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JUN 22 2005  
KCC WICHITA



## DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc.of KS**

P.O. Box 8647  
Wichita Ks. 67208

ATTN: Jon Christensen

**16-27s-16w Kiowa KS**

**Manford Clark #1**

Start Date: 2004.11.25 @ 13:06:42

End Date: 2004.11.25 @ 21:16:42

Job Ticket #: 19905      DST #: 1

15-097-21557  
SW SE SW  
330 FSL 3630 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Oil Producers Inc.of KS

Manford Clark #1

16-27s-16w Kiowa KS

DST # 1

Lans.B

2004.11.25



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Oil Producers Inc. of KS

P.O. Box 8647  
Wichita Ks. 67208

ATTN: Jon Christensen

**Manford Clark #1**

**16-27s-16w Kiowa KS**

Job Ticket: 19905      **DST#: 1**

Test Start: 2004.11.25 @ 13:06:42

### GENERAL INFORMATION:

Formation: **Lans.B**

Deviated: **No** Whipstock:      ft (KB)

Time Tool Opened: 14:38:57

Time Test Ended: 21:16:42

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4081.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Total Depth: **4110.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2105.00 ft (KB)**

**2100.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6755**

**Inside**

Press@RunDepth: **551.40 psig @ 4082.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.11.25**

End Date:

**2004.11.25**

Last Calib.: **2004.11.25**

Start Time: **13:06:47**

End Time:

**21:16:41**

Time On Btm: **2004.11.25 @ 14:38:42**

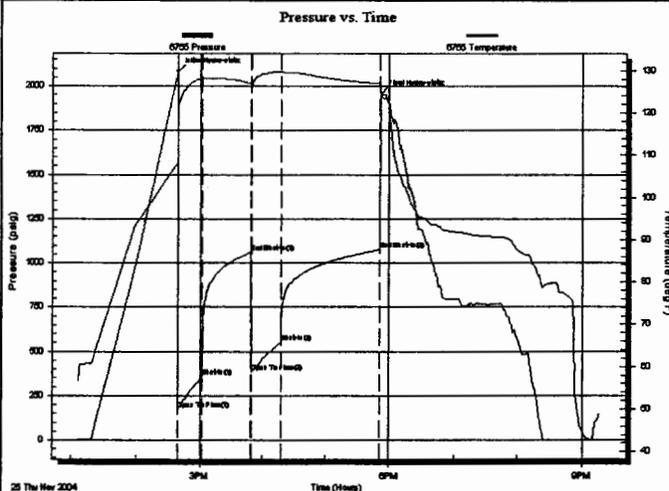
Time Off Btm: **2004.11.25 @ 17:52:57**

**TEST COMMENT:** F:Strong blow . GTS in 9 mins. (see gas volume report)

IS:Strong blow . B.O.B.

FF:Strong blow . (see gas volume report)

FS:Strong blow . B.O.B.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2082.73         | 108.34       | Initial Hydro-static |
| 1           | 175.54          | 121.59       | Open To Flow (1)     |
| 23          | 358.62          | 127.81       | Shut-in(1)           |
| 71          | 1059.97         | 126.98       | End Shut-in(1)       |
| 71          | 385.80          | 125.70       | Open To Flow (2)     |
| 100         | 551.40          | 129.71       | Shut-in(2)           |
| 193         | 1075.06         | 126.97       | End Shut-in(2)       |
| 195         | 1960.10         | 123.93       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                     | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 185.00      | MW 10% m 90% w Rw .11 ohms @ 47 | de2.60       |
| 1440.00     | CGO 25% g 75% o                 | 20.20        |
|             |                                 |              |
|             |                                 |              |
|             |                                 |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25           | 4.00            | 29.19            |
| Last Gas Rate  | 0.13           | 4.00            | 6.89             |
| Max. Gas Rate  | 0.25           | 4.00            | 29.19            |



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Oil Producers Inc. of KS

**Manford Clark #1**

P.O. Box 8647  
Wichita Ks. 67208

**16-27s-16w Kiowa KS**

ATTN: Jon Christensen

Job Ticket: 19905      **DST#: 1**

Test Start: 2004.11.25 @ 13:06:42

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4072.00 ft | Diameter: 3.80 inches | Volume: 57.12 bbl              | Tool Weight: 2100.00 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: 68000.00 lb  |
|                           |                    |                       | <u>Total Volume: 57.12 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                                | String Weight: Initial 40000.00 lb |
| Depth to Top Packer:      | 4081.00 ft         |                       |                                | Final 48000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 29.00 ft           |                       |                                |                                    |
| Tool Length:              | 56.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

### Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub  | 1.00        |            |          | 4055.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 4060.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 4065.00    |                                    |
| Jars             | 5.00        |            |          | 4070.00    |                                    |
| Safety Joint     | 2.00        |            |          | 4072.00    |                                    |
| Packer           | 4.00        |            |          | 4076.00    | 27.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4081.00    |                                    |
| Stubb            | 1.00        |            |          | 4082.00    |                                    |
| Recorder         | 0.00        | 6755       | Inside   | 4082.00    |                                    |
| Perforations     | 23.00       |            |          | 4105.00    |                                    |
| Recorder         | 0.00        | 13222      | Outside  | 4105.00    |                                    |
| Bullnose         | 5.00        |            |          | 4110.00    | 29.00      Bottom Packers & Anchor |

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Oil Producers Inc. of KS

**Manford Clark #1**

P.O. Box 8647  
Wichita Ks. 67208

**16-27s-16w Kiowa KS**

Job Ticket: 19905

**DST#: 1**

ATTN: Jon Christensen

Test Start: 2004.11.25 @ 13:06:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

106000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                          | Volume<br>bbl |
|--------------|--------------------------------------|---------------|
| 185.00       | MV 10% m 90% w Rw .11 ohms @ 47 deg. | 2.595         |
| 1440.00      | CGO 25% g 75% o                      | 20.199        |

Total Length: 1625.00 ft

Total Volume: 22.794 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Oil Producers Inc. of KS

**Manford Clark #1**

P.O. Box 8647  
Wichita Ks. 67208

**16-27s-16w Kiowa KS**

Job Ticket: 19905      **DST#: 1**

ATTN: Jon Christensen

Test Start: 2004.11.25 @ 13:06:42

### Gas Rates Information

Temperature:            59 deg C  
Relative Density:      0.65  
Z Factor:                0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m <sup>3</sup> /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1           | 10           | 0.25       | 4.00            | 29.19                        |
| 1           | 10           | 0.25       | 4.00            | 29.19                        |
| 1           | 20           | 0.25       | 2.00            | 26.02                        |
| 1           | 30           | 0.25       | 1.00            | 24.43                        |
| 2           | 10           | 0.13       | 3.00            | 6.51                         |
| 2           | 20           | 0.13       | 4.00            | 6.89                         |

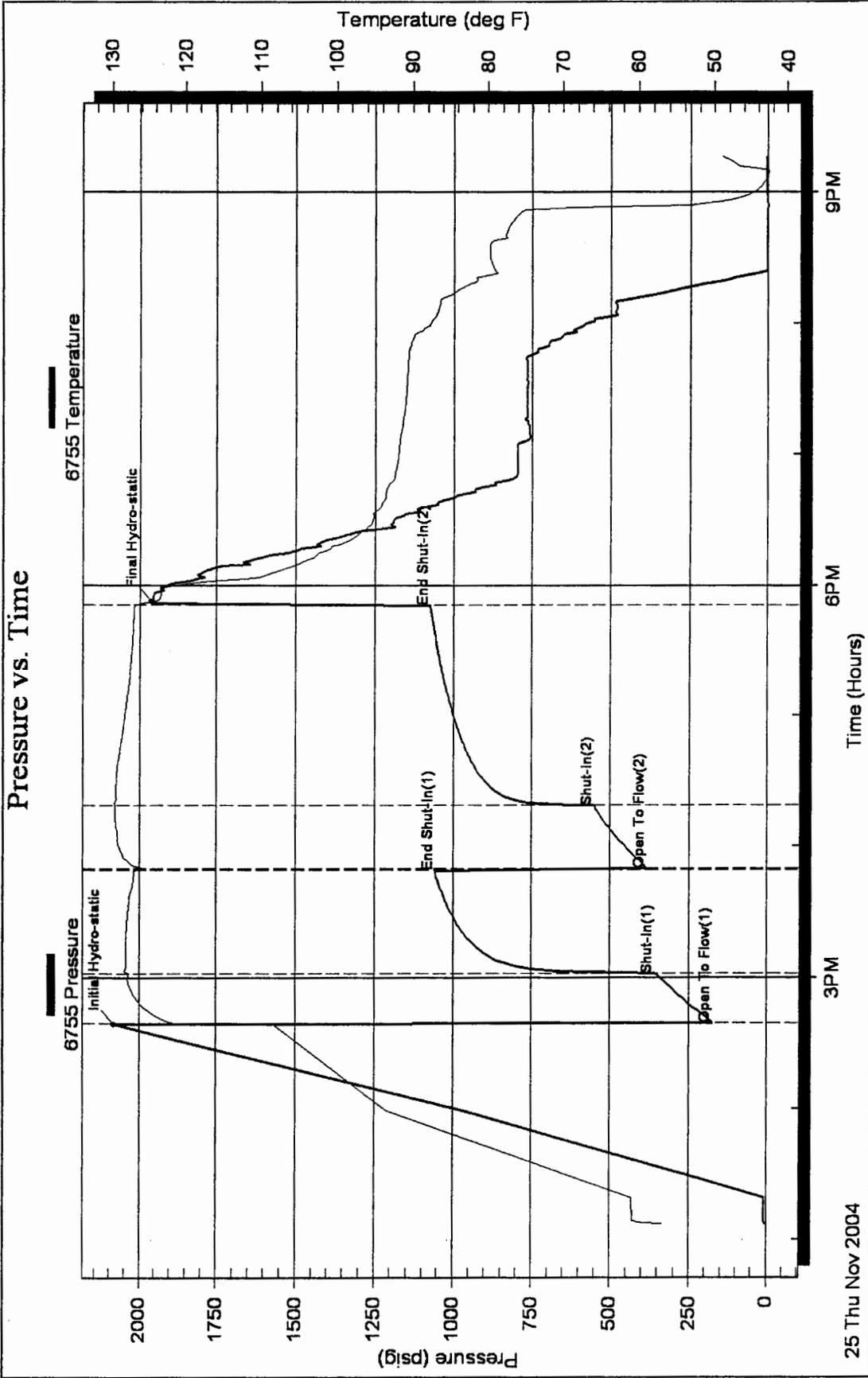
Serial #: 6755

Inside

Oil Producers Inc. of KS

16-27s-16w Kiowa KS

DST Test Number: 1



25 Thu Nov 2004

Triobite Testing, Inc

Ref. No: 19905

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

GAS RATES

Oil Producers Inc. of KS

**Manford Clark #1**

P.O. Box 8647  
Wichita Ks. 67208

**16-27s-16w Kiowa KS**

ATTN: Jon Christensen

Job Ticket: 19905      DST#: 1

Test Start: 2004.11.25 @ 13:06:42

### Gas Rates Information

Temperature:            59 deg C  
Relative Density:        0.65  
Z Factor:                0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m <sup>3</sup> /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1           | 10           | 0.25       | 4.00            | 29.19                        |
| 1           | 10           | 0.25       | 4.00            | 29.19                        |
| 1           | 20           | 0.25       | 2.00            | 26.02                        |
| 1           | 30           | 0.25       | 1.00            | 24.43                        |
| 2           | 10           | 0.13       | 3.00            | 6.51                         |
| 2           | 20           | 0.13       | 4.00            | 6.89                         |

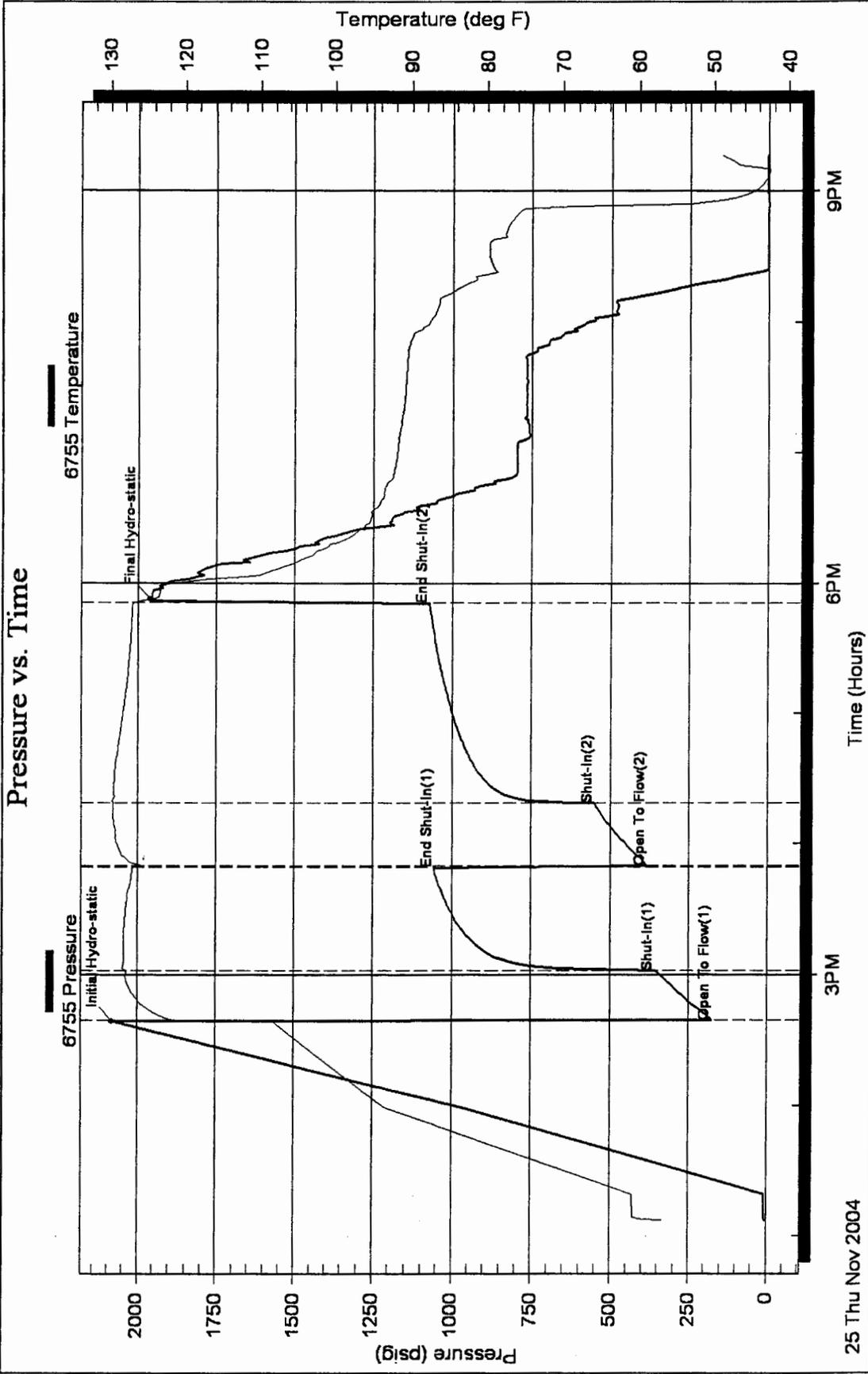
Serial #: 6755

Inside

Oil Producers Inc. of KS

16-27s-16w Klow a KS

DST Test Number: 1





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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Oil Producers Inc. of KS

**Manford Clark #1**

P.O. Box 8647  
Wichita Ks. 67208

**16-27s-16w Kiowa KS**

Job Ticket: 19905      **DST#: 1**

ATTN: Jon Christensen

Test Start: 2004.11.25 @ 13:06:42

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
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| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 68000.00 lb  |
|                           |                    |                       | <u>Total Volume: 57.12 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                                | String Weight: Initial 40000.00 lb |
| Depth to Top Packer:      | 4081.00 ft         |                       |                                | Final 48000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 29.00 ft           |                       |                                |                                    |
| Tool Length:              | 56.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4055.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4060.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4065.00    |                               |
| Jars             | 5.00        |            |          | 4070.00    |                               |
| Safety Joint     | 2.00        |            |          | 4072.00    |                               |
| Packer           | 4.00        |            |          | 4076.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4081.00    |                               |
| Stubb            | 1.00        |            |          | 4082.00    |                               |
| Recorder         | 0.00        | 6755       | Inside   | 4082.00    |                               |
| Perforations     | 23.00       |            |          | 4105.00    |                               |
| Recorder         | 0.00        | 13222      | Outside  | 4105.00    |                               |
| Bullnose         | 5.00        |            |          | 4110.00    | 29.00 Bottom Packers & Anchor |

**Total Tool Length: 56.00**



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**FLUID SUMMARY**

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**Manford Clark #1**

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**16-27s-16w Kiowa KS**

Job Ticket: 19905      DST#: 1

ATTN: Jon Christensen

Test Start: 2004.11.25 @ 13:06:42

**Mud and Cushion Information**

|                                   |                            |                            |
|-----------------------------------|----------------------------|----------------------------|
| Mud Type: Gel Chem                | Cushion Type:              | Oil API: 39 deg API        |
| Mud Weight: 9.00 lb/gal           | Cushion Length: ft         | Water Salinity: 106000 ppm |
| Viscosity: 47.00 sec/qt           | Cushion Volume: bbl        |                            |
| Water Loss: 10.39 in <sup>3</sup> | Gas Cushion Type:          |                            |
| Resistivity: 0.00 ohm.m           | Gas Cushion Pressure: psig |                            |
| Salinity: 6000.00 ppm             |                            |                            |
| Filter Cake: 0.20 inches          |                            |                            |

**Recovery Information**

Recovery Table

| Length<br>ft | Description                                      | Volume<br>bbl |
|--------------|--|---------------|
| 185.00       | MW 10% m 90% w R <sub>w</sub> .11 ohms @ 47 deg. | 2.595         |
| 1440.00      | CGO 25% g 75% o                                  | 20.199        |

Total Length: 1625.00 ft      Total Volume: 22.794 bbl

Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: gp-1

Laboratory Name: Caraway      Laboratory Location: Liberal, KS

Recovery Comments: