

**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Enterprise Inc.  
2706 Barclay Dr.  
Hays, Ks 67601  
ATTN: Jerry Green

**Veterans #1**  
**8/14S/11W-Russell**  
Job Ticket: 41313      DST#: 1  
Test Start: 2010.12.05 @ 03:24:21

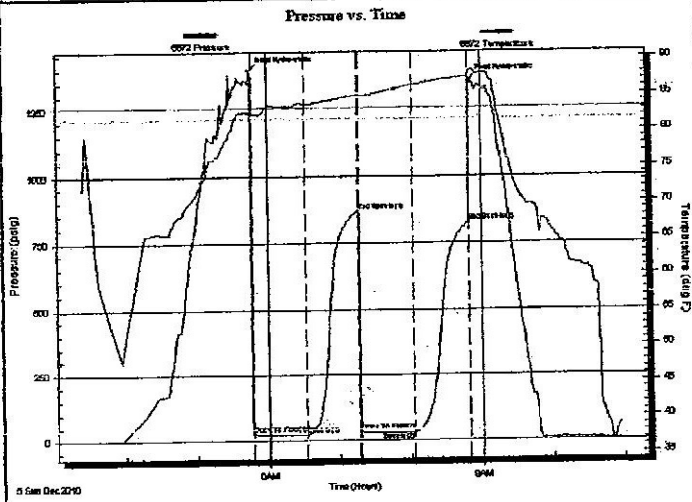
## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **05:46:21**  
Time Test Ended: **10:57:21**  
  
Interval: **2866.00 ft (KB) To 2893.00 ft (KB) (TVD)**  
Total Depth: **2893.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Floor**

Test Type: **Conventional Bottom Hole**  
Tester: **Dustin Rash**  
Unit No: **44**  
  
Reference Elevations: **1741.00 ft (KB)**  
**1731.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 6672**      Inside  
Press@RunDepth: **30.15 psig @ 2867.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.12.05**      End Date: **2010.12.05**      Last Calib.: **2010.12.05**  
Start Time: **03:24:21**      End Time: **10:57:21**      Time On Btm: **2010.12.05 @ 05:44:51**  
Time Off Btm: **2010.12.05 @ 08:50:51**

**TEST COMMENT:** IF-Weak building blow. Built to 3 inches.  
IS-**No Return.**  
FF-Weak building blow. Built to 2.5 inches.  
FS-**No Return.**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1398.14	82.43	Initial Hydro-static
2	26.12	82.17	Open To Flow (1)
48	23.97	83.70	Shut-in(1)
92	869.38	84.80	End Shut-in(1)
93	35.73	84.81	Open To Flow (2)
138	30.15	86.21	Shut-in(2)
184	824.88	87.30	End Shut-in(2)
186	1359.67	88.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.14
30.00	80%Water/20%Mud	0.42

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcfd)



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**FLUID SUMMARY**

Enterprise Inc.

**Veterans #1**

2706 Barclay Dr.  
Hays, Ks 67601

**8/14S/11W-Russell**

Job Ticket: 41313

**DST#: 1**

ATTN: Jerry Green

Test Start: 2010.12.05 @ 03:24:21

**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:

29000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.47 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
10.00	100%Mud	0.140
30.00	80%Water/20%Mud	0.421

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

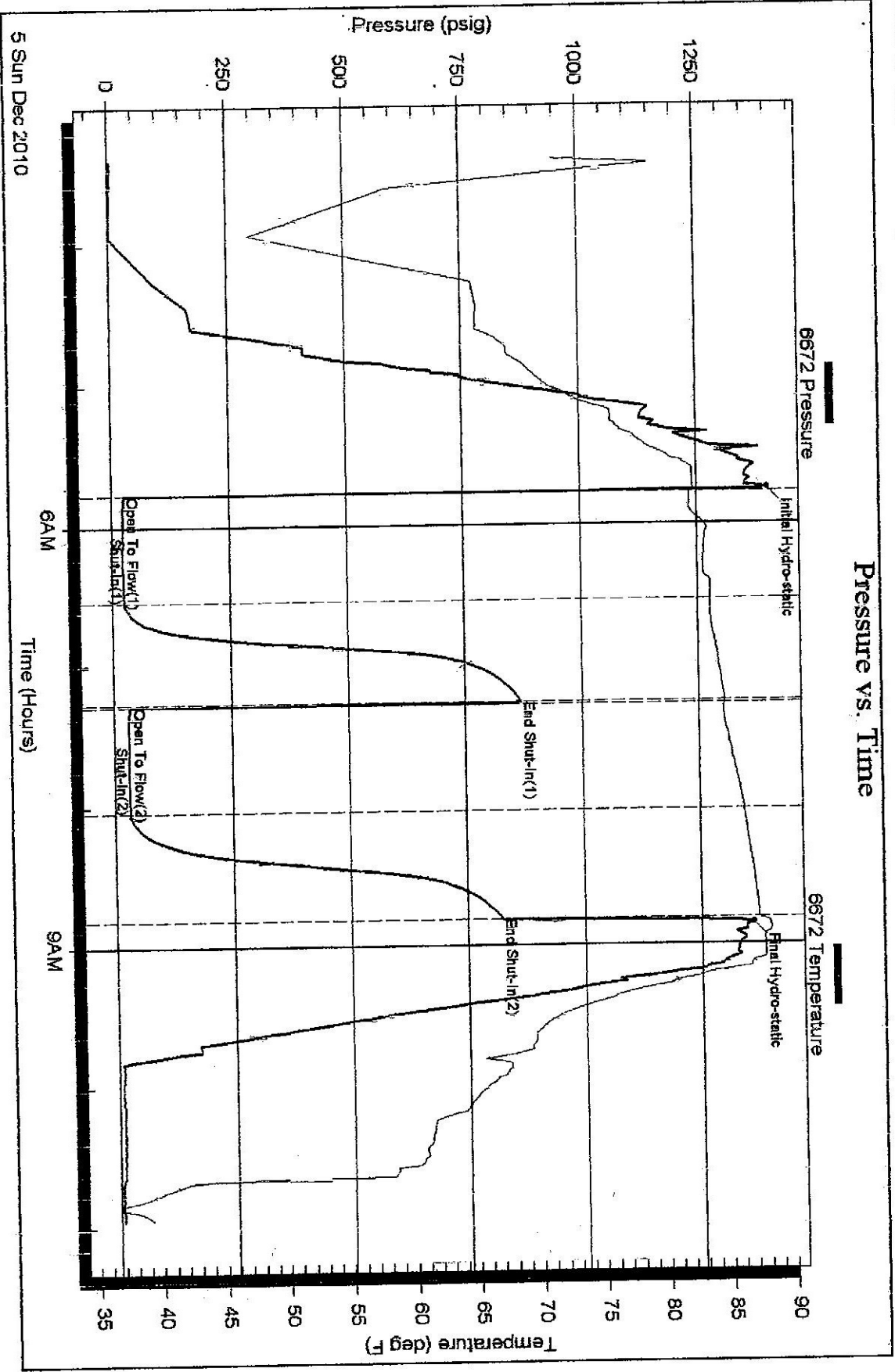
Inside

Enterprise Inc.

8/14S/1W-Russell

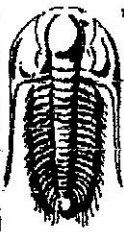
DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 41313



**TRIOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT** *Veteran's #1*

Enterprise Inc.  
2706 Barclay Dr.  
Hays, Ks 67601  
ATTN: Jerry Green

**Veterans #1**  
**8/14S/11W-Russell**  
Job Ticket: 41314 **DST#:2**  
Test Start: 2010.12.05 @ 21:51:06

**GENERAL INFORMATION:**

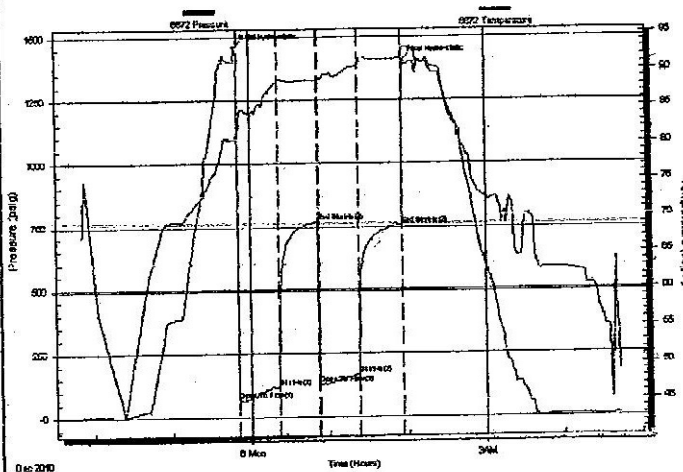
Formation: **LKC**  
Deviated: **No Whipstock** ft (KB)  
Time Tool Opened: **23:50:36**  
Time Test Ended: **04:42:36**  
Interval: **2904.00 ft (KB) To 2984.00 ft (KB) (TVD)**  
Total Depth: **2984.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole**  
Tester: **Dustin Rash**  
Unit No: **44**  
Reference Elevations: **1741.00 ft (KB)**  
**1731.00 ft (CF)**  
KB to GRVCF: **10.00 ft**

**Serial #: 6672** Inside  
Press@RunDepth: **168.15 psig @ 2969.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2010.12.05** End Date: **2010.12.06** Last Calib.: **2010.12.06**  
Start Time: **21:51:06** End Time: **04:42:36** Time On Btrr: **2010.12.05 @ 23:46:36**  
Time Off Btrr: **2010.12.06 @ 01:56:36**

**TEST COMMENT:** IF-Strong building blow . BOB in 14 minutes.  
ISI-No Return.  
FF-Fair building blow . BOB in 18 minutes.  
FSI-No Return.

Pressure vs. Time



**PRESSURE SUMMARY**

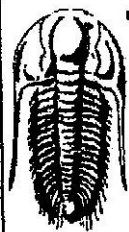
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.28	80.59	Initial Hydro-static
2	70.73	80.79	Open To Flow (1)
33	120.11	88.51	Shut-in (1)
64	768.33	88.63	End Shut-in (1)
64	131.19	88.60	Open To Flow (2)
94	168.15	90.63	Shut-in (2)
127	755.63	91.66	End Shut-in (2)
128	1404.88	92.95	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	80%Water/20%Mud	1.68
120.00	100%Mud	1.68
10.00	99%Mud/1%Oil	0.14

**Gas Rates**

Choke (Inches)	Pressure (psig)	Gas Rate (MMscfd)



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ATTN: Jerry Green

**Veterans #1**  
**8/14S/11W-Russell**  
Job Ticket: 41314      **DST#:2**  
Test Start: 2010.12.05 @ 21:51:06

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 7.20 in<sup>2</sup>  
Resistivity: 0.33 ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API:      deg API  
Water Salinity: 85000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	80%Water/20%Mud	1.683
120.00	100%Mud	1.683
10.00	99%Mud/1%Oil	0.140

Total Length: 250.00 ft      Total Volume: 3.506 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6672

Inside Enterprise Inc.

8/4S/1W-Russell

DST Test Number: 2

### Pressure vs. Time

