

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Midwestern Exploration Company**

3500 S Boulevard Ste 2B
Edmond OK 73013

ATTN: Tom Williams

19 34 33 .Seward KS

D. Brown 2-19

Start Date: 2006.09.10 @ 12:47:34

End Date: 2006.09.11 @ 00:22:29

Job Ticket #: 25737 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Midwestern Exploration Company

D. Brown 2-19

19 34 33 .Seward KS

DST # 1

Morrow Sand

2006.09.10



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D. Brown 2-19

3500 S Boulevard Ste 2B
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ATTN: Tom Williams

Job Ticket: 25737

DST#: 1

Test Start: 2006.09.10 @ 12:47:34

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:09:29

Time Test Ended: 00:22:29

Test Type: Conventional Bottom Hole

Tester: Alex Brechbuhler Jr.

Unit No: 20

Interval: **6094.00 ft (KB) To 6115.00 ft (KB) (TVD)**

Total Depth: 6115.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2895.00 ft (KB)

2881.00 ft (CF)

KB to GR/CF: 14.00 ft

Serial #: 8166

Inside

Press@RunDepth: 22.74 psig @ 6098.00 ft (KB)

Start Date: 2006.09.10

End Date:

2006.09.11

Start Time: 12:47:34

End Time:

00:22:29

Capacity: 7000.00 psig

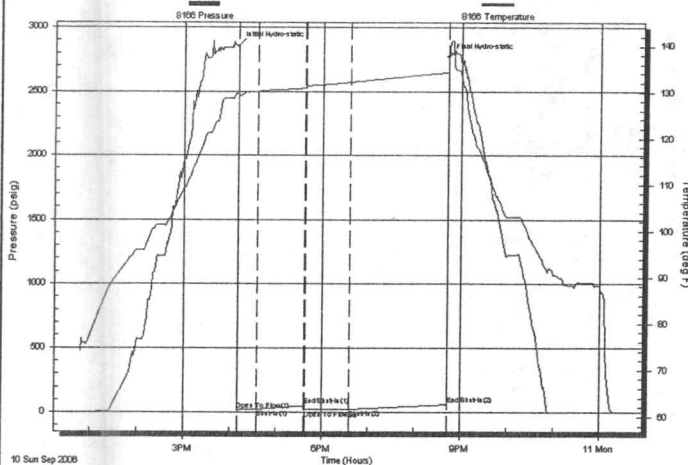
Last Calib.: 1899.12.30

Time On Btm: 2006.09.10 @ 16:08:59

Time Off Btm: 2006.09.10 @ 20:42:28

TEST COMMENT: IF Weak Building Surface Blow 1 inch in 30 min.
ISI No Blow back
FF Weak Surface Blow that Died
FSI No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2856.38	129.85	Initial Hydro-static
1	19.10	129.24	Open To Flow (1)
27	23.44	130.20	Shut-In(1)
88	50.47	130.94	End Shut-In(1)
89	17.48	130.94	Open To Flow (2)
147	22.74	132.20	Shut-In(2)
274	60.49	134.32	End Shut-In(2)
274	2767.87	135.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.05

Gas Rates

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



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TOOL DIAGRAM

Midwestern Exploration Company

D. Brown 2-19

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19 34 33 Seward KS

Job Ticket: 25737

DST#: 1

ATTN: Tom Williams

Test Start: 2006.09.10 @ 12:47:34

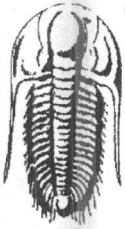
Tool Information

Drill Pipe:	Length: 5715.00 ft	Diameter: 3.80 inches	Volume: 80.17 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: 20000.00 lb
Drill Collar:	Length: 358.00 ft	Diameter: 2.25 inches	Volume: 1.76 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 81.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	6094.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			6073.00	
Hydraulic tool	5.00			6078.00	
Jars	5.00			6083.00	
Safety Joint	2.00			6085.00	
Packer	5.00			6090.00	26.00 Bottom Of Top Packer
Packer	4.00		Inside	6094.00	
Stubb	1.00			6095.00	
Perforations	3.00			6098.00	
Recorder	0.00	8166	Inside	6098.00	
Perforations	14.00			6112.00	
Recorder	0.00	13391	Outside	6112.00	
Bullnose	3.00			6115.00	21.00 Bottom Packers & Anchor

Total Tool Length: 47.00



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FLUID SUMMARY

Midwestern Exploration Company

D. Brown 2-19

3500 S Boulevard Ste 2B
Edmond OK 73013

19 34 33 .Seward KS

Job Ticket: 25737

DST#: 1

ATTN: Tom Williams

Test Start: 2006.09.10 @ 12:47:34

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

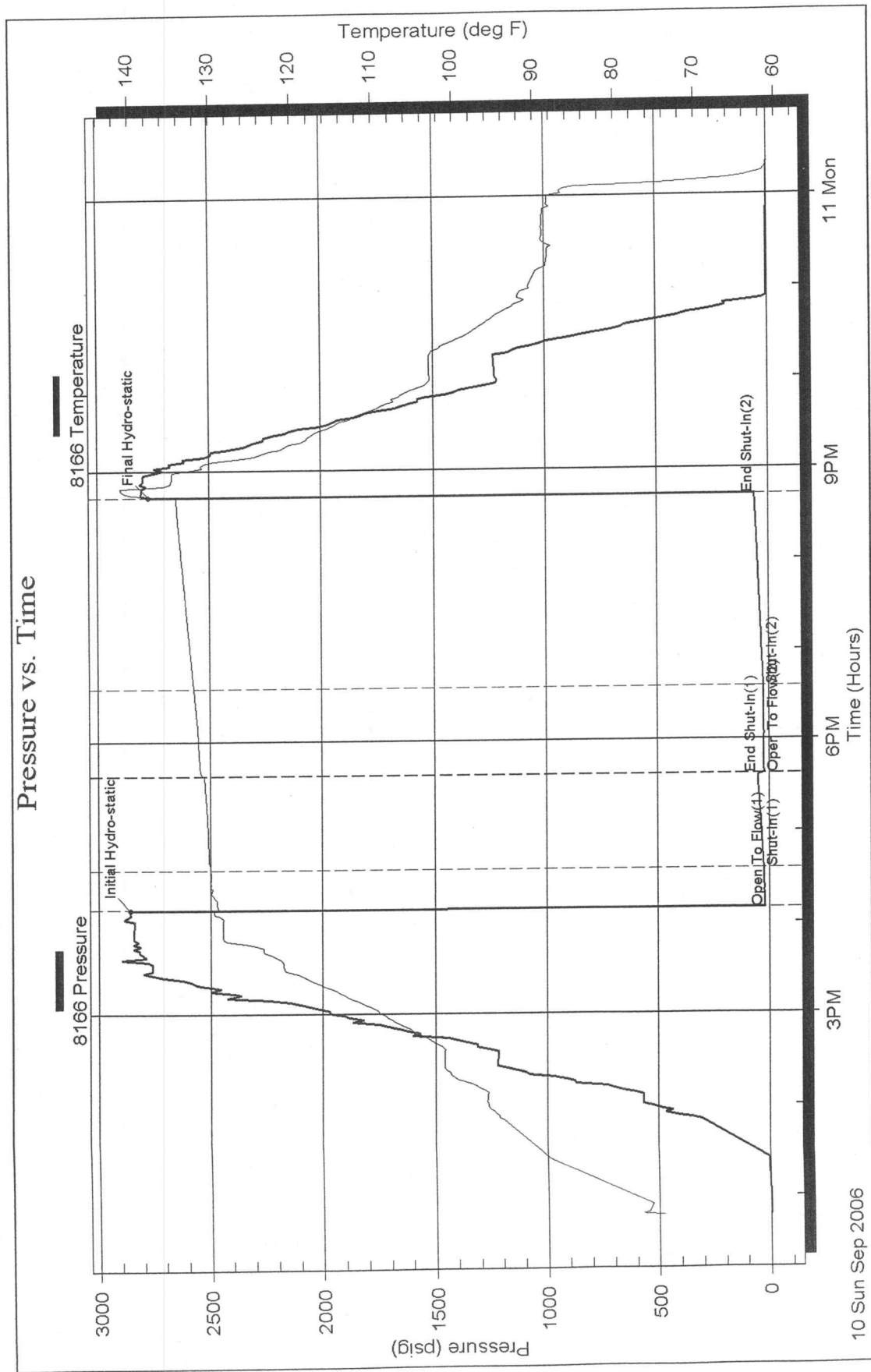
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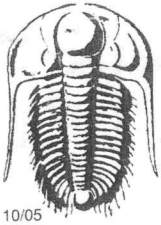
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9241

25737

Test Ticket

Well Name & No. D. Brown 2-19 Test No. 1 Date 9-10-06
 Company Midwestern Exploration Company Zone Tested Morrow Sand
 Address 3500 S. Boulevard Suite 2B Elevation 2895 KB 2887 GL
 Co. Rep / Geo. Tom Williams Rig Beredco 1
 Location: Sec. 19 Twp. 34 Rge. 33 Co. Seward State Ks
 Comment: _____ Release date / time: _____

Interval Tested 6094 to 6115 Initial Str Wt./Lbs. 90K Unseated Str Wt./Lbs. 91K
 Anchor Length 21 Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 120K
 Top Packer Depth 6089 Tool Weight 2K
 Bottom Packer Depth 6094 Hole Size 7 7/8" V Rubber Size 6 3/4" V
 Total Depth 6115 Wt. Pipe Run Ø Drill Collar Run 358.43
 Mud Wt. 8.8 LCM 2 Vis. 45 WL 8.8 Drill Pipe Size 4.5xH Ft. Run _____
 Blow Description _____

Recovery - Total Feet 10 GIP _____ Ft. in DC 10 Ft. in DP _____
 Rec. 10 Feet of Mod %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 _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2855</u> PSI	<u>8166</u>	<u>1400</u> <u>1400</u>
(B) First Initial Flow Pressure		<u>19</u> PSI	(depth) <u>6098</u>	Jars <u>250</u> <u>250</u>
(C) First Final Flow Pressure		<u>23</u> PSI	Recorder No. <u>13761</u>	Safety Jt. <u>75</u> <u>75</u>
(D) Initial Shut-In Pressure		<u>50</u> PSI	(depth) <u>6115</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>17</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>23</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>60</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2809</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>120</u>	Mileage <u>60</u> 75 <u>75</u>

T-On Location 11:50
 T-Started 12:50
 T-Open 4:05
 T-Pulled 8:35
 T-Out _____

Sub Total: _____
 Std. By: _____
 Acc. Chg: \$1800
 Other: _____
 Total: 1800

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Approved By Billy Dougherty
 Our Representative [Signature]

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

