

**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **John O Farmer**

PO Box 302  
Russell KS 67665

ATTN: Randy Killan

**12 17 25 Ness KS**

**Tillitson #1**

Start Date: 2007.06.18 @ 14:25:23

End Date: 2007.06.18 @ 19:45:17

Job Ticket #: 27705      DST #: 1

John O Farmer

Tillitson #1

12 17 25 Ness KS

DST # 1

Ft Scott

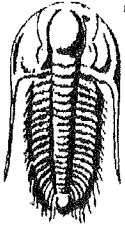
2007.06.18

**KCC**  
**SEP 20 2007**  
**CONFIDENTIAL**

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  
 PO Box 302  
 Russell KS 67665  
 ATTN: Randy Killan

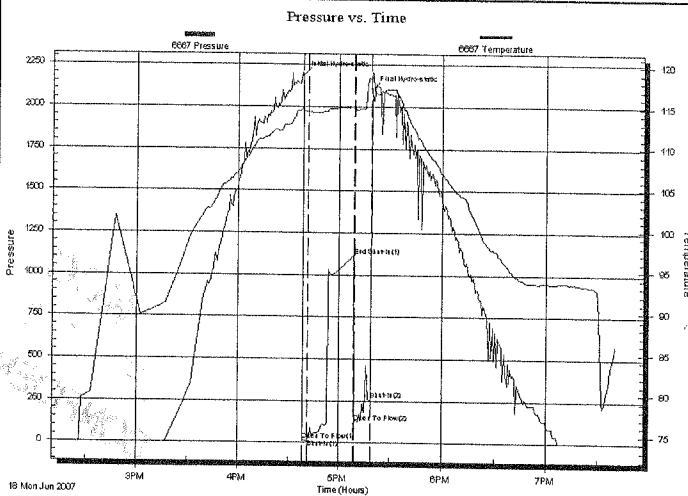
**Tillitson #1**  
**12 17 25 Ness KS**  
 Job Ticket: 27705 **DST#: 1**  
 Test Start: 2007.06.18 @ 14:25:23

## GENERAL INFORMATION:

Formation: **Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:38:33  
 Time Test Ended: 19:45:17  
 Interval: **4325.00 ft (KB) To 4365.00 ft (KB) (TVD)**  
 Total Depth: 4365.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 40  
 Reference Elevations: 2442.00 ft (KB)  
 2434.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6667 Inside**  
 Press@RunDepth: 18.05 psig @ 4326.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2007.06.18 End Date: 2007.06.18 Last Calib.: 2007.06.18  
 Start Time: 14:25:23 End Time: 19:41:17 Time On Btm: 2007.06.18 @ 16:38:18  
 Time Off Btm: 2007.06.18 @ 17:19:03

**TEST COMMENT:** Weak blow died in 5 min.  
 When turning tool mud started seeping around packers No return  
 1/2 " blow @ open built to 9 " mud seeping around packers pull tool



## PRESSURE SUMMARY

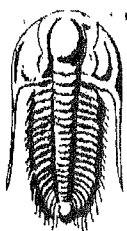
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.53	115.13	Initial Hydro-static
1	15.82	114.66	Open To Flow (1)
4	18.05	114.48	Shut-In(1)
31	1114.11	115.10	End Shut-In(1)
31	122.78	114.61	Open To Flow (2)
41	260.88	118.40	Shut-In(2)
41	2104.16	119.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
450.00	M	6.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**Tillitson #1**

PO Box 302  
Russell KS 67665

**12 17 25 Ness KS**

Job Ticket: 27705

**DST#: 1**

ATTN: Randy Killan

Test Start: 2007.06.18 @ 14:25:23

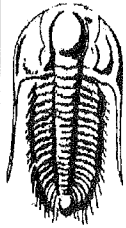
### Tool Information

Drill Pipe:	Length: 4280.00 ft	Diameter: 3.80 inches	Volume: 60.04 bbl	Tool Weight: 1500.00 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: 62000.00 lb
			<u>Total Volume: 60.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4325.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 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			4306.00	
Shut In Tool	5.00			4311.00	
Hydraulic tool	5.00			4316.00	
Packer	5.00			4321.00	20.00 Bottom Of Top Packer
Packer	4.00		Inside	4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	6667	Inside	4326.00	
Perforations	34.00			4360.00	
Recorder	0.00	11058	Inside	4360.00	
Bullnose	5.00			4365.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**Tillitson #1**

PO Box 302  
Russell KS 67665

**12 17 25 Ness KS**

Job Ticket: 27705

**DST#: 1**

ATTN: Randy Killan

Test Start: 2007.06.18 @ 14:25:23

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	M	6.039

Total Length: 450.00 ft

Total Volume: 6.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

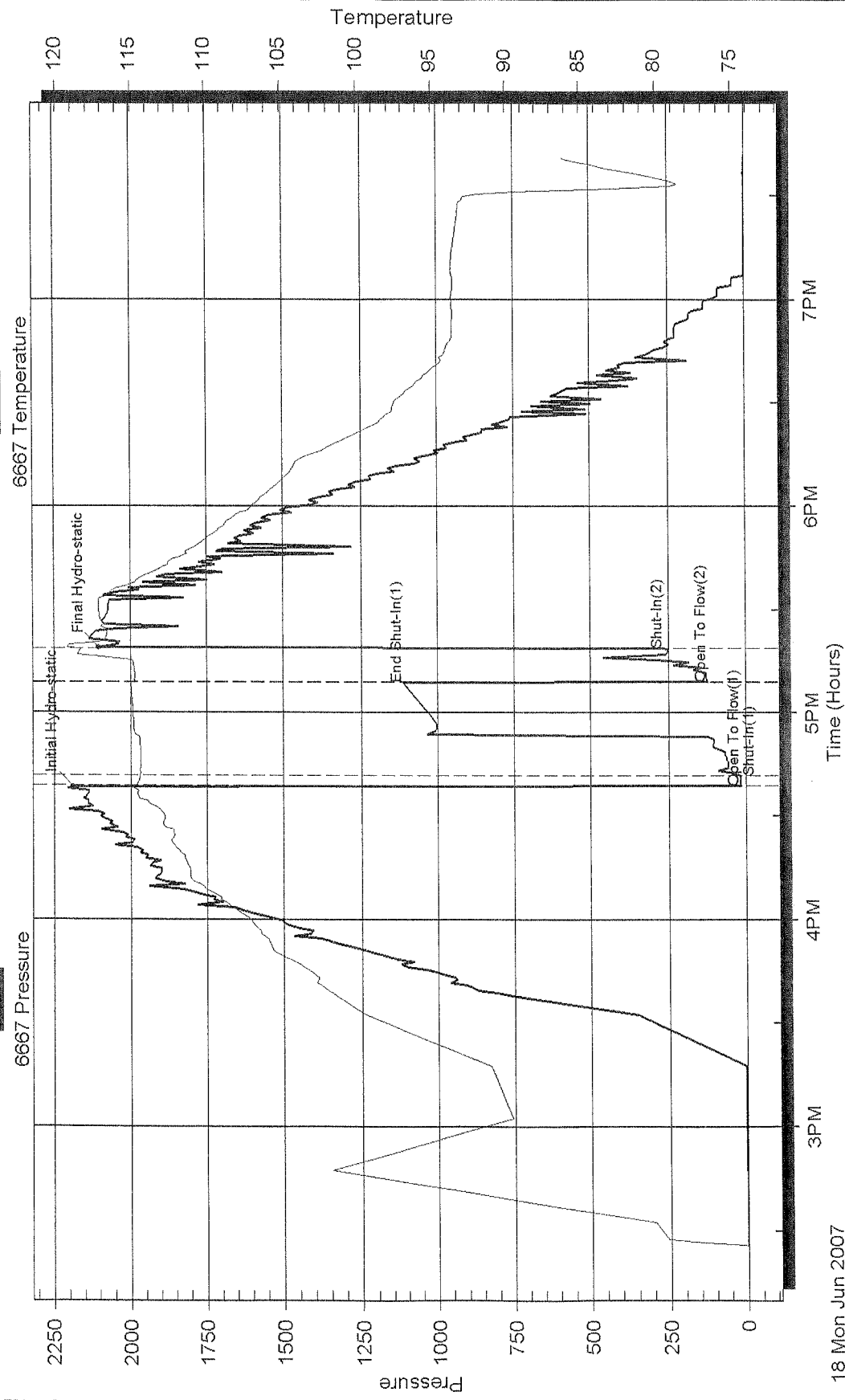
Serial #:

Laboratory Name:

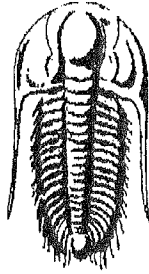
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



18 Mon Jun 2007



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 302  
Russell KS 67665

ATTN: Randy Killan

**12 17 25 Ness KS**

**Tillitson #1**

Start Date: 2007.06.19 @ 13:33:05

End Date: 2007.06.19 @ 18:04:29

Job Ticket #: 27706                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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John O Farmer

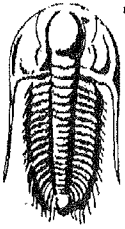
Tillitson #1

12 17 25 Ness KS

DST # 2

Miss

2007.06.19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

John O Farmer  
PO Box 302  
Russell KS 67665  
ATTN: Randy Killan

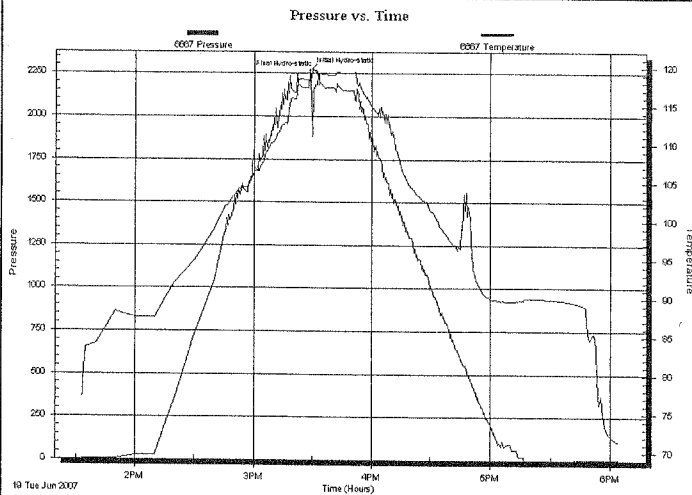
**Tillitson #1**  
**12 17 25 Ness KS**  
Job Ticket: 27706      **DST#: 2**  
Test Start: 2007.06.19 @ 13:33:05

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 15:30:00  
Time Test Ended: 18:04:29  
Interval: **4356.00 ft (KB) To 4442.00 ft (KB) (TVD)**  
Total Depth: 4500.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 2442.00 ft (KB)  
2434.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6667**      **Inside**  
Press@RunDepth:                      psig @ 4357.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.06.19      End Date: 2007.06.19      Last Calib.: 2007.06.19  
Start Time: 13:33:05      End Time: 18:04:29      Time On Btm: 2007.06.19 @ 15:28:30  
Time Off Btm: 2007.06.19 @ 15:33:00

TEST COMMENT: Packer failuer @ open reset failed again pull tool



## PRESSURE SUMMARY

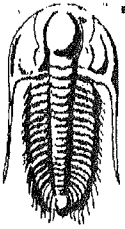
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.54	118.25	Initial Hydro-static
5	2240.71	119.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	M	4.78

## Gas Rates

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



**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**Tillitson #1**

PO Box 302  
Russell KS 67665

**12 17 25 Ness KS**

Job Ticket: 27706

**DST#: 2**

ATTN: Randy Killan

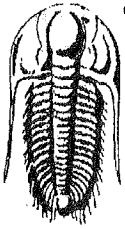
Test Start: 2007.06.19 @ 13:33:05

### Tool Information

Drill Pipe:	Length: 4311.00 ft	Diameter: 3.80 inches	Volume: 60.47 bbl	Tool Weight: 1500.00 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: 60.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4356.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	4442.00 ft			
Interval between Packers:	86.00 ft			
Tool Length:	165.00 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			4337.00	
Shut In Tool	5.00			4342.00	
Hydraulic tool	5.00			4347.00	
Packer	5.00			4352.00	20.00 Bottom Of Top Packer
Packer	4.00		Inside	4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	6667	Inside	4357.00	
Perforations	12.00			4369.00	
Change Over Sub	1.00			4370.00	
Drill Pipe	62.00			4432.00	
Change Over Sub	1.00			4433.00	
Perforations	5.00			4438.00	
Blank Off Sub	1.00			4439.00	
top of packer	3.00			4442.00	86.00 Tool Interval
Packer	1.00			4443.00	
Stubb	1.00			4444.00	
Anchor	18.00			4462.00	
Change Over Sub	1.00			4463.00	
Drill Pipe	32.00			4495.00	
Change Over Sub	1.00			4496.00	
Recorder	0.00	11058	Inside	4496.00	
Bullnose	5.00			4501.00	59.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>165.00</b>				



**TRILOBITE**  
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# DRILL STEM TEST REPORT

## FLUID SUMMARY

John O Farmer

Tillitson #1

PO Box 302  
Russell KS 67665

12 17 25 Ness KS

Job Ticket: 27706

DST#: 2

ATTN: Randy Killan

Test Start: 2007.06.19 @ 13:33:05

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	M	4.777

Total Length: 360.00 ft

Total Volume: 4.777 bbl

Num Fluid Samples: 0

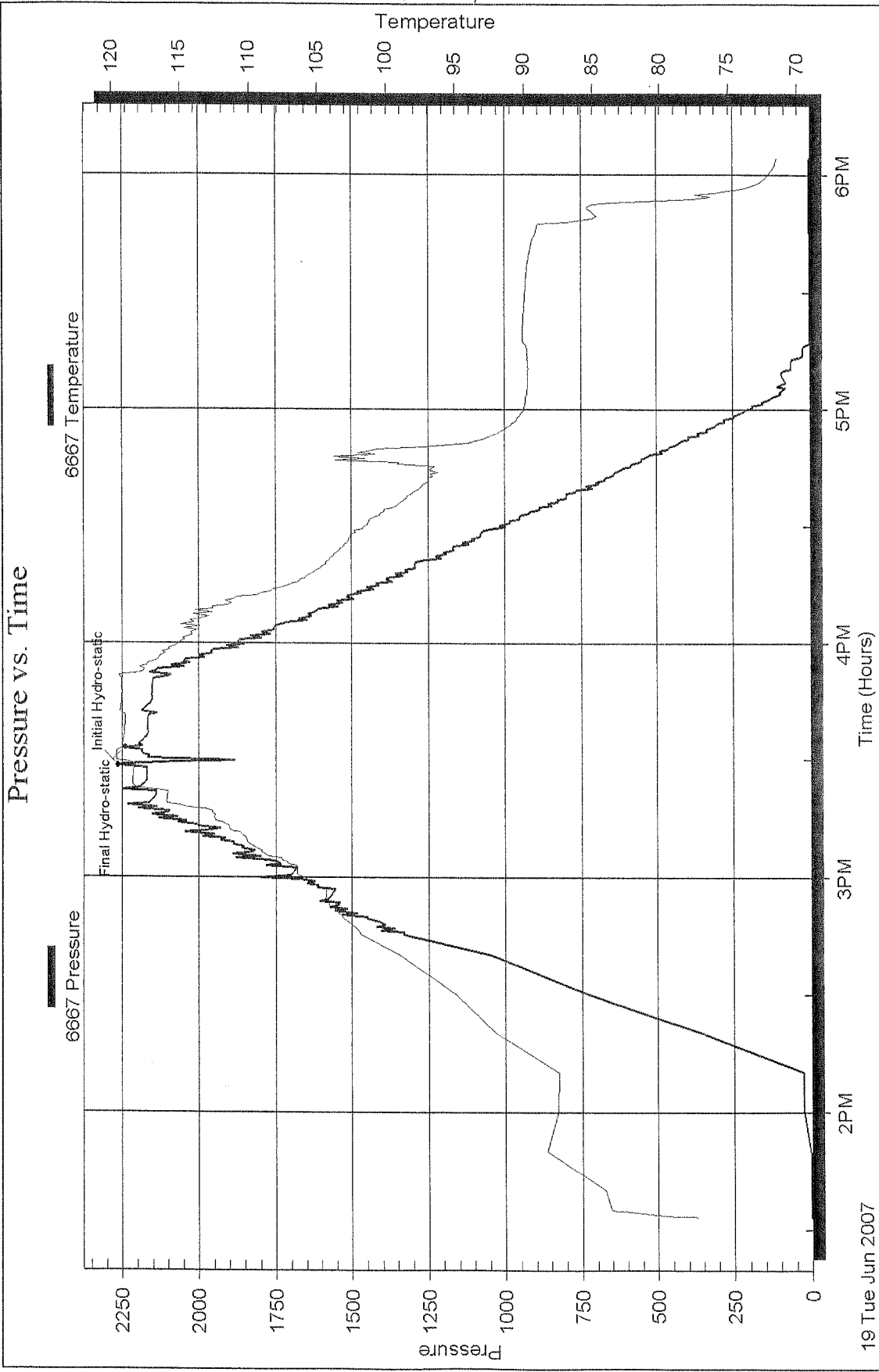
Num Gas Bombs: 0

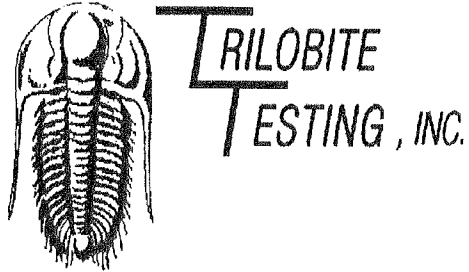
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 302  
Russell KS 67665

ATTN: Randy Killan

**12 17 25 Ness KS**

**Tillitson #1**

Start Date: 2007.06.19 @ 18:20:52

End Date: 2007.06.20 @ 02:44:31

Job Ticket #: 27707                      DST #: 3

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

John O Farmer

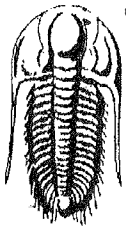
Tillitson #1

12 17 25 Ness KS

DST # 3

Miss

2007.06.19



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# DRILL STEM TEST REPORT

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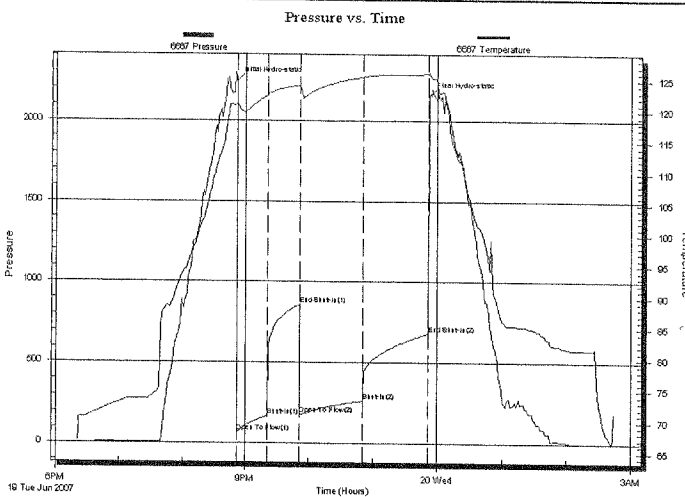
**Tillitson #1**  
**12 17 25 Ness KS**  
Job Ticket: 27707      **DST#: 3**  
Test Start: 2007.06.19 @ 18:20:52

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 20:52:02  
Time Test Ended: 02:44:31  
Interval: **4377.00 ft (KB) To 4442.00 ft (KB) (TVD)**  
Total Depth: 4500.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 2442.00 ft (KB)  
2434.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6667**      **Inside**  
Press@RunDepth: 264.56 psig @ 4378.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.06.19      End Date: 2007.06.20      Last Calib.: 2007.06.20  
Start Time: 18:20:52      End Time: 02:44:31      Time On Btm: 2007.06.19 @ 20:51:32  
Time Off Btm: 2007.06.19 @ 23:52:31

**TEST COMMENT:** BOB in 8 min.  
Weak 1/4 " return died in 12 min.  
BOB in 11 min.  
Weak surface return



## PRESSURE SUMMARY

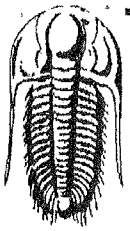
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.71	121.21	Initial Hydro-static
1	65.09	120.92	Open To Flow (1)
30	171.89	122.56	Shut-In (1)
60	858.83	124.11	End Shut-In (1)
61	180.61	123.93	Open To Flow (2)
119	264.56	125.47	Shut-In (2)
181	683.02	125.98	End Shut-In (2)
181	2152.48	126.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 60% M 40% O	0.57
210.00	MCO 30% M 70% O	2.95
330.00	Oil trace of Gas	4.63

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**Tillitson #1**

PO Box 302  
Russell KS 67665

**12 17 25 Ness KS**

Job Ticket: 27707

**DST#: 3**

ATTN: Randy Killan

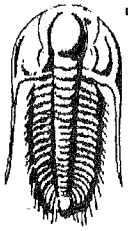
Test Start: 2007.06.19 @ 18:20:52

### Tool Information

Drill Pipe:	Length: 4342.00 ft	Diameter: 3.80 inches	Volume: 60.91 bbl	Tool Weight: 1500.00 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
			<u>Total Volume: 61.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4377.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	124.00 ft			
Tool Length:	144.00 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			4358.00	
Shut In Tool	5.00			4363.00	
Hydraulic tool	5.00			4368.00	
Packer	5.00			4373.00	20.00 Bottom Of Top Packer
Packer	4.00		Inside	4377.00	
Stubb	1.00			4378.00	
Recorder	0.00	6667	Inside	4378.00	
Perforations	22.00			4400.00	
Change Over Sub	1.00			4401.00	
Drill Pipe	31.00			4432.00	
Change Over Sub	1.00			4433.00	
Perforations	5.00			4438.00	
Blank Off Sub	1.00			4439.00	
top of packer	3.00			4442.00	124.00 Tool Interval
Packer	1.00			4443.00	
Stubb	1.00			4444.00	
Anchor	18.00			4462.00	
Change Over Sub	1.00			4463.00	
Drill Pipe	32.00			4495.00	
Change Over Sub	1.00			4496.00	
Recorder	0.00	11058	Inside	4496.00	
Bullnose	5.00			4501.00	1000143.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>144.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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**12 17 25 Ness KS**

Job Ticket: 27707

**DST#: 3**

ATTN: Randy Killan

Test Start: 2007.06.19 @ 18:20:52

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 10.36 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

36 deg API

Water Salinity:

0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 60%M 40%O	0.568
210.00	MCO 30%M 70%O	2.946
330.00	Oil trace of Gas	4.629

Total Length: 600.00 ft

Total Volume: 8.143 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

