



## Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-167-23,935-00-00

Company Yale Oil Association, Inc.

Well Bogacz Smith No. 1-30

Field Trapp

County Russell

State Kansas

Location 1,980' FSL & 1,980' FWL

Sec: 30 Twp: 15S Rge: 13W

Other Services  
DIL/MEI

Permanent Datum Ground Level Elevation 1835  
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Elevation  
K.B. 1845  
D.F. 1845  
G.L. 1835

Date 1/13/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3262

Depth Logger 3260

Bottom Logged Interval 3239

Top Logged Interval 2700

Type Fluid In Hole Chemical

Salinity, PPM CL 6200

Density 9.1

Level Full

Max. Rec. Temp. F 109

Operating Rig Time 3 1/2 Hours

Equipment -- Location 108 Hays

Recorded By J. Long

Witnessed By Jim McDaniel

Borehole Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 420 8.625 23# 00 420

Two 7.875 420 TD

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 420 8.625 23# 00 420

Two 7.875 420 TD

<<< Fold Here >>>

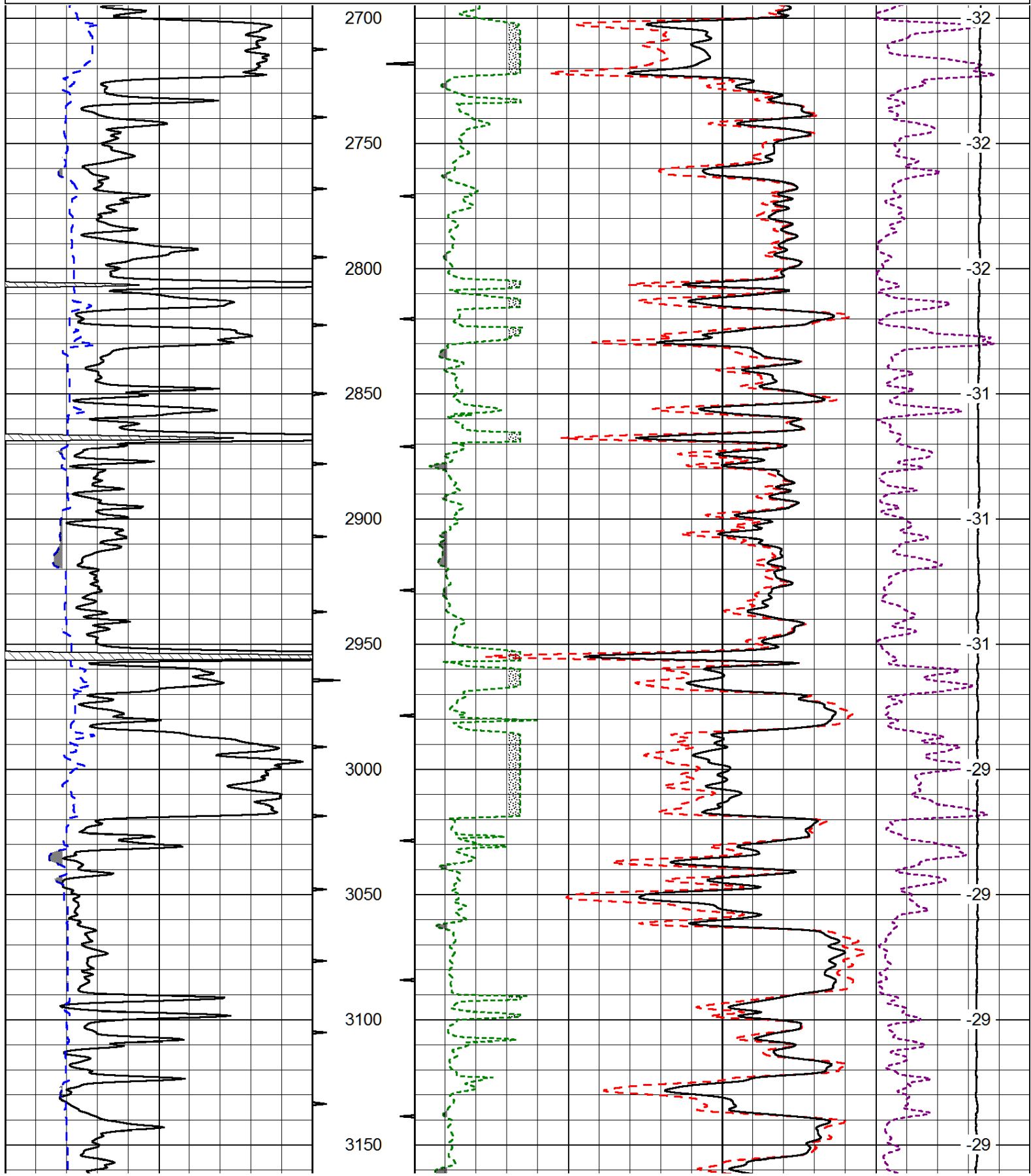
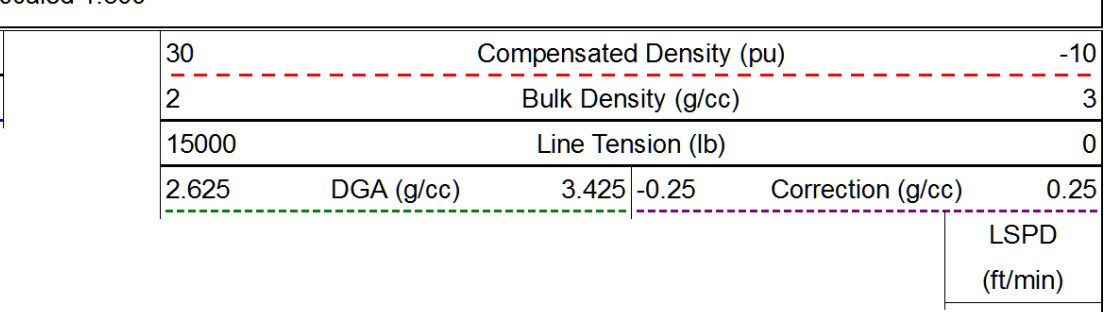
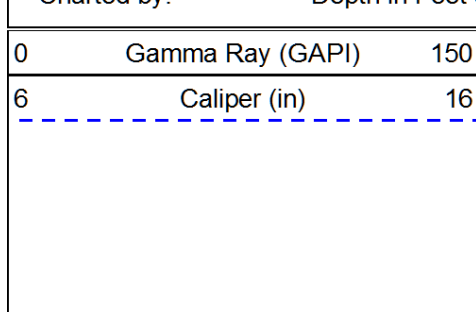
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

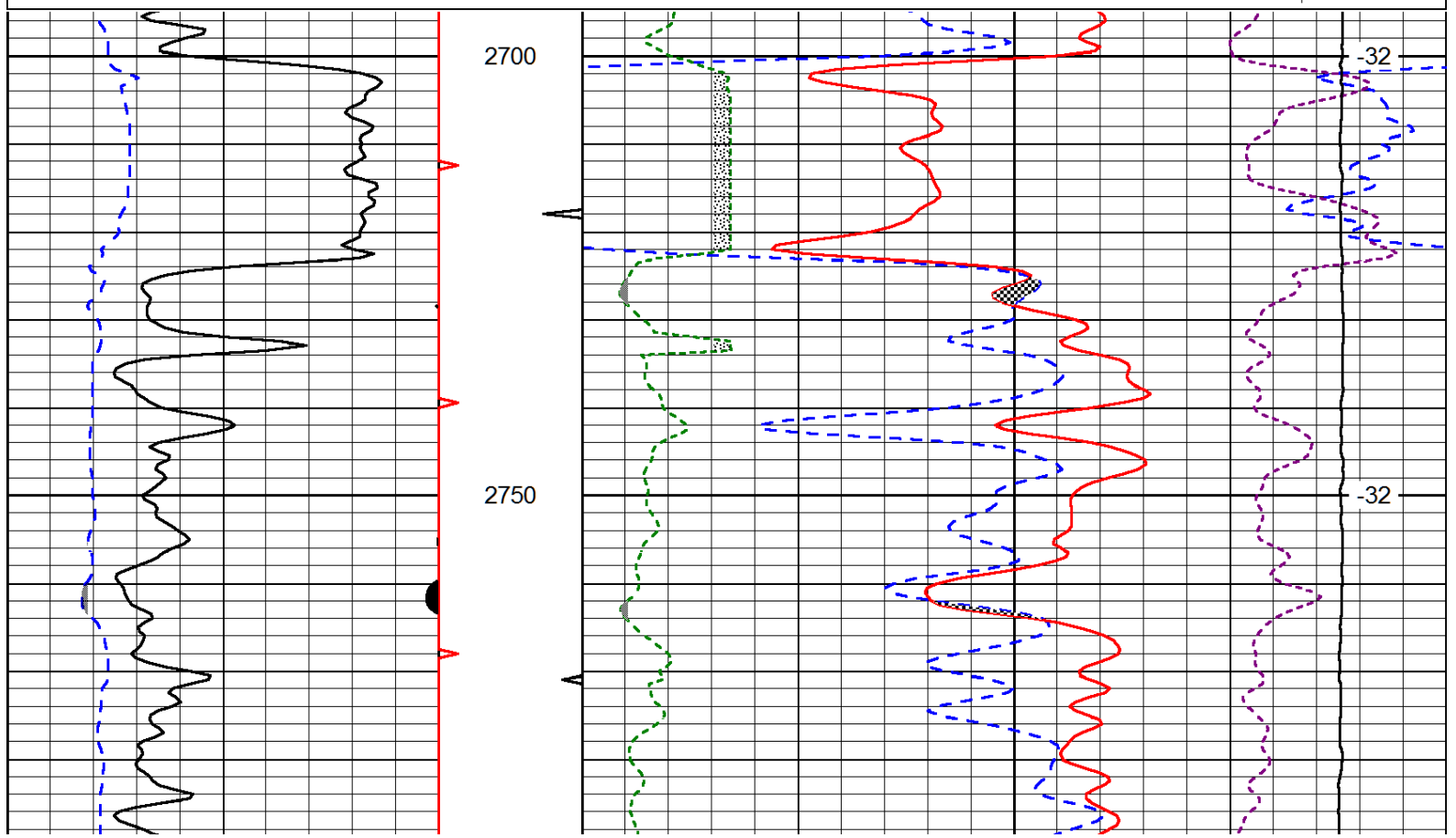
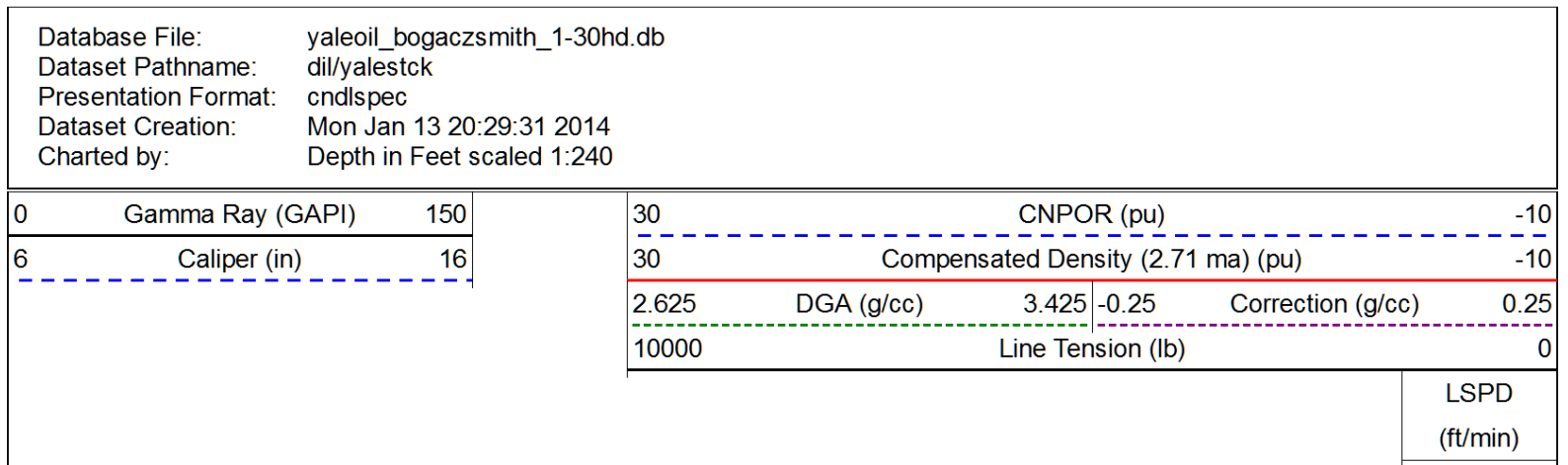
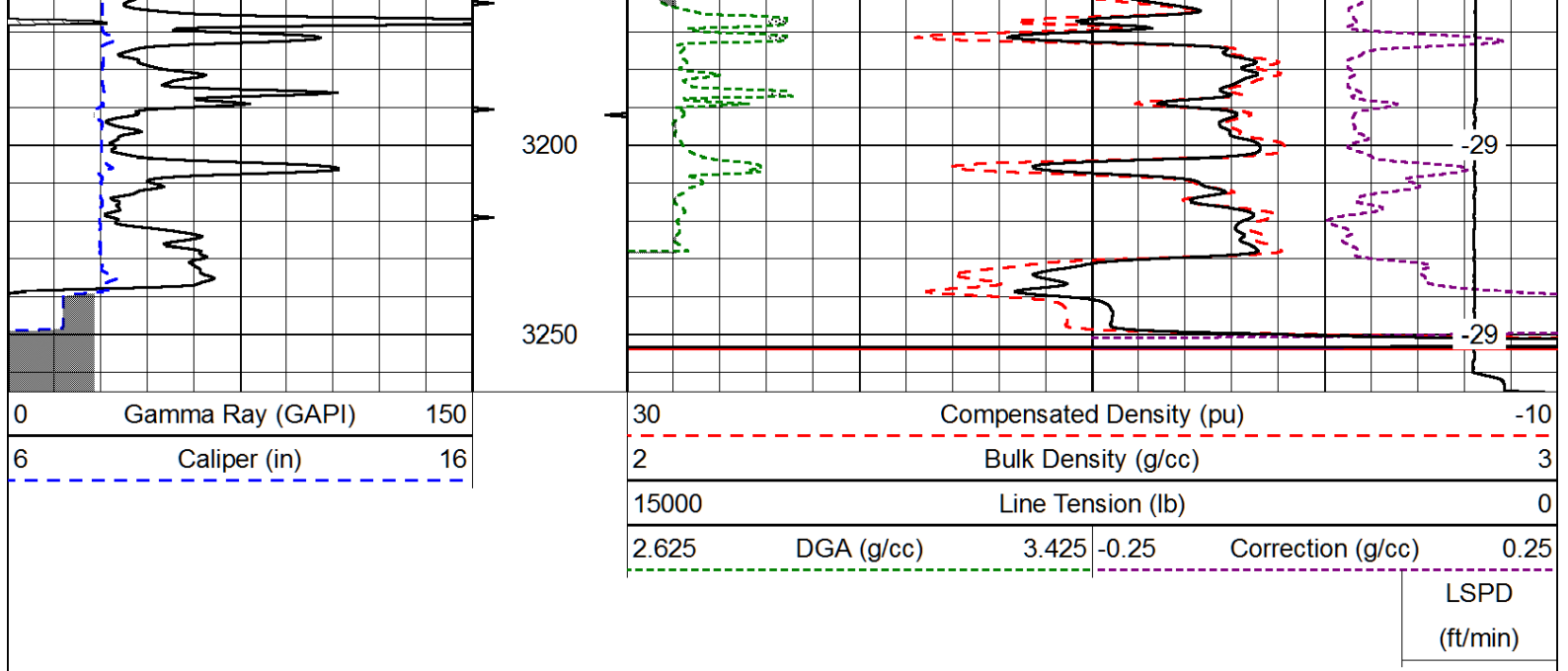
### Comments

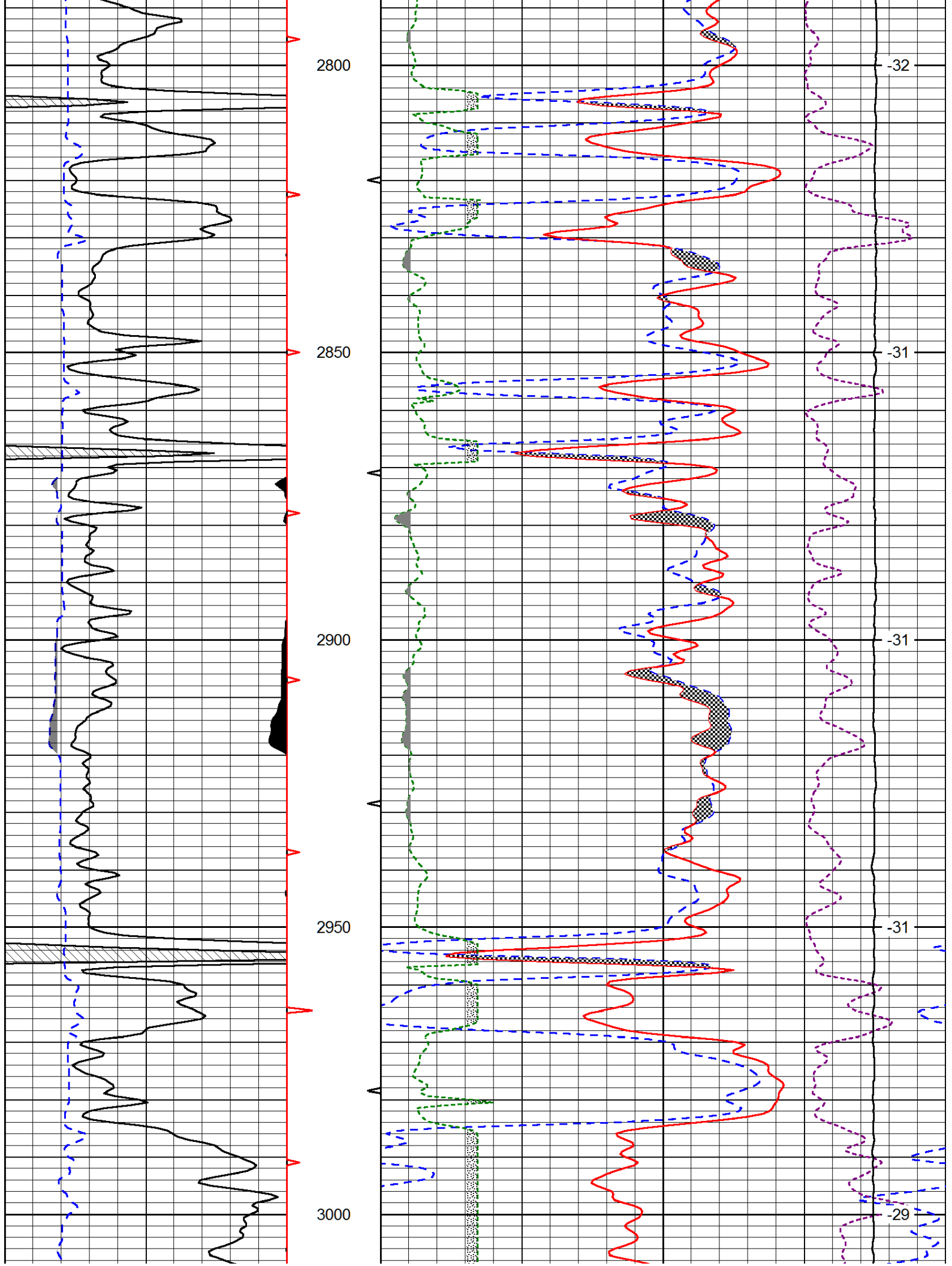
Thank you for using Log-Tech, Inc.  
(785) 625-3858

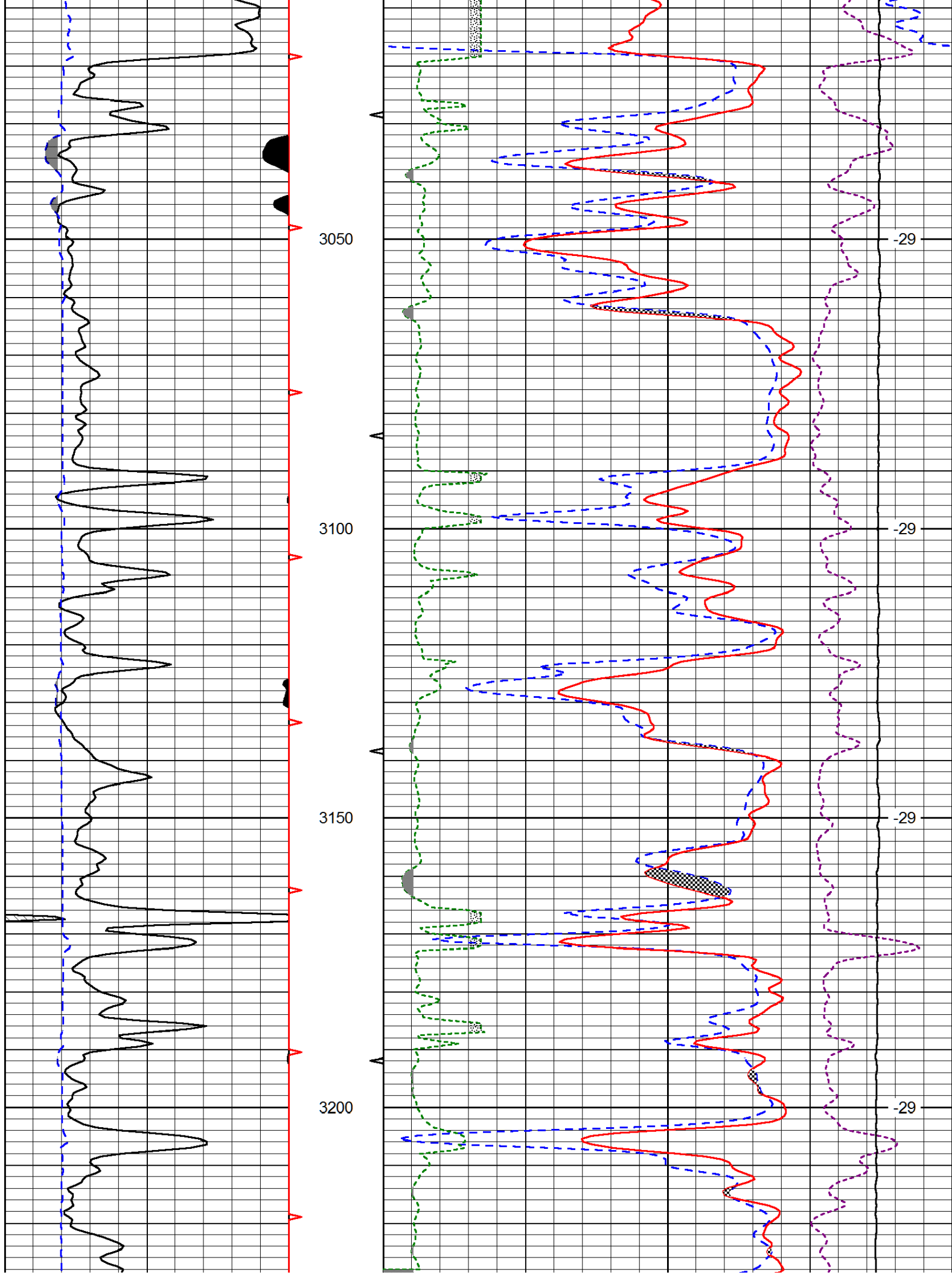
Russell, 10 1/2 South to Michaelis Road, 2 East, 1/3 North, West Into

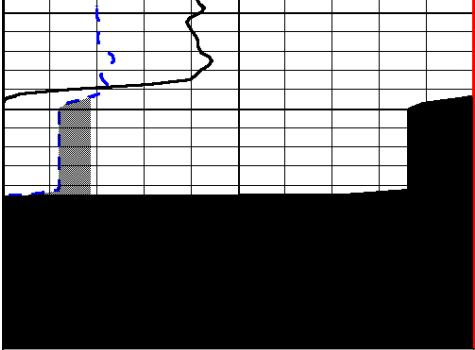
Database File: yaleoil\_bogaczsmith\_1-30hd.db  
Dataset Pathname: dil/yalestck  
Presentation Format: cdl  
Dataset Creation: Mon Jan 13 20:29:31 2014  
Charted by: Depth in Feet scaled 1:600





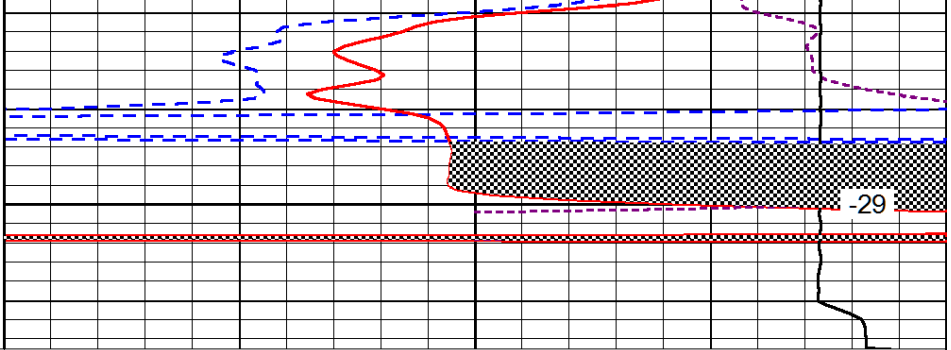






3250

|   |                  |     |
|---|------------------|-----|
| 0 | Gamma Ray (GAPI) | 150 |
| 6 | Caliper (in)     | 16  |



|       |                                    |       |       |                   |      |
|-------|------------------------------------|-------|-------|-------------------|------|
| 30    | CNPOR (pu)                         |       |       |                   | -10  |
| 30    | Compensated Density (2.71 ma) (pu) |       |       |                   | -10  |
| 2.625 | DGA (g/cc)                         | 3.425 | -0.25 | Correction (g/cc) | 0.25 |
| 10000 | Line Tension (lb)                  |       |       |                   | 0    |

LSPD

(ft/min)