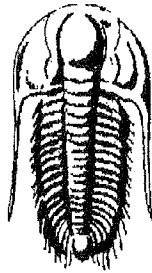


15-189-22664

10-35s-35w

IND



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Midwestern Exploration Co.**

3500 S. BLVD. Suite 2B Edmond OK,  
73013

ATTN: Tom Williams

**10 35 35 Stevens KS**

**Ryan #1-10**

Start Date: 2008.09.12 @ 01:05:00

End Date: 2008.09.12 @ 12:46:00

Job Ticket #: 27243 DST #: 1

Midwestern Exploration Co.

Ryan #1-10

10 35 35 Stevens KS

DST # 1

Morrow Sand

2008.09.12

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**DEC 22 2008**

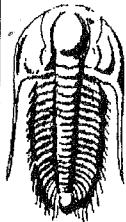
CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Midwestern Exploration Co.

**Ryan #1-10**

3500 S. BLVD. Suite 2B

Edmond OK, 73013

**10 35 35 Stevens KS**

ATTN: Tom Williams

Job Ticket: 27243

DST#: 1

Test Start: 2008.09.12 @ 01:05:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 12:46:00

Test Type: Conventional Bottom Hole

Tester: Mike Slemp

Unit No: 28

Interval: **6258.00 ft (KB) To 6335.00 ft (KB) (TVD)**

Total Depth: 6335.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3000.00 ft (KB)

2988.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 6752**

**Inside**

Press@RunDepth: 75.88 psig @ 6337.00 ft (KB)

Start Date: 2008.09.12 End Date: 2008.09.12

Start Time: 01:05:01 End Time: 12:46:00

Capacity: 7000.00 psig

Last Calib.: 2008.09.12

Time On Btm: 2008.09.12 @ 05:50:45

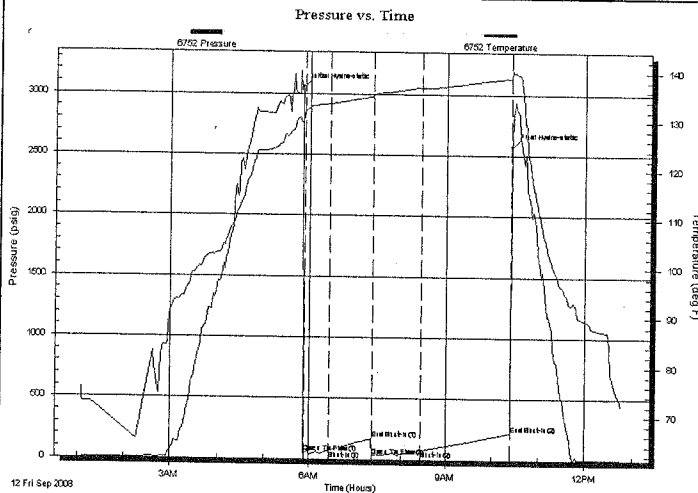
Time Off Btm: 2008.09.12 @ 10:24:45

TEST COMMENT: IF Weak blow, 4 inches in 30 min

ISI No blow back

FF Weak blow, 4 inches in 60 min

FSI No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3053.66	129.78	Initial Hydro-static
2	55.36	131.50	Open To Flow (1)
35	72.62	133.48	Shut-In(1)
91	170.17	134.95	End Shut-In(1)
92	33.54	135.23	Open To Flow (2)
156	75.88	136.85	Shut-In(2)
274	222.53	138.86	End Shut-In(2)
274	2574.50	140.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	100% mud	0.46

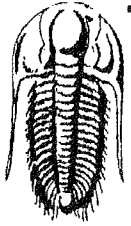
## Gas Rates

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

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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Midwestern Exploration Co.

**Ryan #1-10**

3500 S. BLVD. Suite 2B

Edmond OK, 73013

**10 35 35 Stevens KS**

Job Ticket: 27243

**DST#: 1**

ATTN: Tom Williams

Test Start: 2008.09.12 @ 01:05:00

### Tool Information

Drill Pipe:	Length: 6068.00 ft	Diameter: 3.80 inches	Volume: 85.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 130000.0 lb
			<u>Total Volume: 86.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	6335.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

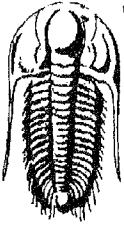
### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6309.00	
Shut In Tool	5.00			6314.00	
Hydraulic tool	5.00			6319.00	
Jars	5.00			6324.00	
Safety Joint	2.00			6326.00	
Packer	5.00			6331.00	27.00 Bottom Of Top Packer
Packer	4.00			6335.00	
Stubb	1.00			6336.00	
Perforations	1.00			6337.00	
Recorder	0.00	8321	Inside	6337.00	
Recorder	0.00	6752	Inside	6337.00	
Perforations	8.00			6345.00	
Change Over Sub	1.00			6346.00	
Drill Pipe	62.00			6408.00	
Change Over Sub	1.00			6409.00	
Bullnose	3.00			6412.00	77.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.00</b>				

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TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Midwestern Exploration Co.

**Ryan #1-10**

3500 S. BLVD. Suite 2B

Edmond OK, 73013

**10 35 35 Stevens KS**

Job Ticket: 27243

**DST#: 1**

ATTN: Tom Williams

Test Start: 2008.09.12 @ 01:05:00

## 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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	100% mud	0.457

Total Length: 93.00 ft      Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

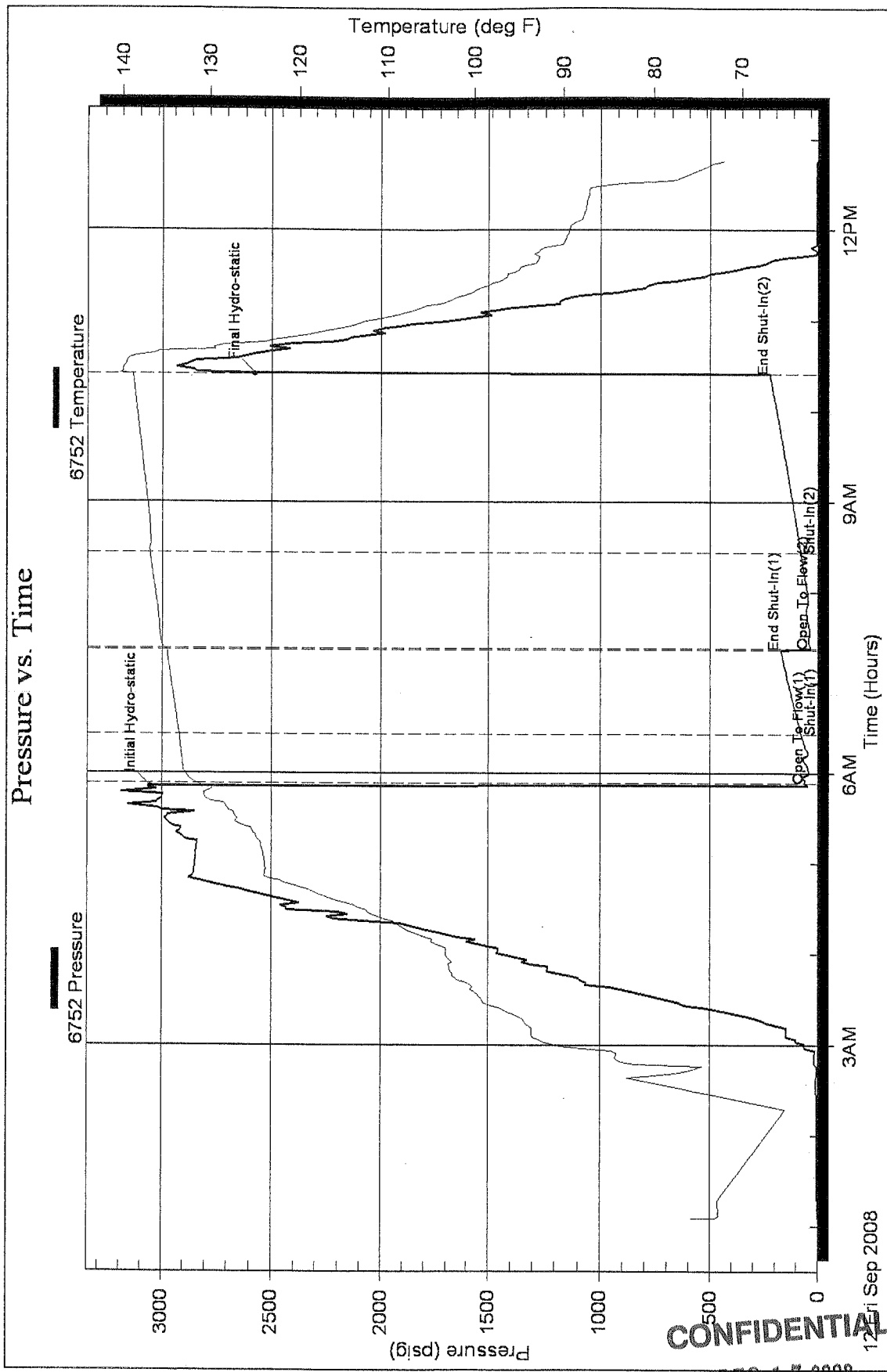
Recovery Comments:

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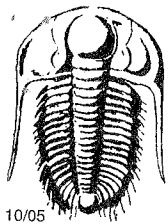
# Pressure vs. Time



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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27243

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## Test Ticket

BY: \_\_\_\_\_

Well Name & No. Ryan #1-10 Test No. 1 Date ~~9-12-08~~ 9-12-08  
 Company Midwestern Exploration Co. Zone Tested Morrow Sand  
 Address 3500 S. Blvd Suite 2B Edmond OK, 73013 Elevation 3000 KB 2988 GL \_\_\_\_\_  
 Co. Rep / Geo. Tom Williams Rig Duke Rig #10  
 Location: Sec. 10 Twp. 35 Rge. 35 Co. Stevens State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 6258-6335 Initial Str Wt./Lbs. 90k Unseated Str Wt./Lbs. 100k  
 Anchor Length 77 Wt. Set Lbs. 25k Wt. Pulled Loose/Lbs. 130k  
 Top Packer Depth 6253 Tool Weight 2k  
 Bottom Packer Depth 6258 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 6335 Wt. Pipe Run 0 Drill Collar Run 270  
 Mud Wt. 9.0 LCM 8 Vis. 47 WL 8.0 Drill Pipe Size 4.5XH Ft. Run 6068

Blow Description IF - weak blow, 4 inches in 30 min  
ESI - NO blow back  
FF - weak blow, 4 inches in 60 min  
FSE - NO blow back

Recovery - Total Feet 93 GIP  Ft. in DC  Ft. in DP   
 Rec. 93 Feet of Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 138.86 °F Gravity \_\_\_\_\_ API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 1000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>3027</u> PSI	<u>6752</u> 1:05 AM	<u>1500.00</u>
(B) First Initial Flow Pressure		<u>55</u> PSI	<del>6258</del> <u>6258</u>	Jars <u>250.00</u>
(C) First Final Flow Pressure		<u>72</u> PSI	<u>8321</u> 1:08 AM	Safety Jt. <u>75.00</u>
(D) Initial Shut-In Pressure		<u>110</u> PSI	<u>6258</u>	Circ Sub <input checked="" type="checkbox"/>
(E) Second Initial Flow Pressure		<u>34</u> PSI		Sampler <input checked="" type="checkbox"/>
(F) Second Final Flow Pressure		<u>76</u> PSI		Std. <input checked="" type="checkbox"/>
(G) Final Shut-In Pressure		<u>223</u> PSI	<b>CONFIDENTIAL</b>	
(Q) Final Hydrostatic Mud		<u>2951</u> PSI	<u>30</u> Initial Opening	Ext. Packer _____
			<u>60</u> Initial Shut-In	Shale Packer <input checked="" type="checkbox"/>
			<u>80</u> Final Flow	Ruined Packer <u>260.00 x 2</u>
			<u>120</u> Final Shut-In	Mileage <u>54 mi - 81.00</u>

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Approved By Tom M Williams  
 Our Representative Mike Slomp / Mike Day

T-On Location 11:00 pm  
 T-Started 2:15 AM  
 T-Open 5:55 AM  
 T-Pulled 10:25 AM  
 T-Out 12:00 pm  
 Sub Total: 2426.00  
 Std. By 100.00  
 Acc. Chg:   
 Other:   
 Total: 2526.00 INV