

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **John O Farmer Inc**

**ORIGINAL**  
P O Box 352  
Russell Ks 67665

**CONFIDENTIAL KCC**  
ATTN: John O Farmer IV  
M/R 01 2003

**18-13s-17w Ellis Ks**

**Alice Polifka #1**  
**CONFIDENTIAL**

Start Date: 2003.01.06 @ 09:34:39

End Date: 2003.01.06 @ 16:02:08

Job Ticket #: 16729                      DST #: 1

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

John O Farmer Inc


Alice Polifka #1

18-13s-17w Ellis Ks

DST # 1

LKC

2003.01.06

 <p><b>TRILOBITE TESTING, INC.</b></p>	<b>DRILL STEM TEST REPORT</b>	
	John O Farmer Inc  P O Box 352 Russell Ks 67665  ATTN: John O Farmer IV	Alice Polifka #1  18-13s-17w Ellis Ks Job Ticket: 16729 <b>DST#: 1</b>  Test Start: 2003.01.06 @ 09:34:39

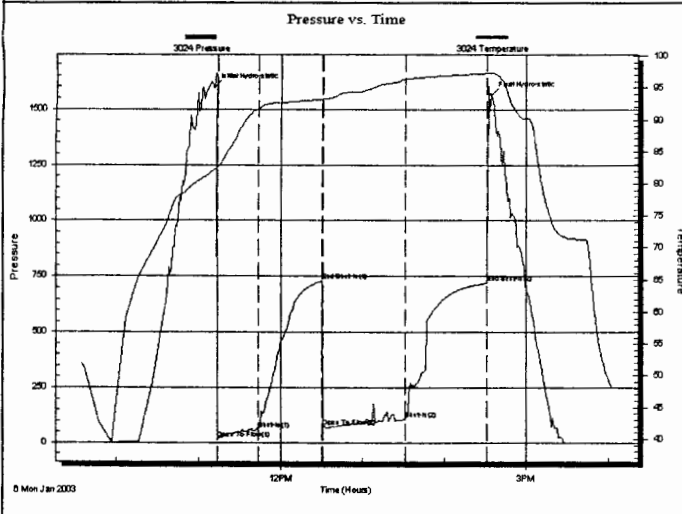
**GENERAL INFORMATION:**

Formation: <b>LKC</b>	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 11:13:38	Unit No: 16
Time Test Ended: 16:02:08	Reference Elevations: 2096.00 ft (KB)
Interval: <b>3367.00 ft (KB) To 3485.00 ft (KB) (TVD)</b>	2088.00 ft (CF)
Total Depth: 3485.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches Hole Condition: Fair	

KOL  
MAR 03 2003  
CONFIDENTIAL

<b>Serial #: 3024</b>	<b>Inside</b>		
Press@RunDepth: 108.59 psig @ 3369.01 ft (KB)	Capacity: 7000.00 psig		
Start Date: 2003.01.06	End Date: 2003.01.06	Last Calib.: 2003.01.06	
Start Time: 09:34:39	End Time: 16:02:08	Time On Btm: 2003.01.06 @ 11:11:08	
		Time Off Btm: 2003.01.06 @ 14:34:08	

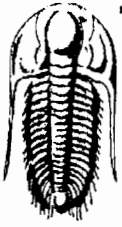
**TEST COMMENT:** FFP-w k to fr bl 1/2" to 6 1/4" bl  
 FFP-w k bl thru-out 1/4" to 1/2" bl  
 Times 30-45-60-60  
 no bl on shut-in



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.89	82.11	Initial Hydro-static
3	18.02	82.55	Open To Flow (1)
33	59.60	91.79	Shut-In(1)
79	729.19	93.13	End Shut-In(1)
80	74.14	93.19	Open To Flow (2)
140	108.59	96.31	Shut-In(2)
200	720.22	97.25	End Shut-In(2)
203	1563.71	97.32	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
125.00	SO&GCM 1%oil 3%gas 96%mud	1.75
60.00	O&GCM 10%oil 5%gas 85%mud	0.84
0.00	GIP	0.00

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16729

**DST#: 1**

ATTN: John O Farmer IV

Test Start: 2003.01.06 @ 09:34:39

**Tool Information**

Drill Pipe:	Length: 3352.00 ft	Diameter: 3.80 inches	Volume: 47.02 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3367.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.02 ft			
Tool Length:	139.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:	KOC 01/14/2003 CONFIDENTIAL			

**Tool Description                      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Change Over Sub	1.00			3347.00	
Shut In Tool	5.00			3352.00	
Hydraulic tool	5.00			3357.00	
Packer	5.00			3362.00	21.00      Bottom Of Top Packer
Packer	5.00			3367.00	
Stubb	1.00			3368.00	
Change Over Sub	1.00			3369.00	
Recorder	0.01	3024	Inside	3369.01	
Blank Spacing	92.00			3461.01	
Change Over Sub	1.00			3462.01	
Perforations	20.00			3482.01	
Recorder	0.01	11085	Outside	3482.02	
Bullnose	3.00			3485.02	118.02      Bottom Packers & Anchor

**Total Tool Length: 139.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16729

**DST#: 1**

ATTN: John O Farmer IV

Test Start: 2003.01.06 @ 09:34:39

**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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.71 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
125.00	SO&GCM 1%oil 3%gas 96%mud	1.753
60.00	O&GCM 10%oil 5%gas 85%mud	0.842
0.00	GIP	0.000

Total Length: 185.00 ft      Total Volume: 2.595 bbl

Num Fluid Samples: 0

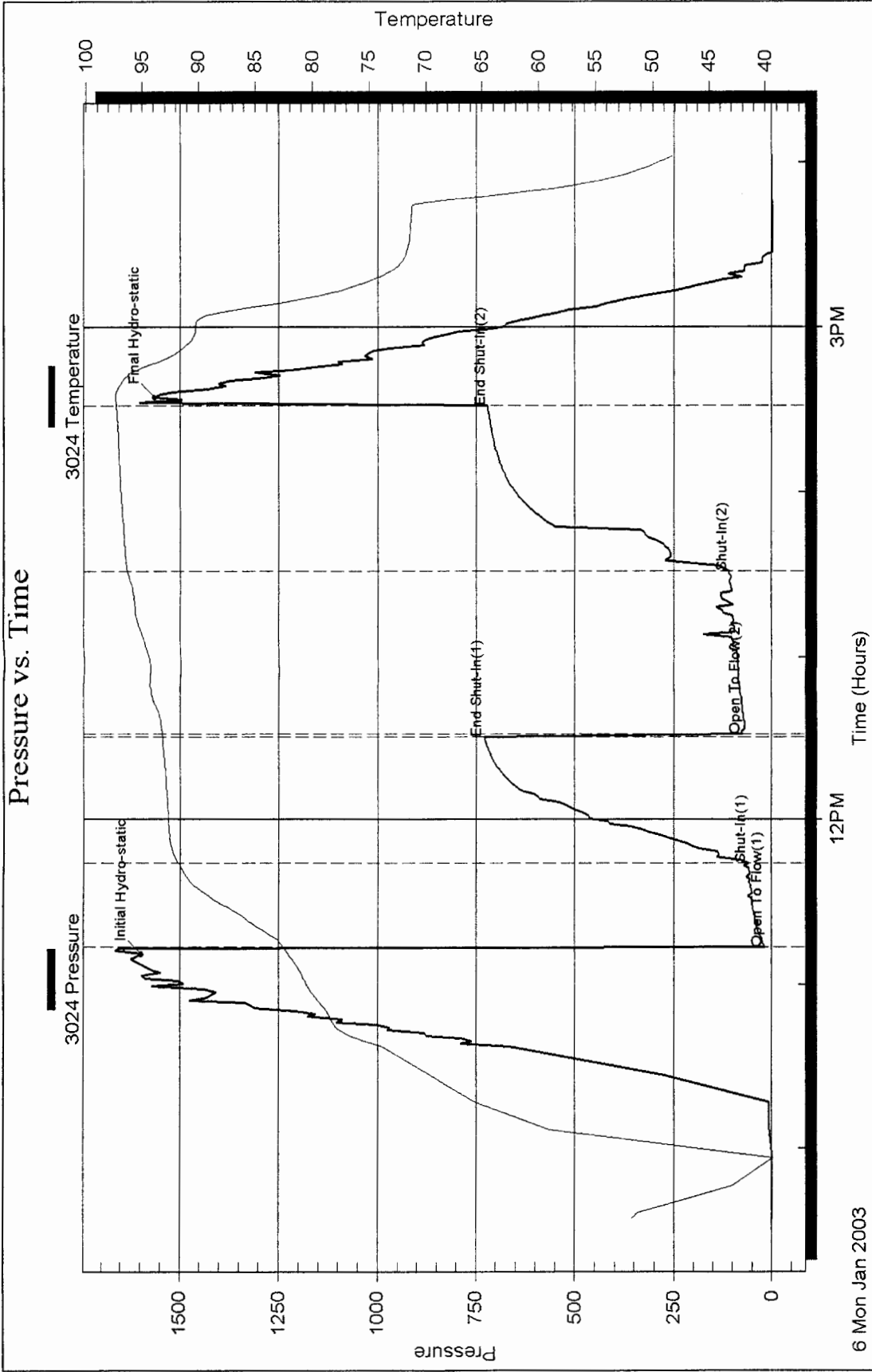
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



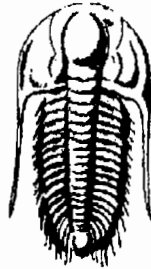
6 Mon Jan 2003

12PM

3PM

Time (Hours)





**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

**18-13s-17w Ellis Ks**

**Alice Polifka #1**

Start Date: 2003.01.07 @ 01:27:10

End Date: 2003.01.07 @ 08:26:09

Job Ticket #: 16730                      DST #: 2

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

John O Farmer Inc

Alice Polifka #1

18-13s-17w Ellis Ks

DST # 2

LKC

2003.01.07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16730

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.01.07 @ 01:27:10

## GENERAL INFORMATION:

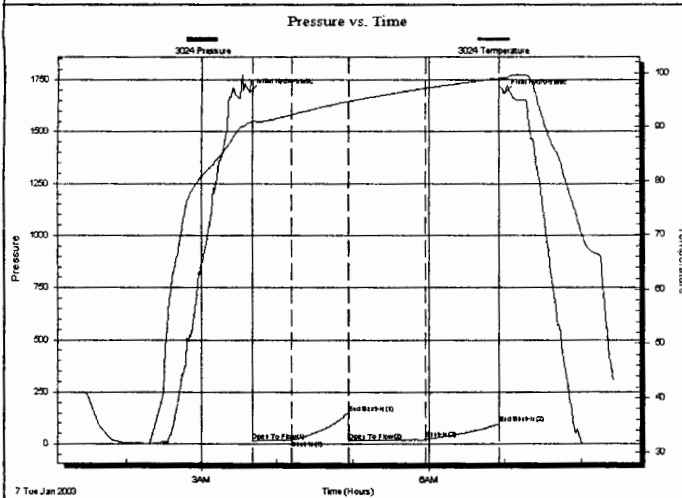
Formation: **LKC**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 03:41:09 Tester: Ray Schwager  
 Time Test Ended: 08:26:09 Unit No: 16  
 Interval: **3495.00 ft (KB) To 3597.00 ft (KB) (TVD)** Reference Elevations: 2096.00 ft (KB)  
 Total Depth: 3597.00 ft (KB) (TVD) 2088.00 ft (CF)  
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 3024

Inside

Press@RunDepth: 21.15 psig @ 3503.01 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2003.01.07 End Date: 2003.01.07 Last Calib.: 2003.01.07  
 Start Time: 01:27:10 End Time: 08:26:09 Time On Btm: 2003.01.07 @ 03:38:39  
 Time Off Btm: 2003.01.07 @ 06:59:39

TEST COMMENT: IFP-w k bl thru-out 1/2" bl  
 FFP-w k bl thru-out 1/2" to 1" bl  
 Times 30-45-60-60  
 no bl on shut-in



## PRESSURE SUMMARY

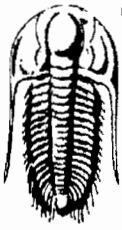
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.44	90.75	Initial Hydro-static
3	14.94	91.00	Open To Flow (1)
33	18.77	92.21	Shut-In(1)
78	149.20	94.67	End Shut-In(1)
78	14.52	94.70	Open To Flow (2)
138	21.15	97.11	Shut-In(2)
197	94.99	98.95	End Shut-In(2)
201	1688.04	99.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 10%O 90%M	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16730

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.01.07 @ 01:27:10

### Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3495.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.02 ft			
Tool Length:	123.02 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			3475.00	
Shut In Tool	5.00			3480.00	
Hydraulic tool	5.00			3485.00	
Packer	5.00			3490.00	21.00 Bottom Of Top Packer
Packer	5.00			3495.00	
Stubb	1.00			3496.00	
Perforations	6.00			3502.00	
Change Over Sub	1.00			3503.00	
Recorder	0.01	3024	Inside	3503.01	
Blank Spacing	61.00			3564.01	
Change Over Sub	1.00			3565.01	
Perforations	29.00			3594.01	
Recorder	0.01	11085	Outside	3594.02	
Bullnose	3.00			3597.02	102.02 Bottom Packers & Anchor

**Total Tool Length: 123.02**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16730

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.01.07 @ 01:27:10

**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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.73 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
15.00	OCM 10%O 90%M	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

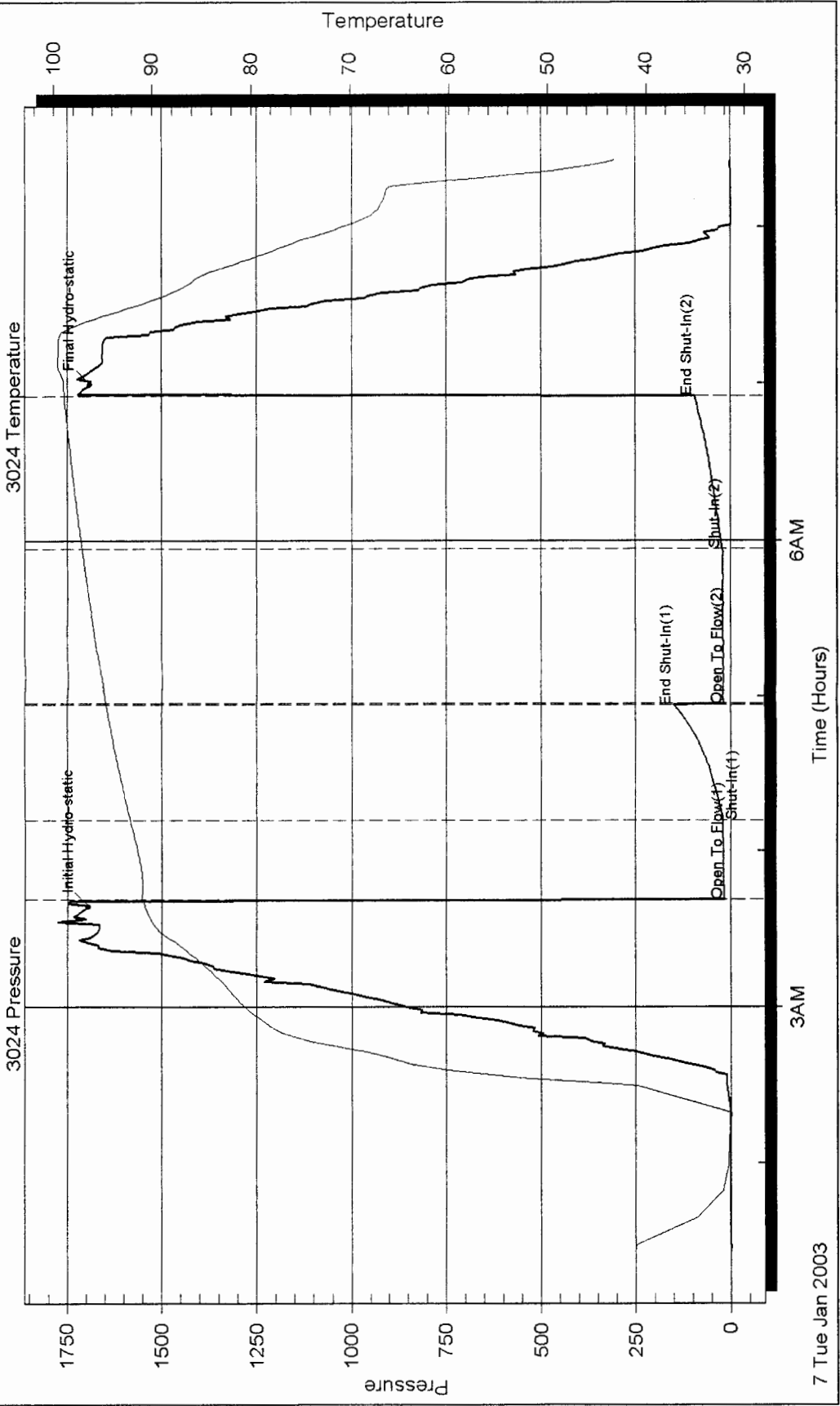
Serial #:

Laboratory Name:

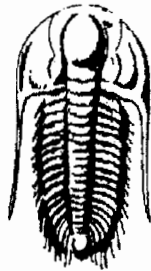
Laboratory Location:

Recovery Comments:

# Pressure vs. Time







**TRILOBITE**  
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## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352  
Russell Ks 67665

ATTN: John O Farmer IV

**18-13s-17w Ellis Ks**

**Alice Polifka #1**

Start Date: 2003.01.07 @ 03:49:15

End Date: 2003.01.07 @ 09:36:44

Job Ticket #: 16731                      DST #: 3

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

John O Farmer Inc

Alice Polifka #1

18-13s-17w Ellis Ks

DST # 3

Arbuckle

2003.01.07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer Inc  
 P O Box 352  
 Russell Ks 67665  
 ATTN: John O Farmer IV

**Alice Polifka #1**  
**18-13s-17w Ellis Ks**  
 Job Ticket: 16731      **DST#: 3**  
 Test Start: 2003.01.07 @ 03:49:15

## GENERAL INFORMATION:

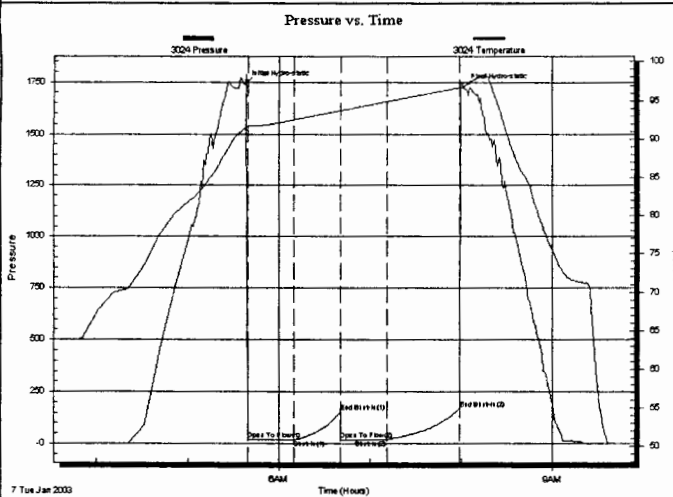
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:39:44  
 Time Test Ended: 09:36:44  
 Interval: **3589.00 ft (KB) To 3637.00 ft (KB) (TVD)**  
 Total Depth: 3637.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 16  
 Reference Elevations: 2096.00 ft (KB)  
 2088.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 3024

Inside

Press@RunDepth: 19.07 psig @ 3602.02 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2003.01.07 End Date: 2003.01.07 Last Calib.: 2003.01.07  
 Start Time: 03:49:15 End Time: 09:36:44 Time On Btm: 2003.01.07 @ 05:37:44  
 Time Off Btm: 2003.01.07 @ 08:01:44

TEST COMMENT: IFP- vy w k bl thru-out 1/4" to surface bl  
 FFP-vy w k surface bl thru-out  
 Times 30-30-30-45  
 no bl on sut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.83	91.36	Initial Hydro-static
2	17.58	91.65	Open To Flow (1)
32	19.01	92.49	Shut-In (1)
63	152.85	93.69	End Shut-In (1)
63	19.41	93.71	Open To Flow (2)
94	19.07	94.85	Shut-In (2)
141	168.09	96.65	End Shut-In (2)
144	1725.11	96.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	OCM 6%oil 94% mud	0.06

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16731

**DST#:3**

ATTN: John O Farmer IV

Test Start: 2003.01.07 @ 03:49:15

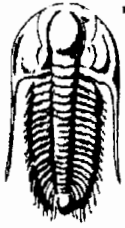
### Tool Information

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3589.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.02 ft			
Tool Length:	69.02 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			3569.00	
Shut In Tool	5.00			3574.00	
Hydraulic tool	5.00			3579.00	
Packer	5.00			3584.00	21.00 Bottom Of Top Packer
Packer	5.00			3589.00	
Stubb	1.00			3590.00	
Recorder	0.01	11085	Outside	3590.01	
Perforations	11.00			3601.01	
Change Over Sub	1.00			3602.01	
Recorder	0.01	3024	Inside	3602.02	
Blank Spacing	31.00			3633.02	
Change Over Sub	1.00			3634.02	
Bullnose	3.00			3637.02	48.02 Bottom Packers & Anchor

**Total Tool Length: 69.02**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

ATTN: John O Farmer IV

Job Ticket: 16731      **DST#: 3**  
Test Start: 2003.01.07 @ 03:49:15

**Mud and Cushion Information**

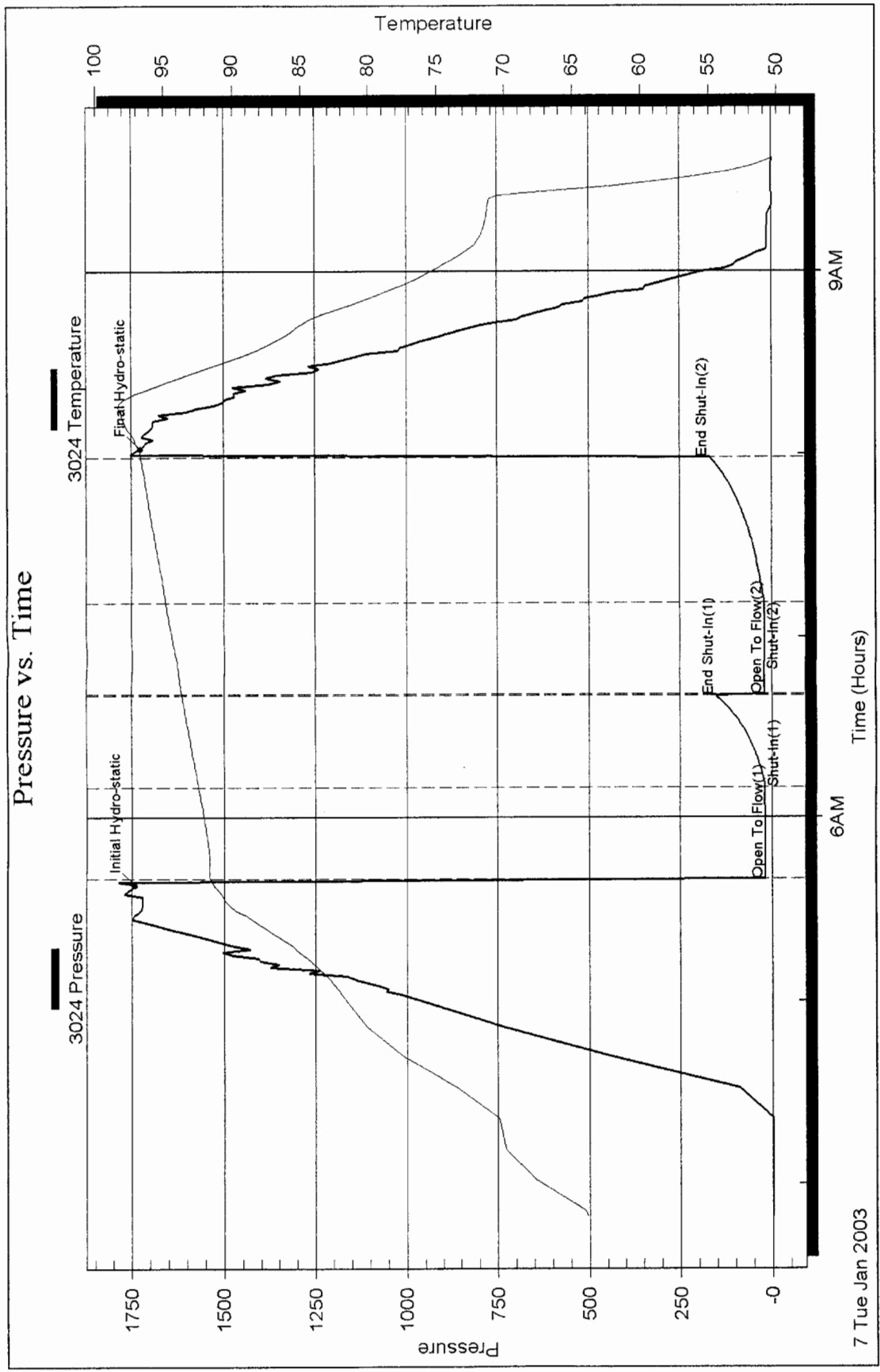
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

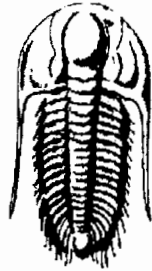
Recovery Table

Length ft	Description	Volume bbl
4.00	OCM 6%oil 94%mud	0.056

Total Length: ft      Total Volume: 0.070 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**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

**18-13s-17w Ellis Ks**

**Alice Polifka #1**

Start Date: 2003.01.08 @ 04:00:19

End Date: 2003.01.08 @ 12:21:48

Job Ticket #: 16732                      DST #: 4

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

John O Farmer Inc

Alice Polifka #1

18-13s-17w Ellis Ks

DST # 4

Arbuckle

2003.01.08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16732      **DST#: 4**

ATTN: John O Farmer IV

Test Start: 2003.01.08 @ 04:00:19

## GENERAL INFORMATION:

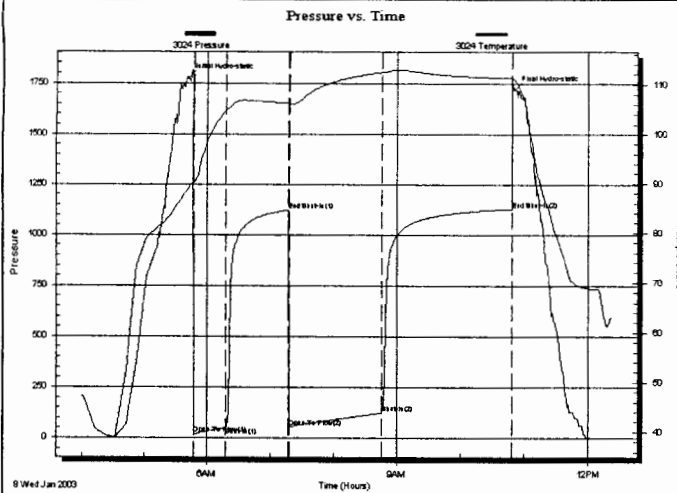
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:47:18  
 Time Test Ended: 12:21:48  
 Interval: **3633.00 ft (KB) To 3647.00 ft (KB) (TVD)**  
 Total Depth: 3647.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 16  
 Reference Elevations: 2096.00 ft (KB)  
 2088.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 3024

Inside

Press@RunDepth: 124.25 psig @ 3634.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2003.01.08      End Date: 2003.01.08      Last Calib.: 2003.01.08  
 Start Time: 04:00:19      End Time: 12:21:48      Time On Btm: 2003.01.08 @ 05:41:48  
 Time Off Btm: 2003.01.08 @ 10:50:48

TEST COMMENT: IFP-wk to fr bl 1/2" to 4 1/2" bl  
 FFP-wk to fr bl 1" to 3 1/2" bl  
 Times 30-60-90-120  
 w k surface bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.87	88.92	Initial Hydro-static
6	17.34	90.25	Open To Flow (1)
36	50.25	104.76	Shut-In(1)
95	1121.85	106.21	End Shut-In(1)
96	53.63	106.24	Open To Flow (2)
184	124.25	112.43	Shut-In(2)
307	1128.17	111.23	End Shut-In(2)
309	1719.28	110.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Clean Oil	1.26
50.00	OCWM 10%oil 30%w ater 60%mud	0.70
120.00	SOCW 1%oil 99%w ater	1.68

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16732

**DST#: 4**

ATTN: John O Farmer IV

Test Start: 2003.01.08 @ 04:00:19

### Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.80 inches	Volume: 50.96 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3633.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.02 ft			
Tool Length:	35.02 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			3613.00	
Shut In Tool	5.00			3618.00	
Hydraulic tool	5.00			3623.00	
Packer	5.00			3628.00	21.00 Bottom Of Top Packer
Packer	5.00			3633.00	
Stubb	1.00			3634.00	
Recorder	0.01	3024	Inside	3634.01	
Perforations	10.00			3644.01	
Recorder	0.01	11085	Outside	3644.02	
Bullnose	3.00			3647.02	14.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.02</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16732

**DST#: 4**

ATTN: John O Farmer IV

Test Start: 2003.01.08 @ 04:00:19

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 44000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Clean Oil	1.262
50.00	OCWM 10%oil 30%w ater 60%mud	0.701
120.00	SOCW 1%oil 99%w ater	1.683

Total Length: 260.00 ft      Total Volume: 3.646 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

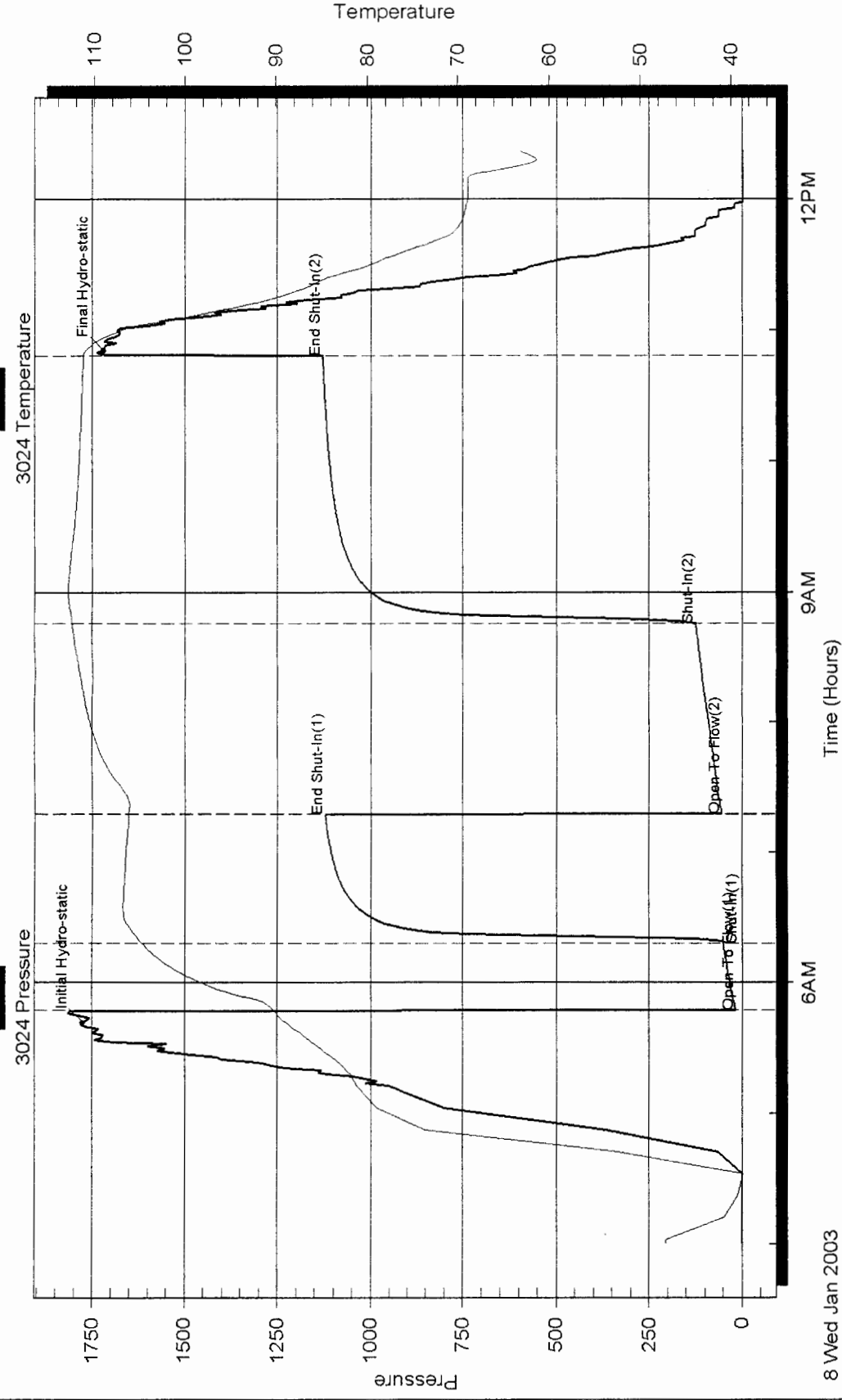
Serial #:

Laboratory Name:

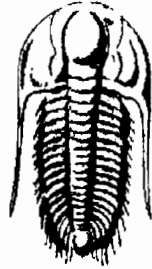
Laboratory Location:

Recovery Comments: .17 @ 68F

### Pressure vs. Time







**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

**18-13s-17w Ellis Ks**

**Alice Polifka #1**

Start Date: 2003.01.09 @ 03:35:12

End Date: 2003.01.09 @ 10:49:41

Job Ticket #: 16733                      DST #: 5

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

**Alice Polifka #1**

P O Box 352  
Russell Ks 67665

**18-13s-17w Ellis Ks**

Job Ticket: 16733      **DST#: 5**

ATTN: John O Farmer IV

Test Start: 2003.01.09 @ 03:35:12

### GENERAL INFORMATION:

Formation: **LKC**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:06:11  
Time Test Ended: 10:49:41

Test Type: Conventional Straddle  
Tester: Ray Schwager  
Unit No: 16

Interval: **3430.00 ft (KB) To 3480.00 ft (KB) (TVD)**  
Total Depth: 3702.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2096.00 ft (KB)  
2088.00 ft (CF)  
KB to GR/CF: 8.00 ft

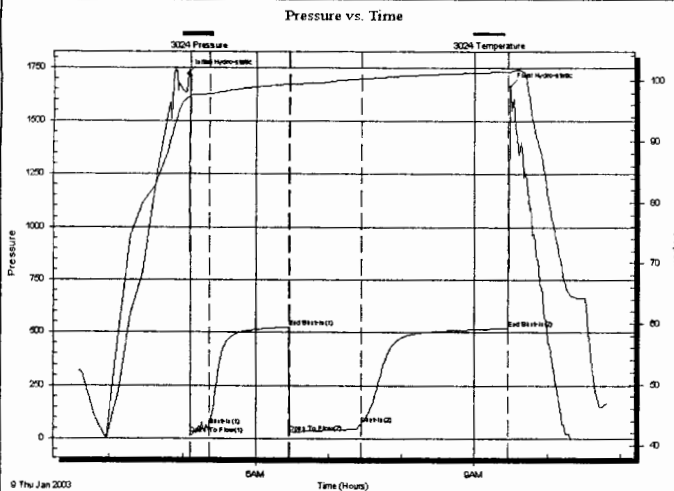
### Serial #: 3024

Inside

Press@RunDepth: 69.83 psig @ 3436.02 ft (KB)  
Start Date: 2003.01.09 End Date: 2003.01.09  
Start Time: 03:35:12 End Time: 10:49:41

Capacity: 7000.00 psig  
Last Calib.: 1899.12.30  
Time On Btm: 2003.01.09 @ 05:03:41  
Time Off Btm: 2003.01.09 @ 09:29:11

TEST COMMENT: IFP-w k bl thru-out 1/2" to 2 1/2" bl  
FFP-w k bl thru-out 1/2" to 1 1/2" bl  
Times 15-60-60-120  
no bl on shut-in



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.08	97.14	Initial Hydro-static
3	16.66	97.48	Open To Flow (1)
18	58.78	97.77	Shut-In(1)
83	524.35	99.36	End Shut-In(1)
84	27.84	99.38	Open To Flow (2)
143	69.83	100.23	Shut-In(2)
264	521.17	101.42	End Shut-In(2)
266	1660.52	101.44	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
110.00	110 GIP	1.54
70.00	HOCM 35% oil 65% mud	0.98

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Alice Polifka #1

P O Box 352  
Russell Ks 67665

18-13s-17w Ellis Ks

Job Ticket: 16733

DST#: 5

ATTN: John O Farmer IV

Test Start: 2003.01.09 @ 03:35:12

### Tool Information

Drill Pipe:	Length: 3415.00 ft	Diameter: 3.80 inches	Volume: 47.90 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3430.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3480.02 ft			
Interval between Packers:	50.02 ft			
Tool Length:	298.03 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			3410.00	
Shut In Tool	5.00			3415.00	
Hydraulic tool	5.00			3420.00	
Packer	5.00			3425.00	21.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.01	11085	Outside	3431.01	
Perforations	4.00			3435.01	
Change Over Sub	1.00			3436.01	
Recorder	0.01	3024	Inside	3436.02	
Blank Spacing	31.00			3467.02	
C.O. Sub	1.00			3468.02	
Perforations	8.00			3476.02	
Blank Off Sub	1.00			3477.02	
T.C.	3.00			3480.02	50.02 Tool Interval
Packer	5.00			3485.02	
Stubb	1.00			3486.02	
Perforations	2.00			3488.02	
C.O. Sub	1.00			3489.02	
Recorder	0.01	13547	Below	3489.03	
Blank Spacing	214.00			3703.03	
Change Over Sub	1.00			3704.03	
Bullnose	3.00			3707.03	227.01 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>298.03</b>				



**TRILOBITE  
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# DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Alice Polifka #1

P O Box 352  
Russell Ks 67665

18-13s-17w Ellis Ks

Job Ticket: 16733

DST#: 5

ATTN: John O Farmer IV

Test Start: 2003.01.09 @ 03:35:12

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	110 GIP	1.543
70.00	HOCM 35% oil 65% mud	0.982

Total Length: 180.00 ft      Total Volume: 2.525 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

