

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

## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market Ste 300  
Wichita KS 67202

ATTN: Flip Phillips

**21-15-21 Trego KS**

**Zeller "FJ" #1-21**

Start Date: 2006.07.20 @ 14:30:36

End Date: 2006.07.20 @ 21:57:00

Job Ticket #: 24685 DST #: 1

2110 FNL 870 FWL

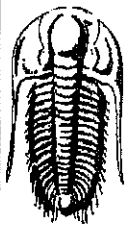
SW NW

KCC  
SEP 14 2006  
CONFIDENTIAL

Trilobite Testing, Inc

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Job Ticket: 24685

**DST#: 1**

Test Start: 2006.07.20 @ 14:30:36

### GENERAL INFORMATION:

Formation: **Cherokee sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:01

Time Test Ended: 21:57:00

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 1

Interval: **4112.00 ft (KB) To 4152.00 ft (KB) (TVD)**

Total Depth: **4152.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2319.00 ft (KB)**

**2313.00 ft (CF)**

KB to GR/CF: **6.00 ft**

**Serial #: 6667**

**Inside**

Press@RunDepth: **132.92 psig @ 4113.00 ft (KB)**

Start Date: **2006.07.20**

End Date:

**2006.07.20**

Capacity: **7000.00 psig**

Last Calib.: **2006.07.20**

Start Time: **14:30:36**

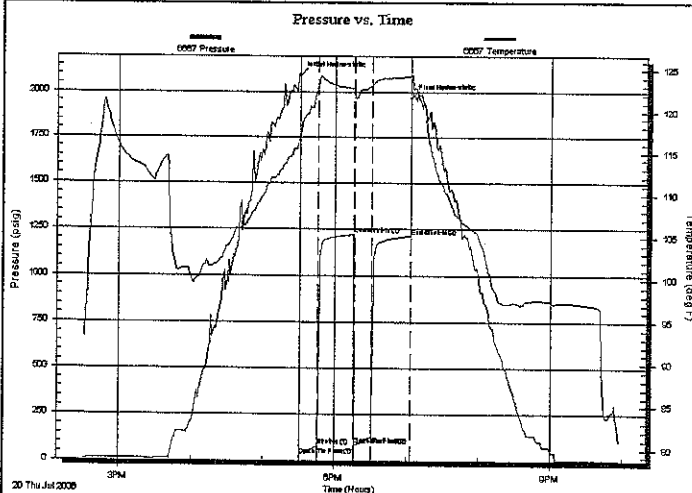
End Time:

**21:57:00**

Time On Btm: **2006.07.20 @ 17:30:46**

Time Off Btm: **2006.07.20 @ 19:03:15**

TEST COMMENT: BOB in 7 min  
1/4 " in return blow  
BOB in 6 min.  
3 " in return blow



### PRESSURE SUMMARY

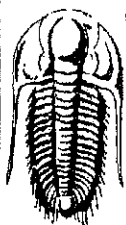
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2092.11         | 116.88       | Initial Hydro-static |
| 1           | 31.27           | 116.61       | Open To Flow (1)     |
| 15          | 81.57           | 123.07       | Shut-In(1)           |
| 46          | 1220.10         | 122.70       | End Shut-In(1)       |
| 46          | 88.70           | 122.16       | Open To Flow (2)     |
| 61          | 132.92          | 122.98       | Shut-In(2)           |
| 92          | 1210.61         | 124.23       | End Shut-In(2)       |
| 93          | 1964.83         | 124.50       | Final Hydro-static   |

### Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 102.00      | MCGO 30%M 10%G 60%O | 1.59         |
| 186.00      | CGO 20%G 80%O       | 2.89         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

### Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcfd) |
|----------------|-----------------|-----------------|
|----------------|-----------------|-----------------|



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TOOL DIAGRAM

Pintail Petroleum

Zeller "FJ" #1-21

225 N Market Ste 300  
Wichita KS 67202

21-15-21 Trego KS

Job Ticket: 24685

DST#: 1

ATTN: Flip Phillips

Test Start: 2006.07.20 @ 14:30:36

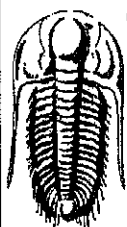
### Tool Information

|                           |                    |                       |                         |                        |             |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4100.00 ft | Diameter: 4.00 inches | Volume: 63.73 bbl       | Tool Weight:           | 1500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl        | Weight set on Packer:  | 30000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl        | Weight to Pull Loose:  | 105000.0 lb |
|                           |                    |                       | Total Volume: 63.73 bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 15.00 ft           |                       |                         | String Weight: Initial | 69000.00 lb |
| Depth to Top Packer:      | 4112.00 ft         |                       |                         | Final                  | 70000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                         |                        |             |
| Interval between Packers: | 40.00 ft           |                       |                         |                        |             |
| Tool Length:              | 67.00 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        |            |          | 4086.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4091.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4096.00    |                               |
| Jars             | 5.00        |            |          | 4101.00    |                               |
| Safety Joint     | 2.00        |            |          | 4103.00    |                               |
| Packer           | 5.00        |            | Fluid    | 4108.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4112.00    |                               |
| Stubb            | 1.00        |            |          | 4113.00    |                               |
| Recorder         | 0.00        | 6667       | Inside   | 4113.00    |                               |
| Perforations     | 34.00       |            |          | 4147.00    |                               |
| Recorder         | 0.00        | 11058      | Inside   | 4147.00    |                               |
| Bullnose         | 5.00        |            |          | 4152.00    | 40.00 Bottom Packers & Anchor |

**Total Tool Length: 67.00**



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### FLUID SUMMARY

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Job Ticket: 24685

DST#: 1

ATTN: Flip Phillips

Test Start: 2006.07.20 @ 14:30:36

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 102.00       | MCGO 30%M 10%G 60%O | 1.585         |
| 186.00       | CGO 20%G 80%O       | 2.891         |

Total Length: 288.00 ft

Total Volume: 4.476 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

