



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-051-26418-00-00

Company **Murfin Drilling Company, Inc.**

Well **Haneke Inv #1-18**

Field **Wildcat**

County **Ellis**

State **Kansas**

Location **2550' FNL & 1100' FWL**

Sec: **18** Twp: **11S** Rge: **20W**

Other Services
DIL
MEL/BHCS

Permanent Datum **Ground Level** Elevation **2135**

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

K.B. **2140**
D.F. **2135**
G.L. **2135**

Date **11/9/2012**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3814**

Depth Logger **3812**

Bottom Logged Interval **3791**

Top Logged Interval **3050**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **6900**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **116**

Operating Rig Time **5 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Paul Gunzelman**

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 12.25 00 217 8.625 23# 00 217

Two 7.875 217 TD

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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

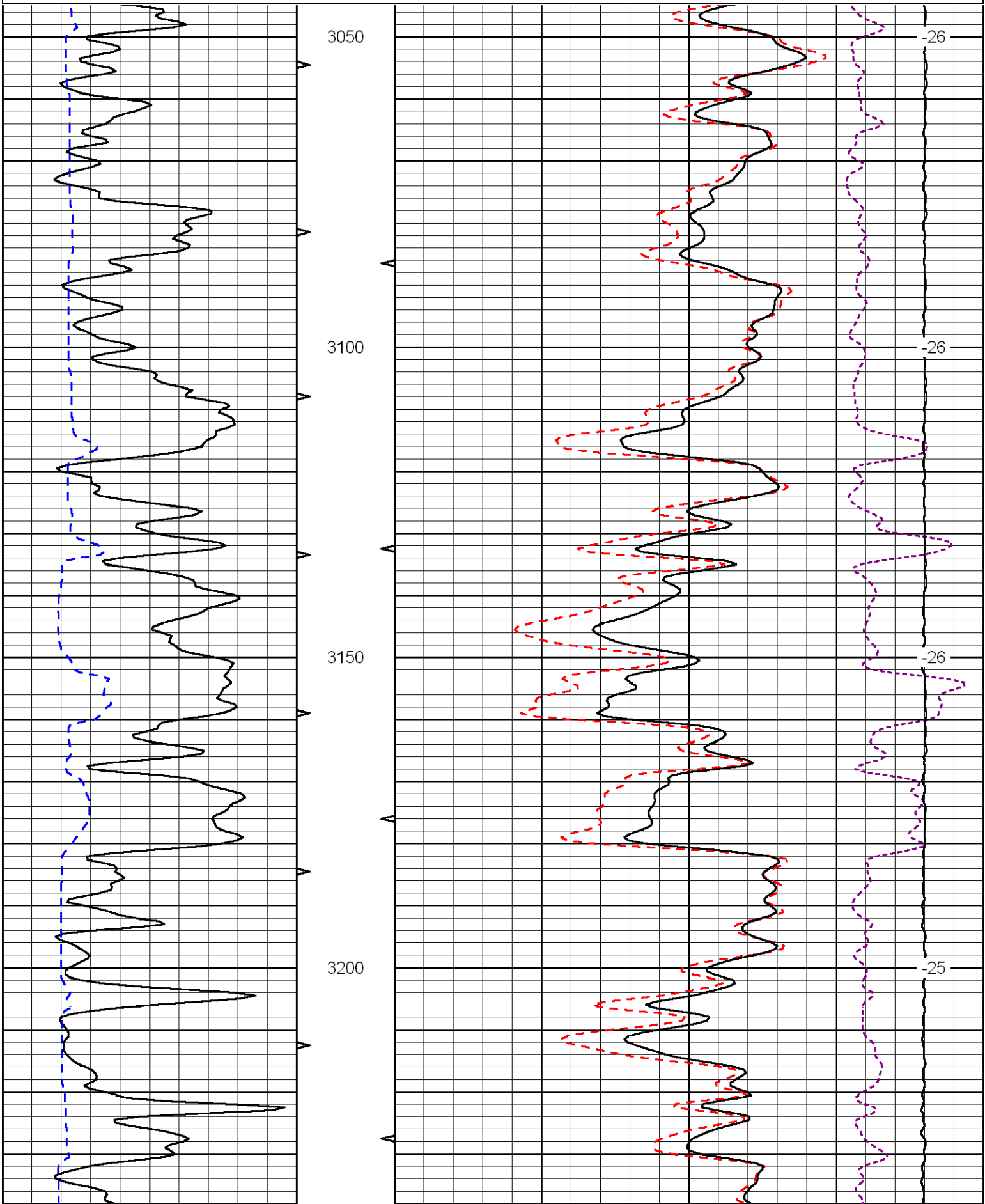
Thank you for using Log-Tech, Inc.
(785) 625-3858

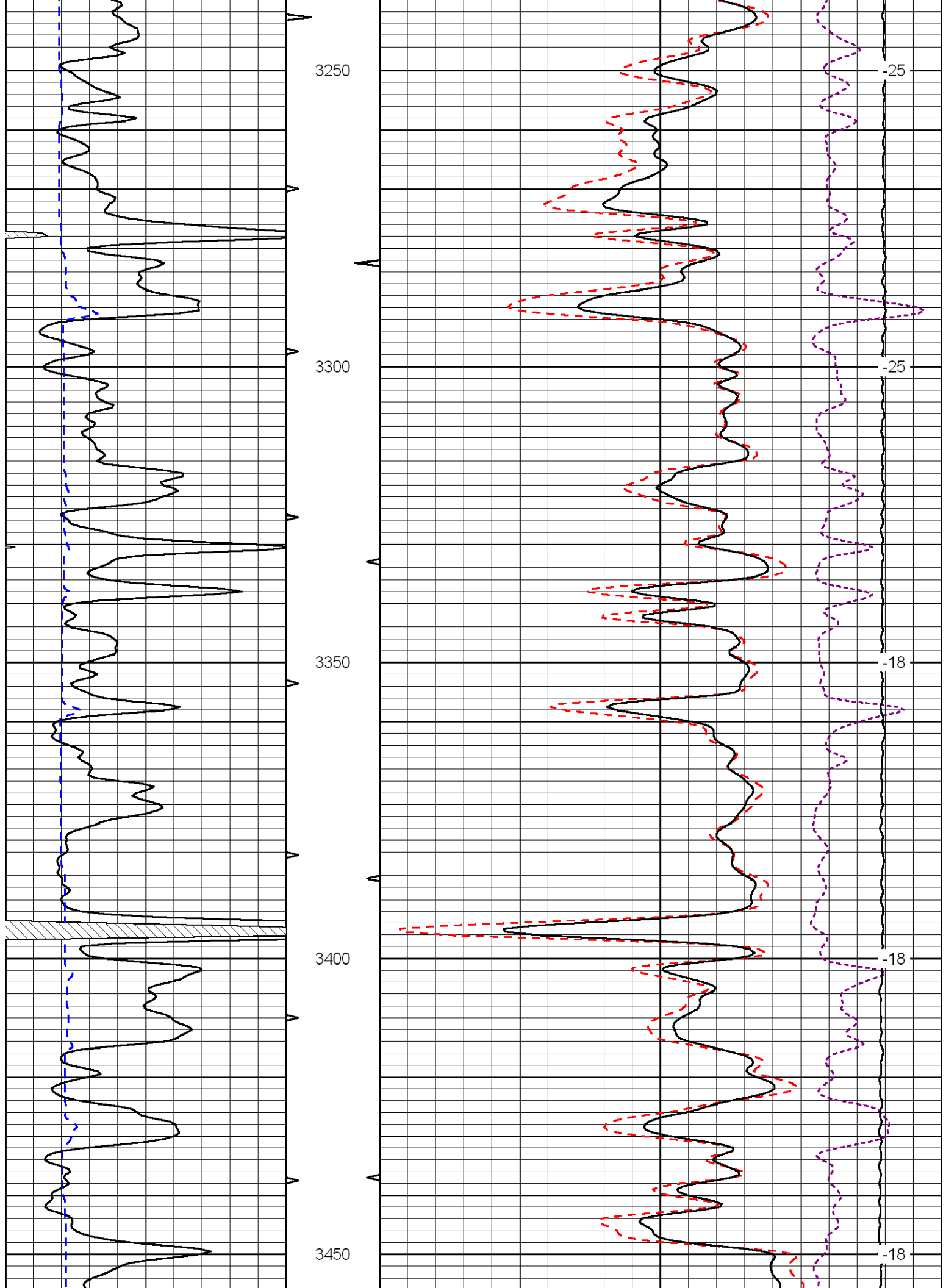
Ellis,
10 1/2 North to Riverview Rd, 2 West, 1 North, 1 West, 1/2 South,
East into

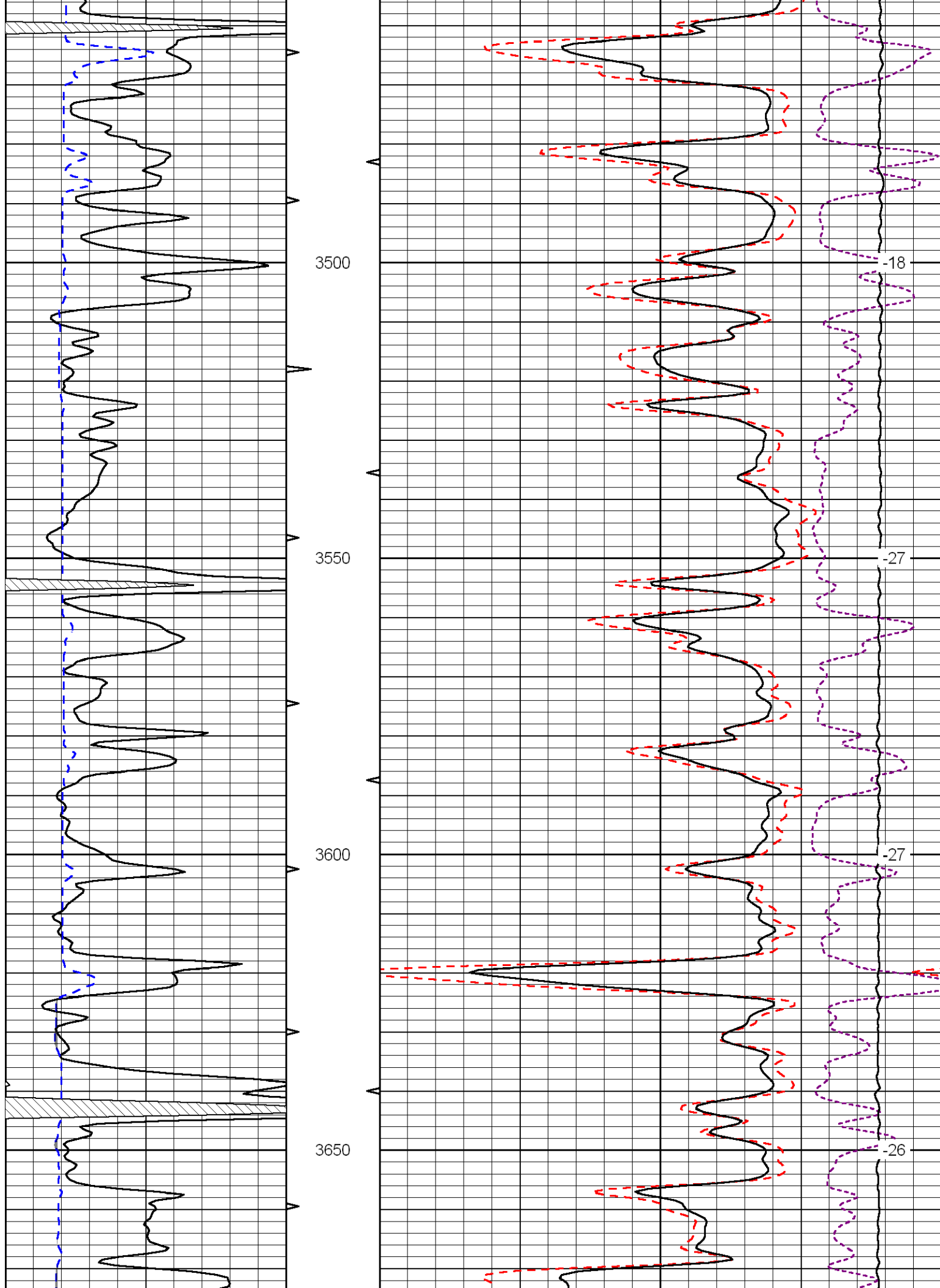
Database File: murfin_110912hd.db
Dataset Pathname: dil/mrfstack
Presentation Format: cdl
Dataset Creation: Fri Nov 09 20:40:04 2012
Charted by: Depth in Feet scaled 1:240

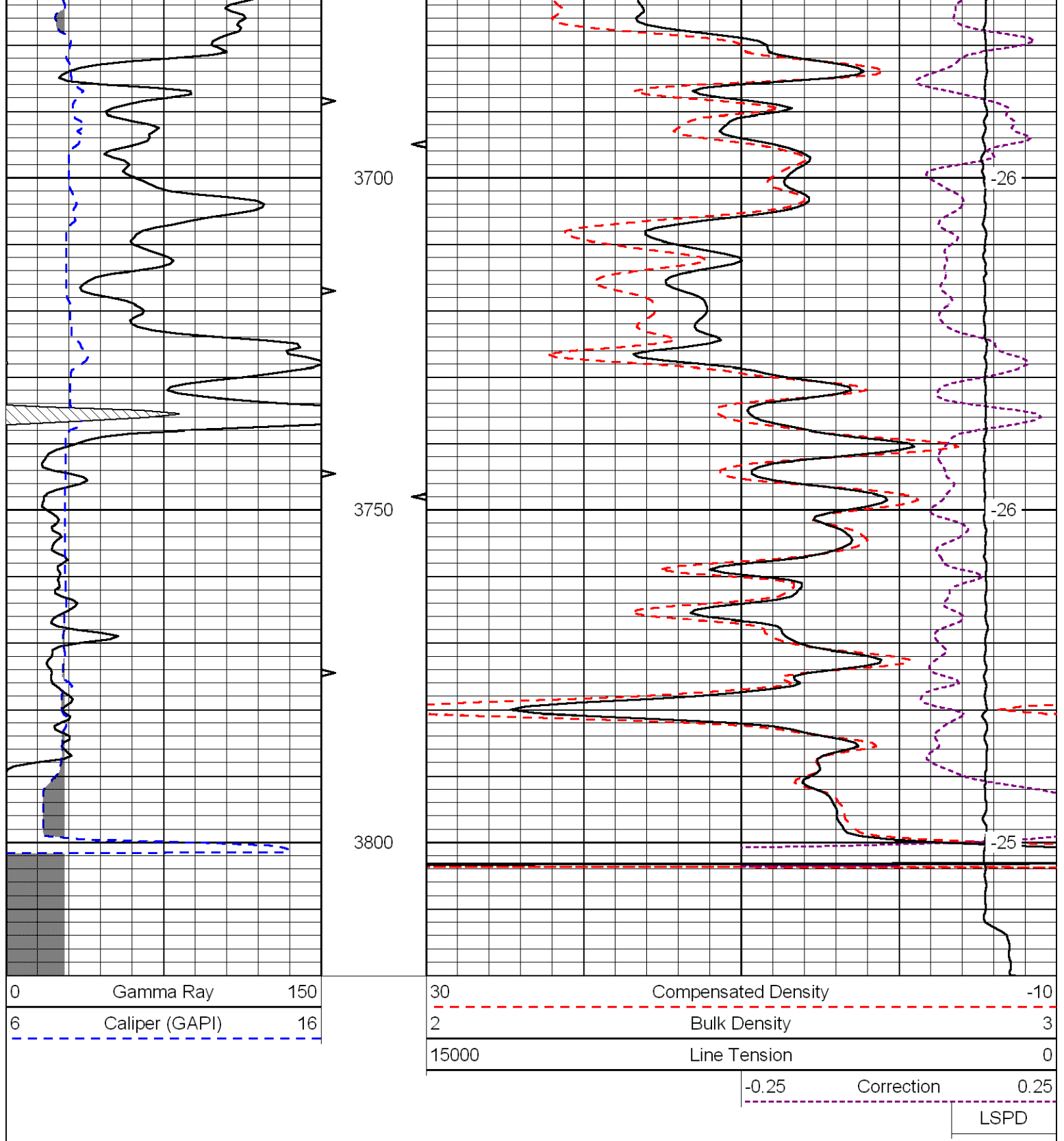
0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
LSPD		









Database File: murfin_110912hd.db
 Dataset Pathname: dil/mrfstack
 Presentation Format: cndlspec
 Dataset Creation: Fri Nov 09 20:40:04 2012
 Charted by: Depth in Feet scaled 1:240

