

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

ORIGINAL

Prepared For: **Knighnton Oil. Co.**

221 S. Broadway
Ste. 710
Wichita, KS 67202

CONFIDENTIAL

KCC

ATTN: Dave Montague

MAR 20 2005

12-33s-7w

CONFIDENTIAL

Birchenough #1

Start Date: 2005.04.14 @ 15:14:12

End Date: 2005.04.15 @ 00:09:27

Job Ticket #: 21408

DST #: 1

**RECEIVED
KANSAS CORPORATION COMMISSION**

MAY 02 2005

**CONSERVATION DIVISION
WICHITA KS**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Knighnton Oil. Co.

Birchenough #1

12-33s-7w

DST # 1

Miss.

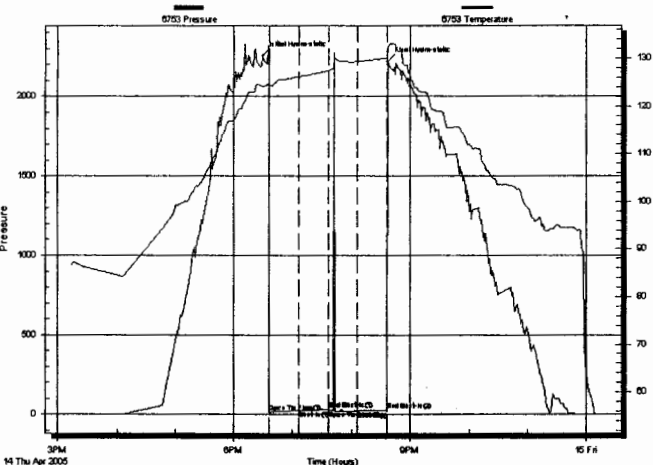
2005.04.14

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Knighton Oil. Co. 221 S. Broadway Ste. 710 Wichita, KS 67202 ATTN: Dave Montague		Birchenough #1 12-33s-7w Job Ticket: 21408 DST#: 1 Test Start: 2005.04.14 @ 15:14:12	

GENERAL INFORMATION:			
Formation:	Miss.		
Deviated:	No	Whipstock:	ft (KB)
Time Tool Opened:	18:36:12		Test Type: Conventional Bottom Hole
Time Test Ended:	00:09:27		Tester: Davy Cline
			Unit No: 24
Interval:	4486.00 ft (KB) To 4500.00 ft (KB) (TVD)		Reference Elevations: 1395.00 ft (KB)
Total Depth:	4500.00 ft (KB) (TVD)		1390.00 ft (CF)
Hole Diameter:	7.88 inches		KB to GR/CF: 5.00 ft
Hole Condition:	Poor		

Serial #: 6753 Inside			
Press@RunDepth:	23.54 psig @	4487.00 ft (KB)	Capacity: 7000.00 psig
Start Date:	2005.04.14	End Date:	2005.04.15
Start Time:	15:14:13	End Time:	00:09:27
		Time On Btm:	2005.04.14 @ 18:29:57
		Time Off Btm:	2005.04.14 @ 20:36:57

TEST COMMENT: IF: Very weak surface blow w hen tool first opened. No blow after 1 min.
 IS: No blow.
 FF: No blow. Flushed tool, bubbled w hen too reopened and then No Blow.
 FS: No blow.

Pressure vs. Time 	PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>2256.65</td> <td>124.21</td> <td>Initial Hydro-static</td> </tr> <tr> <td>7</td> <td>15.31</td> <td>124.14</td> <td>Open To Flow (1)</td> </tr> <tr> <td>37</td> <td>25.03</td> <td>126.20</td> <td>Shut-In(1)</td> </tr> <tr> <td>67</td> <td>31.84</td> <td>127.39</td> <td>End Shut-In(1)</td> </tr> <tr> <td>67</td> <td>23.73</td> <td>127.40</td> <td>Open To Flow (2)</td> </tr> <tr> <td>97</td> <td>23.54</td> <td>129.35</td> <td>Shut-In(2)</td> </tr> <tr> <td>127</td> <td>25.02</td> <td>130.08</td> <td>End Shut-In(2)</td> </tr> <tr> <td>127</td> <td>2218.53</td> <td>132.16</td> <td>Final Hydro-static</td> </tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	2256.65	124.21	Initial Hydro-static	7	15.31	124.14	Open To Flow (1)	37	25.03	126.20	Shut-In(1)	67	31.84	127.39	End Shut-In(1)	67	23.73	127.40	Open To Flow (2)	97	23.54	129.35	Shut-In(2)	127	25.02	130.08	End Shut-In(2)	127	2218.53	132.16	Final Hydro-static
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil. Co.

Birchenough #1

221 S. Broadway

12-33s-7w

Ste. 710

Job Ticket: 21408

DST#: 1

Wichita, KS 67202

ATTN: Dave Montague

Test Start: 2005.04.14 @ 15:14:12

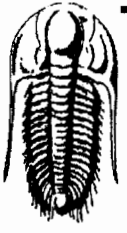
Tool Information

Drill Pipe:	Length: 4251.00 ft	Diameter: 3.25 inches	Volume: 43.62 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.88 inches	Volume: 1.97 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 45.59 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4486.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		4466.00	
Shut In Tool	5.00		4471.00	
Hydraulic tool	5.00		4476.00	
Packer	5.00		4481.00	21.00 Bottom Of Top Packer
Packer	5.00		4486.00	
Stubb	1.00		4487.00	
Recorder	0.00	6753 Inside	4487.00	
Perforations	10.00		4497.00	
Recorder	0.00	13400 Outside	4497.00	
Bullnose	3.00		4500.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00			

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY						
	Knighton Oil. Co. 221 S. Broadway Ste. 710 Wichita, KS 67202 ATTN: Dave Montague	Birchenough #1 12-33s-7w Job Ticket: 21408 Test Start: 2005.04.14 @ 15:14:12	DST#: 1						
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Recovery Information									
Recovery Table									
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Length ft	Description	Volume bbl							
5.00	VSGCM	0.040							
Total Length: 5.00 ft		Total Volume: 0.040 bbl							
Num Fluid Samples: 0		Num Gas Bombs: 0							
Laboratory Name:		Serial #:							
Laboratory Location:									
Recovery Comments:									

DST Test Number: 1

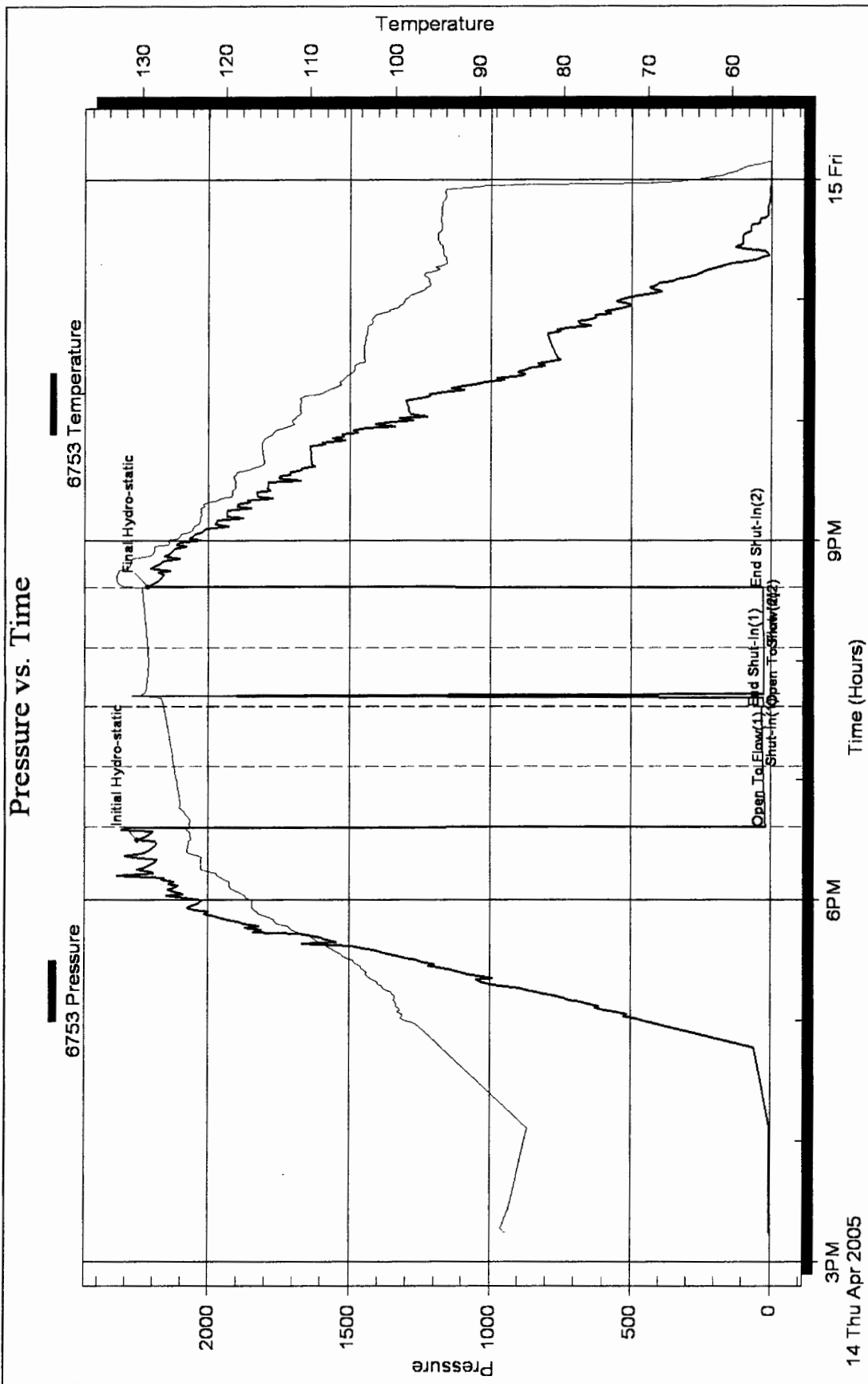
12-33s-7w

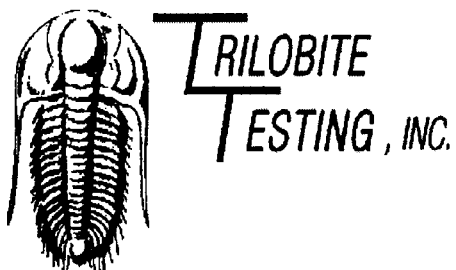
Knighton Oil. Co.

Inside

Serial #: 6753

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Knighton Oil. Co.**

221 S. Broadway
Ste. 710
Wichita, KS 67202

ATTN: Dave Montague

12-33s-7w

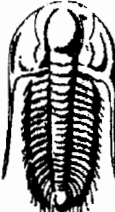
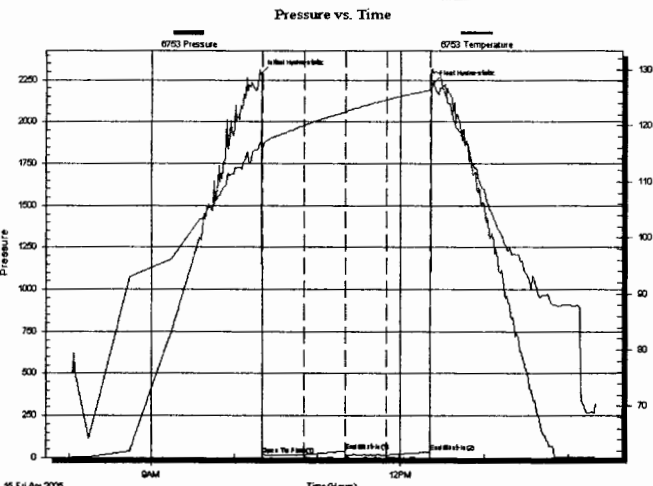
Birchenough #1

Start Date: 2005.04.15 @ 08:02:04

End Date: 2005.04.15 @ 14:19:34

Job Ticket #: 21409 DST #: 2

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

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TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil. Co.

Birchenough #1

221 S. Broadway
Ste. 710

12-33s-7w

Wichita, KS 67202

Job Ticket: 21409

DST#: 2

ATTN: Dave Montague

Test Start: 2005.04.15 @ 08:02:04

Tool Information

Drill Pipe:	Length: 4251.00 ft	Diameter: 3.25 inches	Volume: 43.62 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.88 inches	Volume: 1.97 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	45.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4506.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4486.00	
Shut In Tool	5.00			4491.00	
Hydraulic tool	5.00			4496.00	
Packer	5.00			4501.00	21.00 Bottom Of Top Packer
Packer	5.00			4506.00	
Stubb	1.00			4507.00	
Recorder	0.00	6753	Inside	4507.00	
Perforations	10.00			4517.00	
Recorder	0.00	13400	Outside	4517.00	
Bullnose	3.00			4520.00	14.00 Bottom Packers & Anchor
Total Tool Length:		35.00			

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Knighton Oil. Co. 221 S. Broadway Ste. 710 Wichita, KS 67202 ATTN: Dave Montague	Birchenough #1 12-33s-7w Job Ticket: 21409 DST#: 2 Test Start: 2005.04.15 @ 08:02:04	

Mud and Cushion Information			
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 62.00 sec/qt Water Loss: 11.97 in ³ Resistivity: ohm.m Salinity: 4000.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: Water Salinity: ppm deg API	

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
10.00	GCM 100% m	0.081

Total Length: 10.00 ft	Total Volume: 0.081 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

Serial #: 6753

Inside Knighton Oil. Co.

12-33s-7w

DST Test Number: 2

