



## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256  
Claffin ks, 67525-0256

ATTN: Jim Musgrove

**Kevin Wirth #1**

**25/16s/14w/Barton**

Start Date: 2014.01.21 @ 21:50:00

End Date: 2014.01.22 @ 04:58:30

Job Ticket #: 18232                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.01.22 @ 05:19:56

RJM Company  
25/16s/14w/Barton  
Kevin Wirth #1  
DST # 2  
LKC "H-K"  
2014.01.21



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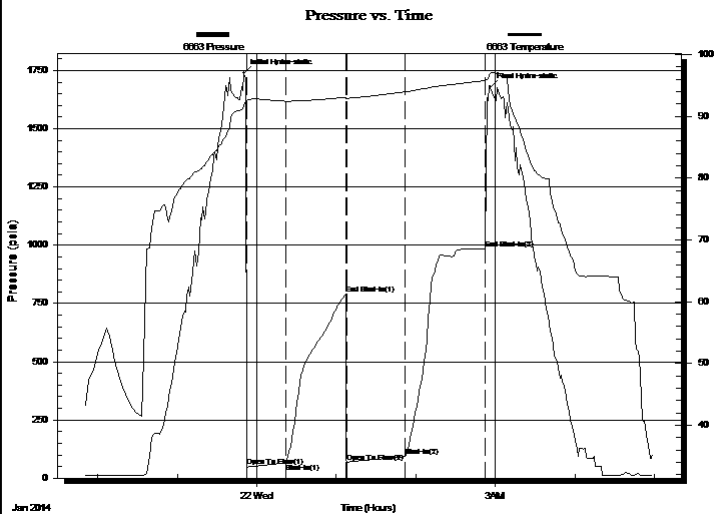
**25/16s/14w/Barton**  
**Kevin Wirth #1**  
 Job Ticket: 18232      **DST#: 2**  
 Test Start: 2014.01.21 @ 21:50:00

## GENERAL INFORMATION:

Formation: **LKC "H-K"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 23:52:30 Tester: Shane Konzem  
 Time Test Ended: 04:58:30 Unit No: 3325/50/Great Bend  
 Interval: **3340.00 ft (KB) To 3379.00 ft (KB) (TVD)** Reference Elevations: 1977.00 ft (KB)  
 Total Depth: 3379.00 ft (KB) (TVD) 1968.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

**Serial #: 6663 Inside**  
 Press @ Run Depth: 91.82 psia @ 3375.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.21 End Date: 2014.01.22 Last Calib.: 2014.01.22  
 Start Time: 21:50:00 End Time: 04:58:30 Time On Btm: 2014.01.21 @ 23:50:30  
 Time Off Btm: 2014.01.22 @ 02:56:00

**TEST COMMENT:** 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 3 minutes and 15 seconds.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 4 minutes.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1738.38         | 91.81        | Initial Hydro-static |
| 2           | 52.29           | 92.59        | Open To Flow (1)     |
| 32          | 65.40           | 92.47        | Shut-In(1)           |
| 77          | 788.63          | 93.10        | End Shut-In(1)       |
| 78          | 66.67           | 92.94        | Open To Flow (2)     |
| 122         | 91.82           | 93.97        | Shut-In(2)           |
| 183         | 983.77          | 95.79        | End Shut-In(2)       |
| 186         | 1677.69         | 96.95        | Final Hydro-static   |

## Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 146.00      | 100% Clean gassy oil      | 2.05         |
| 0.00        | Oil gravity 42 corrected. | 0.00         |
|             |                           |              |
|             |                           |              |
|             |                           |              |

## Gas Rates

| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |





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**TOOL DIAGRAM**

RJM Company

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Job Ticket: 18232

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 21:50:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3336.00 ft | Diameter: 3.80 inches | Volume: 46.80 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <u>Total Volume: 46.80 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 16.00 ft           |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3340.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 39.00 ft           |                       |                                |                                    |
| Tool Length:              | 59.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |
| Tool Comments:            |                    |                       |                                |                                    |

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                |       |      |         |         |                               |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool   | 5.00  |      |         | 3325.00 |                               |
| Hydraulic Tool | 5.00  |      |         | 3330.00 |                               |
| Packer         | 5.00  |      |         | 3335.00 | 20.00 Bottom Of Top Packer    |
| Packer         | 5.00  |      |         | 3340.00 |                               |
| Anchor         | 34.00 |      |         | 3374.00 |                               |
| Recorder       | 1.00  | 6663 | Inside  | 3375.00 |                               |
| Recorder       | 1.00  | 6838 | Outside | 3376.00 |                               |
| Bullnose       | 3.00  |      |         | 3379.00 | 39.00 Bottom Packers & Anchor |

**Total Tool Length: 59.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 21:50:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 78.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description               | Volume<br>bbbl |
|--------------|---------------------------|----------------|
| 146.00       | 100% Clean gassy oil      | 2.048          |
| 0.00         | Oil gravity 42 corrected. | 0.000          |

Total Length: 146.00 ft      Total Volume: 2.048 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

