



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22,541-00-00

Company Larson Engineering, Inc.

Well James Children's Trust #1-9

Field Wildcat

County Lane State Kansas

Location

SE NE NE NW
595' FNL & 2565' FWL

Sec: 9 Twp: 16S Rge: 28W

Permanent Datum Ground Level Elevation 2618
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 2627
D.F.
G.L. 2618

Date 11/16/2014

Run Number Two

Depth Driller 4500

Depth Logger 4498

Bottom Logged Interval 4497

Top Log Interval 3600

Casing Driller 8.625 @ 257

Casing Logger 252

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2.800

Density / Viscosity 9.0 50

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp .9 @ 55

Rmf @ Meas. Temp .68 @ 55

Rmc @ Meas. Temp 1.22 @ 55

Source of Rmf / Rmc Charts

Rm @ BHT .41 @ 121

Operating Rig Time 4 Hours

Max Rec. Temp. F 121

Equipment Number 51

Location Hays

Recorded By C. Desaire

Witnessed By Vern Schrag

<<< 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.

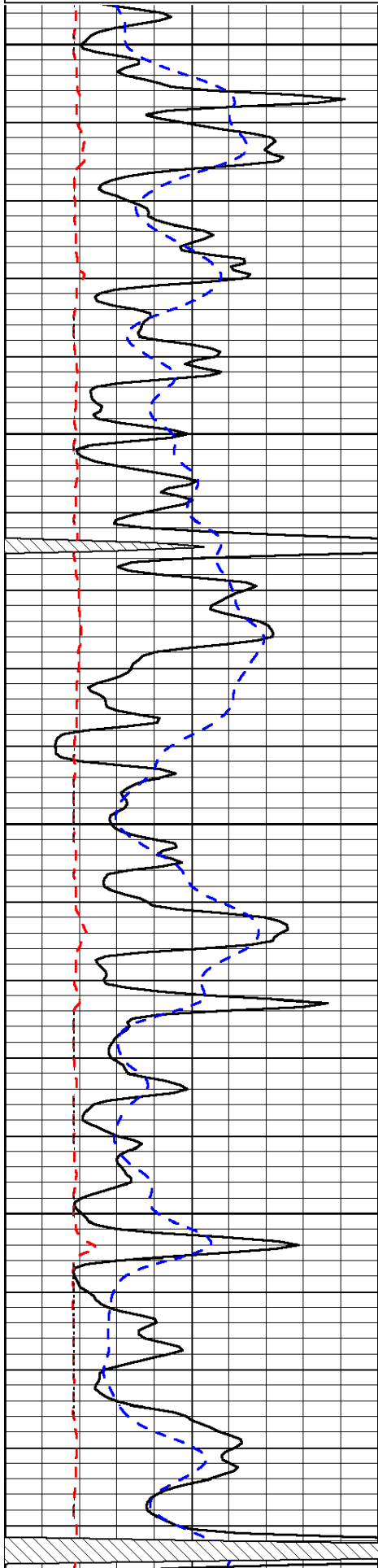
Comments

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

Shields KS, E edge, 4 N on Laredo Rd to 280 Rd,
1 1/2 E, 1 N, W Into 3/4

Database File: c:\warrior\data\larson_james children's trust #1-9\larhd.db
Dataset Pathname: dil\larstk
Presentation Format: micro
Dataset Creation: Sun Nov 16 16:39:32 2014
Charted by: Depth in Feet scaled 1:240

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



3600

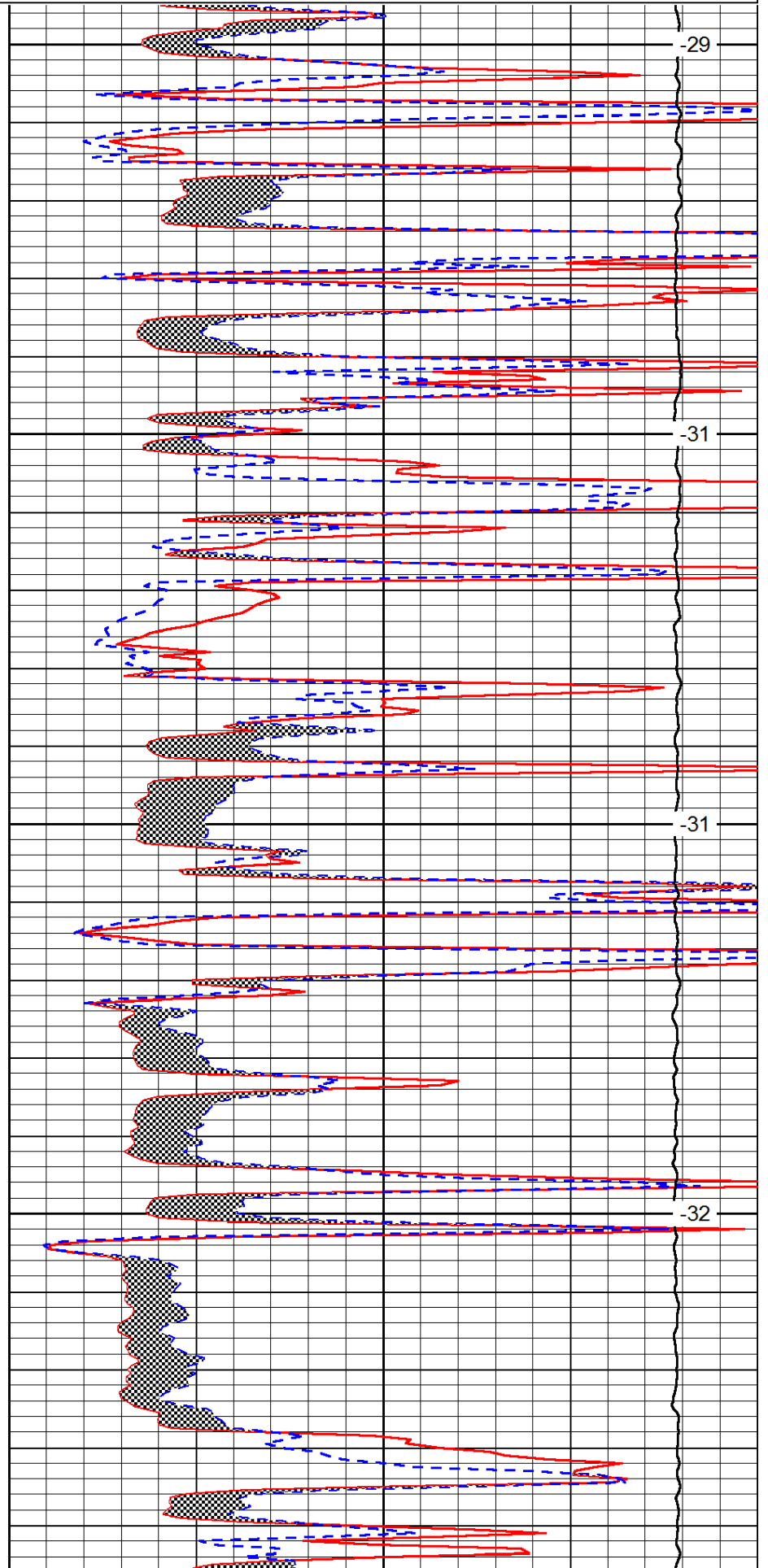
3650

3700

3750

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

LSPD

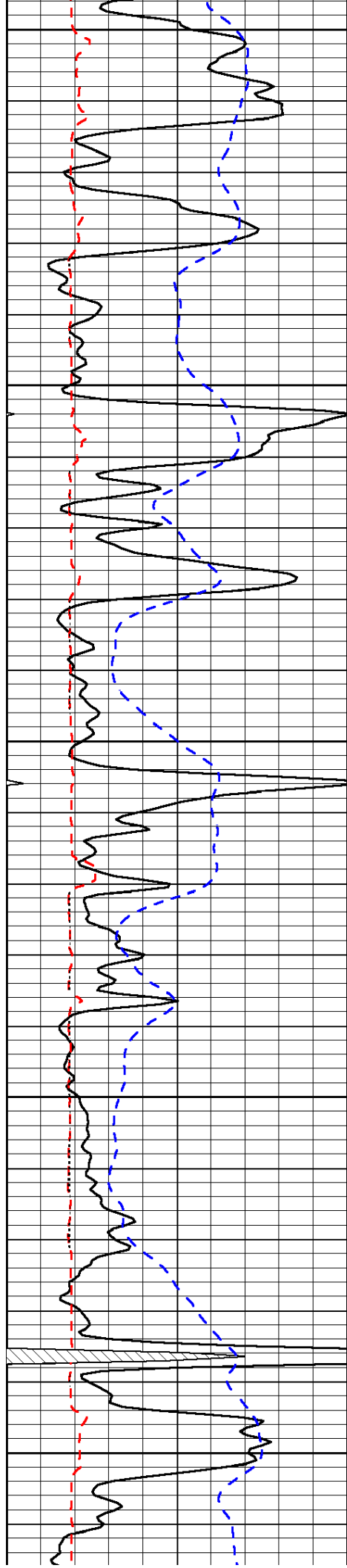


-29

-31

-31

-32



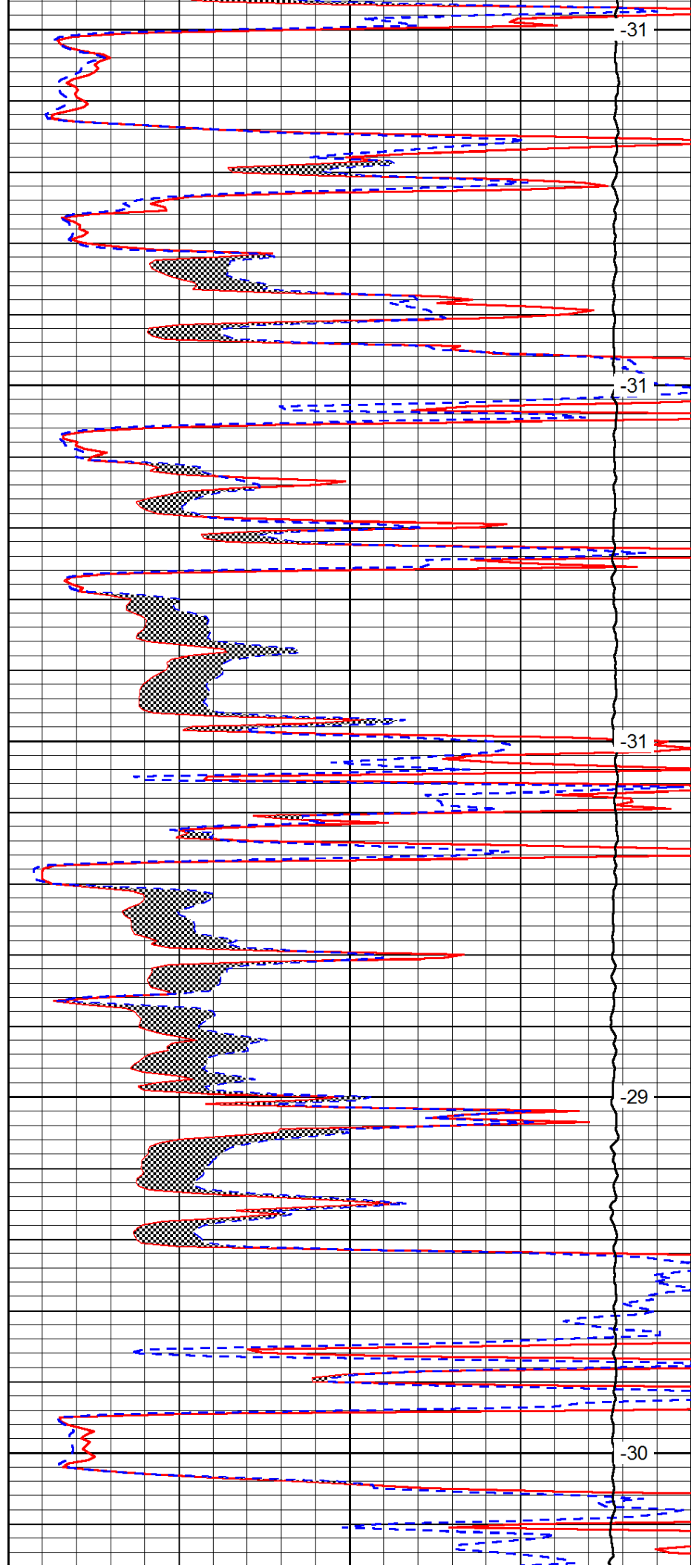
3800

3850

3900

3950

4000



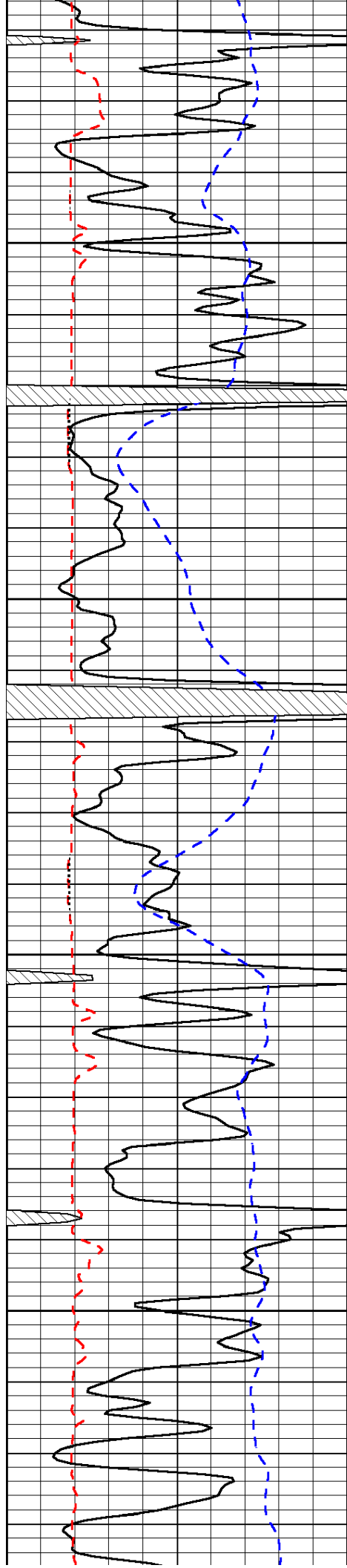
-31

-31

-31

-29

-30

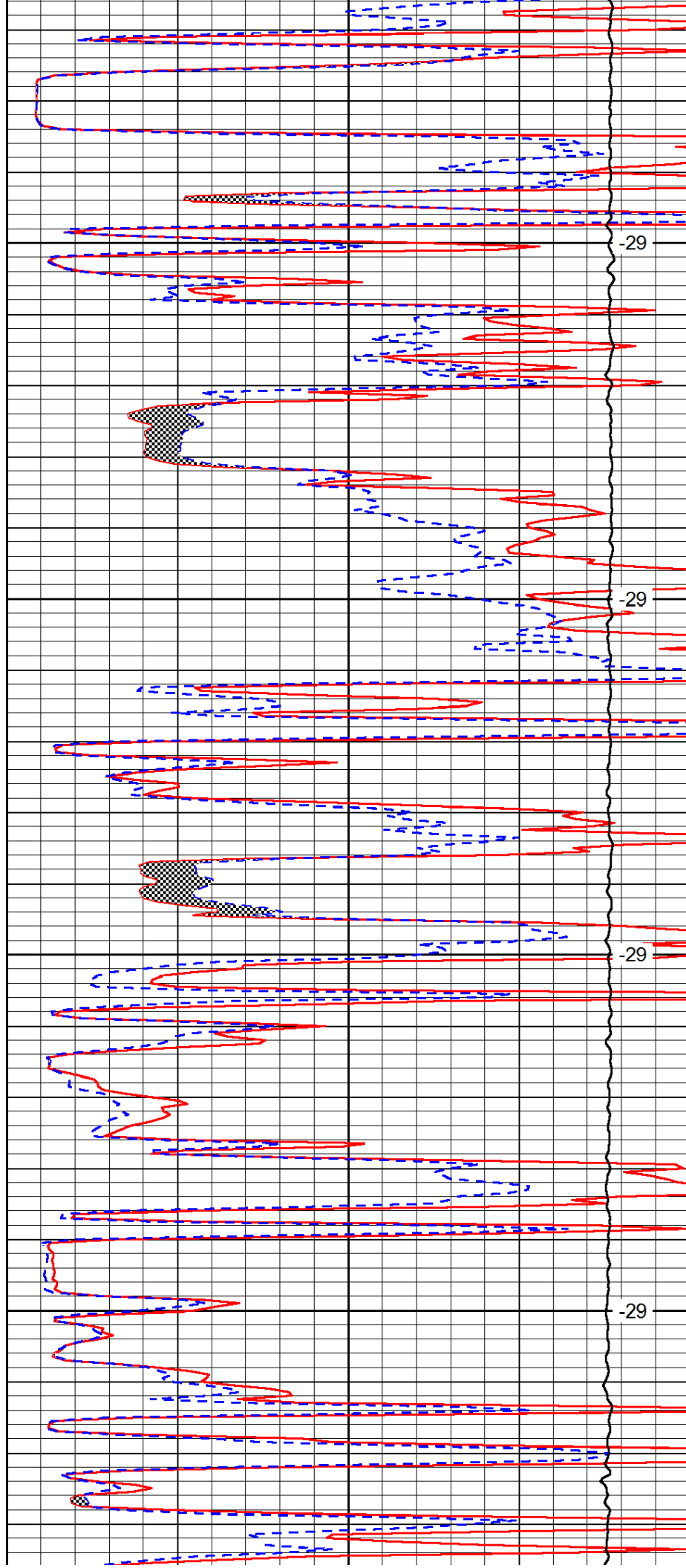


4050

4100

4150

4200

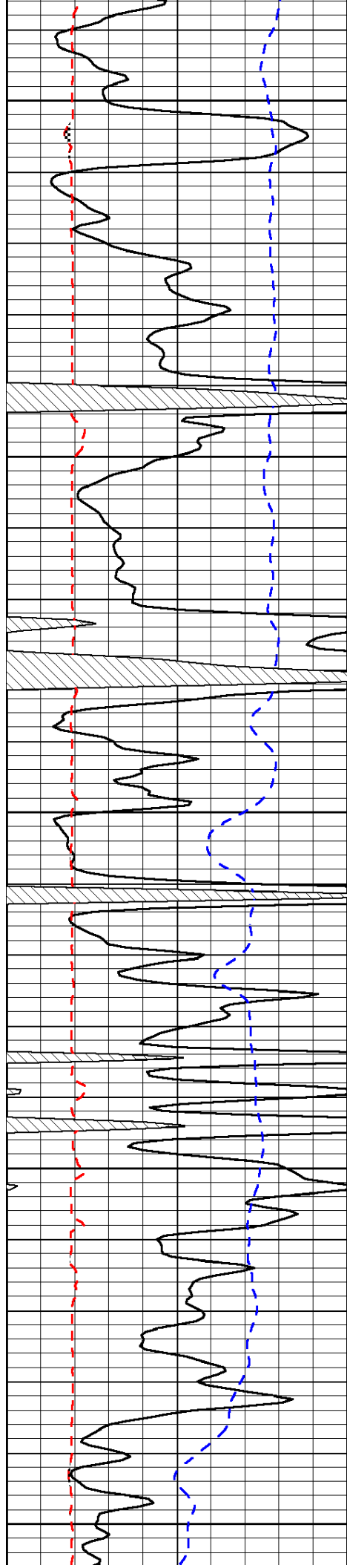


-29

-29

-29

-29



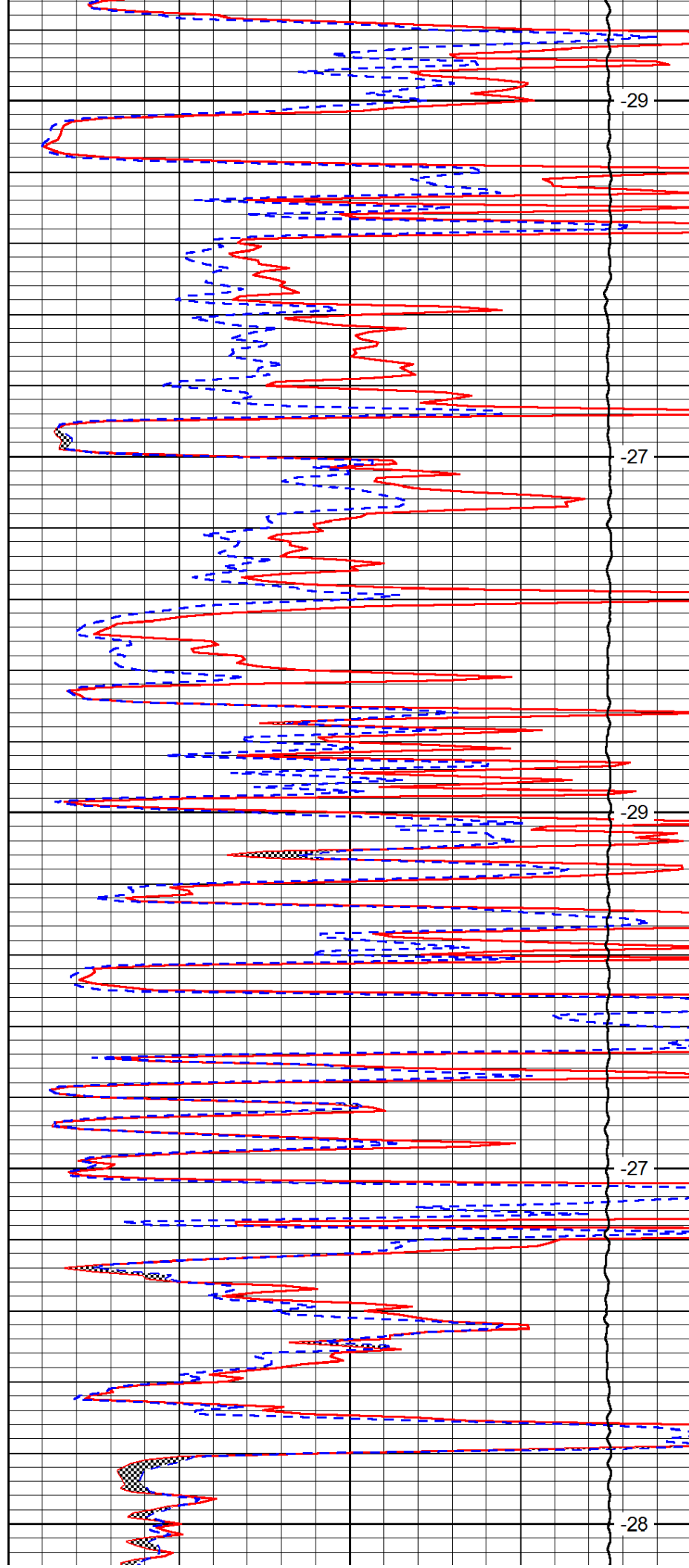
4250

4300

4350

4400

4450



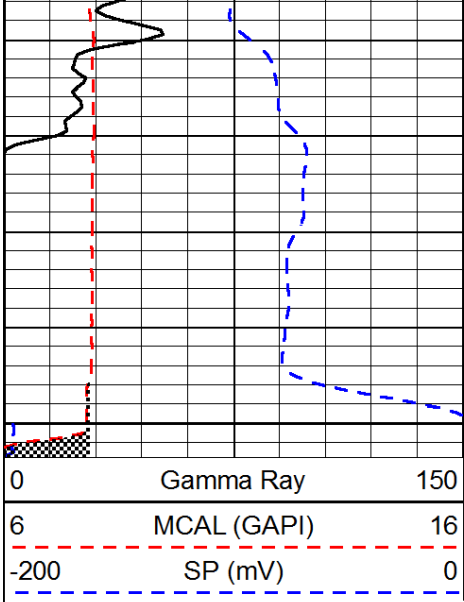
-29

-27

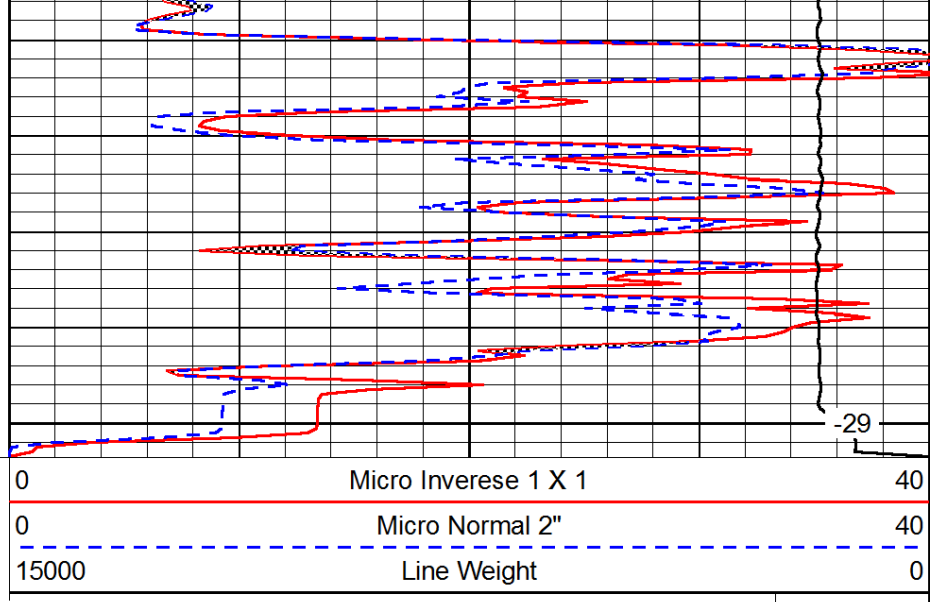
-29

-27

-28



4500



-29

LSPD