

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mid-Continent Resources

Union # 1-4

P.O. BOX 399
Garden City KS 67846

4-44s-24w-Hodgeman

Job Ticket: 38035 DST#: 1

ATTN: JASONALM

Test Start: 2010.02.09 @ 12:04:00

GENERAL INFORMATION:

Formation: **MISS**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 14:15:30

Time Test Ended: 21:00:00

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 41

Interval: **4633.00 ft (KB) To 4645.00 ft (KB) (TVD)**

Total Depth: 4645.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2445.00 ft (KB)

2434.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8371

Press@RunDepth: 155.72 psig @ ft (KB)

Start Date: 2010.02.09

End Date:

2010.02.09

Start Time: 12:04:05

End Time:

21:00:00

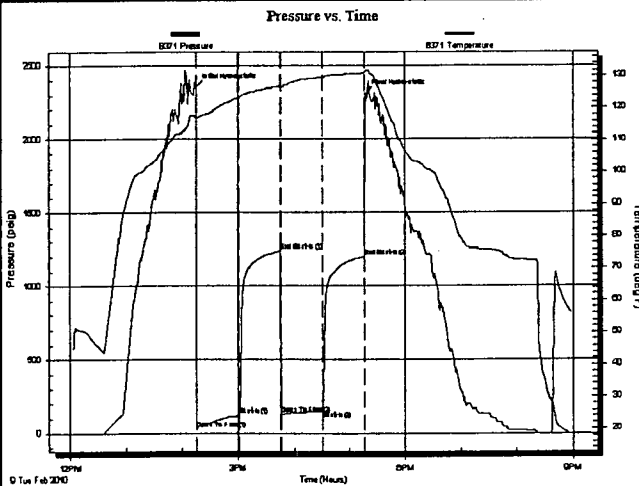
Capacity: 8000.00 psig

Last Calib.: 2010.02.09

Time On Btm: 2010.02.09 @ 14:15:00

Time Off Btm: 2010.02.09 @ 17:17:30

TEST COMMENT: IFR-BOB in 32 min
ISL-Weak blow back built to 2 in
FFP-BOB in 25 min
FSL-Weak blow back built to 3/4 in slow ly died to 1/4in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2354.39	117.58	Initial Hydro-static
1	29.08	116.99	Open To Flow (1)
46	120.55	123.39	Shut-in(1)
91	1239.72	126.84	End Shut-in(1)
92	129.68	126.53	Open To Flow (2)
136	155.72	129.53	Shut-in(2)
181	1200.21	130.89	End Shut-in(2)
183	2308.78	131.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Clean oil	0.61
155.00	HGOCMV10%G40%O40%M10%W	0.76
124.00	SOCWMS%O15%M80W	1.67
0.00	186'GP	0.00

Gas Rates

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

Trilobite Testing, Inc. KANSAS CORPORATION COMMISSION

Ref. No: 38035

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Resources

Union # 1-4

P.O. BOX 399
Garden City KS 67846

4-44s-24w-Hodgeman

Job Ticket: 38035 DST#: 1

ATTN: JASONALM

Test Start: 2010.02.09 @ 12:04:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 25000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Clean oil	0.610
155.00	HGOOMW10%G40%O40%M10%W	0.762
124.00	SOCMM5%O15%M80W	1.667
0.00	186'GP	0.000

Total Length: 403.00 ft Total Volume: 3.039 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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Ref. No: 38035

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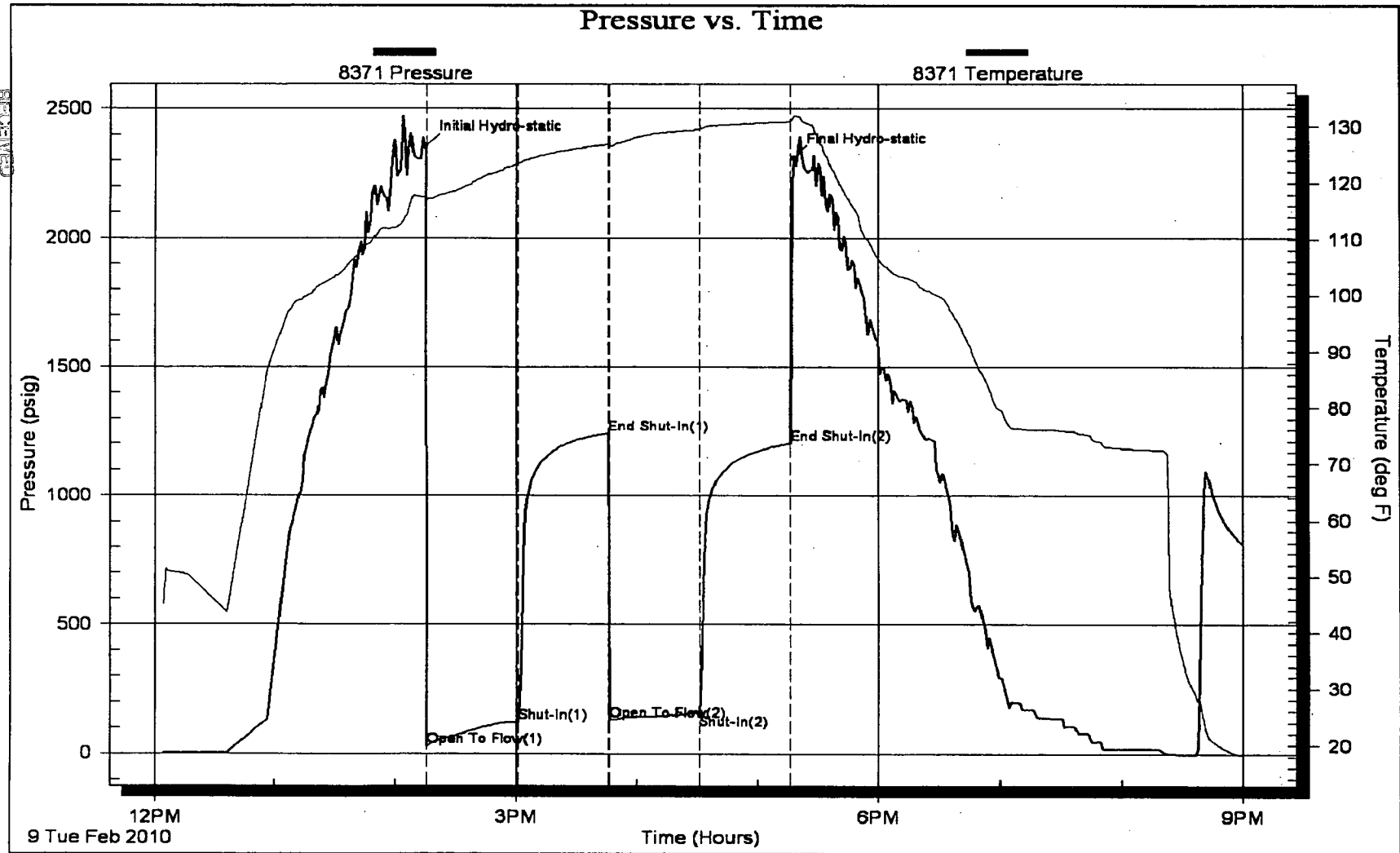
CONSERVATION DIVISION
WICHITA, KS

Serial #: 8371

Mid-Continent Resources

4-44s-24w -Hodgeman

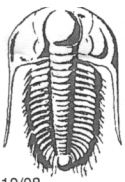
DST Test Number: 1



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WICHITA, KS

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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FEB 10 2010

Test Ticket

NO. 38035 13911

BY: _____

Well Name & No. <u>Union # 1-4</u>	Test No. <u>1</u>	Date <u>2-9-10</u>
Company <u>Mid-Continent Resources</u>	Elevation <u>2445</u>	KB <u>2434</u> GL
Address <u>P.O. Box 399 Garden City KS 67840</u>		
Co. Rep / Geo. <u>Jason ALM</u>	Rig <u>Duke #5</u>	
Location: Sec. <u>4</u> Twp. <u>22S</u> Rge. <u>24W</u> Co. <u>Hodgeman</u> State <u>KS</u>		

Interval Tested <u>4633-4645</u>	Zone Tested <u>Miss</u>
Anchor Length <u>12</u>	Drill Pipe Run <u>4352</u> Mud Wt. <u>9.5</u>
Top Packer Depth <u>4628</u>	Drill Collars Run <u>287</u> Vis <u>2.1</u>
Bottom Packer Depth <u>4633</u>	Wt. Pipe Run <u>0</u> WL <u>8.0</u>
Total Depth <u>4645</u>	Chlorides <u>4300</u> ppm System LCM <u>TR</u>

Blow Description IFP-BOB IN 32min
ISI-Weak Blow Back Built to 2 IN
FFP-BOB IN 25min
FSI-Weak Blow Back Built to 3/4 IN Dir'd Back to 1/4 IN

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Clean oil</u>				
<u>155</u>	<u>HGOCMW</u>	<u>10%</u>	<u>40%</u>	<u>10%</u>	<u>40%</u>
<u>124</u>	<u>SOCWM</u>		<u>5%</u>	<u>80%</u>	<u>15%</u>
	<u>186' GIP</u>				
Rec Total <u>403</u>	BHT <u>131</u>	Gravity <u>40</u>	API RW <u>5.2 @ 37° F</u>	Chlorides <u>25000</u>	ppm

(A) Initial Hydrostatic <u>2354</u>	<input checked="" type="checkbox"/> Test <u>1150'</u>	T-On Location <u>11:15</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>12:04</u>
(C) First Final Flow <u>121</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>14:15</u>
(D) Initial Shut-In <u>1240</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:15</u>
(E) Second Initial Flow <u>130</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:00</u>
(F) Second Final Flow <u>156</u>	<input checked="" type="checkbox"/> Mileage <u>182</u> RT	Comments _____
(G) Final Shut-In <u>1200</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2211</u>	<input type="checkbox"/> Straddle	_____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1657'</u>
	Sub Total <u>1657'</u>	

Approved By _____ Our Representative Jeff Brown
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.