



Pioneer Energy Services

Dual Induction Log

API No.

15-017-20914-00-00

Company Kremeier Production & Operating

Well Miller #1

Field Koegeboehn

County Chase State

Kansas

Location

E2 SW SE NE
2310' FNL / 830' FEL

Other Services
MEL / DIL

Sec: 20

Twp: 19S

Rge: 6E

Elevation

Permanent Datum Ground Level Elevation 1453
Log Measured From Ground Level 0 Ft. Above Perm. Datum
Drilling Measured From Ground Level

Date

10/26/2013

Run Number

Two

Depth Driller

644

Depth Logger

644

Bottom Logged Interval

643

Top Log Interval

200

Casing Driller

8.625 @ 207

Casing Logger

204

Bit Size

6.75

Type Fluid in Hole

Chemical

Salinity, ppm CL

NA

Density / Viscosity

9.3 40

pH / Fluid Loss

NA NA

Source of Sample

Flowline

Rm @ Meas. Temp

3.00 @ 59

Rmf @ Meas. Temp

2.25 @ 59

Rmc @ Meas. Temp

4.05 @ 59

Source of Rmf / Rmc

Charts

Rm @ BHT

2.15 @ 82

Operating Rig Time

2 Hours

Max Rec. Temp. F

82

Equipment Number

17

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Les Kremeier

<<< 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

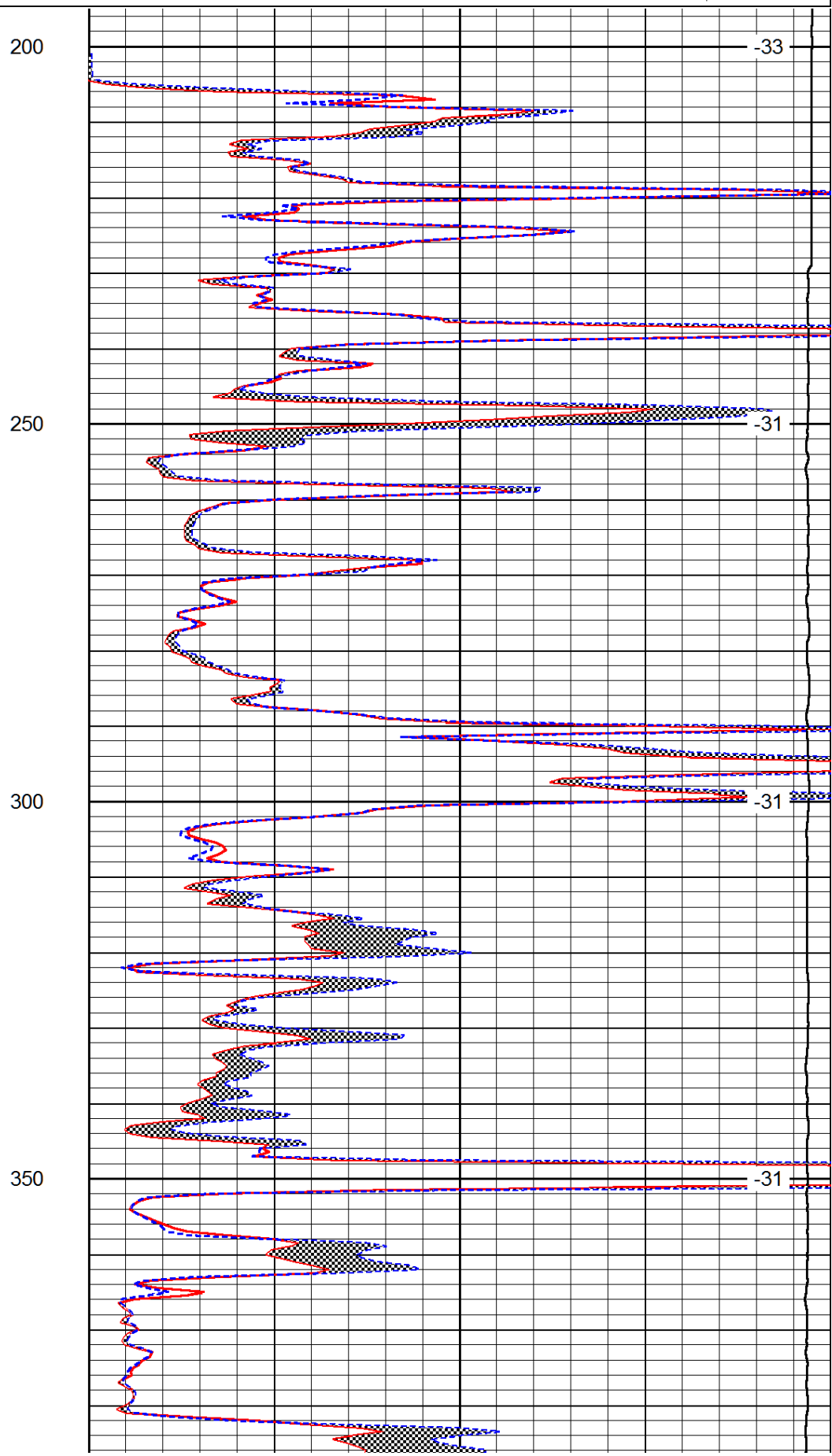
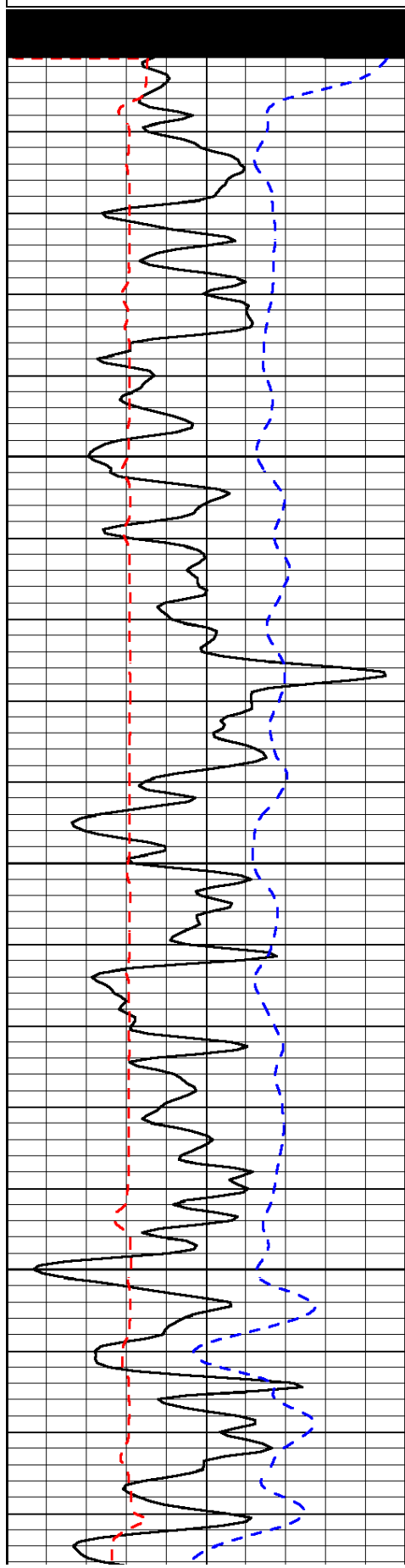
Thank you for using Log-Tech, Inc.
(785) 625-3858

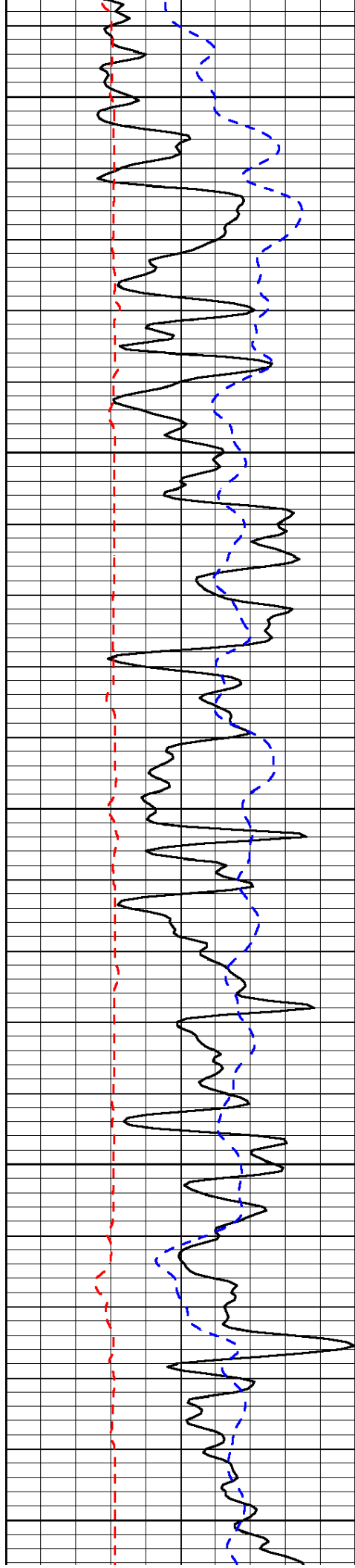
Marion, KS:
Hwy 56 & 77: 9E to C Rd., 2N, E into

Database File: kremier_hd.db
Dataset Pathname: mel/krmmain
Presentation Format: ekmicro
Dataset Creation: Sat Oct 26 17:19:20 2013
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
4	mcal (in)	14
-200	sp (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	100
0	Micro Normal 2" (Ohm-m)	100
15000	Line Weight (lb)	0
		LSPD (ft/min)





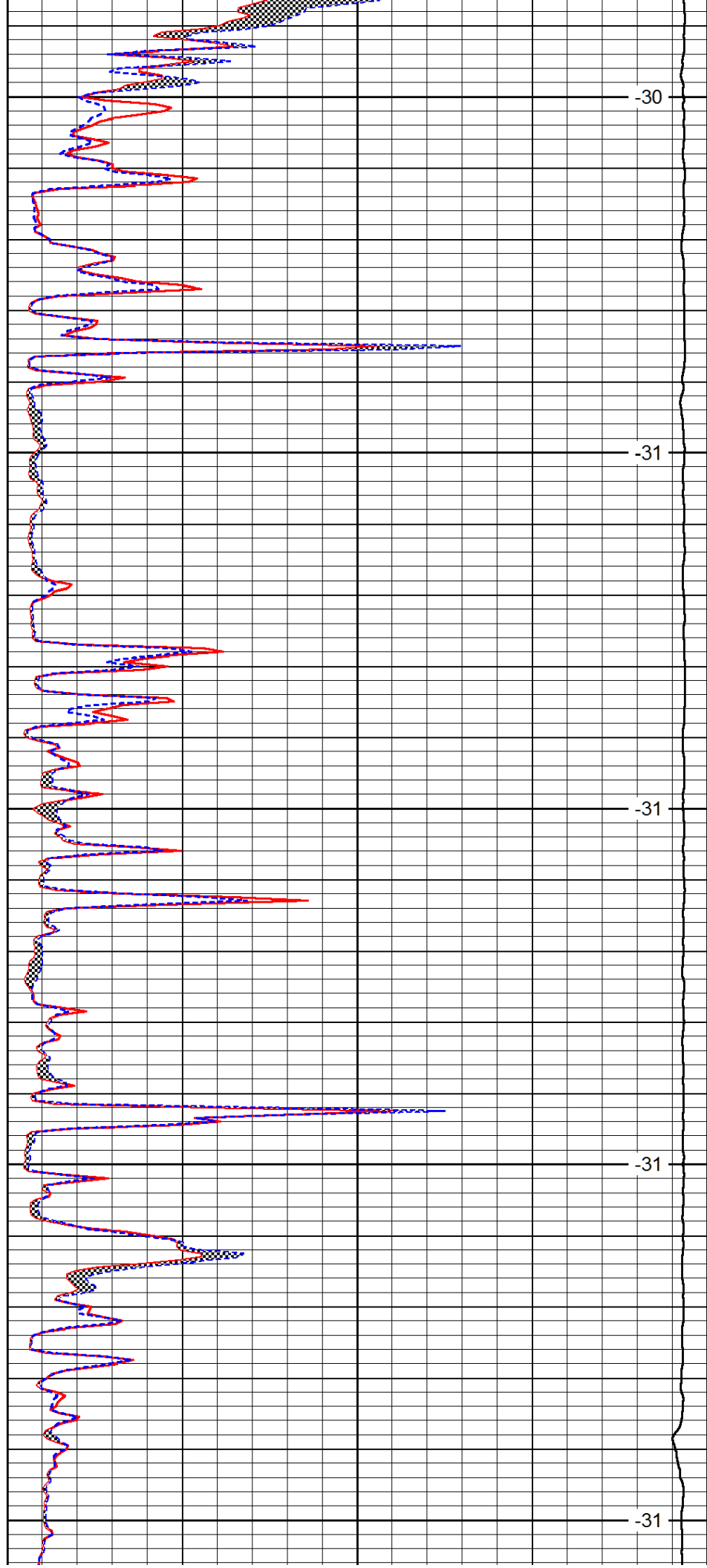
400

450

500

550

600



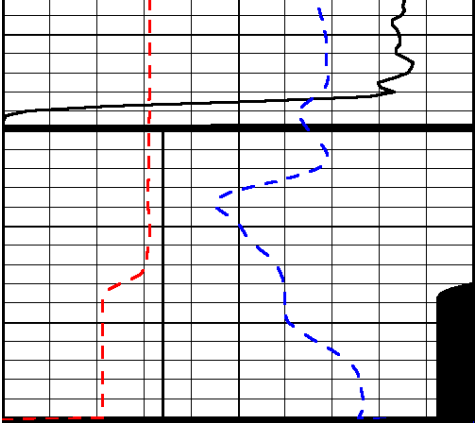
-30

-31

-31

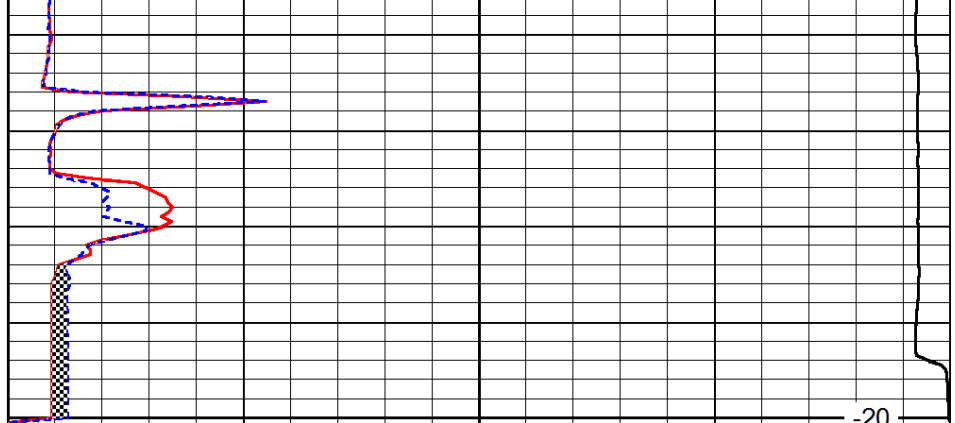
-31

-31



0	Gamma Ray (GAPI)	150
4	mcal (in)	14
-200	sp (mV)	0

650



0	Micro Inverse 1 X 1 (Ohm-m)	100
0	Micro Normal 2" (Ohm-m)	100
15000	Line Weight (lb)	0

LSPD
(ft/min)