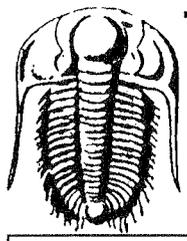


Popp Operating
Panning 1

11-20-11W
15-009-24723 *Amey*



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

| | | | |
|-------------|------------|-----------|-----------|
| Well name#: | Panning #1 | Date: | 11/4/2001 |
| Location#: | 11 20s 11w | Ticket #: | 15638 |
| | | DST#: | 1 |

General Informaion:

| | | | |
|----------------|-----------|------------|--------------|
| Formation: | Arbuckle | Test Type: | Straddle |
| Interval: | 3275-3286 | Tester: | John Schmidt |
| Total Depth: | 3351 | Elevation: | 1765 ft(KB) |
| Hole Diameter: | 7 7/8" | | 1757 ft(CF) |

| | | | |
|-------------------|-----------|------------------------|-------|
| Start Date: | 11/4/2001 | Tool Weight: | 3000 |
| Start Time: | 0:45 | Weight Set on Packers: | 20000 |
| Time tool opened: | 2:40 | Weight to Pull Loose: | 45000 |
| Time Off Btm: | 3:55 | Initial String Weight: | 42000 |
| End Date: | 11/4/2001 | Final String Weight: | 42000 |
| End Time: | 6:00 | Drill Pipe Length: | 3238 |
| | | Drill Collar Length: | 30 |

Test Comment:
I.F. weak built to 2" in 4 min. decrease to 1" in 11 min.
F.F. dead

CONFIDENTIAL

Recovery 10ft
Length(ft): Description:
10 mud

RECEIVED
FEB 19 2002
KCC WICHITA

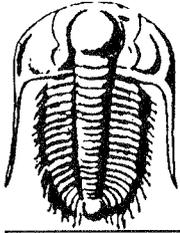
KCC SA
FEB 15 2002
CONFIDENTIAL

| | | | |
|-----------------------|-------|------------|----|
| Recorder #: | 11084 | | |
| Pressure Summary: | | Time:(min) | |
| Initial Hydro-static: | 1581 | | |
| Open to Flow (1): | 23 | | 15 |
| Shut-in (1): | 23 | | |
| End Shut-in (1): | 23 | | 30 |
| Open to Flow (2): | 23 | | 15 |
| Shut-in (2): | 23 | | |
| End Shut-in (2): | 23 | | 15 |
| Final Hydro-static: | 1621 | | |

BHT: 101
OIL API:
H2O Salinity:

Mud Type: Chemical
Mud Weight: 9.4
Viscosity: 41
Water Loss: 9.2
Resistivity;
Salinity:

Release
MAR 19 2003
From
Confidential



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

| | | | |
|-------------|------------|-----------|-----------|
| Well name#: | Panning #1 | Date: | 11/4/2001 |
| Location#: | 11 20s 11w | Ticket #: | 15639 |
| | | DST# | 2 |

General Informaion:

| | | | |
|----------------|-----------|------------|--------------|
| Formation: | Arbuckle | Test Type: | Straddle |
| Interval: | 3275-3290 | Tester: | John Schmidt |
| Total Depth: | 3351 | Elevation: | 1765 ft(KB) |
| Hole Diameter: | 7 7/8" | | 1757 ft(CF) |

| | | | |
|-------------------|-----------|------------------------|-------|
| Start Date: | 11/4/2001 | Tool Weight: | 3000 |
| Start Time: | 6:30 | Weight Set on Packers: | 20000 |
| Time tool opened: | 7:50 | Weight to Pull Loose: | 45000 |
| Time Off Btm: | 9:05 | Initial String Weight: | 42000 |
| End Date: | 11/4/2001 | Final String Weight: | 42000 |
| End Time: | 11:00 | Drill Pipe Length: | 3238 |
| | | Drill Collar Length: | 30 |

| | |
|--|---------------------|
| Test Comment: | KCC |
| I.F. weak built to 3" in 5 min. decrease to 1" in 10min. | FEB 15 2002 |
| F.F. dead | CONFIDENTIAL |
| Recovery Length(ft): 5ft | RECEIVED |
| Description: 5 mud | FEB 19 2002 |
| | KCC WICHITA |

| | |
|-----------------------|------------|
| Recorder #: | 11084 |
| Pressure Summary: | Time:(min) |
| Initial Hydro-static: | 1590 |
| Open to Flow (1): | 24 15 |
| Shut-in (1): | 24 |
| End Shut-in (1): | 24 30 |
| Open to Flow (2): | 24 15 |
| Shut-in (2): | 24 |
| End Shut-in (2): | 24 15 |
| Final Hydro-static: | 1688 |

| | |
|---------------|----------|
| BHT: | 101 |
| OIL API: | |
| H2O Salinity: | |
| Mud Type: | Chemical |
| Mud Weight: | 9.4 |
| Viscosity: | 41 |
| Water Loss: | 9.2 |
| Resistivity: | |
| Salinity: | |

Release
MAR 19 2003
From
Confidential