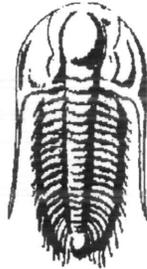


2-9-22w



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **John O Farmer Inc**

**CONFIDENTIAL**

PO Box 352  
Russell KS 67665

**ORIGINAL KCC**

ATTN: John O Farmer IV **SEP 15 2005**

**2-9s-22w Graham**  
**CONFIDENTIAL**

**Conner #1**

Start Date: 2005.07.08 @ 16:31:31

End Date: 2005.07.08 @ 22:04:00

Job Ticket #: 22090 DST #: 1

*E2 SE SW*

*750 FSL 2190 FWL*

**RECEIVED  
SEP 15 2005  
KCC WICHITA**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Conner #1

2-9s-22w Graham

DST #1

LKC E-F

2005.07.08

15-065-23078





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Conner #1

PO Box 352  
Russell KS 67665

2-9s-22w Graham

Job Ticket: 22090

DST#: 1

ATTN: John O Farmer IV

Test Start: 2005.07.08 @ 16:31:31

### Tool Information

Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 49.51 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3545.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.02 ft			
Tool Length:	46.02 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			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Packer	5.00			3540.00	21.00 Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Recorder	0.01	8167	Inside	3546.01	
Perforations	21.00			3567.01	
Recorder	0.01	13534	Outside	3567.02	
Bullnose	3.00			3570.02	25.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.02</b>				



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Conner #1

PO Box 352  
Russell KS 67665

2-9s-22w Graham

Job Ticket: 22090

DST#: 1

ATTN: John O Farmer IV

Test Start: 2005.07.08 @ 16:31:31

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 6%O 94%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

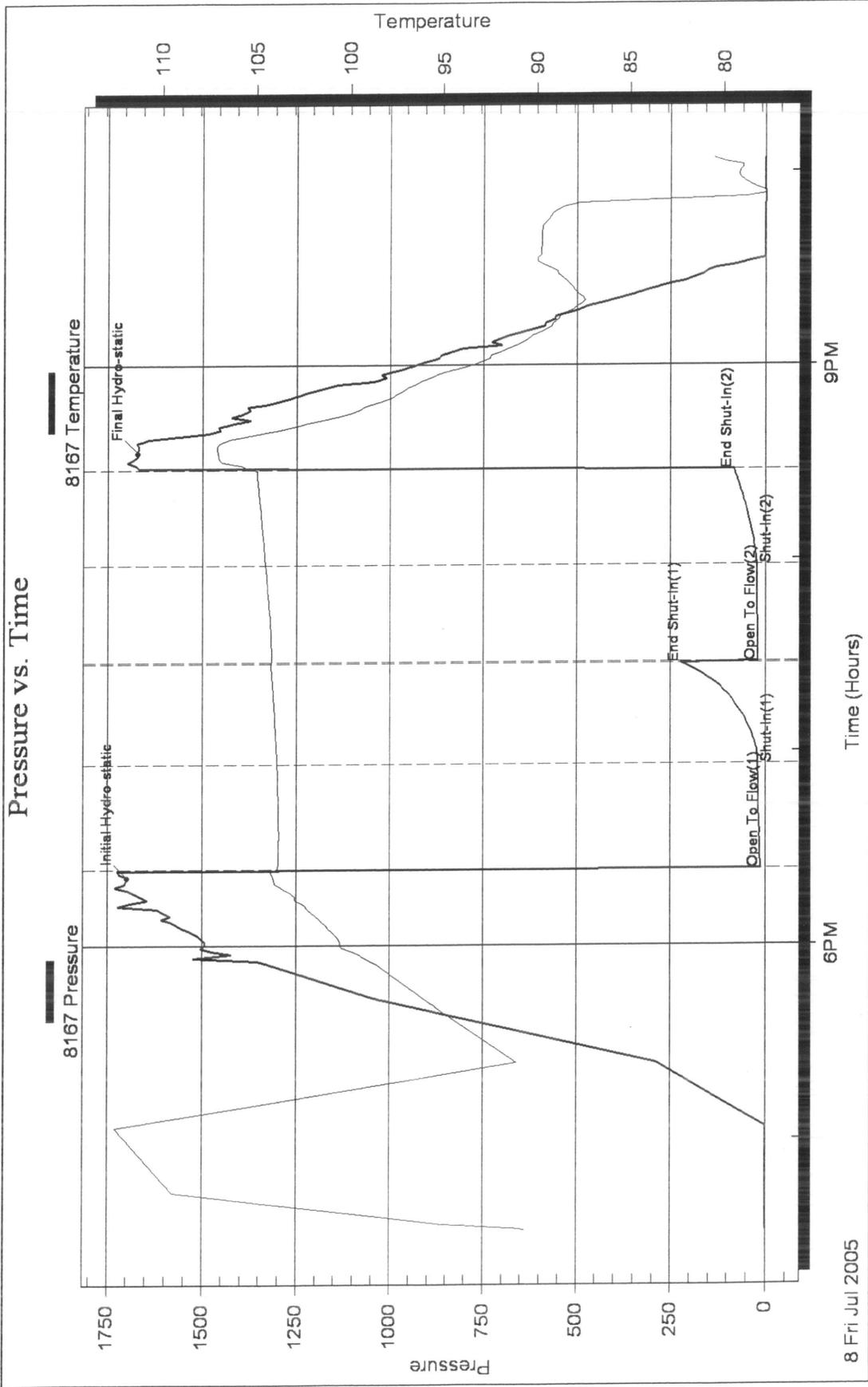
Inside

John O Farmer Inc

2-9s-22w Graham

DST Test Number: 1

### Pressure vs. Time



8 Fri Jul 2005

6PM

9PM

Time (Hours)

2-9-22w



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell KS 67665

ATTN: John O Farmer IV

**2-9s-22w Graham**

**Conner #1**

Start Date: 2005.07.09 @ 08:16:04

End Date: 2005.07.09 @ 14:00:33

Job Ticket #: 22091                      DST #: 2

John O Farmer Inc

Conner #1

2-9s-22w Graham

DST # 2

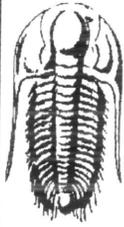
LKC

2005.07.09

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

**Conner #1**

PO Box 352  
Russell KS 67665

**2-9s-22w Graham**

Job Ticket: 22091

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2005.07.09 @ 08:16:04

## GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 09:34:03

Time Test Ended: 14:00:33

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3595.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Reference Elevations: **2235.00 ft (KB)**

Total Depth: **3680.00 ft (KB) (TVD)**

**2227.00 ft (CF) -**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

**KB to GR/CF: 8.00 ft**

## Serial #: 8167

**Inside**

Press@RunDepth: **163.72 psig @ 3597.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.07.09**

End Date: **2005.07.09**

Last Calib.: **2005.07.09**

Start Time: **08:16:04**

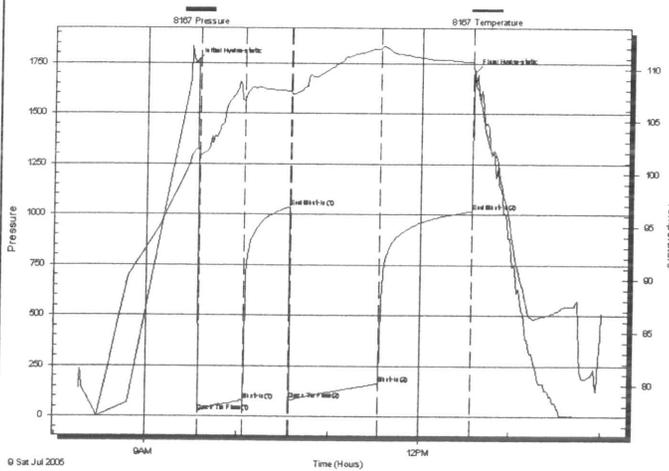
End Time: **14:00:33**

Time On Btm: **2005.07.09 @ 09:31:33**

Time Off Btm: **2005.07.09 @ 12:35:33**

TEST COMMENT: IFF-wk to fr 1/2"to 4"bl  
FFP-w k to fr 1/2"to 4"bl  
Times 30-30-60-60  
no bl on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.18	102.26	Initial Hydro-static
3	18.20	101.94	Open To Flow (1)
32	79.17	107.05	Shut-In(1)
62	1035.49	107.91	End Shut-In(1)
63	82.00	107.64	Open To Flow (2)
122	163.72	111.95	Shut-In(2)
183	1015.84	110.66	End Shut-In(2)
184	1706.12	108.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	WM 40%W 60%M	1.55
180.00	MW 15%M 85%W	2.52

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Conner #1

PO Box 352  
Russell KS 67665

2-9s-22w Graham

Job Ticket: 22091

DST#: 2

ATTN: John O Farmer IV

Test Start: 2005.07.09 @ 08:16:04

### Tool Information

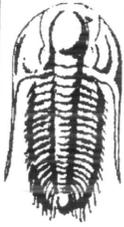
Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3595.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.02 ft			
Tool Length:	106.02 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			3575.00	
Shut In Tool	5.00			3580.00	
Hydraulic tool	5.00			3585.00	
Packer	5.00			3590.00	21.00 Bottom Of Top Packer
Packer	5.00			3595.00	
Stubb	1.00			3596.00	
Perforations	1.00			3597.00	
Recorder	0.01	8167	Inside	3597.01	
Blank Spacing	63.00			3660.01	
Perforations	17.00			3677.01	
Recorder	0.01	13534	Outside	3677.02	
Bullhose	3.00			3680.02	85.02 Bottom Packers & Anchor

**Total Tool Length: 106.02**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Conner #1

PO Box 352  
Russell KS 67665

2-9s-22w Graham

Job Ticket: 22091

DST#: 2

ATTN: John O Farmer IV

Test Start: 2005.07.09 @ 08:16:04

## 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:

85000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.32 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	VM 40%W 60%M	1.550
180.00	MW 15%M 85%W	2.525

Total Length: 310.00 ft

Total Volume: 4.075 bbl

Num Fluid Samples: 0

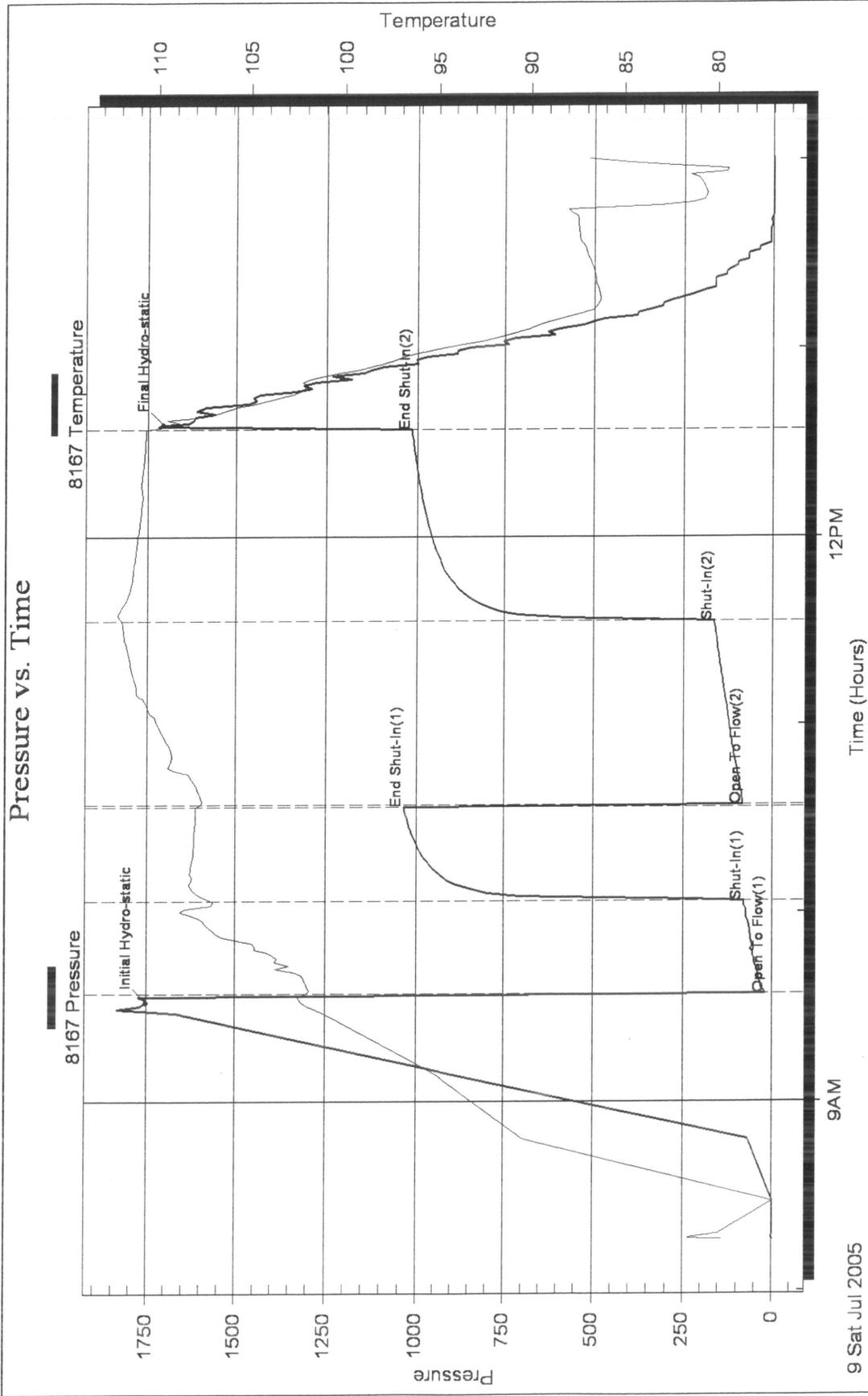
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.09@70F



2-9-22w



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell KS 67665

ATTN: John O Farmer IV

**2-9s-22w Graham**

**Conner #1**

Start Date: 2005.07.10 @ 10:30:42

End Date: 2005.07.10 @ 16:50:11

Job Ticket #: 22092                      DST #: 3

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

John O Farmer Inc

Conner #1

2-9s-22w Graham

DST # 3

Arbuckle

2005.07.10



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer Inc

**Conner #1**

PO Box 352  
Russell KS 67665

**2-9s-22w Graham**

Job Ticket: 22092

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2005.07.10 @ 10:30:42

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 11:53:11  
 Time Test Ended: 16:50:11

Test Type: **Conventional Straddle**  
 Tester: **Ray Schwager**  
 Unit No: **28**

Interval: **3815.00 ft (KB) To 3840.00 ft (KB) (TVD)**  
 Total Depth: **3889.00 ft (KB) (TVD)**  
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**

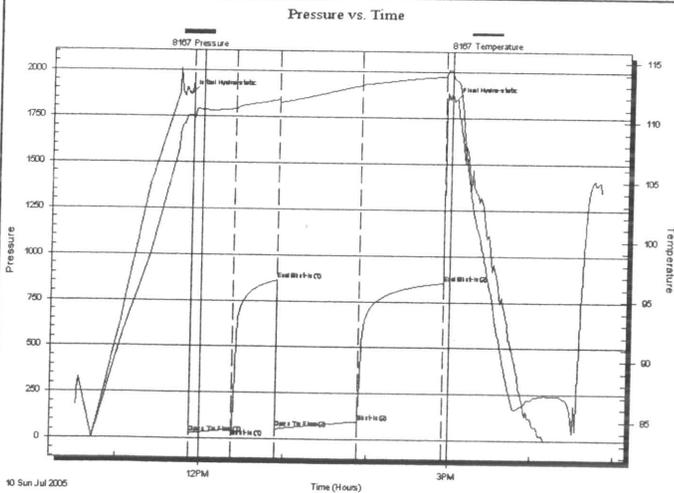
Reference Elevations: **2235.00 ft (KB)**  
**2227.00 ft (CF) -**  
 KB to GR/CF: **8.00 ft**

## Serial #: 8167 Inside

Press@RunDepth: **97.24 psig @ 3817.00 ft (KB)**  
 Start Date: **2005.07.10** End Date: **2005.07.10**  
 Start Time: **10:30:42** End Time: **16:50:11**

Capacity: **7000.00 psig**  
 Last Calib.: **2005.07.10**  
 Time On Btm: **2005.07.10 @ 11:50:41**  
 Time Off Btm: **2005.07.10 @ 15:01:41**

TEST COMMENT: IFP-w k to a gd bl 1/2" to 7 1/2" bl  
 FFP-w k to a fr bl 1/2" to 4" bl  
 Times 30-30-60-60  
 no bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.12	110.41	Initial Hydro-static
3	26.87	110.05	Open To Flow (1)
33	51.47	111.01	Shut-In(1)
63	861.15	111.78	End Shut-In(1)
64	56.58	111.59	Open To Flow (2)
123	97.24	113.02	Shut-In(2)
185	852.34	113.84	End Shut-In(2)
191	1843.65	113.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	CO	2.67
60.00	MGO 10%G 60%O 30%M	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer Inc

**Conner #1**

PO Box 352  
Russell KS 67665

**2-9s-22w Graham**

Job Ticket: 22092

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2005.07.10 @ 10:30:42

### Tool Information

Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 53.37 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3815.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3840.01 ft			
Interval between Packers:	25.01 ft			
Tool Length:	99.02 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			3795.00	
Shut In Tool	5.00			3800.00	
Hydraulic tool	5.00			3805.00	
Packer	5.00			3810.00	21.00 Bottom Of Top Packer
Packer	5.00			3815.00	
Stubb	1.00			3816.00	
Recorder	1.00	8167	Inside	3817.00	
Perforations	6.00			3823.00	
Perforations	3.00			3826.00	
Recorder	0.01	13534	Outside	3826.01	
Perforations	10.00			3836.01	
Blank Off Sub	1.00			3837.01	
Blank Spacing	3.00			3840.01	25.01 Tool Interval
Packer	5.00			3845.01	
Stubb	1.00			3846.01	
Perforations	11.00			3857.01	
Recorder	0.01	13547	Below	3857.02	
Blank Spacing	33.00			3890.02	
Bullnose	3.00			3893.02	53.01 Bottom Packers & Anchor

**Total Tool Length: 99.02**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**Conner #1**

PO Box 352  
Russell KS 67665

**2-9s-22w Graham**

Job Ticket: 22092

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2005.07.10 @ 10:30:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.32 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	CO	2.672
60.00	MGO 10%G 60%O 30%M	0.842

Total Length: 270.00 ft      Total Volume: 3.514 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

Inside

John O Farmer Inc

2-9s-22w Graham

DST Test Number: 3

### Pressure vs. Time

