



Pioneer Energy Services

## Borehole Compensated Sonic Log

API No.

15-171-21,069-00-00

Company **Landmark Resources, Inc.**

Well **Janzen Unit #1-1**

Field **Wildcat**

County

**Scott**

State **Kansas**

Location

**1627' FSL & 320' FEL**

Other Services  
CNL/CDL  
MEL/DIL

Sec: 1

Twp: 17S

Rge: 34W

Elevation

Permanent Datum  
Log Measured From  
Drilling Measured From

Ground Level  
Kelly Bushing  
Kelly Bushing

Elevation 3091  
11 Ft. Above Perm. Datum

K.B. 3102  
D.F.  
G.L. 3091

Date

5/30/2014

Run Number

Two

Type Log

BHC Sonic

Depth Driller

4820

Depth Logger

4823

Bottom Logged Interval

4812

Top Logged Interval

3500

Type Fluid In Hole

Chemical

Salinity, PPM CL

4500

Density

9.3

Level

Full

Max. Rec. Temp. F

124

Operating Rig Time

5 Hours

Equipment -- Location

15 Hays

Recorded By

D Kerr

Witnessed By

Terry McLeod

### Borehole Record

### Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

267

8.625

24#

00

267

2

7.875

267

4820

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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 Pioneer Energy Services  
[www.pioneerenergy.com](http://www.pioneerenergy.com)  
785 625 3858

Oakley KS, South to HWY 4 and HWY 83,  
6 West, 1/2 North, West Into

Database File: c:\warrior\data\landmark\_janzen unit #1-1\landmark\_janzenunit\_1\_1hd.db  
Dataset Pathname: DIL\landstk  
Presentation Format: sonic  
Dataset Creation: Fri May 30 04:51:10 2014  
Charted by: Depth in Feet scaled 1:240

|             |                |                            |           |     |                      |       |           |     |
|-------------|----------------|----------------------------|-----------|-----|----------------------|-------|-----------|-----|
| Charted by: |                | Depth in Feet scaled 1:210 |           |     |                      |       |           |     |
| 0           | Gamma Ray      | 150                        | Sonic Int | 140 | Delta Time (usec/ft) | 40    |           |     |
| 150         | Gamma Ray      | 300                        |           | 5   | 0                    | 30    | SPOR      | -10 |
| 6           | Caliper (GAPI) | 16                         |           |     |                      | 15000 | LTEN (lb) | 0   |
|             |                |                            |           |     |                      |       | LSPD      |     |













