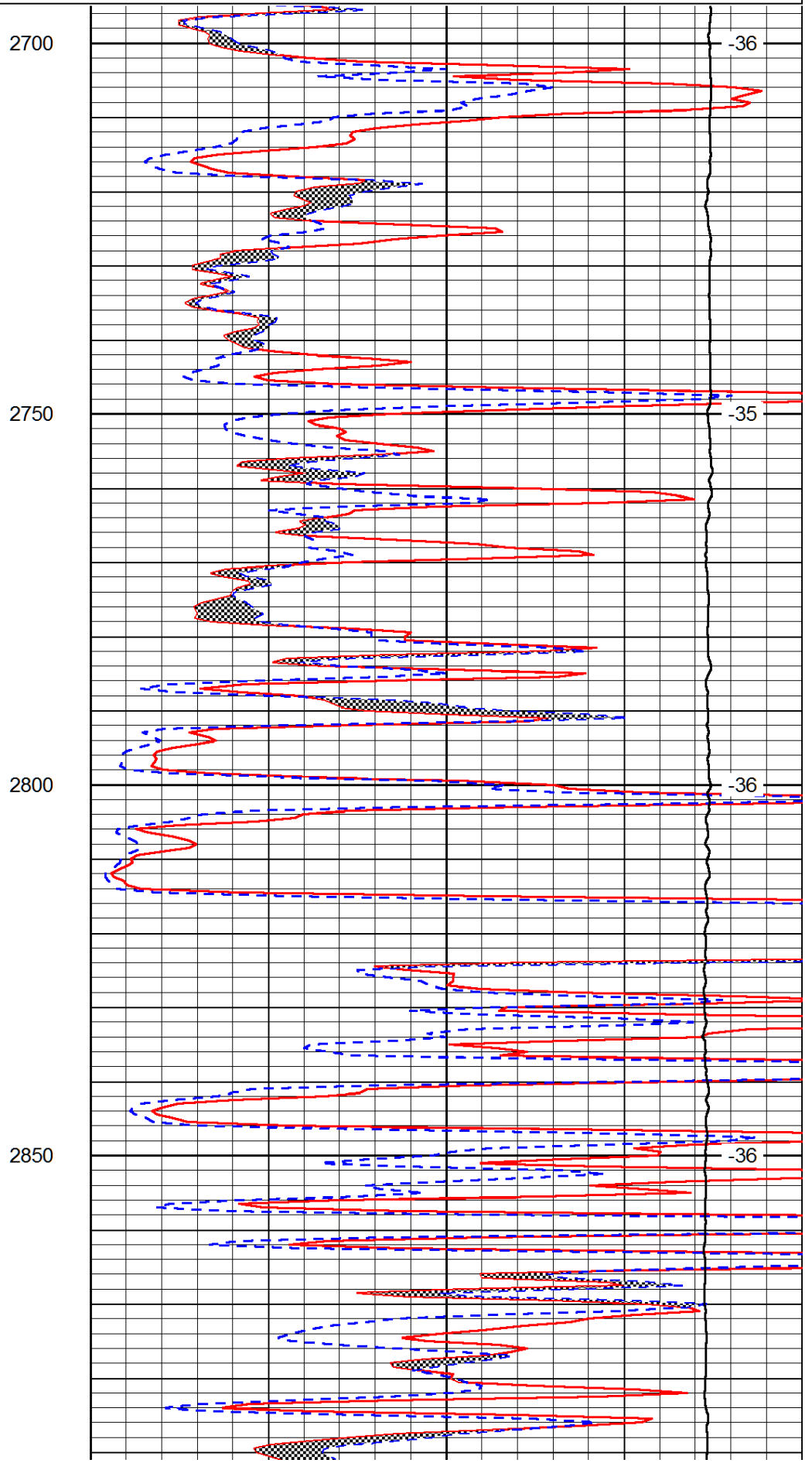
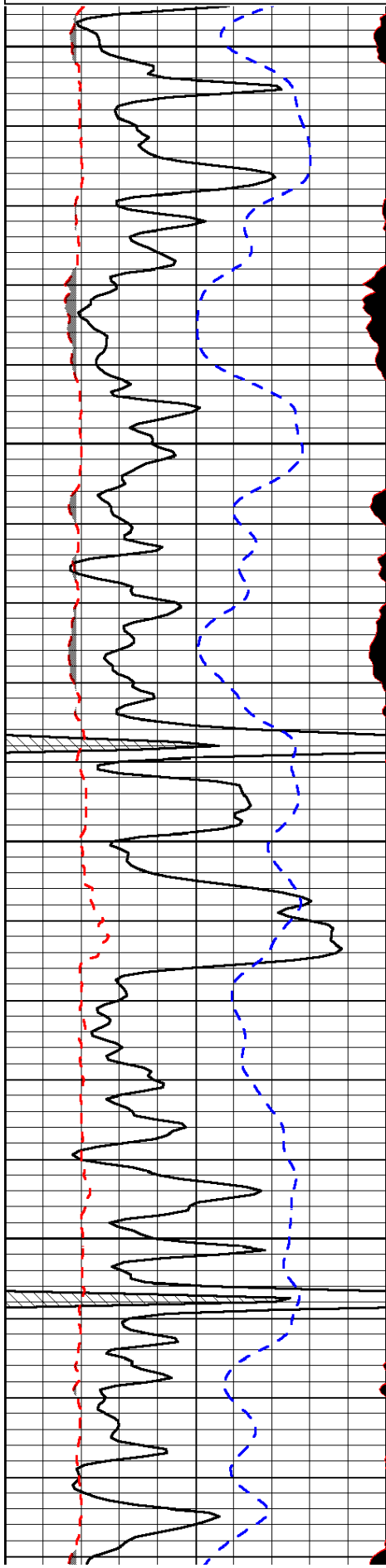
Thank you for using Log-Tech, Inc.
(785) 625-3858

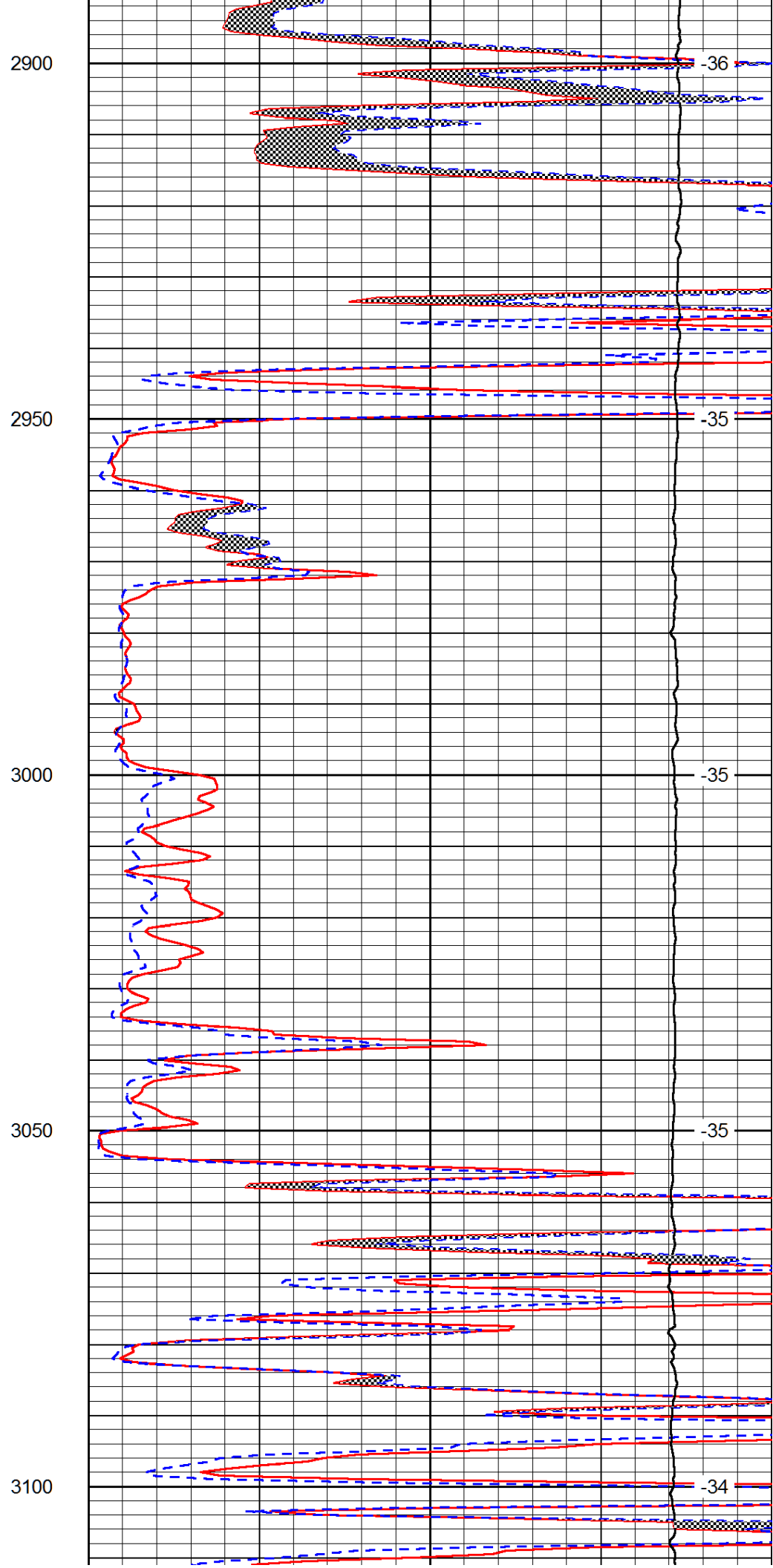
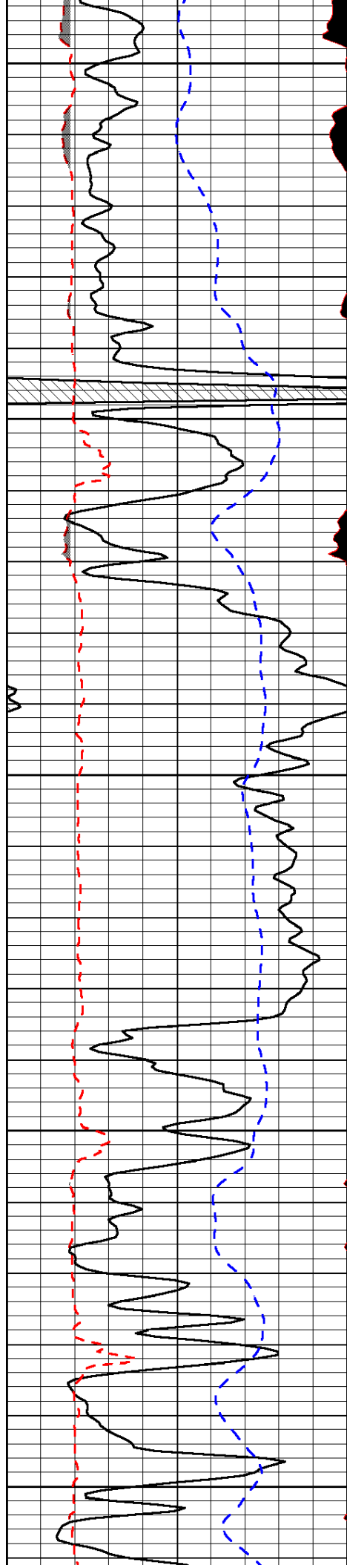
Odin,
North to 200 Rd, 2 East, 1/4 North,
West into

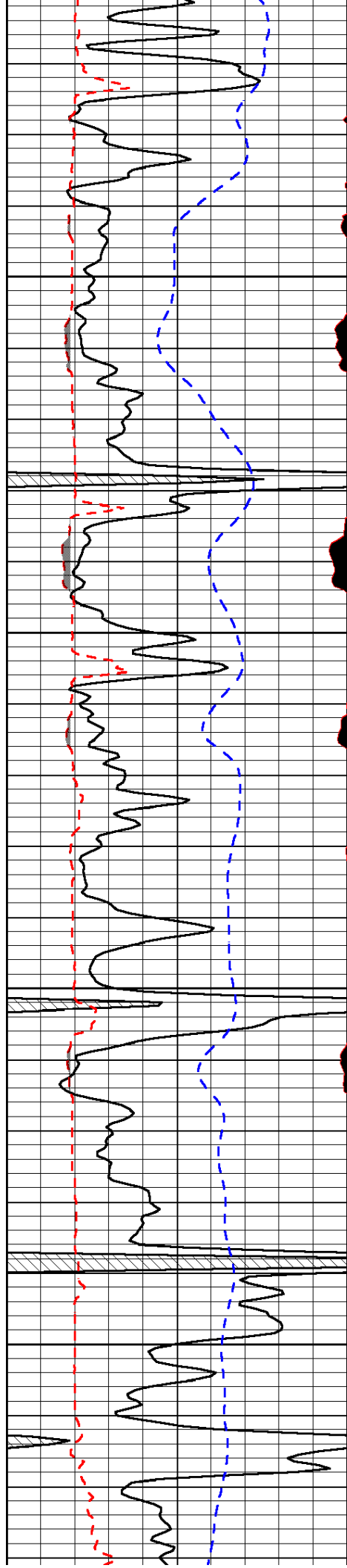
Database File: amwar_oeser_2hd.db
Dataset Pathname: dil/awstkml
Presentation Format: micro
Dataset Creation: Fri Dec 19 20:22:59 2014
Charted by: Depth in Feet scaled 1:240

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

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





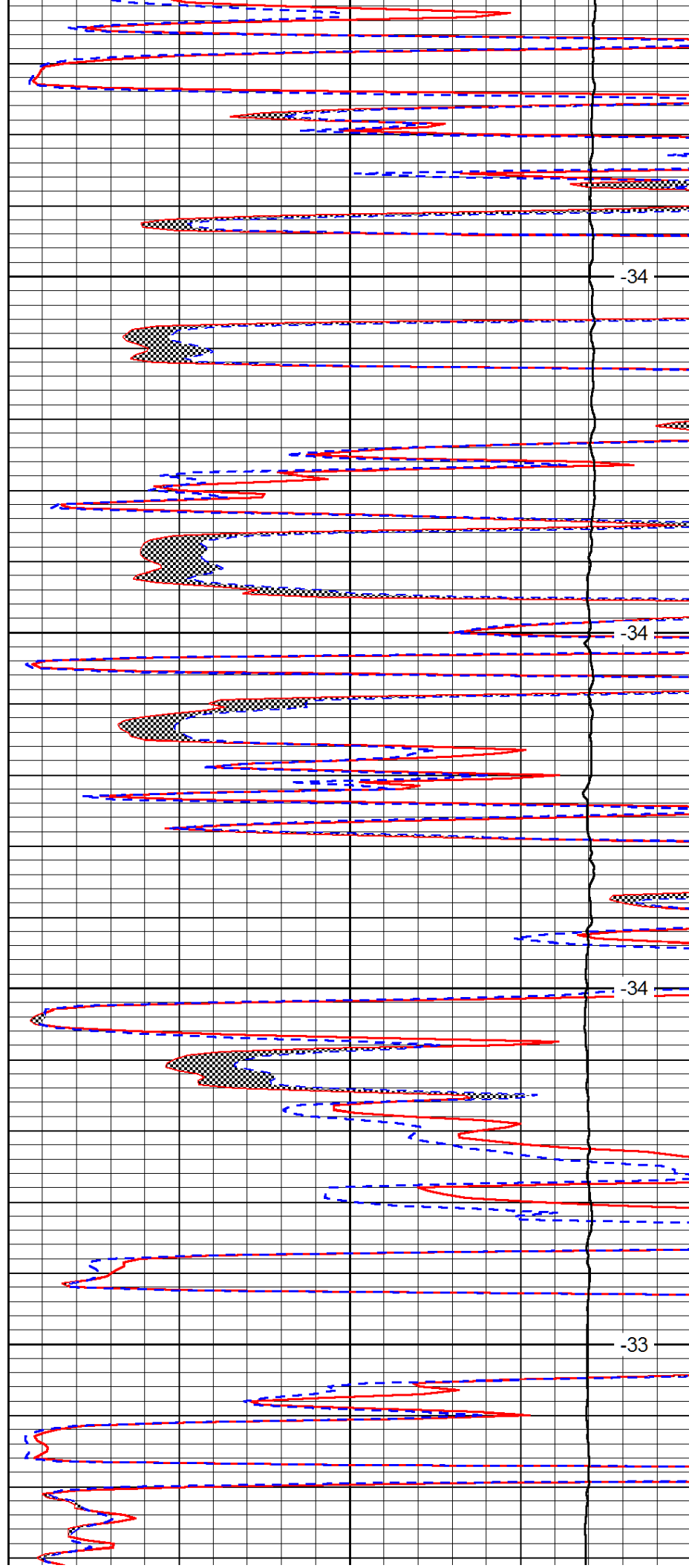


3150

3200

3250

3300

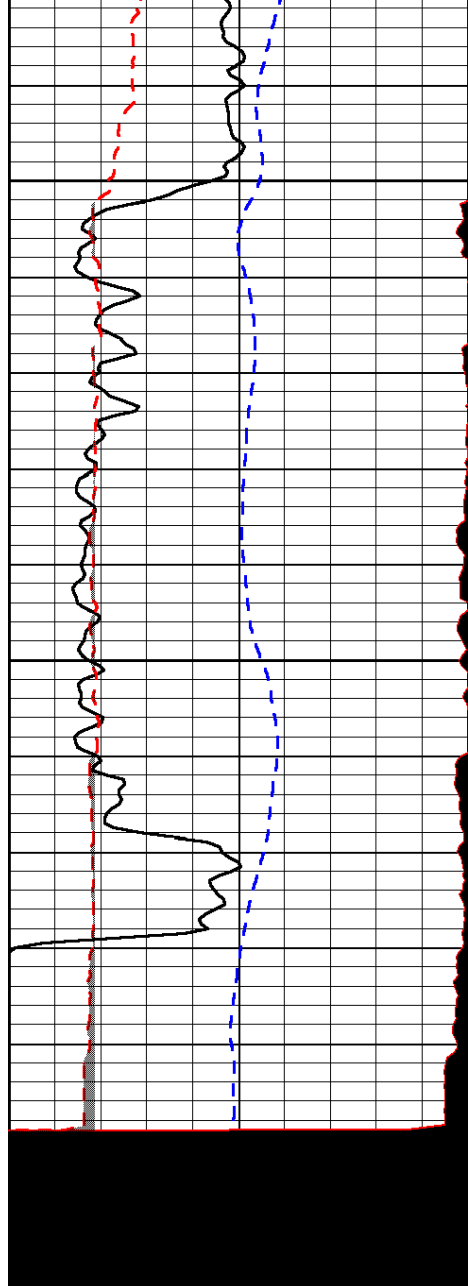


-34

-34

-34

-33

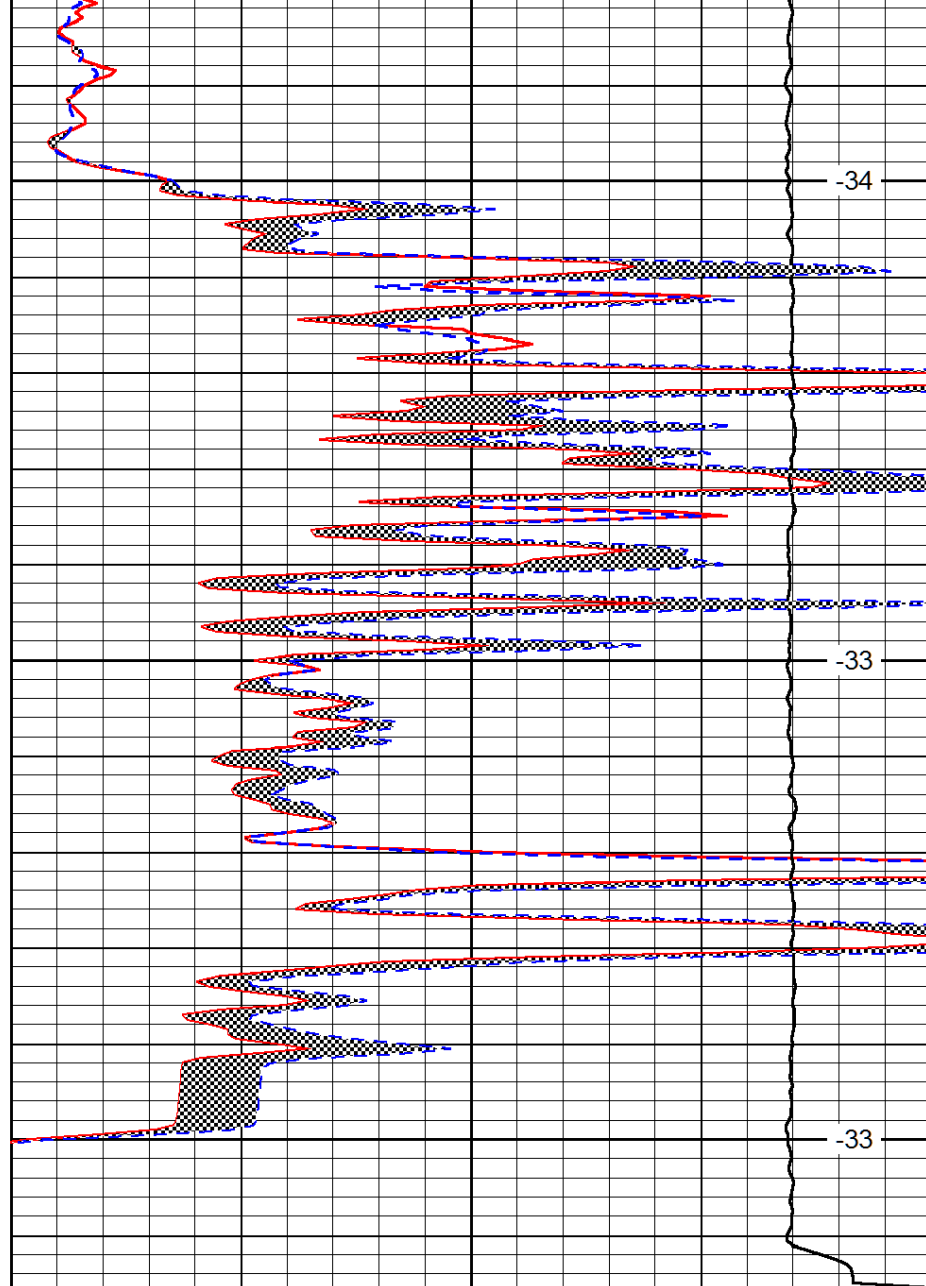


0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

3350

3400

3450



0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
10000	Line Weight	0

LSPD