



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.

15-163-23,813-00-00

Company Murfin Drilling Company, Inc.

Well M&A Unit No.1-32

Field

County Rooks State Kansas

Location 935' FNL & 2345' FEL

Sec: 32 Twp: 10S Rge: 18W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level Elevation 2043

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 2048
D.F. 2043
G.L. 2043

Date 7/13/2009

Run Number Two

Depth Driller 3730

Depth Logger 3726

Bottom Logged Interval 3725

Top Log Interval 2900

Casing Driller 8.625 @ 218

Casing Logger 200

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6,900

Density / Viscosity 9.1 57

pH / Fluid Loss 11.0 7.2

Source of Sample Flowline

Rm @ Meas. Temp .8 @ 85

Rmf @ Meas. Temp .6 @ 85

Rmc @ Meas. Temp 1.08 @ 85

Source of Rmf / Rmc Charts

Rm @ BHT .59 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Rocky Milford

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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.

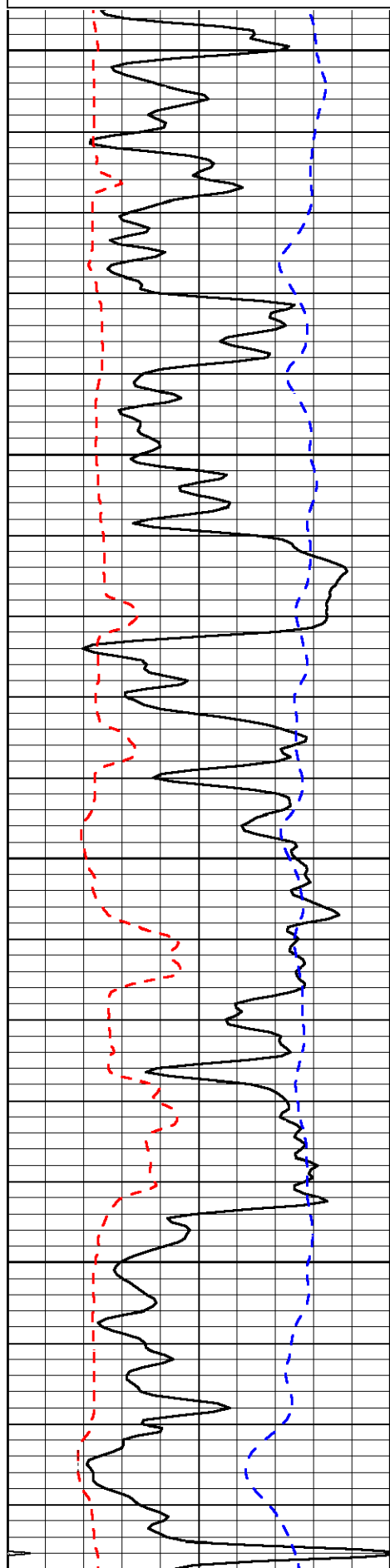
Comments

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

Hays, N to Saline River Rd, 1 1/2,
3 3/4 N, W Into

Database File: c:\warrior\data\murfin_m&a unit #1-32\murfin.db
Dataset Pathname: dil/mrfnstk
Presentation Format: micro
Dataset Creation: Mon Jul 13 21:25:01 2009
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (in)	16
-200	SP (MV)	0



2900

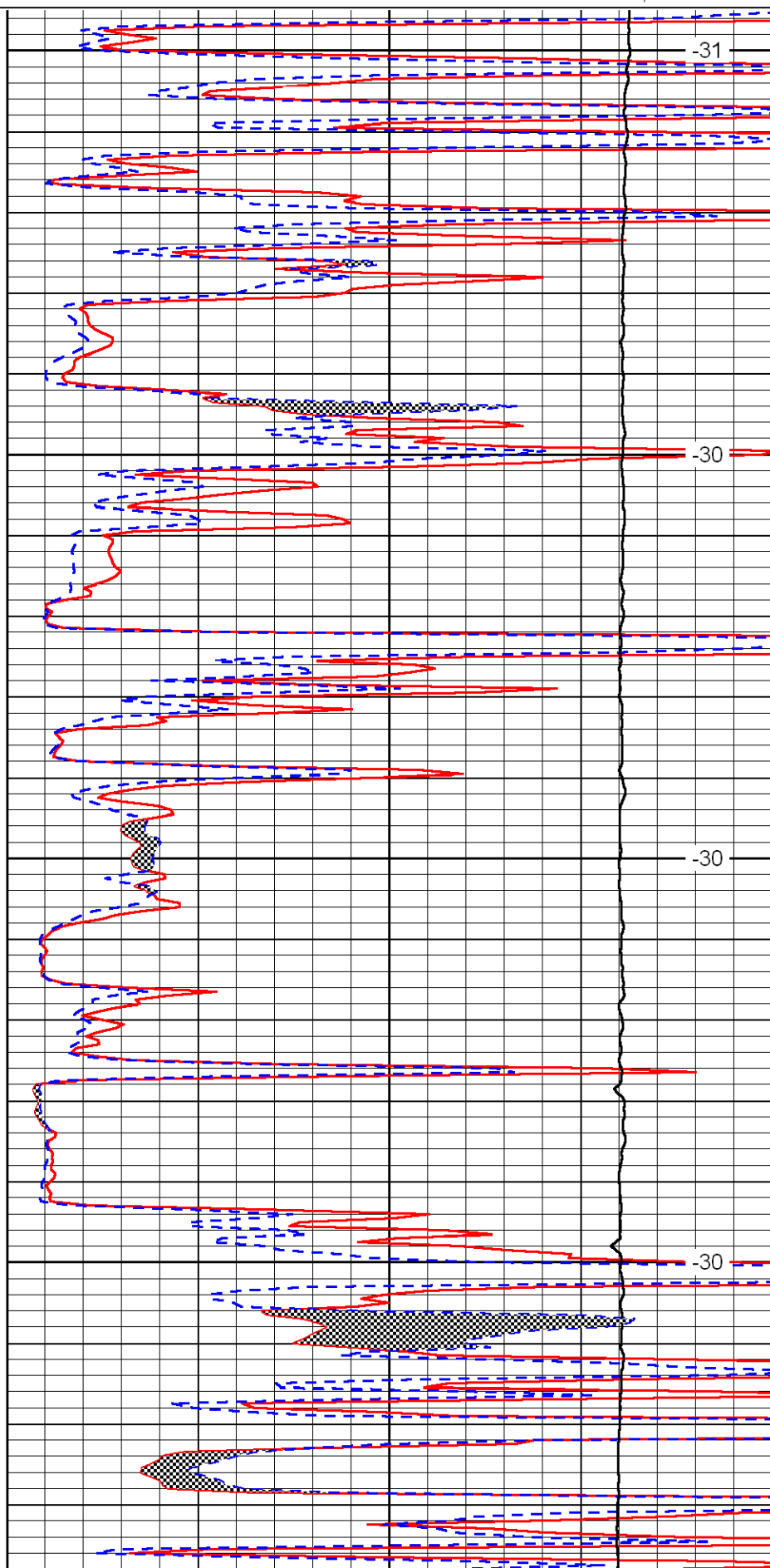
2950

3000

3050

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

LSPD
(ft/min)

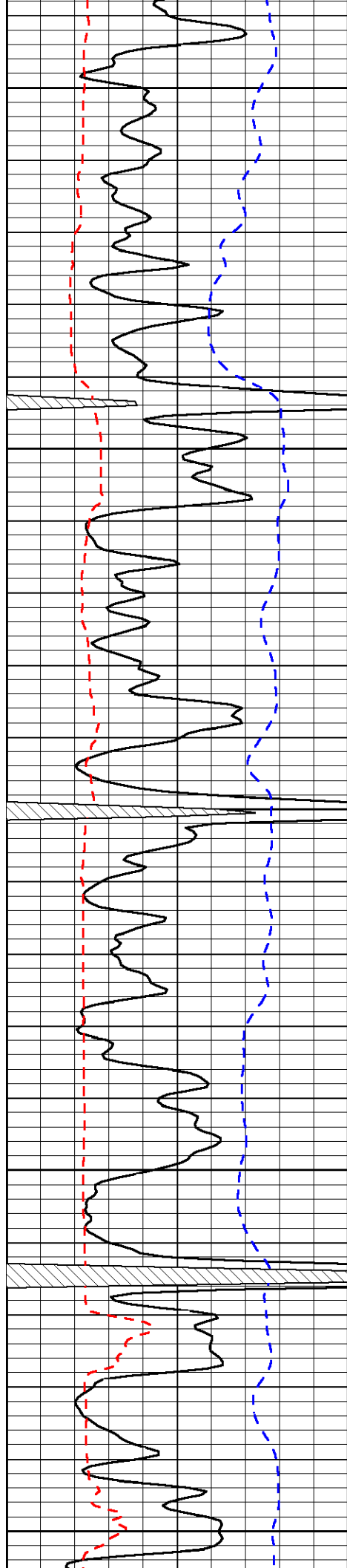


-31

-30

-30

-30



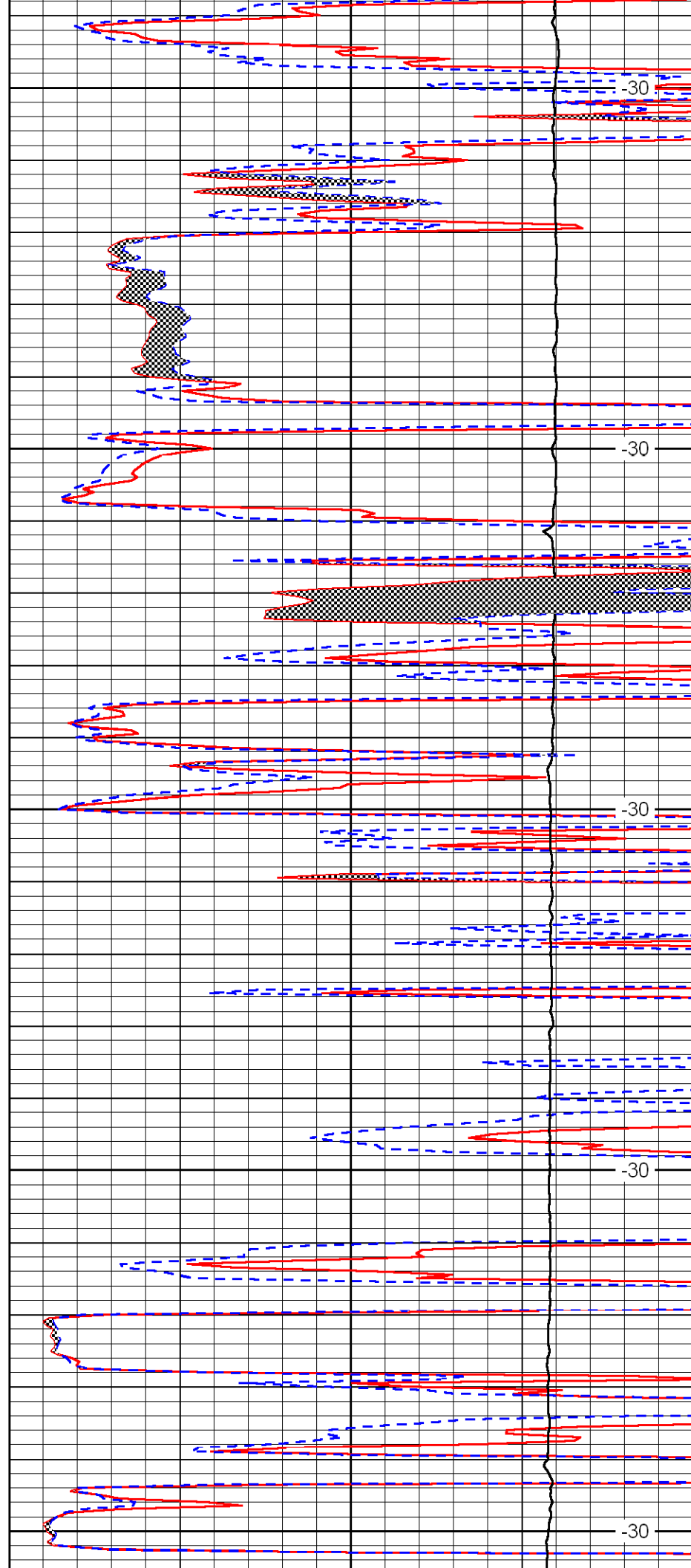
3100

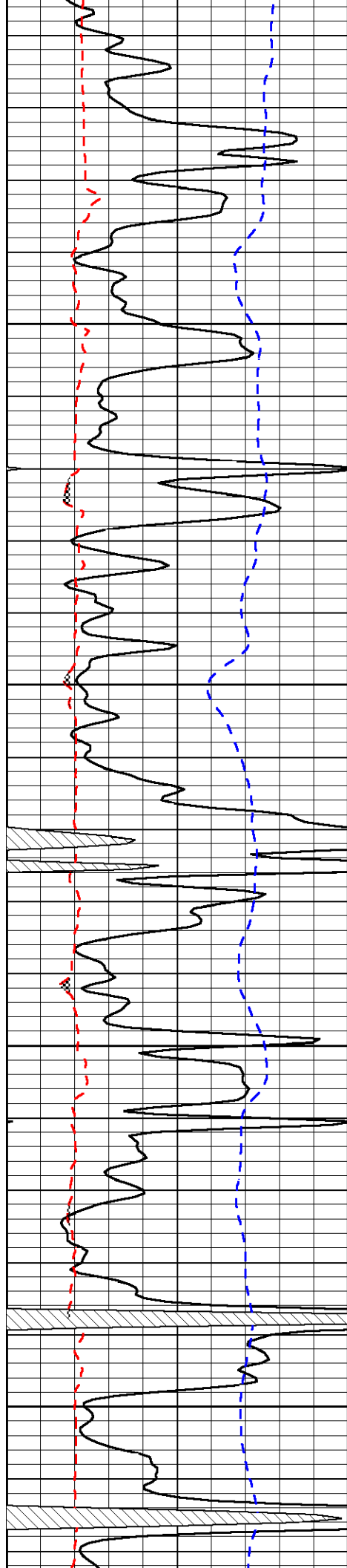
3150

3200

3250

3300



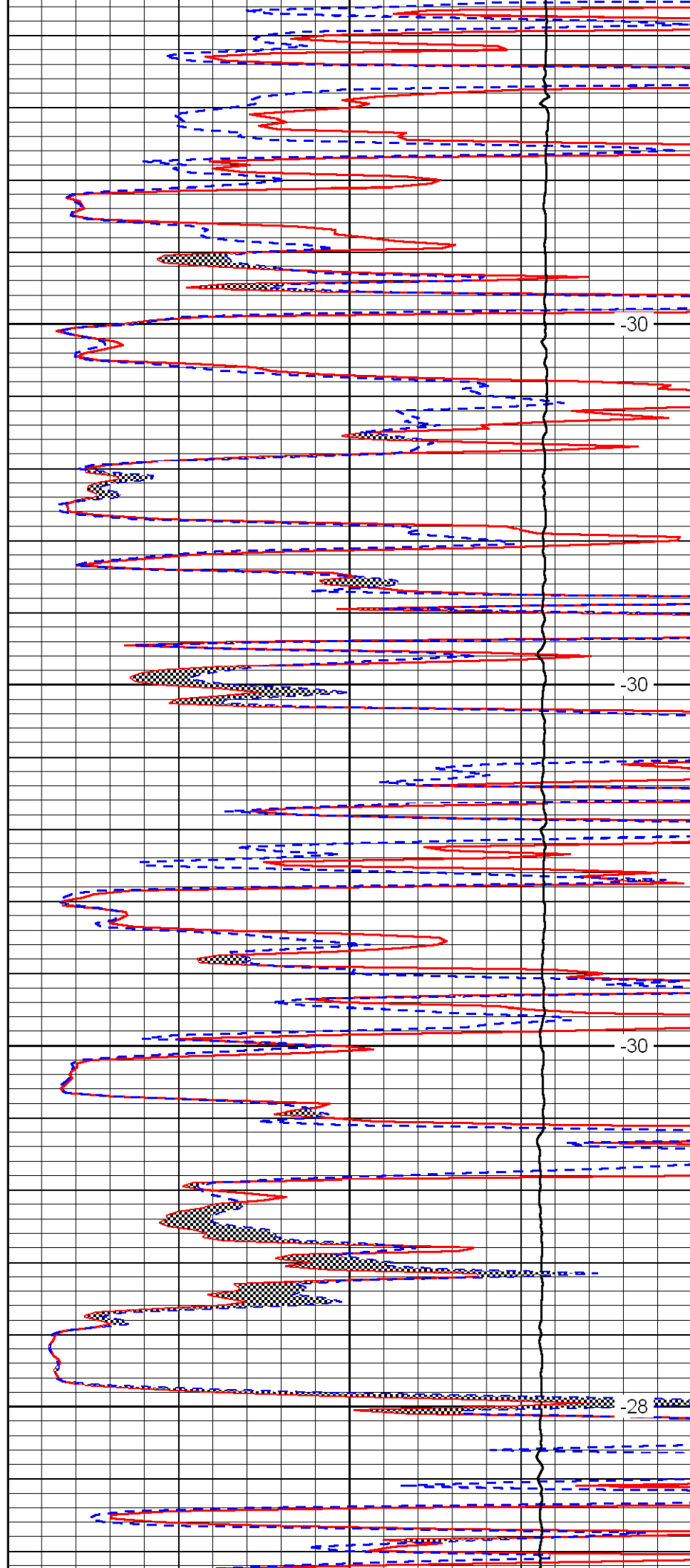


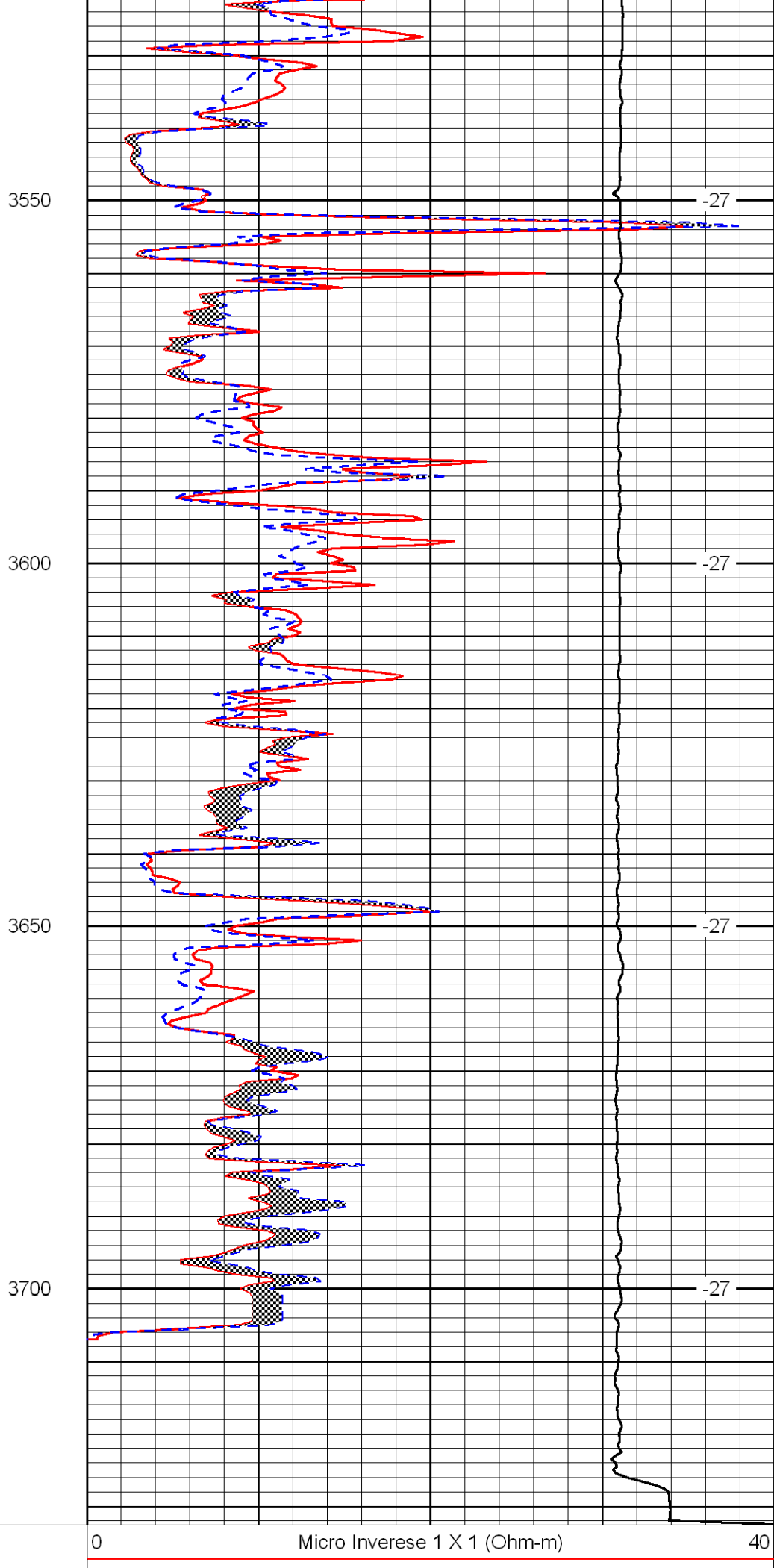
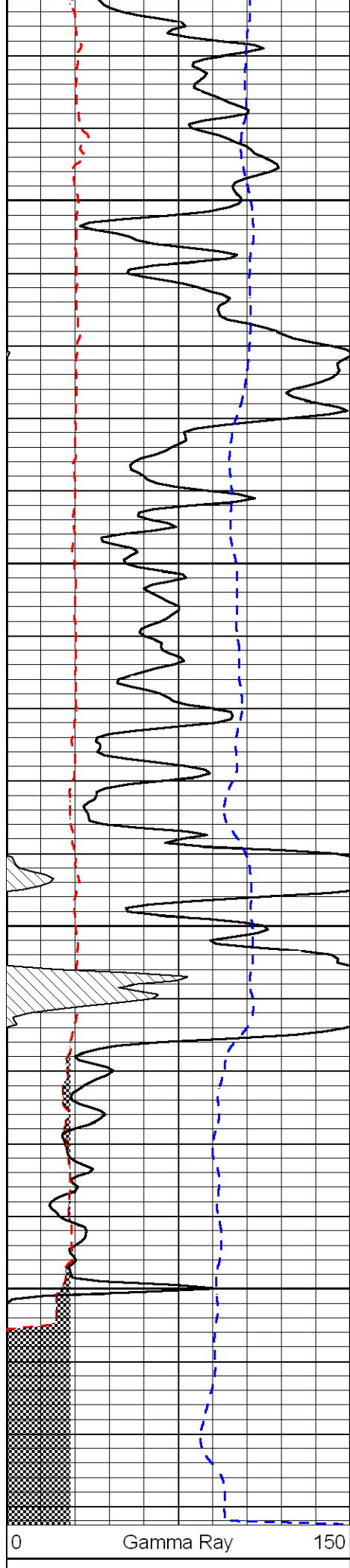
3350

3400

3450

3500





0	Micro Log Caliper (in)	10
-200	SP (MV)	0

0	Micro Normal 2 (Ohm-in)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)