

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

PO Box 352
Russell KS 67665

ATTN: Randy Kilian

12-9s-22w-Graham

Buss F #2

Start Date: 2006.03.30 @ 04:17:29

End Date: 2006.03.30 @ 10:30:14

Job Ticket #: 23715 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer, Inc.

Buss F #2

12-9s-22w-Graham

DST # 1

Arbuckle

2006.03.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc.

Buss F #2

PO Box 352
Russell KS 67665

12-9s-22w-Graham

Job Ticket: 23715

DST#: 1

ATTN: Randy Kilian

Test Start: 2006.03.30 @ 04:17:29

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:59

Time Test Ended: 10:30:14

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 32

Interval: **3775.00 ft (KB) To 3791.00 ft (KB) (TVD)**

Total Depth: 3846.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2207.00 ft (KB)

2202.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 32.64 psig @ 3777.00 ft (KB)

Start Date: 2006.03.30

End Date:

2006.03.30

Capacity: 7000.00 psig

Last Calib.: 2006.03.30

Start Time: 04:17:31

End Time:

10:30:14

Time On Btm: 2006.03.30 @ 05:46:44

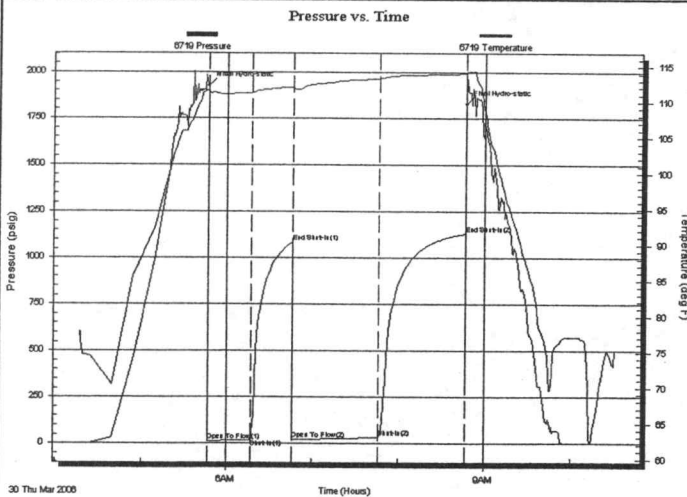
Time Off Btm: 2006.03.30 @ 08:46:59

TEST COMMENT: IFP-Weak Blow ,Built to 3/4"

ISI-Dead

FFP-Dead

FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.89	111.66	Initial Hydro-static
1	11.47	111.24	Open To Flow (1)
31	20.10	111.29	Shut-In(1)
60	1084.13	112.11	End Shut-In(1)
60	20.29	111.86	Open To Flow (2)
120	32.64	113.33	Shut-In(2)
180	1130.79	114.03	End Shut-In(2)
181	1828.85	114.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud W/Oil Spots in Tool	0.12

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Buss F #2

PO Box 352
Russell KS 67665

12-9s-22w-Graham

Job Ticket: 23715

DST#: 1

ATTN: Randy Kilian

Test Start: 2006.03.30 @ 04:17:29

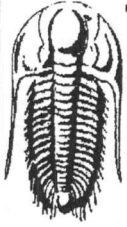
Tool Information

Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	44000.00 lb
			Total Volume: 51.91 bbl	Tool Chased:	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3775.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	3791.00 ft				
Interval between Packers:	16.00 ft				
Tool Length:	92.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3755.00	
Shut In Tool	5.00			3760.00	
Hydraulic tool	5.00			3765.00	
Packer	5.00			3770.00	21.00 Bottom Of Top Packer
Packer	5.00			3775.00	
Stubb	1.00			3776.00	
Perforations	1.00			3777.00	
Recorder	0.00	6719	Inside	3777.00	
Perforations	10.00			3787.00	
Blank Off Sub	1.00			3788.00	
Blank Spacing	3.00			3791.00	16.00 Tool Interval
Packer	1.00			3792.00	
Stubb	1.00			3793.00	
Perforations	15.00			3808.00	
Change Over Sub	1.00			3809.00	
Recorder	0.00	13221	Below	3809.00	
Blank Spacing	30.00			3839.00	
Change Over Sub	1.00			3840.00	
Perforations	3.00			3843.00	
Bullnose	3.00			3846.00	55.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Buss F #2

PO Box 352
Russell KS 67665

12-9s-22w-Graham

Job Ticket: 23715

DST#: 1

ATTN: Randy Kilian

Test Start: 2006.03.30 @ 04:17:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.39 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud W/Oil Spots in Tool	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

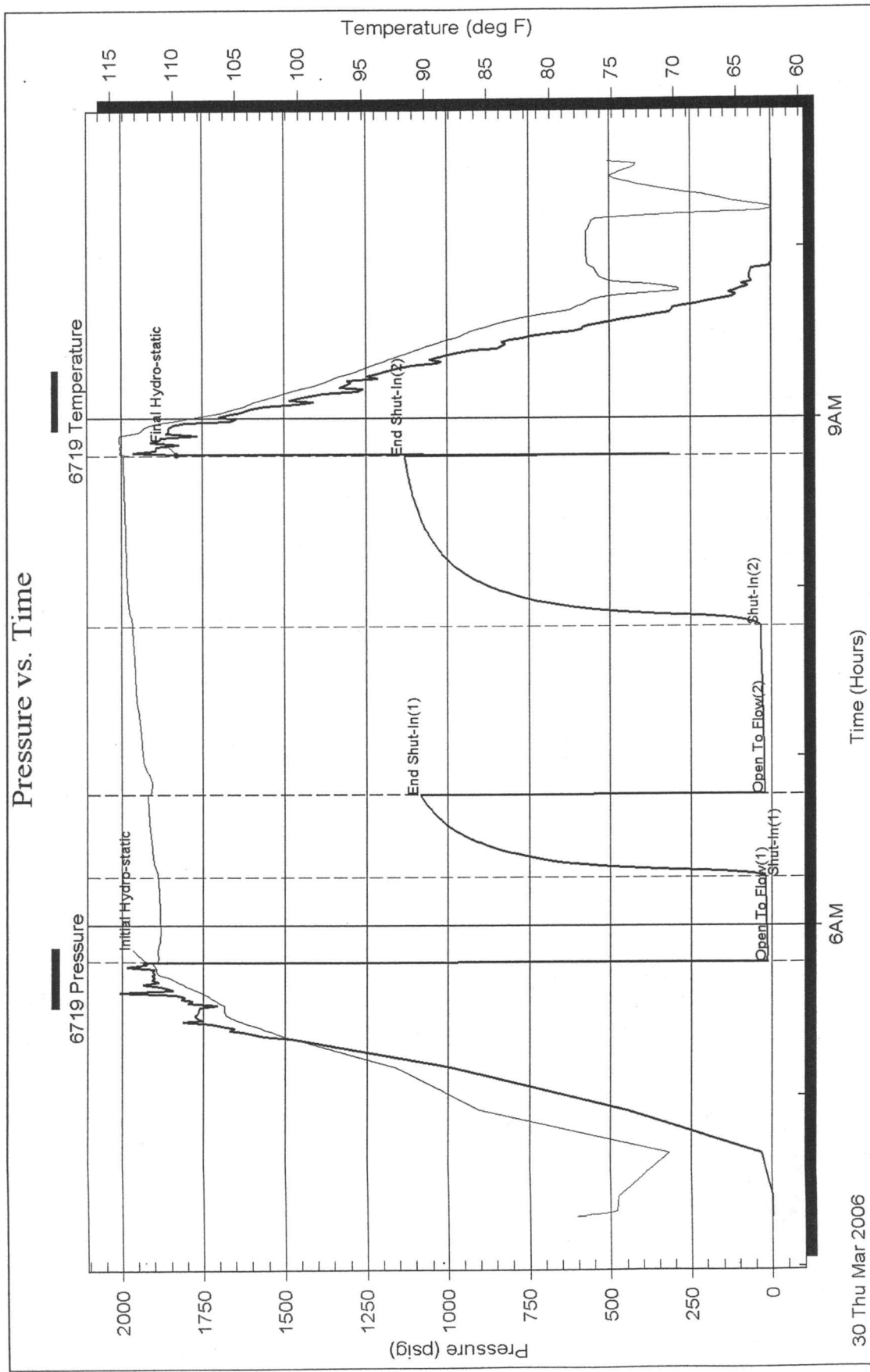
Serial #:

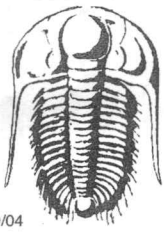
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8577

No 23715

9/04

Test Ticket

Well Name & No. Buss F # 2 Test No. 1 Date 3-30-06
 Company John O. Farmer Zone Tested Arbuckle
 Address PO Box 352, Russell, KS. 67665 Elevation 2207 KB 2202 GL
 Co. Rep / Geo. Randy Kilian Cont. WW # 4 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 12 Twp. 9s Rge. 22w Co. Graham State KS
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3775 - 3791 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 16' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 44,000
 Top Packer Depth 3770 Tool Weight 2200
 Bottom Packer Depth 3775 straddle @ 3791 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3846 Wt. Pipe Run 0 Drill Collar Run 121
 Mud Wt. 9.5 LCM Tr Vis. 53 WL 7.4 Drill Pipe Size 4 1/2 XH Ft. Run 3658
 Blow Description I FP - Weak Blow, Building to 3/4"
ISI - Dead.
FFP - Dead
FSI - Dead

Recovery - Total Feet 25' GIP _____ Ft. in DC 25' Ft. in DP _____
 Rec. 25' Feet of Mud w/oil spots %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of in tool %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 114 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1,500 ppm System

	AK-1	Alpine	Recorder No.	
(A) Initial Hydrostatic Mud		<u>1924</u> PSI	<u>6719</u>	<u>Test</u>
(B) First Initial Flow Pressure		<u>11</u> PSI	(depth) <u>3777</u>	Jars _____
(C) First Final Flow Pressure		<u>20</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1084</u> PSI	(depth) <u>3808</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>20</u> PSI	Recorder No. <u>13252</u>	Sampler _____
(F) Second Final Flow Pressure		<u>33</u> PSI	(depth) <u>3779</u>	<u>Straddle</u>
(G) Final Shut-In Pressure		<u>1131</u> PSI	Initial Opening <u>30</u>	<u>Ext. Packer</u>
(Q) Final Hydrostatic Mud		<u>1963</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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.

Approved By _____

Our Representative J. Mc Lemou

Final Flow	<u>60</u>	Ruined Packer _____
Final Shut-In	<u>60</u>	Mileage <u>106.5</u>
T-On Location	<u>2:30</u>	Sub Total: <u>1082.50</u>
T-Started	<u>4:17</u>	Std. By _____
T-Open	<u>6:46</u>	Other _____
T-Pulled	<u>9:46</u>	Total: _____
T-Out	<u>10:30</u>	

CHART PAGE

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

