



## Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-185-23,780-00-00

Company **H & B Petroleum Corporation**

Well **Hufford No. 7**

Field

County **Stafford**

State **Kansas**

Location

**W/2 W/2 SE NW  
1980' FNL & 1400' FWL**

Other Services  
**DIL/MEL**

Sec: **33**

Twp: **21 S**

Rge: **13 W**

Permanent Datum

Ground Level  
Kelly Bushing

Elevation **1896**  
7 Ft. Above Perm. Datum

Elevation

Log Measured From

Kelly Bushing

K.B. **1903**  
D.F. **1896**  
G.L. **1896**

Drilling Measured From

Kelly Bushing

Date

**12/22/2012**

Run Number

**One**

Type Log

**CNL / CDL**

Depth Driller

**3850**

Depth Logger

**3853**

Bottom Logged Interval

**3832**

Top Logged Interval

**3100**

Type Fluid In Hole

**Chemical**

Salinity, PPM CL

**12.000**

Density

**9.5**

Level

**Full**

Max. Rec. Temp. F

**115**

Operating Rig Time

**4 Hours**

Equipment -- Location

**108 Hays**

Recorded By

**D. Martin**

Witnessed By

**Jim Musgrove**

Borehole Record

Casing Record

Run No.

**One**

Bit

**12.25**

From

**00**

To

**615**

Size

**8.625**

Wgt.

**23#**

From

**00**

To

**615**

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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

Hwy 281 & K-19 Junction,  
2 N, 1 W, 1/2 S, E Into

Database File: h&bhd.db  
Dataset Pathname: DIL/hbstk  
Presentation Format: cdl  
Dataset Creation: Sat Dec 22 20:31:26 2012  
Charted by: Depth in Feet scaled 1:600

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

|       |                          |       |       |
|-------|--------------------------|-------|-------|
| 30    | Compensated Density (pu) |       | -10   |
| 2     | Bulk Density (g/cc)      |       | 3     |
| 15000 | Line Tension (lb)        |       | 0     |
| 2.625 | DGA (g/cc)               | 3.425 | -0.25 |
|       | Correction (g/cc)        |       | 0.25  |
|       | LSPD (ft/min)            |       |       |











