



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Don Fox**

P O Box 446
Chase Ks 67524

ATTN: Don Fox

22-18-9-Rice-Ks

Friedley #2

Start Date: 2005.09.18 @ 04:55:50

End Date: 2005.09.18 @ 14:14:50

Job Ticket #: 22196 DST #: 1

15-159-22471

NW NW NW

4950 FNL 4950 FWL

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

Don Fox

Friedley #2

22-18-9-Rice-Ks

DST # 1

Simpson

2005.09.18



**TRILOBITE
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DRILL STEM TEST REPORT

Don Fox
P O Box 446
Chase Ks 67524
ATTN: Don Fox

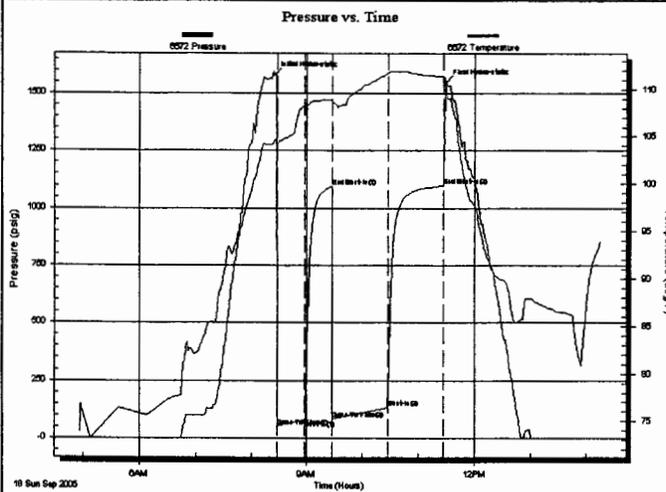
Friedley #2
22-18-9-Rice-Ks
Job Ticket: 22196 **DST#: 1**
Test Start: 2005.09.18 @ 04:55:50

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 08:27:50
Time Test Ended: 14:14:50
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Interval: **3176.00 ft (KB) To 3264.00 ft (KB) (TVD)**
Reference Elevations: 1725.00 ft (KB)
Total Depth: 3264.00 ft (KB) (TVD) 1717.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 131.39 psig @ 3246.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2005.09.18 End Date: 2005.09.18 Last Calib.: 2005.09.18
Start Time: 04:55:51 End Time: 14:14:50 Time On Btrm: 2005.09.18 @ 08:25:20
Time Off Btrm: 2005.09.18 @ 11:29:50

TEST COMMENT: IF-Weak steady surface blow
FF-Weak steady surface blow
Times-30-30-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.02	104.60	Initial Hydro-static
3	51.27	104.01	Open To Flow (1)
33	79.33	108.20	Shut-In(1)
62	1093.99	108.85	End Shut-In(1)
62	83.15	108.58	Open To Flow (2)
122	131.39	111.67	Shut-In(2)
182	1097.81	111.37	End Shut-In(2)
185	1547.35	109.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mdy Wtr	0.89

Gas Rates

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



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TOOL DIAGRAM

Don Fox

Friedley #2

P O Box 446
Chase Ks 67524

22-18-9-Rice-Ks

Job Ticket: 22196

DST#: 1

ATTN: Don Fox

Test Start: 2005.09.18 @ 04:55:50

Tool Information

Drill Pipe:	Length: 2982.00 ft	Diameter: 3.34 inches	Volume: 32.32 bbl	Tool Weight: 1900.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 33.21 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3176.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	117.00 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			3148.00	
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	3.00			3166.00	
Packer	5.00			3171.00	29.00 Bottom Of Top Packer
Packer	5.00			3176.00	
Stubb	1.00			3177.00	
Perforations	5.00			3182.00	
Change Over Sub	1.00			3183.00	
Drill Collar	62.00			3245.00	
Change Over Sub	1.00			3246.00	
Recorder	0.00	6672	Inside	3246.00	
Perforations	15.00			3261.00	
Recorder	0.00	13254	Outside	3261.00	
Bullnose	3.00			3264.00	88.00 Bottom Packers & Anchor
Total Tool Length:	117.00				



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FLUID SUMMARY

Don Fox
P O Box 446
Chase Ks 67524
ATTN: Don Fox

Friedley #2
22-18-9-Rice-Ks
Job Ticket: 22196 **DST#: 1**
Test Start: 2005.09.18 @ 04:55:50

Mud and Cushion Information

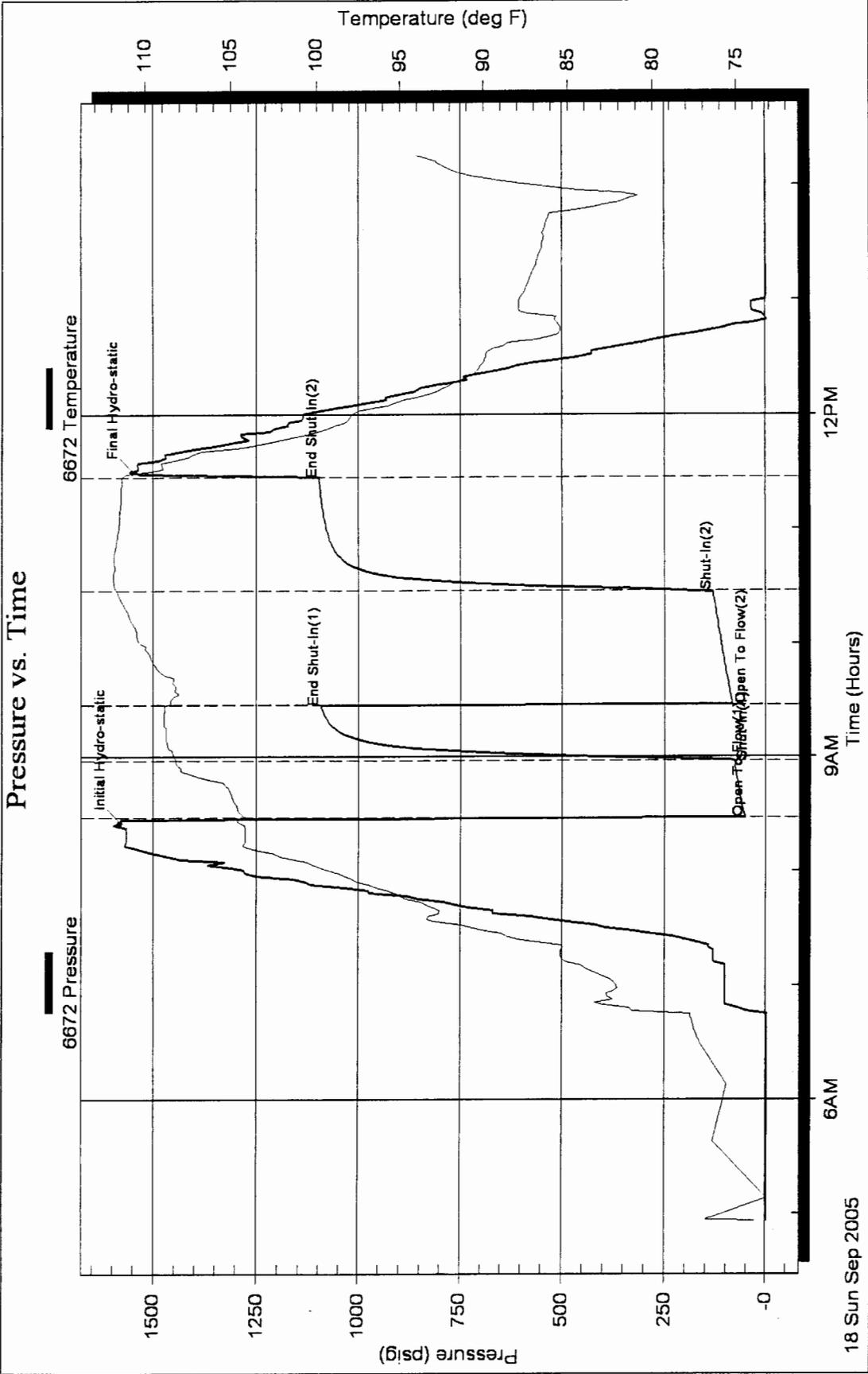
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6600.00 ppm			
Filter Cake: inches			

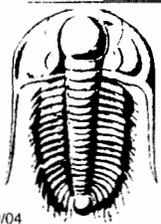
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mdy Wtr	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING INC.

No 22196

P.O. Box 362 • Hays, Kansas 67601

9/04

Test Ticket

Well Name & No. Friedley #2 Test No. 1 Date 9-18-05
 Company Don Fox Zone Tested Simpson Sd
 Address P.O. Box 446 Chase Ks. 67524 Elevation 1725 KB 1717 GL
 Geo. Rep / Geo. Wayne Lebsack Cont. C+G Drlg #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 22 Twp. 18 Rge. 9 Co. Rice State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3176 ——— 3264 Initial Str Wt./Lbs. 69000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 88 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 3171 Tool Weight 1900
 Bottom Packer Depth 3176 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3264 Wt. Pipe Run _____ Drill Collar Run 186
 Mud Wt. 9.1 LCM _____ Vis. 40 WL 9.6 Drill Pipe Size 4"FH Ft. Run 2982
 Flow Description I.F. weak steady surface blow

I.F. weak steady surface blow

Recovery - Total Feet 180 GIP _____ Ft. in DC 180 Ft. in DP _____
 c. 180 Feet of mdy wtr %gas _____ %oil _____ %water _____ %mud _____
 c. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 c. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 c. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 c. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 API 111 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 Chlorides _____ ppm Recovery _____ Chlorides 6600 ppm System

	AK-1	Alpine	Recorder No.	Test
Initial Hydrostatic Mud	<u>1080</u>	PSI	<u>6672</u>	<u>1000</u>
First Initial Flow Pressure	<u>51</u>	PSI	(depth) <u>3246</u>	Jars <u>X</u> <u>200</u>
First Final Flow Pressure	<u>79</u>	PSI	Recorder No. <u>13254</u>	Safety Jt. <u>X</u> <u>50</u>
Initial Shut-In Pressure	<u>1093</u>	PSI	(depth) <u>3261</u>	Circ Sub _____
Second Initial Flow Pressure	<u>83</u>	PSI	Recorder No. _____	Sampler _____
Second Final Flow Pressure	<u>131</u>	PSI	(depth) _____	Straddle _____
Final Shut-In Pressure	<u>1097</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
Final Hydrostatic Mud	<u>1547</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By _____
 Representative Don Bangs

Final Flow	<u>60</u>	Ruined Packer _____
Final Shut-In	<u>60</u>	Mileage <u>170</u> <u>170</u>
T-On Location	<u>04:00</u>	Sub Total: <u>1420</u>
T-Started	<u>04:55</u>	Std. By <u>2 1/4</u> <u>112.50</u>
T-Open	<u>08:25</u>	Other _____
T-Pulled	<u>11:25</u>	Total: <u>8153.00</u>
T-Out	<u>14:14</u>	

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

