



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26,590-00-00

Company TDI, Inc.

Well Johnson No. 1

Field Unnamed

County Ellis State

Kansas

Location NE-NW-SE-NW
1365' FNL & 1675' FWL

Other Services
CNL/CDL
DIL

Sec: 19 Twp: 14S Rge: 18W

Permanent Datum Ground Level Elevation 2114
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2124
D.F. 2114
G.L. 2114

Date

9/25/13

Run Number

Two

Depth Driller

3900

Depth Logger

3902

Bottom Logged Interval

3901

Top Log Interval

3000

Casing Driller

8.625 @ 224

Casing Logger

224

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,000

Density / Viscosity

9.4 57
10.5 7.2

pH / Fluid Loss

10.5

Source of Sample

Flowline

Rm @ Meas. Temp

.44 @ 78

Rmf @ Meas. Temp

.33 @ 78

Rmc @ Meas. Temp

.59 @ 78

Source of Rmf / Rmc

Charts

Rm @ BHT

.30 @ 115

Operating Rig Time

3 Hours

Max Rec. Temp. F

115

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Tom Denning

Herb Deines

<<< 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

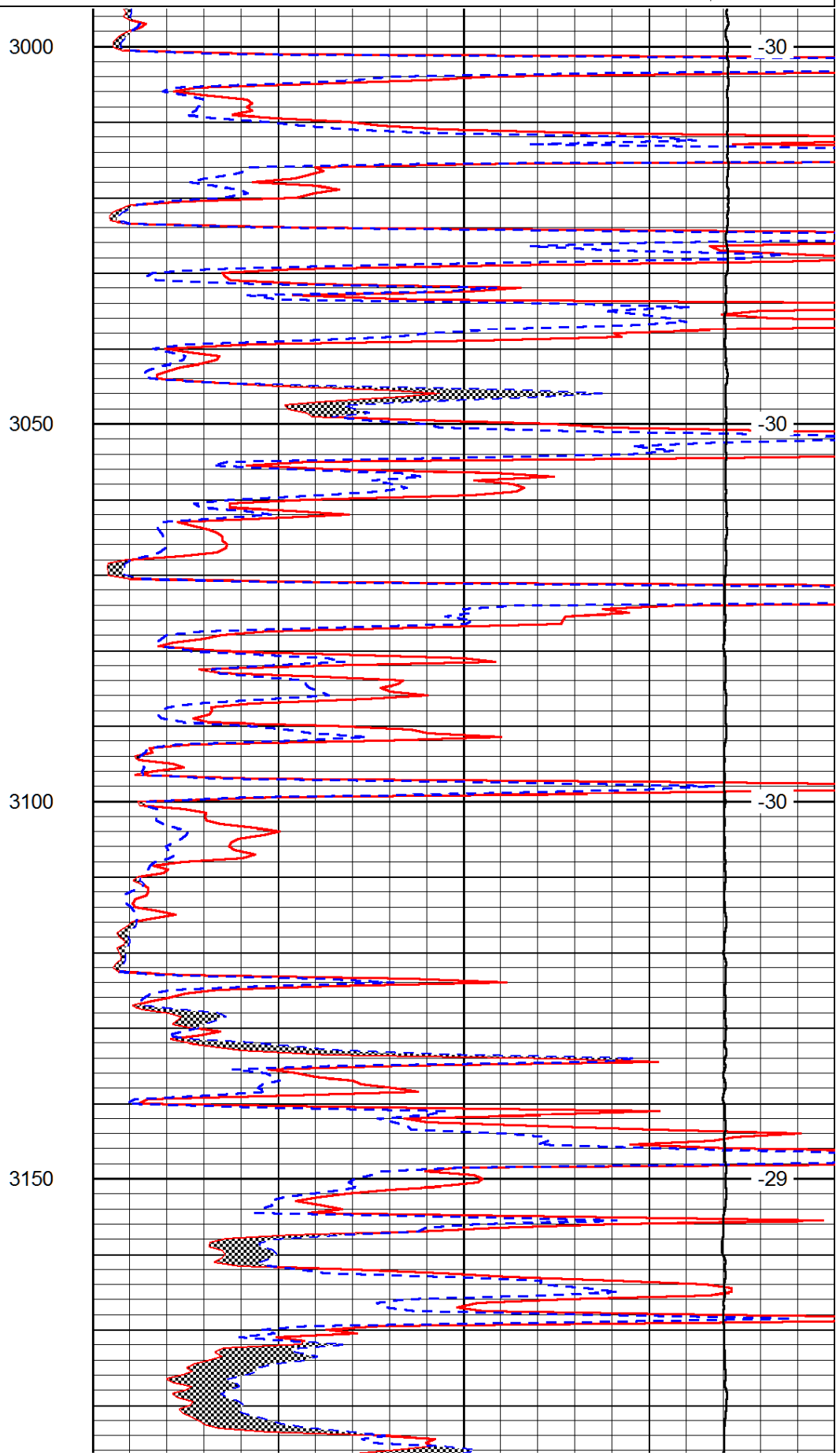
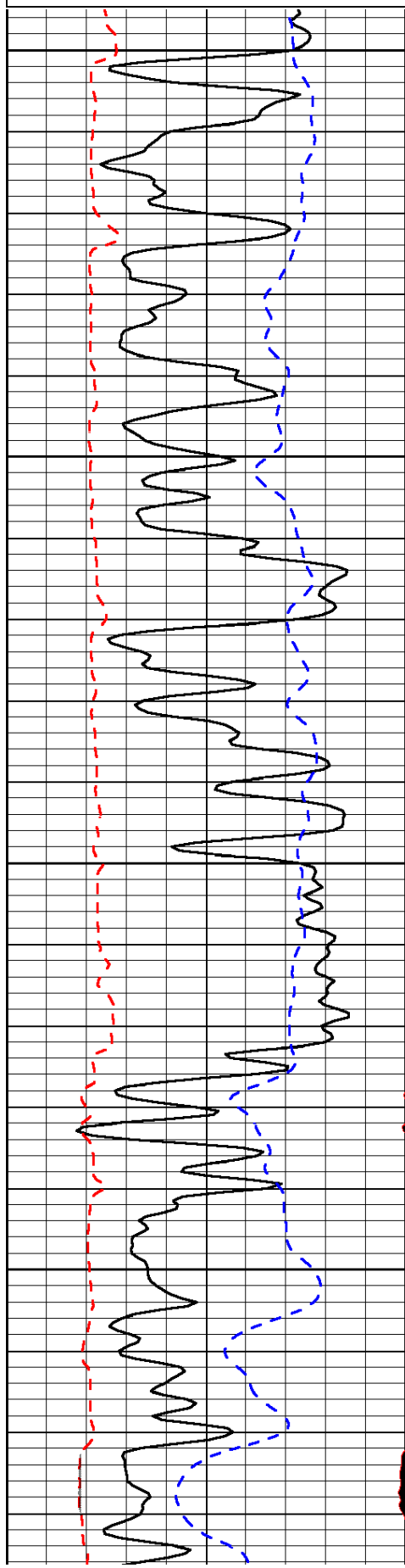
Thank you for using Log-Tech, Inc.
(785) 625-3858

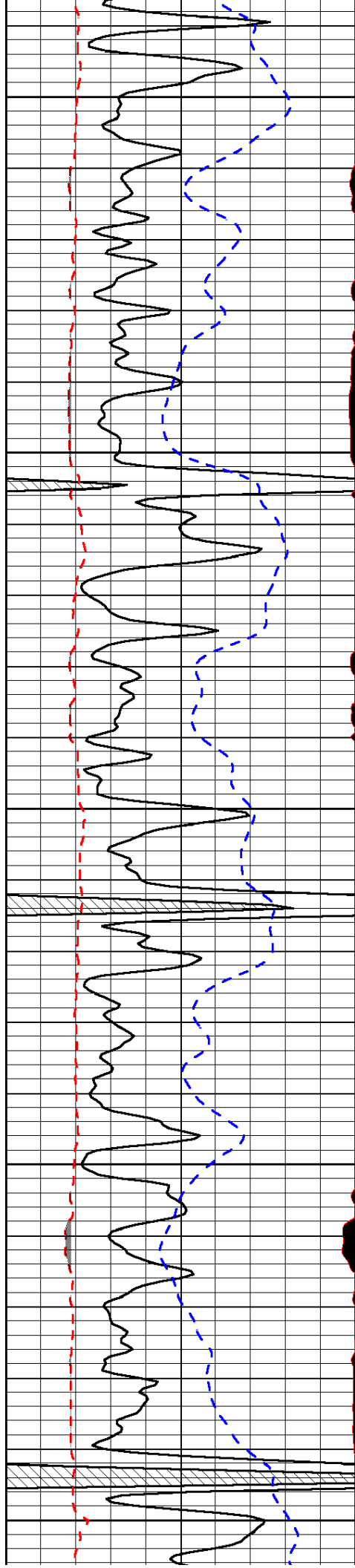
Hays Kansas
South on 240th to Mt. Pleasant Rd, 1 3/4 West, South Into

Database File: tdi_johnson_1hd.db
Dataset Pathname: DIL/tdistk
Presentation Format: micro
Dataset Creation: Wed Sep 25 15:08:40 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





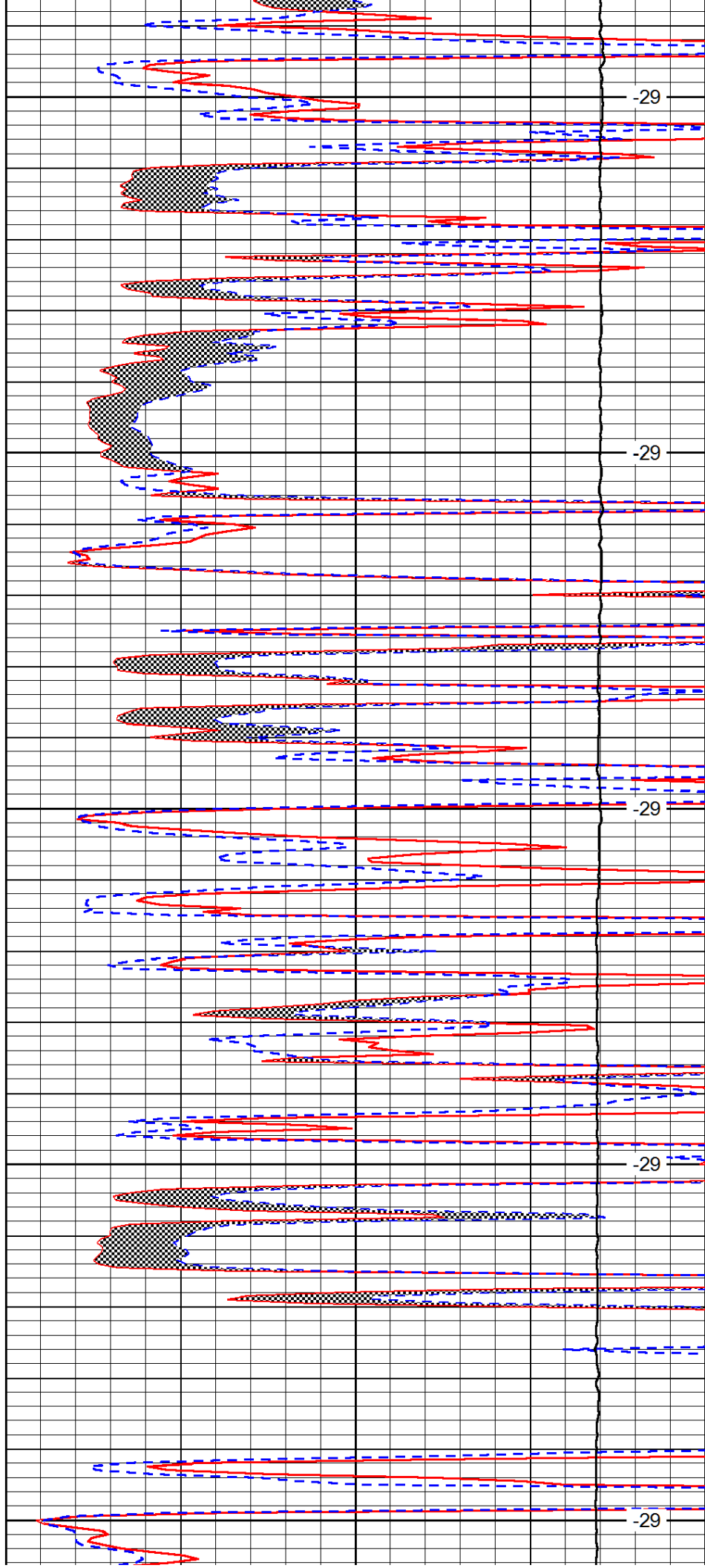
3200

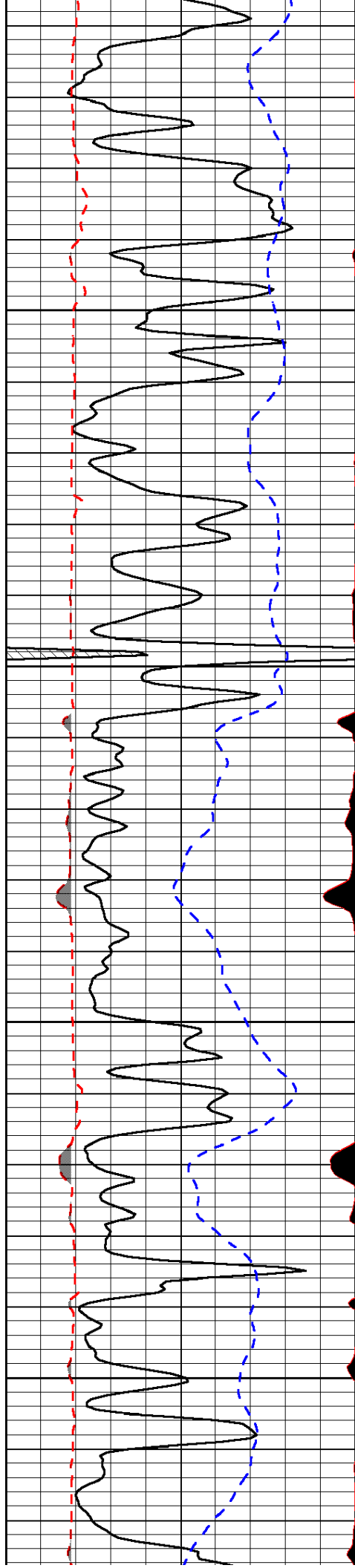
3250

3300

3350

3400



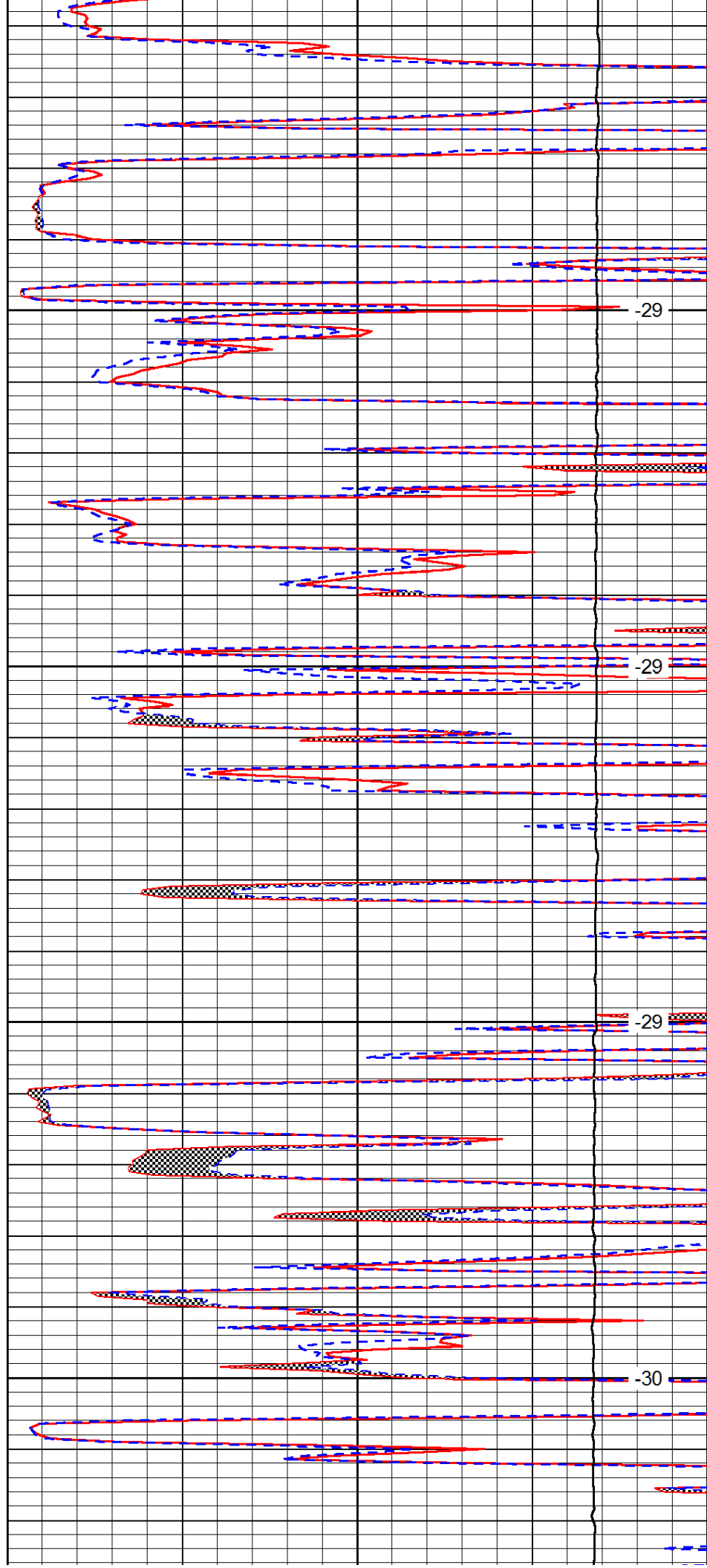


3450

3500

3550

3600

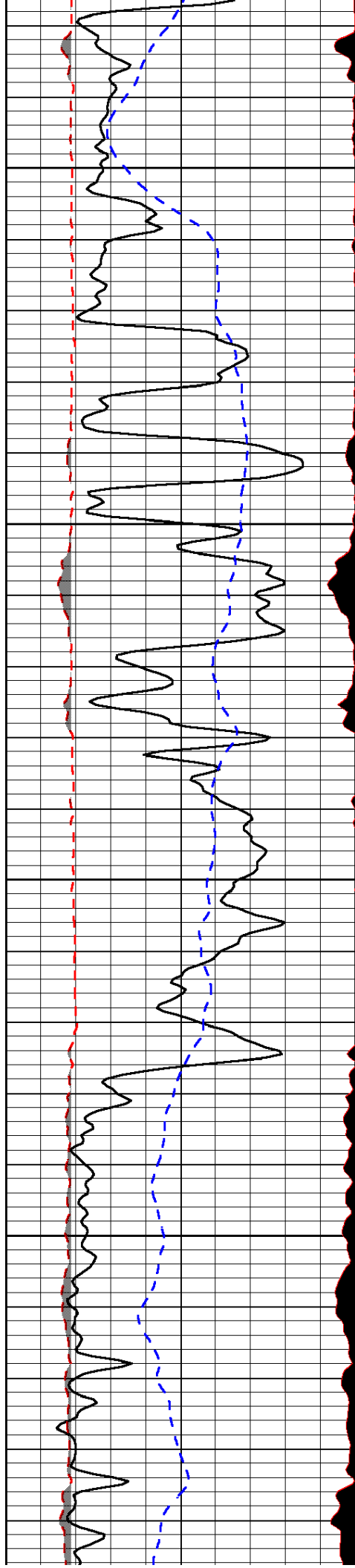


-29

-29

-29

-30

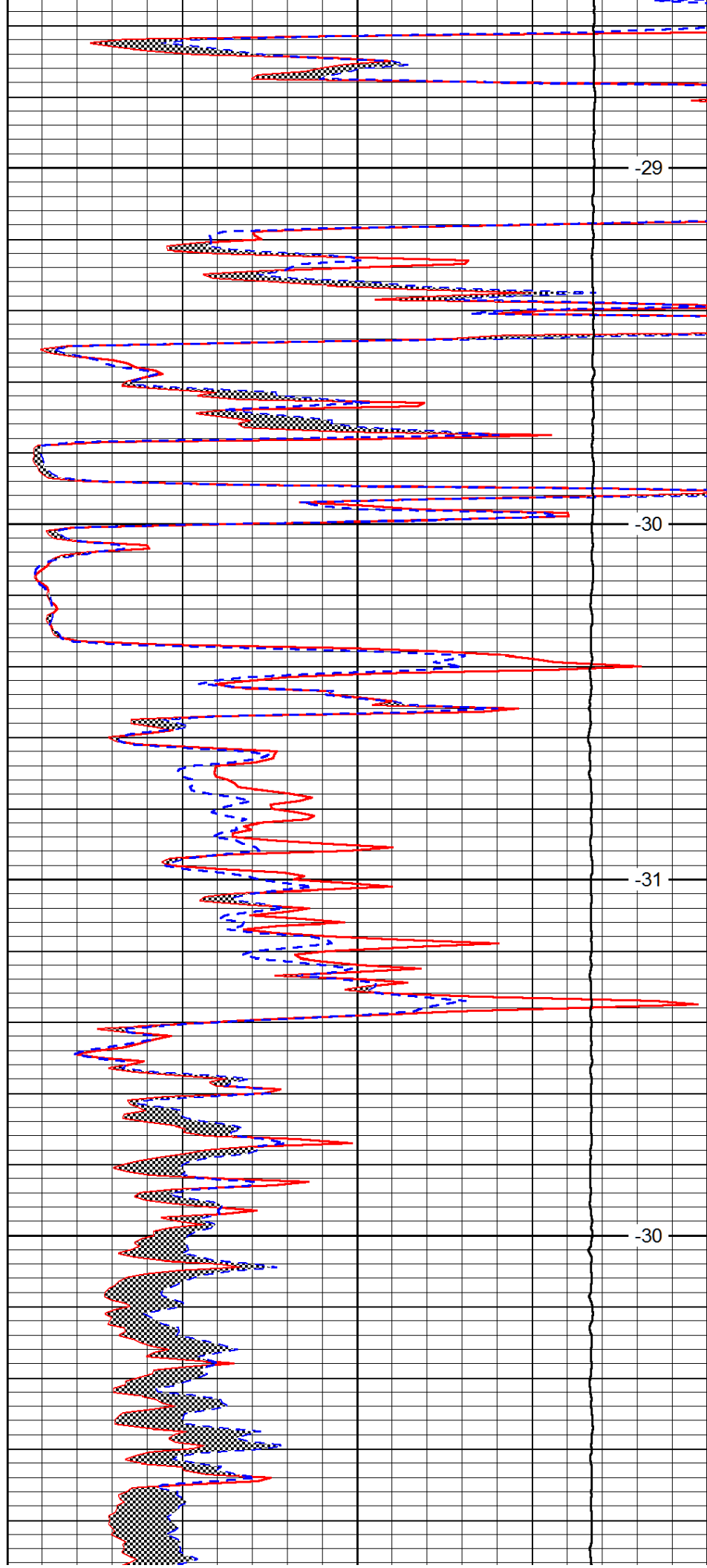


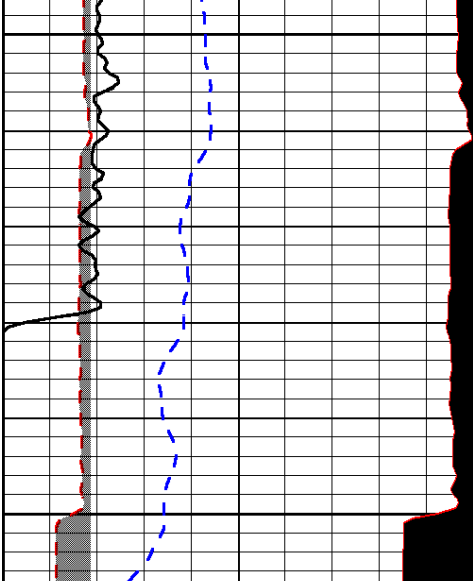
3650

3700

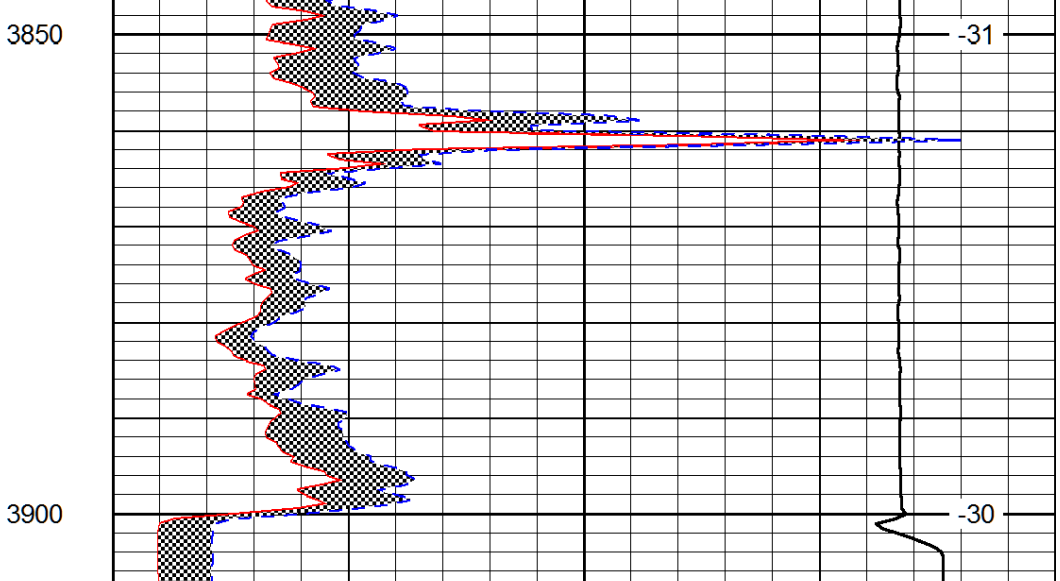
3750

3800





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



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)