

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

13 9 33 Thomas KS

Wilson #1-13

Start Date: 2007.01.13 @ 22:09:01

End Date: 2007.01.14 @ 05:56:29

Job Ticket #: 25982 DST #: 1

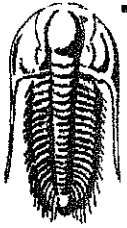
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Trilobite Testing, Inc

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DRILL STEM TEST REPORT

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DST#: 1

Test Start: 2007.01.13 @ 22:09:01

GENERAL INFORMATION:

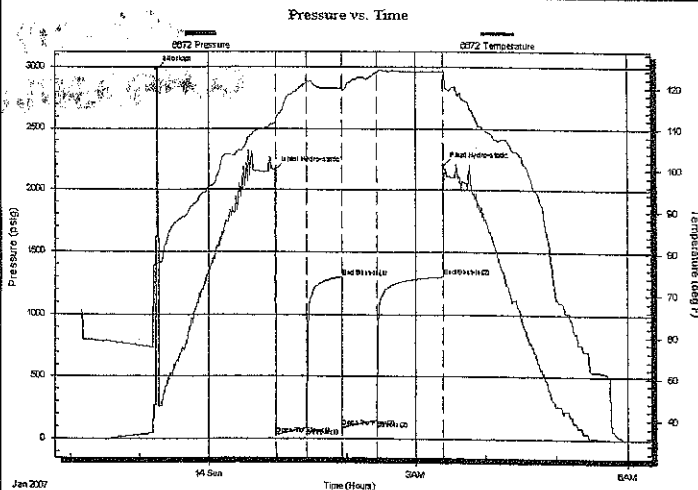
Formation: **KC, "K"**
 Deviated: **No Whipstock: ft (KB)**
 Time Tool Opened: **00:58:29**
 Time Test Ended: **05:56:29**
 Interval: **4306.00 ft (KB) To 4338.00 ft (KB) (TVD)**
 Total Depth: **4338.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Michael Shinn**
 Unit No: **14**
 Reference Elevations: **3105.00 ft (KB)**
3095.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672

Inside

Press@RunDepth: **150.03 psig @ 4306.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2007.01.13** End Date: **2007.01.14** Last Calib.: **2007.01.14**
 Start Time: **22:09:01** End Time: **05:56:29** Time On Btm: **2007.01.14 @ 00:58:14**
 Time Off Btm: **2007.01.14 @ 03:24:14**

TEST COMMENT: IF Return blow to 1 in.
 IS No return
 FF Return blow to 2 in.
 ISI No return



PRESSURE SUMMARY

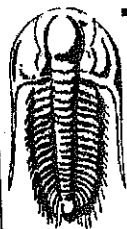
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2976.54	77.23	hit bridge
104	2158.20	111.51	Initial Hydro-static
104	34.17	110.57	Open To Flow (1)
131	90.03	121.16	Shut-In(1)
161	1303.14	119.79	End Shut-In(1)
162	92.12	119.51	Open To Flow (2)
192	150.03	123.56	Shut-In(2)
250	1304.05	123.83	End Shut-In(2)
250	2198.08	124.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	McSW 40%M 60%SW	0.91

Gas Rates

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



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TOOL DIAGRAM

Murfin Drilling Company

Wilson #1-13

250 N Ste 300
Wichita KS 67202

13 9 33 Thomas KS

Job Ticket: 25982

DST#:1

ATTN: Paul Gunzelman

Test Start: 2007.01.13 @ 22:09:01

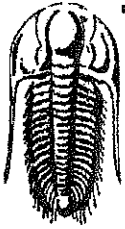
Tool Information

Drill Pipe:	Length: 3926.00 ft	Diameter: 3.80 inches	Volume: 55.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 96000.00 lb
			<u>Total Volume: 56.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4306.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4289.00	
Hydraulic tool	5.00			4294.00	
Safety Joint	2.00			4296.00	
Packer	5.00			4301.00	22.00 Bottom Of Top Packer
Packer	5.00			4306.00	
Recorder	0.00	6672	Inside	4306.00	
Perforations	27.00			4333.00	
Recorder	0.00	11020	Inside	4333.00	
Bullnose	5.00			4338.00	32.00 Bottom Packers & Anchor
Total Tool Length:	54.00				

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FLUID SUMMARY

Murfin Drilling Company

Wilson #1-13

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Wichita KS 67202

13 9 33 Thomas KS

Job Ticket: 25982

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.01.13 @ 22:09:01

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:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 12400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	McSW 40%M 60%SW	0.915

Total Length: 186.00 ft Total Volume: 0.915 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

[Faint, illegible text]

DST Test Number: 1

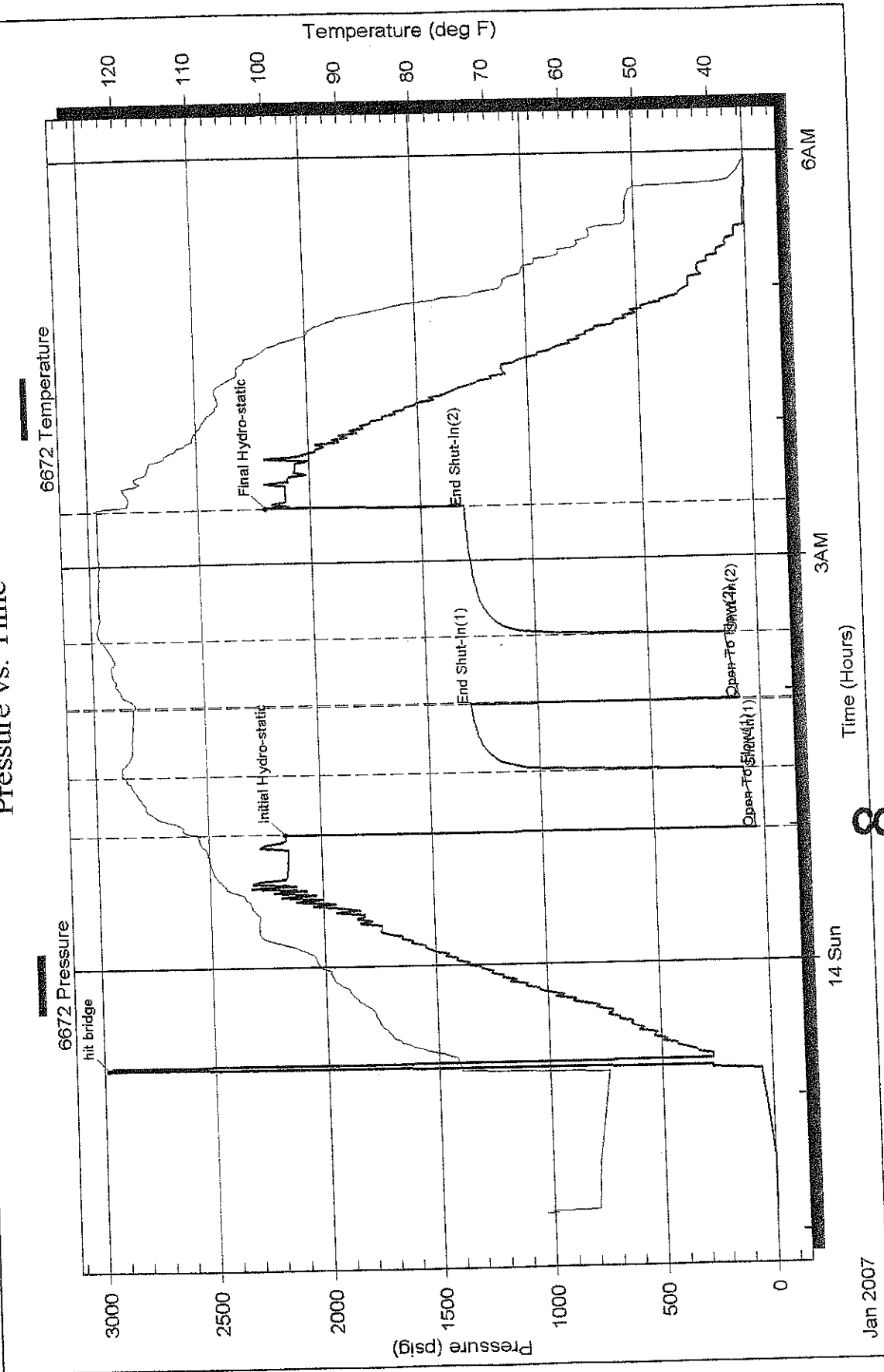
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Murfin Drilling Company

Inside

Serial #: 6672

Pressure vs. Time



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