



## Dual Compensated Porosity Log

DIGITAL LOG (785) 625-3858

API No.

15-167-23,764-00-00

Company JAG Operations, Inc.

Well Haines No. 1

Field Gorham

County Russell

State Kansas

Location

1585' FNL & 1445' FEL

Other Services  
DIL  
MEL/BHCS

Sec: 25 Twp: 13 S Rge: 15 W

Permanent Datum Ground Level Elevation 1871

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

K.B. 1881  
D.F.  
G.L. 1871

Date 2/13/2012

Run Number One

Type Log CNL / CDL

Depth Driller 3390

Depth Logger 3390

Bottom Logged Interval 3369

Top Logged Interval 2400

Type Fluid In Hole Chemical

Salinity, PPM CL 5,000

Density 9.2

Level Full

Max. Rec. Temp. F 112

Operating Rig Time 4 1/2 Hours

Equipment -- Location 91 Hays

Recorded By K. Bange

Witnessed By Mike Bair

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One 12.25

00

220

8.625

23#

00

220

Two 7.875

220

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

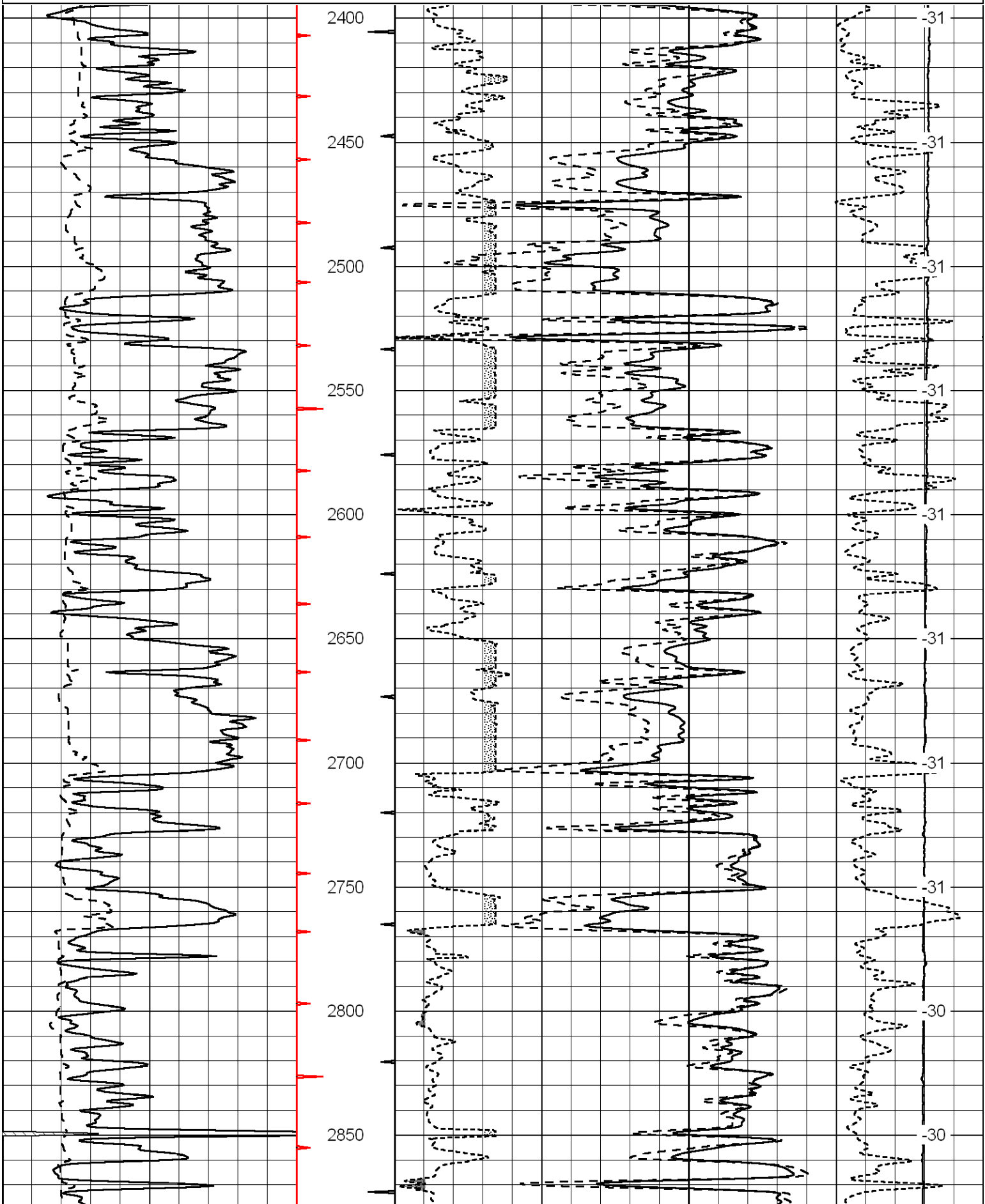
Thank you for using Log-Tech, Inc.  
(785) 625-3858

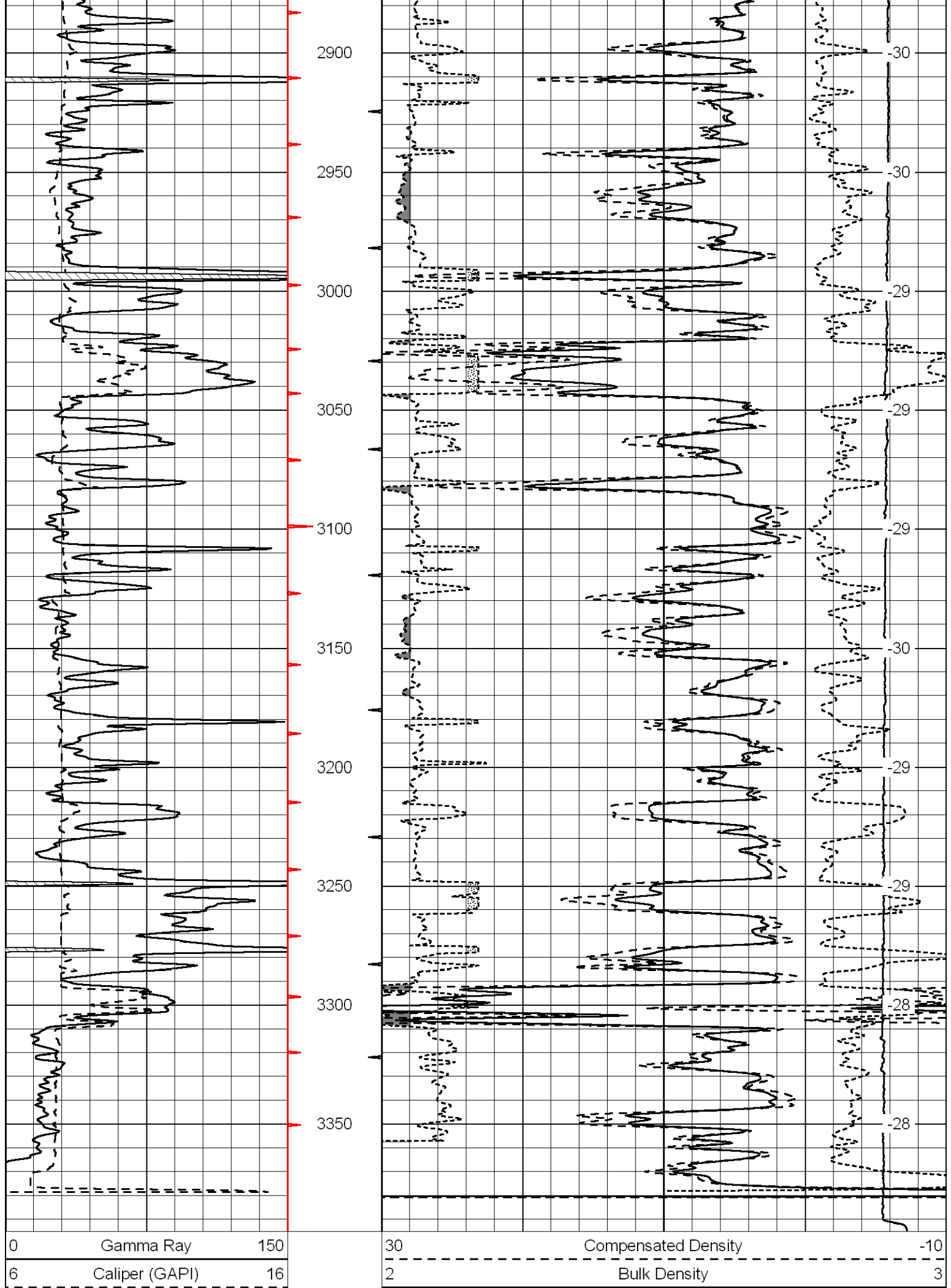
I-70 and Balta rd exit,  
3 N to 15th st, 1/2 W,  
S into

Database File: jag021312hd.db  
Dataset Pathname: dil/jagstack  
Presentation Format: cdl  
Dataset Creation: Mon Feb 13 21:09:50 2012  
Charted by: Depth in Feet scaled 1:600

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

|       |     |                     |       |            |      |
|-------|-----|---------------------|-------|------------|------|
| 30    |     | Compensated Density |       | -10        |      |
| 2     |     | Bulk Density        |       | 3          |      |
| 15000 |     | Line Tension        |       | 0          |      |
| 2.625 | DGA | 3.425               | -0.25 | Correction | 0.25 |
|       |     |                     |       |            | LSPD |





|       |              |       |       |            |      |
|-------|--------------|-------|-------|------------|------|
| 15000 | Line Tension |       |       |            | 0    |
| 2.625 | DGA          | 3.425 | -0.25 | Correction | 0.25 |
|       |              |       |       |            | LSPD |

|                      |                            |
|----------------------|----------------------------|
| Database File:       | jag021312hd.db             |
| Dataset Pathname:    | dil/jagstack               |
| Presentation Format: | cnlspec                    |
| Dataset Creation:    | Mon Feb 13 21:09:50 2012   |
| Charted by:          | Depth in Feet scaled 1:240 |

|   |                |     |       |                               |            |       |
|---|----------------|-----|-------|-------------------------------|------------|-------|
| 0 | Gamma Ray      | 150 | 30    | CNLS                          |            | -10   |
| 6 | Caliper (GAPI) | 16  | 30    | Compensated Density (2.71 ma) |            | -10   |
|   |                |     | 2.625 | DGA                           | 3.425      | -0.25 |
|   |                |     |       |                               | Correction | 0.25  |
|   |                |     | 10000 | Line Tension                  |            | 0     |

