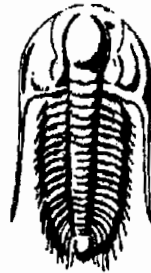


15-065-23098

2-9s-22w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

P.O.Box 352
Russell, Ks. 67665

ATTN: John O. Farmer IV

2-9s-22w

Buss-Billips # 1

Start Date: 2005.09.29 @ 17:14:26

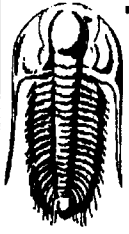
End Date: 2005.09.29 @ 23:55:26

Job Ticket #: 22260 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22260

DST#: 1

ATTN: John O.Farmer IV

Test Start: 2005.09.29 @ 17:14:26

GENERAL INFORMATION:

Formation: **L.Kc.-H-K**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 18:53:26

Time Test Ended: 23:55:26

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3590.00 ft (KB) To 3675.00 ft (KB) (TVD)**

Reference Elevations: **2228.00 ft (KB)**

Total Depth: **3675.00 ft (KB) (TVD)**

2223.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: 8018 **Inside**

Press@RunDepth: **115.02 psig @ 3595.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.09.29**

End Date: **2005.09.29**

Last Calib.: **2005.09.29**

Start Time: **17:14:31**

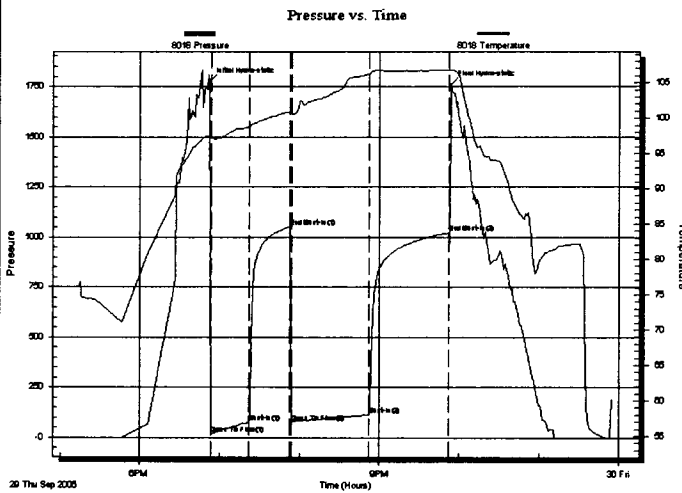
End Time: **23:55:25**

Time On Btm: **2005.09.29 @ 18:52:26**

Time Off Btm: **2005.09.29 @ 21:53:26**

TEST COMMENT: **F-Weak to fair built to 5" in.**
FF-Weak to fair built to 7" in.

ISI-Dead
FSI-Dead



PRESSURE SUMMARY

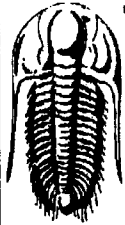
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.38	97.57	Initial Hydro-static
1	18.32	97.17	Open To Flow (1)
30	74.96	98.78	Shut-In(1)
60	1051.04	100.90	End Shut-In(1)
61	77.25	100.62	Open To Flow (2)
120	115.02	106.25	Shut-In(2)
180	1021.40	106.78	End Shut-In(2)
181	1757.98	106.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Watery Mud	1.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22260

DST#: 1

ATTN: John O.Farmer IV

Test Start: 2005.09.29 @ 17:14:26

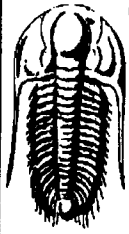
Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight: 2000.00 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: 55000.00 lb
			<u>Total Volume: 49.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3590.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 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			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Packer	4.00			3585.00	20.00 Bottom Of Top Packer
Packer	5.00			3590.00	
Stubb	1.00			3591.00	
Perforations	3.00			3594.00	
Change Over Sub	1.00			3595.00	
Recorder	0.00	8018	Inside	3595.00	
Blank Spacing	61.00			3656.00	
Change Over Sub	1.00			3657.00	
Recorder	0.00	11084	Outside	3657.00	
Perforations	15.00			3672.00	
Bullnose	3.00			3675.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22260

DST#: 1

ATTN: John O. Farmer IV

Test Start: 2005.09.29 @ 17:14:26

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:

22000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 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
210.00	Watery Mud	1.843

Total Length: 210.00 ft

Total Volume: 1.843 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

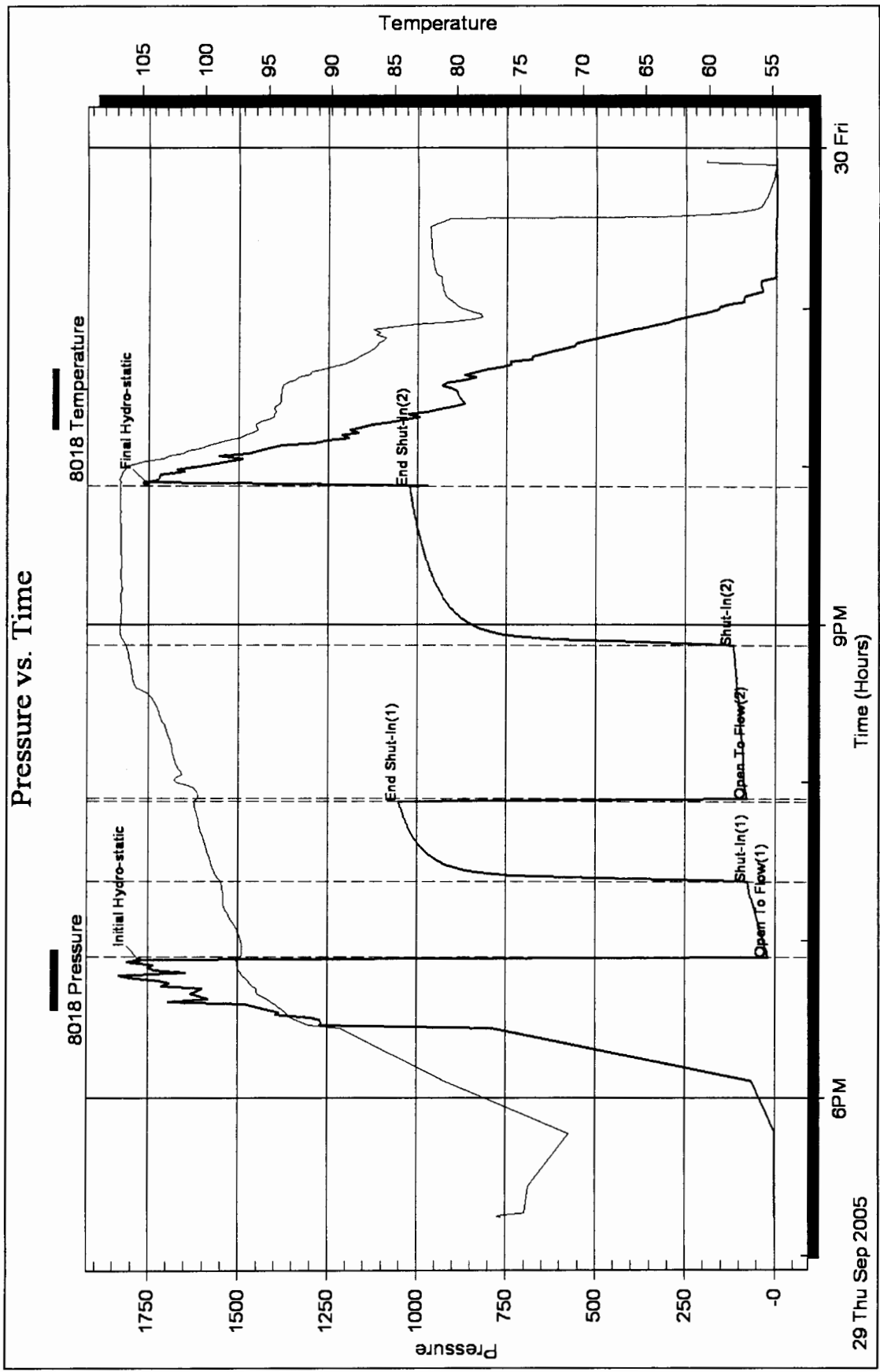
DST Test Number: 1

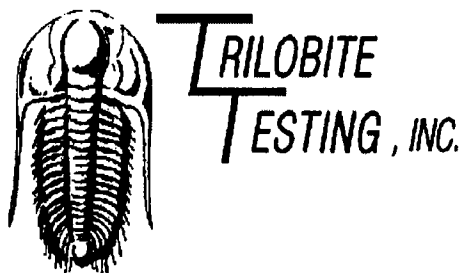
2-9s-22w

John O Farmer, Inc.

Inside

Serial #: 8018





DRILL STEM TEST REPORT

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

P.O.Box 352
Russell, Ks. 67665

ATTN: John O. Farmer IV

2-9s-22w

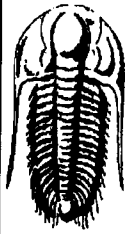
Buss-Billips # 1

Start Date: 2005.09.30 @ 21:07:05

End Date: 2005.10.01 @ 04:08:35

Job Ticket #: 22261 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22261

DST#: 2

ATTN: John O.Farmer IV

Test Start: 2005.09.30 @ 21:07:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:31:35

Time Test Ended: 04:08:35

Test Type: Conventional Bottom Hble

Tester: John Schmidt

Unit No: 31

Interval: **3809.00 ft (KB) To 3842.00 ft (KB) (TVD)**

Reference Elevations: 2228.00 ft (KB)

Total Depth: 3885.00 ft (KB) (TVD)

2223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 1150.52 psig @ 3818.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.09.30

End Date: 2005.10.01

Last Calib.: 2005.10.01

Start Time: 21:07:10

End Time: 04:08:34

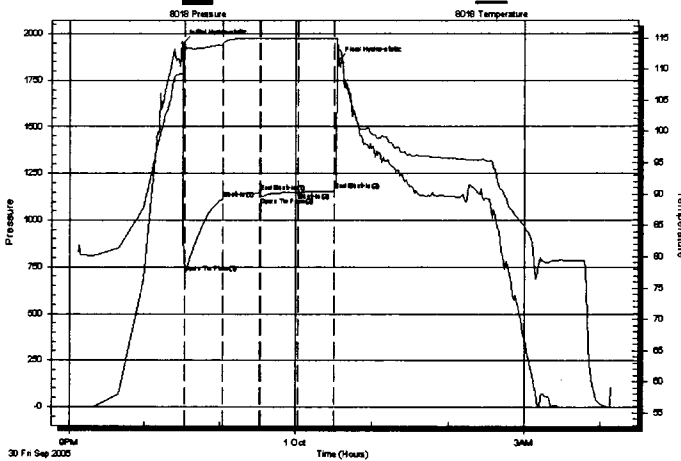
Time On Btm: 2005.09.30 @ 22:30:05

Time Off Btm: 2005.10.01 @ 00:33:35

TEST COMMENT: F-Strong B.O.B. 1/2 min.
FF-Strong B.O.B. 1 min.

ISI-Blow back built 2" in.
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.13	109.32	Initial Hydro-static
2	716.00	113.08	Open To Flow (1)
32	1111.84	113.96	Shut-In(1)
62	1146.68	114.96	End Shut-In(1)
62	1122.53	114.95	Open To Flow (2)
92	1150.52	114.95	Shut-In(2)
120	1157.74	114.89	End Shut-In(2)
124	1856.12	113.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2885.00	Clean oil	39.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22261

DST#: 2

ATTN: John O.Farmer IV

Test Start: 2005.09.30 @ 21:07:05

Tool Information

Drill Pipe:	Length: 3698.00 ft	Diameter: 3.80 inches	Volume: 51.87 bbl	Tool Weight: 2000.00 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: 80000.00 lb
			Total Volume: 52.47 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3809.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	96.00 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			3790.00	
Shut In Tool	5.00			3795.00	
Hydraulic tool	5.00			3800.00	
Packer	4.00			3804.00	20.00 Bottom Of Top Packer
Packer	5.00			3809.00	
Stubb	1.00			3810.00	
Perforations	8.00			3818.00	
Recorder	0.00	8018	Inside	3818.00	
Perforations	23.00			3841.00	
Recorder	0.00	24174	Outside	3841.00	
Blank Off Sub	1.00			3842.00	76.00 Tool Interval
Packer	0.00			3842.00	
Stubb	1.00			3843.00	
Perforations	4.00			3847.00	
Change Over Sub	1.00			3848.00	
Blank Spacing	31.00			3879.00	
Change Over Sub	1.00			3880.00	
Perforations	2.00			3882.00	
Recorder	0.00	13308	Below	3882.00	
Bullnose	3.00			3885.00	1000095.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Buss-Billips # 1

P.O.Box 352
Russell, Ks. 67665

2-9s-22w

Job Ticket: 22261

DST#: 2

ATTN: John O.Farmer IV

Test Start: 2005.09.30 @ 21:07:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 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
2885.00	Clean oil	39.367

Total Length: 2885.00 ft

Total Volume: 39.367 bbl

Num Fluid Samples: 0

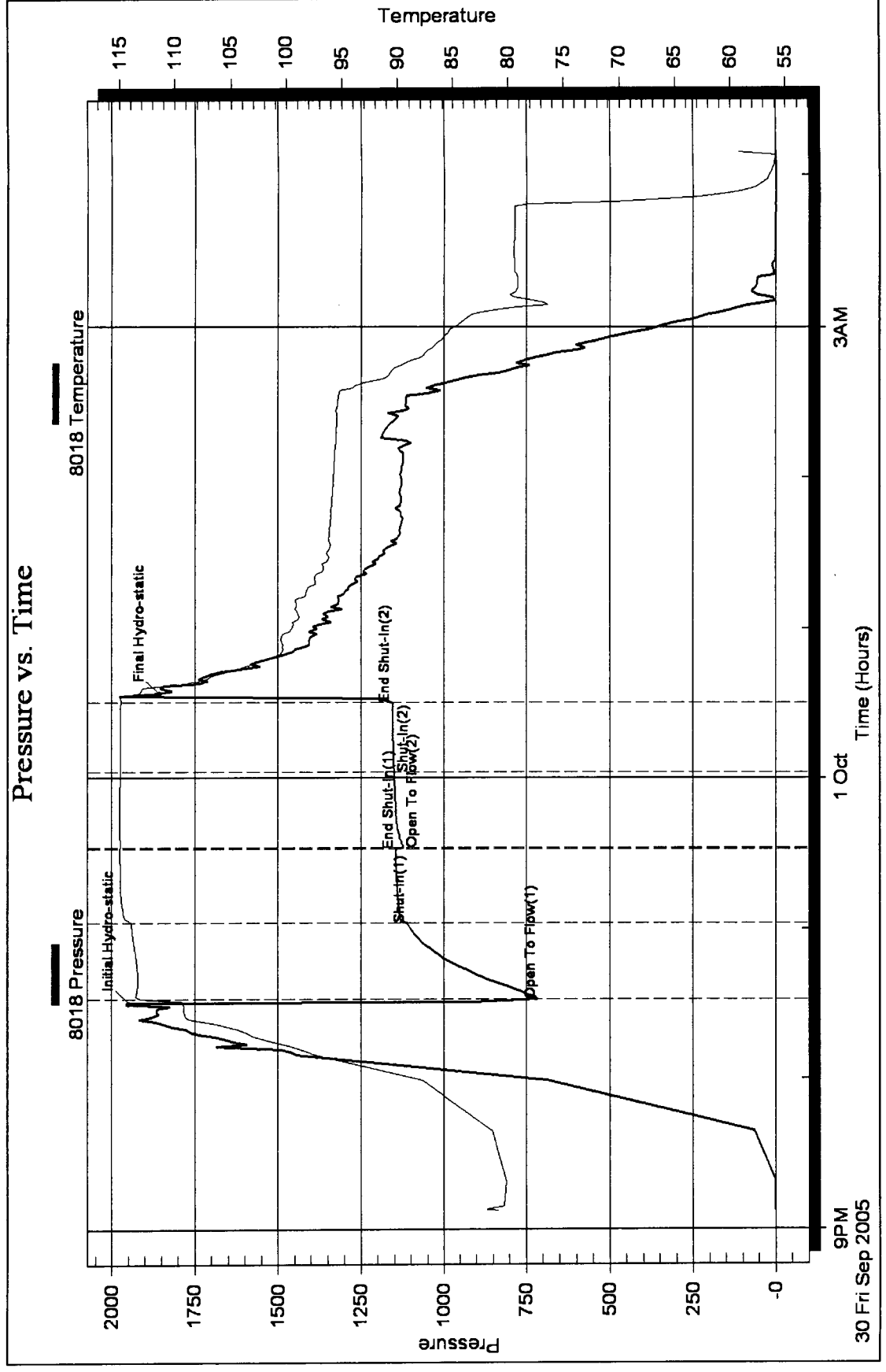
Num Gas Bombs: 0

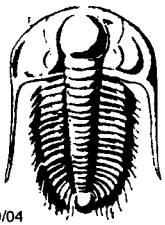
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TNN
7952

No 22260

Test Ticket

Well Name & No. BUSS-BILLIPS #1 Test No. #1 Date 9-29-05
 Company JOHN O. FARMER, INC. Zone Tested L, Kc. - H to K
 Address P.O. Box 352, RUSSELL, KS, 67665 Elevation 2228 KB 2223 GL
 Co. Rep / Geo. BRAD HUTCHISON Cont. WW #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 9S Rge. 22W Co. GRAHAM State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3590 To 3675 Initial Str Wt./Lbs. 45,000 Unseated Str Wt/Lbs. 46,000
 Anchor Length 85' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3585' Tool Weight 2,000
 Bottom Packer Depth 3590 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3675 Wt. Pipe Run 0 Drill Collar Run 121
 Mud Wt. 8.9 LCM 1# Vis. 45 WL 6.4 Drill Pipe Size 4 1/2 XH Ft. Run 3454
 Blow Description FF-WEAK TO FAIR BUILT TO 5" IN. FSI-DEAD
PF-WEAK TO FAIR BUILT TO 7" IN. FSI-DEAD

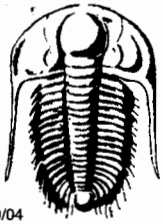
Recovery - Total Feet 210 GIP 0 Ft. in DC 121 Ft. in DP 89
 Rec. 210 Feet of WATERY MUD %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 106 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 139 @ 59 °F Chlorides 22,000 ppm Recovery _____ Chlorides 2,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1774 PSI	8018	B, HOLE 1000
(B) First Initial Flow Pressure		18 PSI	(depth) 3595	Jars _____
(C) First Final Flow Pressure		74 PSI	Recorder No. 11084	Safety Jt. _____
(D) Initial Shut-In Pressure		1051 PSI	(depth) 3657	Circ Sub _____
(E) Second Initial Flow Pressure		77 PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		115 PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		1021 PSI	Initial Opening 30	Ext. Packer _____
(Q) Final Hydrostatic Mud		1757 PSI	Initial Shut-In 30	Shale Packer _____
			Final Flow 60	Ruined Packer _____
			Final Shut-In 60	Mileage <u>RT. 104</u> <u>104</u>
			T-On Location 15:30	Sub Total: <u>1104</u>
			T-Started 17:14	Std. By <u>1/2 hr</u> <u>25</u>
			T-Open 18:53	Other _____
			T-Pulled 21:53	Total: <u>\$1129</u>
			T-Out 23:55	

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 Brad Hutchison

Our Representative John J. Schmidt



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22261

Test Ticket

Well Name & No. BUSS-BILLIPS #1 Test No. #2 Date 9-30-05
 Company JOHN O FARMER, INC. Zone Tested ARBUCKLE
 Address _____ Elevation 2228 KB 2223 GL _____
 Co. Rep / Geo. BRAD HUTCHISON Cont. WW #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 9S Rge. 22N Co. GRAHAM State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3809 TO 3842 Initial Str Wt./Lbs. 45,000 Unseated Str Wt/Lbs. 55,000
 Anchor Length 33' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 3804 & 3809 Tool Weight 2500
 Bottom Packer Depth 3842 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3885 Wt. Pipe Run 0 Drill Collar Run 121
 Mud Wt. 9.3 LCM 1# Vis. 46 WL 10.6 Drill Pipe Size 4 1/2 XH Ft. Run 3698
 Blow Description IF-STRONG B.O.B. 1/2 MIN. ISI-BLOW BACK BUILT 2" IN.
FF-STRONG B.O.B. 1-MIN. FSI-DEAD

Recovery - Total Feet 2885 GIP 0 Ft. in DC 121 Ft. in DP 2764
 Rec. 2885 Feet of CLEAN OIL %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 114 °F Gravity 21 °API D @ 80 °F Corrected Gravity 19 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1948</u> PSI	<u>8018</u>	<u>STRADDLE 1000</u>
(B) First Initial Flow Pressure		<u>716</u> PSI	(depth) <u>3818</u>	Jars _____
(C) First Final Flow Pressure		<u>1111</u> PSI	Recorder No. <u>24174</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1146</u> PSI	(depth) <u>3841</u>	Circ Sub <u>35</u>
(E) Second Initial Flow Pressure		<u>1122</u> PSI	Recorder No. <u>13308</u>	Sampler _____
(F) Second Final Flow Pressure		<u>1150</u> PSI	(depth) <u>3882</u>	Straddle <u>250</u>
(G) Final Shut-In Pressure		<u>1157</u> PSI	Initial Opening <u>30</u>	Ext. Packer <u>150</u>
(Q) Final Hydrostatic Mud		<u>1856</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By Brent

Our Representative John Schmidt

Final Flow 30 Ruined Packer _____
 Final Shut-In 30 Mileage RT. 104 104
 T-On Location 19:30 Sub Total: 1539
 T-Started 21:07 Std. By 1/2 hr
 T-Open 22:31 Other _____
 T-Pulled 00:33 Total: \$1564
 T-Out 04:08

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

