



## DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

PO BOX 256  
CLAFIN KS 67525

ATTN: JIM

**DOLL #2**

**27-18S-11W**

Start Date:

End Date: 1899.12.30 @ 05:36:30

Job Ticket #: 17778                      DST #: 1

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

Printed: 2012.07.11 @ 10:06:12

RJM COMPANY  
27-18S-11W  
DOLL #2  
DST # 1  
LANS KS



# DRILL STEM TEST REPORT

RJM COMPANY

27-18S-11W

PO BOX 256  
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

## GENERAL INFORMATION:

Formation: **LANS KS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:04:30

Time Test Ended: 05:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3335 46 MRT

Interval: ft (KB) To ft (KB) (TVD)

Reference Elevations: 1796.00 ft (KB)

Total Depth: 3154.00 ft (KB) (TVD)

1791.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8524

Inside

Press @ Run Depth: 866.61 psia @ 3150.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.11

End Date:

2012.07.11

Last Calib.:

2012.07.11

Start Time: 08:13:13

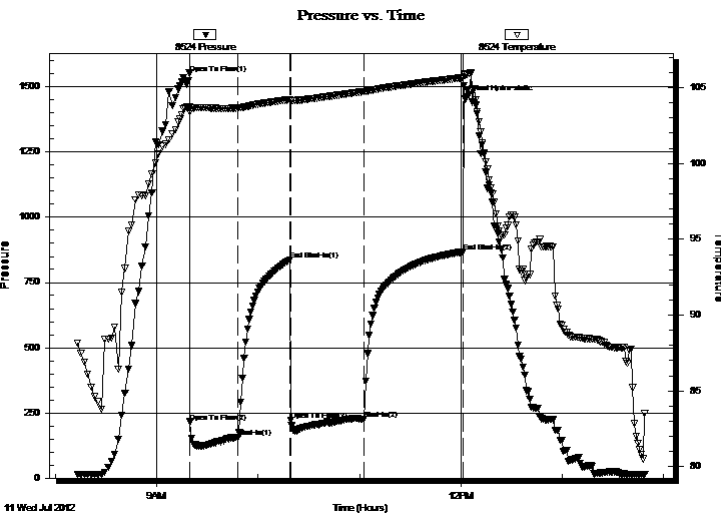
End Time:

13:48:43

Time On Btm:

Time Off Btm: 2012.07.11 @ 12:02:43

TEST COMMENT: 30-INITIAL OPENING STRONG BLOW BOTTOM BUCKET IN 20 SEC GAS TO SURFACE IN 5 MINS  
30-INITIAL SHUT IN WEAK BLOW BACK  
45-FINAL OPENING STRONG BLOW BOTTOM BUCKET IN 10 SEC  
60-FINAL SHUT IN WEAK BLOW BACK



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation         |
|-------------|-----------------|--------------|--------------------|
| 0           | 1552.17         | 103.73       | Open To Flow (1)   |
| 1           | 215.86          | 103.41       | Open To Flow (2)   |
| 29          | 157.73          | 103.67       | Shut-In(1)         |
| 60          | 836.23          | 104.22       | End Shut-In(1)     |
| 60          | 221.01          | 104.12       | Open To Flow (3)   |
| 104         | 226.23          | 104.75       | Shut-In(2)         |
| 162         | 866.61          | 105.66       | End Shut-In(2)     |
| 164         | 1452.66         | 105.84       | Final Hydro-static |

## Recovery

| Length (ft) | Description                                | Volume (bbl) |
|-------------|--|--------------|
| 90.00       | HEAVY MUD SLIGHT SHOW OF OIL 95% 1.32% OIL |              |
| 420.00      | GASSY OIL 30% GAS 70% OIL                  | 6.14         |
|             |  |              |
|             |  |              |
|             |  |              |

## Gas Rates

|                | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50           | 3.00            | 20.24            |
| Last Gas Rate  | 0.25           | 10.00           | 15.86            |
| Max. Gas Rate  | 0.25           | 11.00           | 17.45            |





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM COMPANY

**27-18S-11W**

PO BOX 256  
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**DOLL #2**

Job Ticket: 17778

**DST#: 1**

ATTN: JIM

Test Start:

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3036.00 ft | Diameter: 3.88 inches | Volume: 44.40 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: 45000.00 lb  |
|                           |                    |                       | <u>Total Volume: 44.40 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 1.00 ft            |                       |                                | String Weight: Initial 37000.00 lb |
| Depth to Top Packer:      | 3055.00 ft         |                       |                                | Final 38000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 99.00 ft           |                       |                                |                                    |
| Tool Length:              | 119.00 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        |            |          | 3040.00    |                               |
| Hydraulic Tool   | 5.00        |            |          | 3045.00    |                               |
| Packer           | 5.00        |            |          | 3050.00    | 20.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3055.00    |                               |
| Perforations     | 4.00        |            |          | 3059.00    |                               |
| Change Over Sub  | 0.75        |            |          | 3059.75    |                               |
| Drill Pipe       | 62.50       |            |          | 3122.25    |                               |
| Change Over Sub  | 0.75        |            |          | 3123.00    |                               |
| Perforations     | 26.00       |            |          | 3149.00    |                               |
| Recorder         | 1.00        | 8524       | Inside   | 3150.00    |                               |
| Recorder         | 1.00        | 91716      | Outside  | 3151.00    |                               |
| Bull Plug        | 3.00        |            |          | 3154.00    | 99.00 Bottom Packers & Anchor |

**Total Tool Length: 119.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM COMPANY

27-18S-11W

PO BOX 256  
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

### 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: 55.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                          | Volume<br>bbl |
|--------------|--------------------------------------|---------------|
| 90.00        | HEAVY MUD SLIGHT SHOW OF OIL 95%M 5% | 1.316         |
| 420.00       | GASSY OIL 30%GAS 70%OIL              | 6.142         |

Total Length: 510.00 ft      Total Volume: 7.458 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

Inside

RJM COMPANY

DOLL #2

DST Test Number: 1

