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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water #300  
Wichita, Ks 67202

ATTN: Murfin Drilling Co

**12-22s-34w Finney KS**

**Loomis #1-12**

Start Date: 2003.03.17 @ 20:13:51

End Date: 2003.03.18 @ 04:36:04

Job Ticket #: 16209                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co

Loomis #1-12

12-22s-34w Finney KS

DST # 1

Pawnee

2003.03.17



**DRILL STEM TEST REPORT**

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Murfin Drilling Co  
 250 N Water #300  
 Wichita, Ks 67202  
 ATTN: Murfin Drilling Co

Loomis #1-12  
 12-22s-34w Finney KS  
 Job Ticket: 16209 DST#: 1  
 Test Start: 2003.03.17 @ 20:13:51

**GENERAL INFORMATION:**

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:17:49  
 Time Test Ended: 04:36:04

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Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 25  
 Reference Elevations: 2918.00 ft (KB)  
 2913.00 ft (CF)  
 KB to GR/CF: 5.00 ft

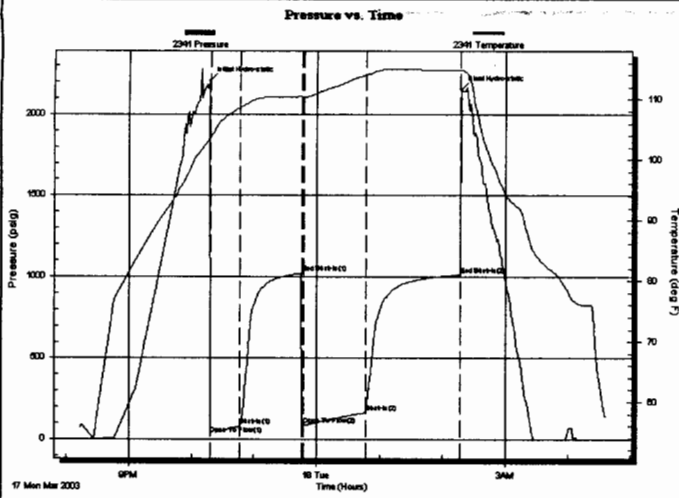
Interval: **4402.00 ft (KB) To 4422.00 ft (KB) (TVD)**  
 Total Depth: 4422.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

**Serial #: 2341**

**Inside**

Press@RunDepth: 165.22 psig @ 4403.00 ft (KB)  
 Start Date: 2003.03.17 End Date: 2003.03.18  
 Start Time: 20:13:51 End Time: 04:36:04  
 Capacity: 7000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btrn: 2003.03.17 @ 22:17:19  
 Time Off Btrn: 2003.03.18 @ 02:17:04

**TEST COMMENT:** B.O.B. in 8 min.  
 Bleed of for 4 min , return in 2 min built to 6" in.  
 6" in @ open B.O.B. in 3 min.  
 Bleed of for 6 min. , return in 1 min, B.O.B. in 9 min.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.98	103.53	Initial Hydro-static
1	28.38	103.60	Open To Flow (1)
30	82.75	108.66	Shut-In(1)
88	1020.57	110.46	End Shut-In(1)
90	89.32	110.39	Open To Flow (2)
150	165.22	113.99	Shut-In(2)
239	1012.52	114.76	End Shut-In(2)
240	2154.79	114.78	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	o c g m 25%o 20%g 55%m	0.30
90.00	m c g o 40%o 25%g 35%m	0.44
270.00	c g o 70%o 30%g	3.79

**Gas Rates**

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



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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co  
250 N Water #300  
Wichita, Ks 67202  
ATTN: Murfin Drilling Co

**Loomis #1-12**  
**12-22s-34w Finney KS**  
Job Ticket: 16209      **DST#: 1**  
Test Start: 2003.03.17 @ 20:13:51

**Tool Information**

Drill Pipe:	Length: 4237.00 ft	Diameter: 3.80 inches	Volume: 59.43 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4402.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4381.00	
S.I. Tool	5.00			4386.00	
HMV	5.00			4391.00	
Safety Joint	2.00			4393.00	
Packer	5.00			4398.00	22.00      Bottom Of Top Packer
Packer	4.00			4402.00	
Stubb	1.00			4403.00	
Recorder	0.00	2341	Inside	4403.00	
Perforations	14.00			4417.00	
Recorder	0.00	11058	Outside	4417.00	
Bullnose	5.00			4422.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 42.00**



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**FLUID SUMMARY**

Murfin Drilling Co  
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**KCC**  
**APR 28 2003**

Loomis #1-12  
12-22s-34w Finney KS  
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ATTN: Murfin Drilling Co

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**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	o c g m 25%o 20%g 55%m	0.295
90.00	m c g o 40%o 25%g 35%m	0.443
270.00	c g o 70%o 30%g	3.787

Total Length: 420.00 ft      Total Volume: 4.525 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

