

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **J & D Investment Co**

1584 Smokey Hill River Rd  
Hays KS 67601

ATTN: Robert Stolze

30-18-17 Rush KS  
West

Tammen #1

Start Date: 2006.10.13 @ 18:38:08

End Date: 2006.10.14 @ 06:29:08

Job Ticket #: 26806 DST #: 2

API # 15-165-21801-0000

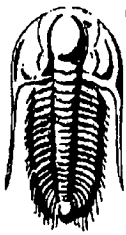
J & D Investment Co.

RECEIVED  
KANSAS CORPORATION COMMISSION

SEP 10 2008

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

J & D Investment Co  
 1584 Smokey Hill River Rd  
 Hays KS 67601  
 ATTN: Robert Stolzle

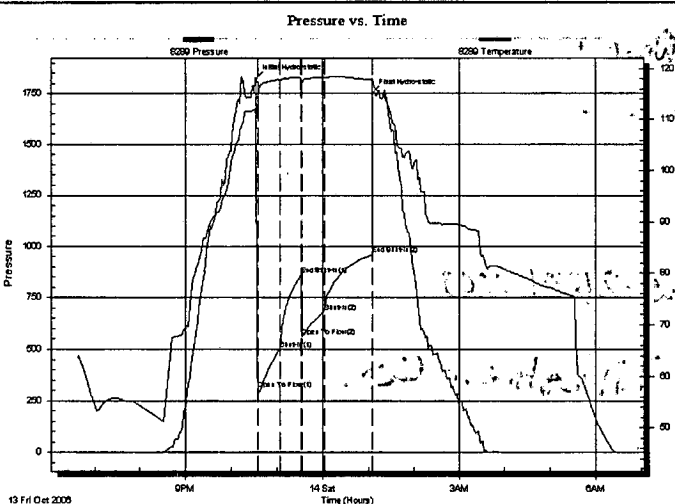
**Tammen #1**  
**30 18 17 Rush KS**  
 Job Ticket: 26806      **DST#: 2**  
 Test Start: 2006.10.13 @ 18:38:08

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No    Whipstock:                      ft (KB)  
 Time Tool Opened: 22:34:38  
 Time Test Ended: 06:29:08  
 Test Type: Conventional Straddle  
 Tester: Tyson Flax  
 Unit No: 21  
 Interval: **3695.00 ft (KB) To 3758.00 ft (KB) (TVD)**  
 Total Depth: 3851.00 ft (KB) (TVD)  
 Reference Elevations: 2008.00 ft (KB)  
 2000.00 ft (CF)  
 Hole Diameter: 7.88 inches    Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 8289**      **Inside**  
 Press@RunDepth: 683.26 psig @ 3696.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.10.13      End Date: 2006.10.14      Last Calib.: 2006.10.14  
 Start Time: 18:38:13      End Time: 06:29:08      Time On Btm: 2006.10.13 @ 22:32:38  
 Time Off Btm: 2006.10.14 @ 01:05:37

**TEST COMMENT:** IFP BOB in 15 sec  
 ISI Weak blow back built to 1.5" died to weak surface  
 FFP BOB in < 10 sec  
 FSI Weak surface blow back died in 17 min



## PRESSURE SUMMARY

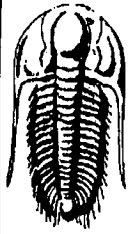
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.19	110.84	Initial Hydro-static
2	306.44	114.35	Open To Flow (1)
31	501.14	117.84	Shut-In(1)
59	860.89	118.16	End Shut-In(1)
61	560.11	117.33	Open To Flow (2)
90	683.26	118.22	Shut-In(2)
153	959.88	117.82	End Shut-In(2)
153	1751.36	118.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1560.00	GO 15%G 85%O	21.09
160.00	GMCO 10%G 60%O 30%M	2.34
120.00	GOCM 5%G 15%O 80%M	1.75

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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**TOOL DIAGRAM**

J & D Investment Co  
1584 Smokey Hill River Rd  
Hays KS 67601  
  
ATTN: Robert Stolze

**Tammen #1**  
**30 18 17 Rush KS**  
Job Ticket: 26806      **DST#: 2**  
Test Start: 2006.10.13 @ 18:38:08

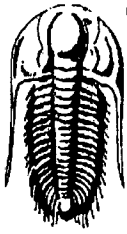
**Tool Information**

Drill Pipe: Length: 3499.00 ft	Diameter: 3.88 inches	Volume: 51.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar: Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 65000.00 lb
Total Volume: 52.05 bbl			Tool Chased 0.00 ft
Drill Pipe Above KB: 10.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer: 3695.00 ft			Final 63000.00 lb
Depth to Bottom Packer: 3758.00 ft			
Interval between Packers: 63.00 ft			
Tool Length: 187.00 ft			
Number of Packers: 3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3668.00	
Shut In Tool	5.00			3673.00	
Hydraulic tool	5.00			3678.00	
Jars	5.00			3683.00	
Safety Joint	2.00			3685.00	
Packer	5.00			3690.00	28.00      Bottom Of Top Packer
Packer	5.00			3695.00	
Stubb	1.00			3696.00	
Recorder	0.00	8289	Inside	3696.00	
Perforations	14.00			3710.00	
Blank Spacing	31.00			3741.00	
Perforations	12.00			3753.00	
Recorder	0.00	3351	Inside	3753.00	
Blank Off Sub	1.00			3754.00	
Stubb	4.00			3758.00	63.00      Tool Interval
Packer	1.00			3759.00	
Stubb	1.00			3760.00	
Change Over Sub	1.00			3761.00	
Recorder	0.00	13409	Outside	3761.00	
Blank Spacing	93.00			3854.00	96.00      Bottom Packers & Anchor

**Total Tool Length: 187.00**



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**FLUID SUMMARY**

J & D Investment Co

**Tammen #1**

1584 Smokey Hill River Rd  
Hays KS 67601

**30 18 17 Rush KS**

Job Ticket: 26806

**DST#: 2**

ATTN: Robert Stolzle

Test Start: 2006.10.13 @ 18:38:08

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1560.00	GO 15%G 85%O	21.086
160.00	GMCO 10%G 60%O 30%M	2.340
120.00	GOCM 5%G 15%O 80%M	1.755

Total Length: 1840.00 ft      Total Volume: 25.181 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

