



## DRILL STEM TEST REPORT

Prepared For: **Hartman Oil**

10500 E. Berkeley Sq. Pkwy.  
Suite 100  
Wichita, KS 67206

ATTN: Steve Murphy

**28-22s-23w Finney,KS**

**Damme #44**

Start Date: 2011.02.11 @ 01:02:00

End Date: 2011.02.11 @ 09:10:00

Job Ticket #: 040646                      DST #: 1

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



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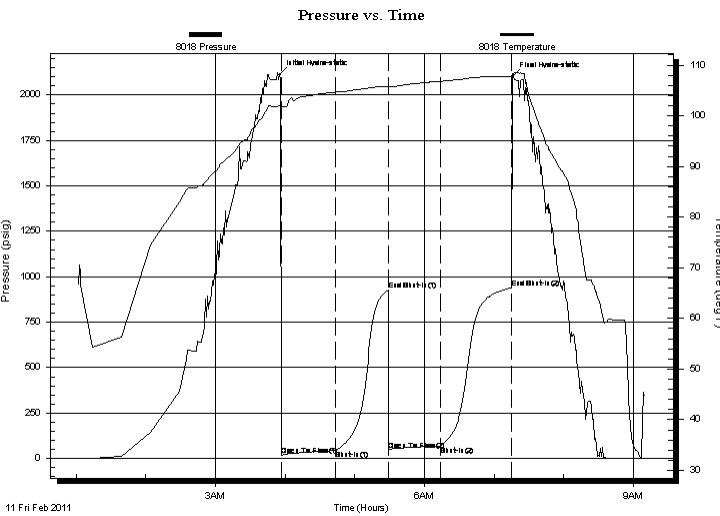
**Damme #44**  
**28-22s-23w Finney,KS**  
 Job Ticket: 040646 **DST#: 1**  
 Test Start: 2011.02.11 @ 01:02:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:57:00  
 Time Test Ended: 09:10:00  
 Interval: **4354.00 ft (KB) To 4383.00 ft (KB) (TVD)**  
 Total Depth: 4383.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith  
 Unit No: 37  
 Reference Elevations: 2900.00 ft (KB)  
 2890.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8018** **Inside**  
 Press @ Run Depth: 69.17 psig @ 4358.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.02.11 End Date: 2011.02.11 Last Calib.: 2011.02.11  
 Start Time: 01:02:05 End Time: 09:09:59 Time On Btm: 2011.02.11 @ 03:55:20  
 Time Off Btm: 2011.02.11 @ 07:15:50

**TEST COMMENT:** IF: 6" Blow.  
 IS: No return.  
 FF: B.O.B. @ 40 min.  
 FS: Surface return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.17	101.95	Initial Hydro-static
2	17.95	101.28	Open To Flow (1)
49	44.16	104.63	Shut-In(1)
94	926.77	105.77	End Shut-In(1)
94	47.85	105.54	Open To Flow (2)
139	69.17	106.79	Shut-In(2)
200	940.30	107.81	End Shut-In(2)
201	2102.40	108.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 5g 35o 60m	0.22
90.00	GOCM 20g 30o 50m	0.44
0.00	600 Feet GIP	0.00

## Gas Rates

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





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**TOOL DIAGRAM**

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## Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight: 2500.00 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: 650.00 ft	Diameter: 2.25 inches	Volume: 3.20 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 55.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.50 ft			String Weight: Initial 95000.00 lb
Depth to Top Packer:	4354.00 ft			Final 96000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.50 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			4327.50	
Shut In Tool	5.00			4332.50	
Hydraulic tool	5.00			4337.50	
Jars	5.00			4342.50	
Safety Joint	2.50			4345.00	
Packer	5.00			4350.00	27.50 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Perforations	3.00			4358.00	
Recorder	0.00	8018	Inside	4358.00	
Recorder	0.00	6751	Outside	4358.00	
Perforations	22.00			4380.00	
Bullnose	3.00			4383.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 56.50**



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## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GOCM 5g 35o 60m	0.221
90.00	GOCM 20g 30o 50m	0.443
0.00	600 Feet GIP	0.000

Total Length: 135.00 ft      Total Volume: 0.664 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

