



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO, INC**

250 N Water STE. 300  
Wichita KS 67202

ATTN: Rocky Milford

### **Jones 'A' #2-17**

#### **17 1S 37W Cheyenne KS**

Start Date: 2014.06.16 @ 06:15:00

End Date: 2014.06.16 @ 15:56:00

Job Ticket #: 58795                      DST #: 1

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

Printed: 2014.06.23 @ 08:49:56



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling CO, INC  
250 N Water STE. 300  
Wichita KS 67202  
ATTN: Rocky Milford

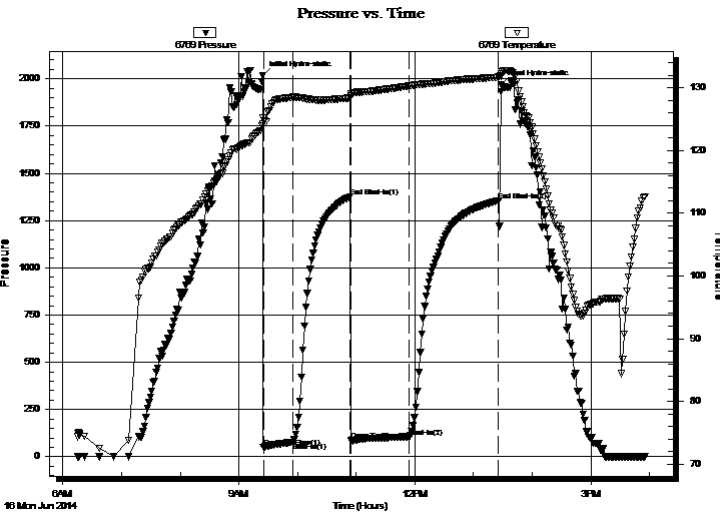
**17 1S 37W Cheyenne KS**  
**Jones 'A' #2-17**  
Job Ticket: 58795 **DST#: 1**  
Test Start: 2014.06.16 @ 06:15:00

## GENERAL INFORMATION:

Formation: **LKC "A-D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:25:00  
Time Test Ended: 15:56:00  
Interval: **4093.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
Total Depth: 4215.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Robert Zodrow  
Unit No: 46  
Reference Elevations: 3197.00 ft (KB)  
3192.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6769 Outside**  
Press@RunDepth: 105.02 psig @ 4094.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.06.16 End Date: 2014.06.16 Last Calib.: 2014.06.16  
Start Time: 06:15:05 End Time: 15:56:00 Time On Btm: 2014.06.16 @ 09:24:30  
Time Off Btm: 2014.06.16 @ 13:28:30

**TEST COMMENT:** 30-IS- Blow built to 4 1/4"  
60-IS- No return  
60-FF- Blow built to 8 3/4"  
90-FSI- Real weak surface blow on return died in 20 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.91	124.27	Initial Hydro-static
1	49.34	125.17	Open To Flow (1)
31	77.56	128.51	Shut-In(1)
90	1375.80	128.38	End Shut-In(1)
90	87.28	128.66	Open To Flow (2)
150	105.02	130.29	Shut-In(2)
241	1355.09	131.70	End Shut-In(2)
244	1967.52	132.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	gocm 17%g 40%o 43%m	1.28
0.00	160 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58795

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2014.06.16 @ 06:15:00

## Tool Information

Drill Pipe:	Length: 3913.00 ft	Diameter: 3.88 inches	Volume: 57.22 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4093.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	122.00 ft			
Tool Length:	149.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4071.00	
Hydraulic tool	5.00			4076.00	
Jars	5.00			4081.00	
Safety Joint	3.00			4084.00	
Packer	5.00			4089.00	27.00 Bottom Of Top Packer
Packer	4.00			4093.00	
Stubb	1.00			4094.00	
Recorder	0.00	8521	Inside	4094.00	
Recorder	0.00	6769	Outside	4094.00	
Perforations	22.00			4116.00	
Change Over Sub	1.00			4117.00	
Drill Pipe	94.00			4211.00	
Change Over Sub	1.00			4212.00	
Bullnose	3.00			4215.00	122.00 Bottom Packers & Anchor

**Total Tool Length: 149.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58795

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2014.06.16 @ 06:15:00

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	gocm 17%g 40%o 43%m	1.275
0.00	160 GIP	0.000

Total Length: 210.00 ft      Total Volume: 1.275 bbl

Num Fluid Samples: 0

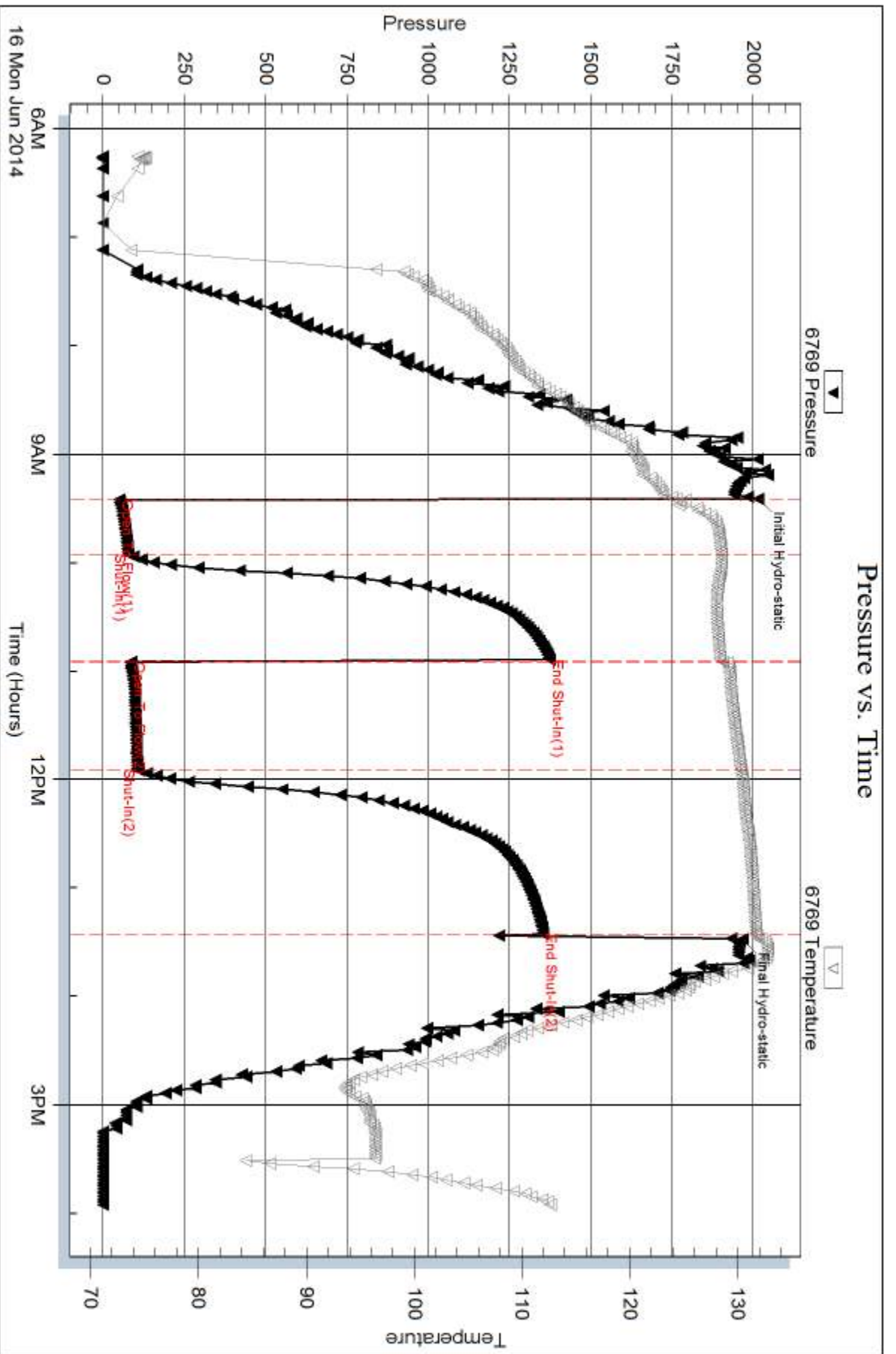
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



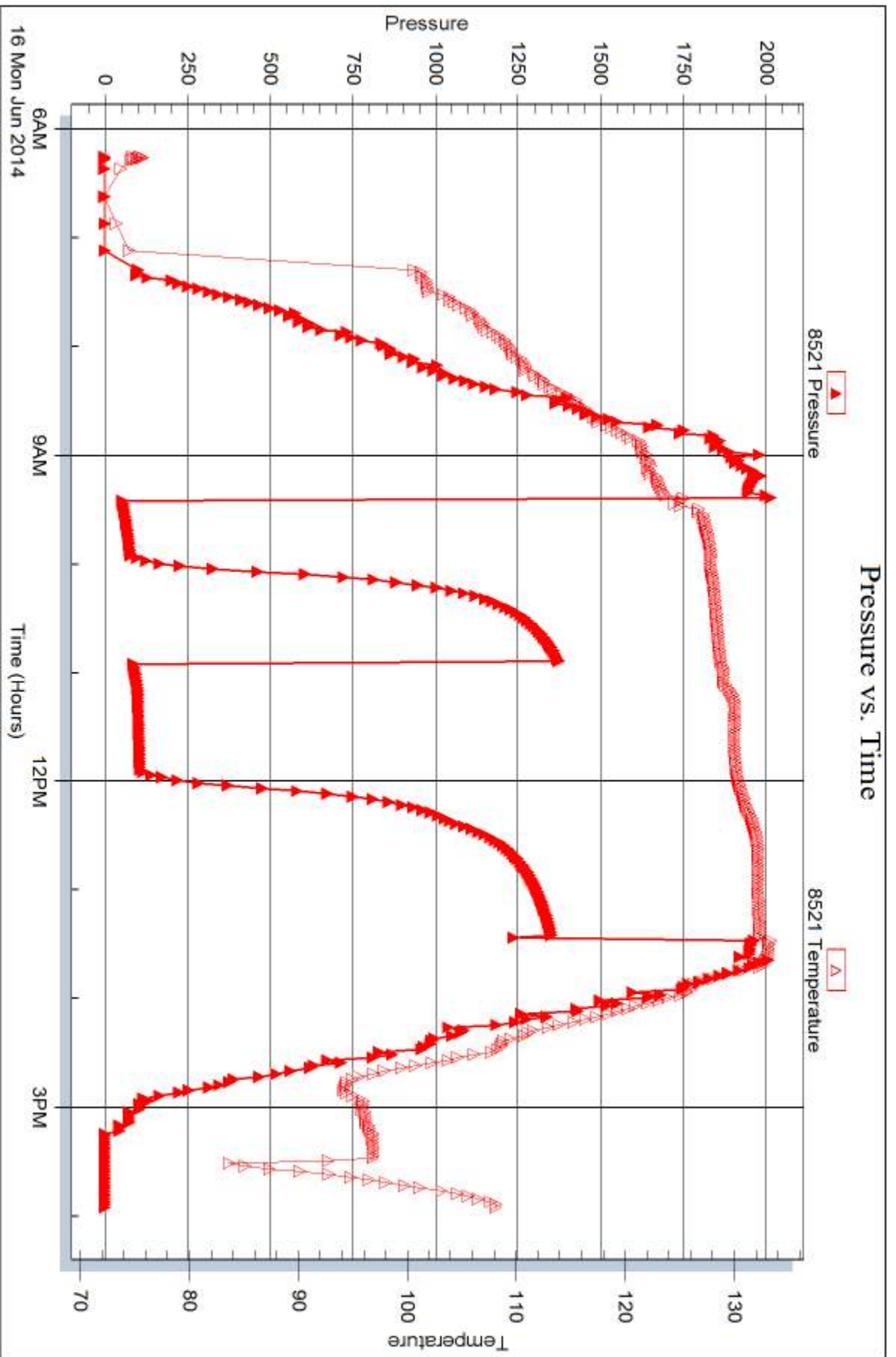
Serial #: 8521

Inside

Murfin Drilling CO., INC

Jones 'A' #2-17

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO, INC**

250 N Water STE. 300  
Wichita KS 67202

ATTN: Rocky Milford

### **Jones 'A' #2-17**

#### **17 1S 37W Cheyenne KS**

Start Date: 2014.06.17 @ 08:15:00

End Date: 2014.06.17 @ 16:19:30

Job Ticket #: 58796                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.23 @ 08:49:31

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

Jones 'A' #2-17

DST # 2

LKC "G-J"

2014.06.17





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling CO, INC  
250 N Water STE. 300  
Wichita KS 67202  
ATTN: Rocky Milford

**17 1S 37W Cheyenne KS**  
**Jones 'A' #2-17**  
Job Ticket: 58796 **DST#: 2**  
Test Start: 2014.06.17 @ 08:15:00

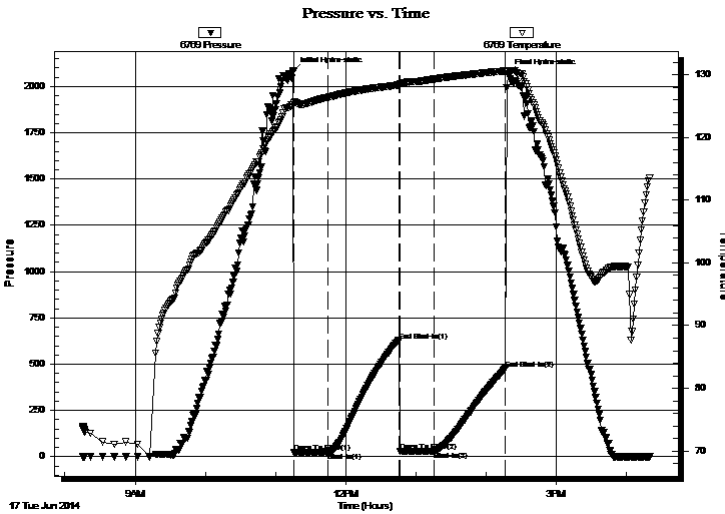
## GENERAL INFORMATION:

Formation: **LKC "G-J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:15:30  
Time Test Ended: 16:19:30  
Interval: **4210.00 ft (KB) To 4363.00 ft (KB) (TVD)**  
Total Depth: 4363.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Robert Zodrow  
Unit No: 46  
Reference Elevations: 3197.00 ft (KB)  
3192.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6769 Outside**  
Press@RunDepth: 30.39 psig @ 4211.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.06.17 End Date: 2014.06.17 Last Calib.: 2014.06.17  
Start Time: 08:15:05 End Time: 16:19:29 Time On Btm: 2014.06.17 @ 11:15:00  
Time Off Btm: 2014.06.17 @ 14:18:30

TEST COMMENT: 30-IF- Blow built to 3/4"  
60-ISI- No return  
30-FF- No blow  
60-FSI- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.36	125.22	Initial Hydro-static
1	21.66	125.50	Open To Flow (1)
30	26.00	126.44	Shut-In(1)
91	623.78	128.41	End Shut-In(1)
91	28.13	128.51	Open To Flow (2)
120	30.39	129.33	Shut-In(2)
181	474.45	130.64	End Shut-In(2)
184	2070.46	130.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud w ith oil spots 100%m	0.10

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58796

**DST#: 2**

ATTN: Rocky Milford

Test Start: 2014.06.17 @ 08:15:00

## Tool Information

Drill Pipe:	Length: 4007.00 ft	Diameter: 3.88 inches	Volume: 58.60 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.51 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4210.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	153.00 ft			
Tool Length:	180.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4188.00	
Hydraulic tool	5.00			4193.00	
Jars	5.00			4198.00	
Safety Joint	3.00			4201.00	
Packer	5.00			4206.00	27.00 Bottom Of Top Packer
Packer	4.00			4210.00	
Stubb	1.00			4211.00	
Recorder	0.00	8521	Inside	4211.00	
Recorder	0.00	6769	Outside	4211.00	
Perforations	22.00			4233.00	
Change Over Sub	1.00			4234.00	
Drill Pipe	125.00			4359.00	
Change Over Sub	1.00			4360.00	
Bullnose	3.00			4363.00	153.00 Bottom Packers & Anchor

**Total Tool Length: 180.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58796

**DST#: 2**

ATTN: Rocky Milford

Test Start: 2014.06.17 @ 08:15:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud w ith oil spots 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

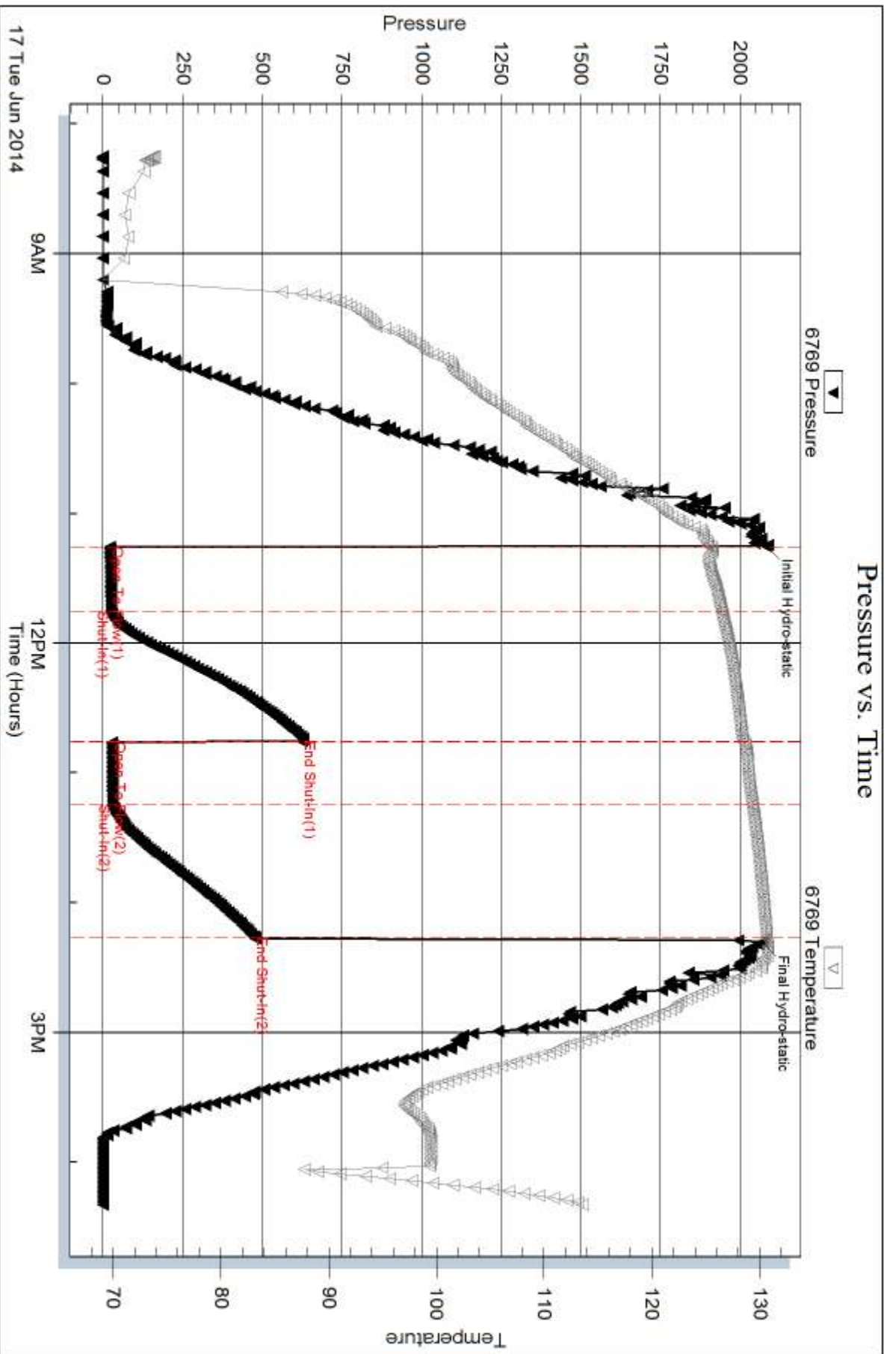
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



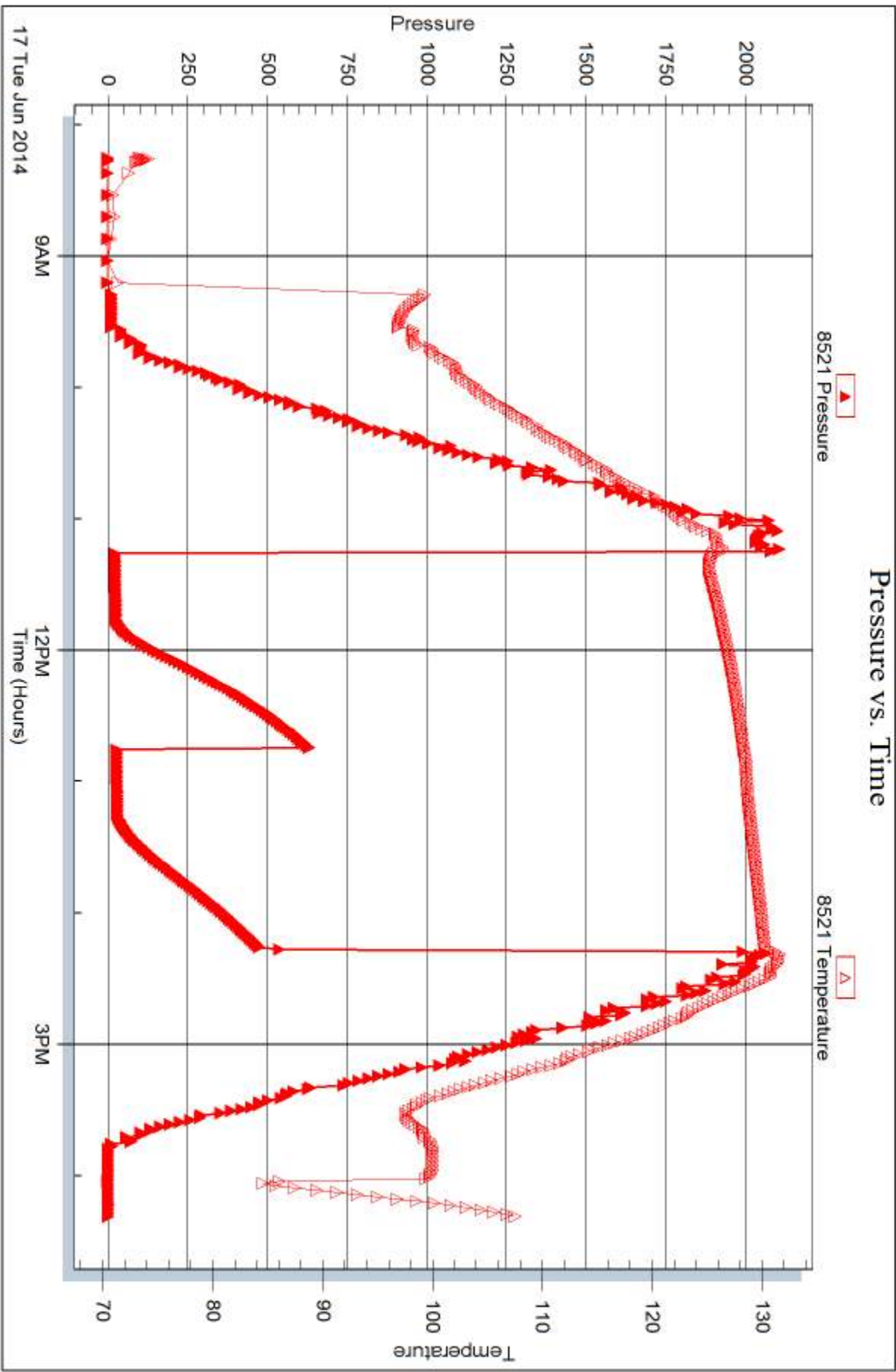
Serial #: 8521

Inside

Murfin Drilling CO, INC

Jones 'A' #2-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58796

Printed: 2014.06.23 @ 08:49:33



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO, INC**

250 N Water STE. 300  
Wichita KS 67202

ATTN: Rocky Milford

### **Jones 'A' #2-17**

#### **17 1S 37W Cheyenne KS**

Start Date: 2014.06.18 @ 13:30:00

End Date: 2014.06.18 @ 22:08:30

Job Ticket #: 58797                      DST #: 3

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

Printed: 2014.06.23 @ 08:47:21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling CO, INC  
250 N Water STE. 300  
Wichita KS 67202  
ATTN: Rocky Milford

**17 1S 37W Cheyenne KS**  
**Jones 'A' #2-17**  
Job Ticket: 58797      **DST#: 3**  
Test Start: 2014.06.18 @ 13:30:00

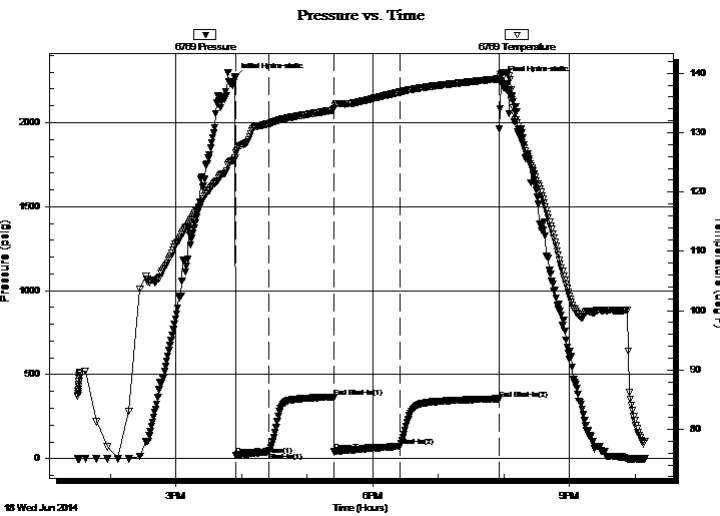
## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 15:54:30      Tester: Robert Zodrow  
Time Test Ended: 22:08:30      Unit No: 46  
**Interval: 4513.00 ft (KB) To 4560.00 ft (KB) (TVD)**      Reference Elevations: 3197.00 ft (KB)  
Total Depth: 4560.00 ft (KB) (TVD)      3192.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

## Serial #: 6769      Outside

Press@RunDepth: 75.80 psig @ 4514.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.06.18      End Date: 2014.06.18      Last Calib.: 2014.06.18  
Start Time: 13:30:05      End Time: 22:08:30      Time On Btm: 2014.06.18 @ 15:54:00  
Time Off Btm: 2014.06.18 @ 19:57:00

TEST COMMENT: 30-IF- Blow built to 4 3/4"  
60-ISI- No return  
60-FF- Blow built to 11"  
90-FSI- Return built to surface died in 45 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.14	125.83	Initial Hydro-static
1	19.77	126.51	Open To Flow (1)
31	40.87	131.51	Shut-In(1)
90	363.25	133.79	End Shut-In(1)
91	42.86	134.00	Open To Flow (2)
151	75.80	136.81	Shut-In(2)
241	356.86	139.07	End Shut-In(2)
243	2248.17	139.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 5%g 45%o 50%m	0.30
123.00	clean oil 5%g 95%o	0.60
0.00	124 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58797

**DST#: 3**

ATTN: Rocky Milford

Test Start: 2014.06.18 @ 13:30:00

## Tool Information

Drill Pipe:	Length: 4320.00 ft	Diameter: 3.88 inches	Volume: 63.18 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.09 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4513.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4491.00	
Hydraulic tool	5.00			4496.00	
Jars	5.00			4501.00	
Safety Joint	3.00			4504.00	
Packer	5.00			4509.00	27.00 Bottom Of Top Packer
Packer	4.00			4513.00	
Stubb	1.00			4514.00	
Recorder	0.00	8521	Inside	4514.00	
Recorder	0.00	6769	Outside	4514.00	
Perforations	10.00			4524.00	
Change Over Sub	1.00			4525.00	
Drill Pipe	31.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling CO, INC

**17 1S 37W Cheyenne KS**

250 N Water STE. 300  
Wichita KS 67202

**Jones 'A' #2-17**

Job Ticket: 58797

**DST#: 3**

ATTN: Rocky Milford

Test Start: 2014.06.18 @ 13:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	ocm 5%g 45%o 50%m	0.305
123.00	clean oil 5%g 95%o	0.605
0.00	124 GIP	0.000

Total Length: 185.00 ft      Total Volume: 0.910 bbl

Num Fluid Samples: 0

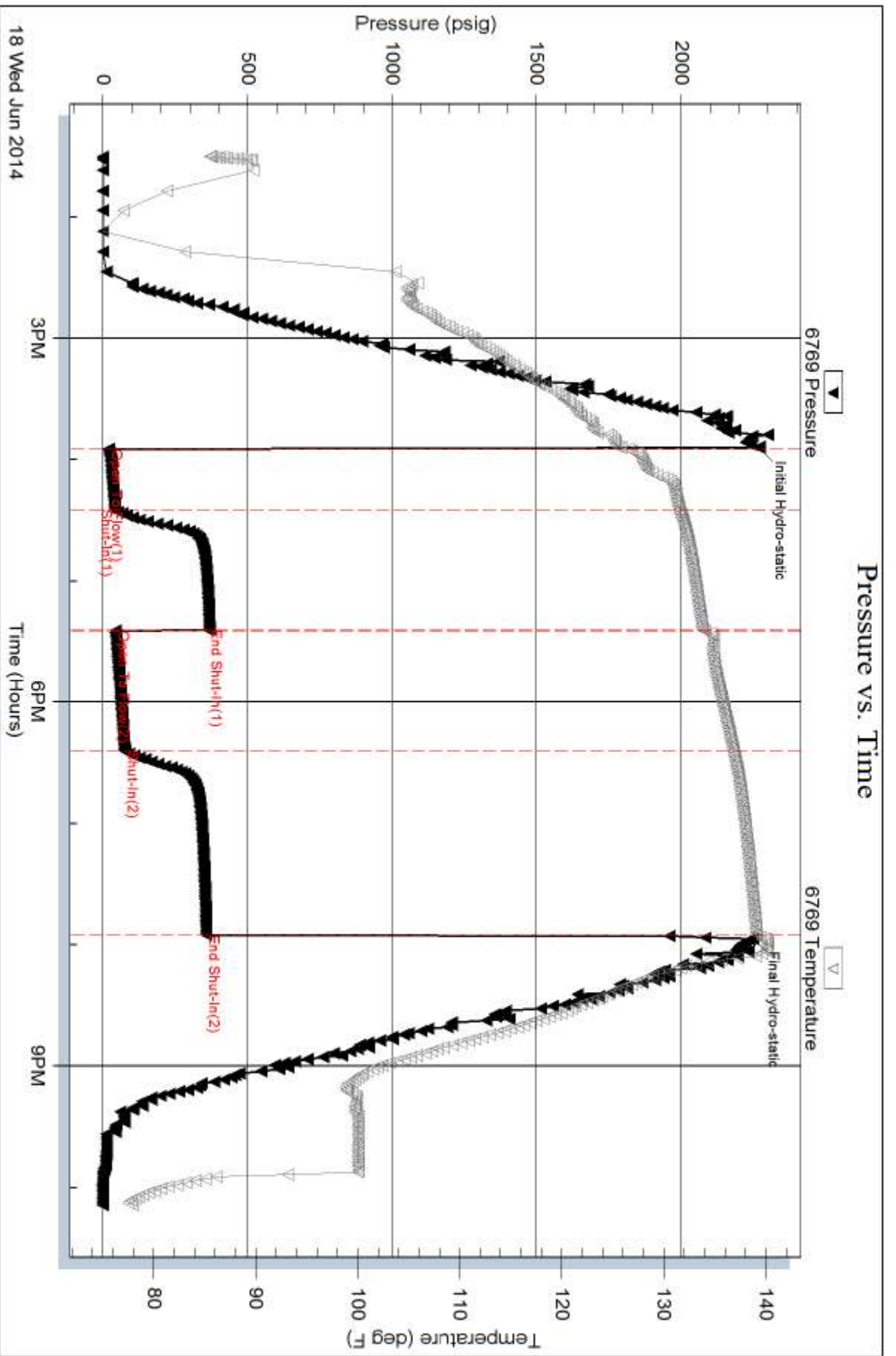
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



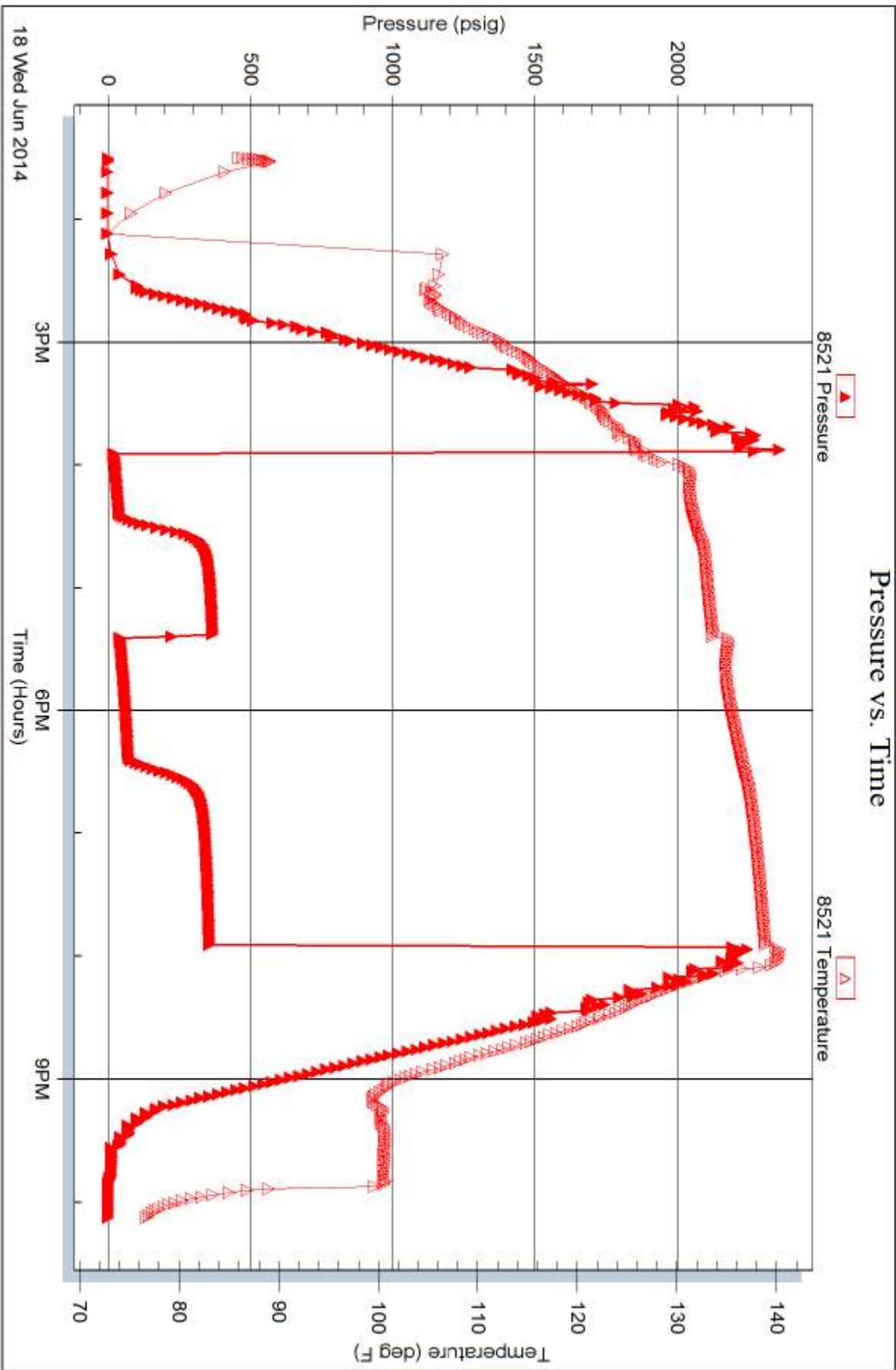
Serial #: 8521

Inside

Murfin Drilling CO, INC

Jones 'A' #2-17

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58797

Printed: 2014.06.23 @ 08:47:23



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58795

Well Name & No. Jones 'A' #2-17 Test No. 1 Date 6-16-2014  
 Company Murfin Drilling CO, INC Elevation 3192 KB 3192 GL  
 Address 250 N Water STE 300 Wichita KS, 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 17 Twp. 2S Rge. 37W Co. Cheyenne State KS.

Interval Tested 4093 - 4215 Zone Tested LKC "A-D"  
 Anchor Length 122 Drill Pipe Run 3913 Mud Wt. 9.7  
 Top Packer Depth 4089 Drill Collars Run 185 Vis 62  
 Bottom Packer Depth 4093 Wt. Pipe Run 0 WL 5.6  
 Total Depth 4215 Chlorides 700 ppm System LCM 4.0

Blow Description IF - Blow built to 4 1/4"  
ISI - NO return  
FP - Blow built to 8 3/4"  
FSI - Real weak surface blow on return died in 20 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>900m</u>	<u>17</u>	<u>40</u>	<u>43</u>	
Rec	Feet of <u>160 YIP</u>	%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 Total 210 BHT 132 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2016  Test 1250 T-On Location 05:15 6-16  
 (B) First Initial Flow 49  Jars 250 T-Started 06:15 6-16  
 (C) First Final Flow 78  Safety Joint 75 T-Open 09:25 6-16  
 (D) Initial Shut-In 1376  Circ Sub \_\_\_\_\_ T-Pulled 13:25 6-16  
 (E) Second Initial Flow 87  Hourly Standby \_\_\_\_\_ T-Out 15:56 6-16  
 (F) Second Final Flow 105  Mileage 132 RT 204.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1355  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1968  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1779.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1779.60

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Approved By Rocky Milford Our Representative Robert Zochow

Trilobite Testing Inc. shall not be liable for damaged or 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58796

Well Name & No. Jones 'A' #2-17 Test No. 2 Date 6-17-2014  
 Company Murfin Drilling CO, Inc. Elevation 3197 KB 3192 GL  
 Address 250 N water STE 300 Wichita KS, 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 17 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4210 - 4363 Zone Tested LKC "H-J"  
 Anchor Length 153 Drill Pipe Run 4007 Mud Wt. 9.2  
 Top Packer Depth 4206 Drill Collars Run 185 Vis 57  
 Bottom Packer Depth 4210 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4363 Chlorides 200 ppm System LCM 2.0  
 Blow Description IF - Blow built to 3/4"  
ISI - No return  
FF - NO blow  
FSI - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>	<u>spotted</u>		<u>100</u>	
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

Rec Total 20 BHT 131 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2081  Test 1250 T-On Location 07:45 6-17  
 (B) First Initial Flow 22  Jars 250 T-Started 08:15 6-17  
 (C) First Final Flow 26  Safety Joint 75 T-Open 11:15 6-17  
 (D) Initial Shut-In 624  Circ Sub \_\_\_\_\_ T-Pulled 14:16 6-17  
 (E) Second Initial Flow 28  Hourly Standby \_\_\_\_\_ T-Out 16:19 6-17  
 (F) Second Final Flow 30  Mileage 132 RT 204.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 474  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2070  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1779.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1779.60

Approved By Rocky Milford Our Representative Robert Zedner  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58797

Well Name & No. Jones 'A' #2-17 Test No. 3 Date 6-18-2019  
 Company Murfin Drilling CO, Inc Elevation 3197 KB 3192 GL  
 Address 250 N Water STE 300 Wichita KS, 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 17 Twp. 15 Rge. 37W Co. cheyenne State KS

Interval Tested 4513 - 4560 Zone Tested Pawnee  
 Anchor Length 47 Drill Pipe Run 4320 Mud Wt. 9.3  
 Top Packer Depth 4509 Drill Collars Run 185 Vis 55  
 Bottom Packer Depth 4513 (shale) Wt. Pipe Run 0 WL 6.4  
 Total Depth 4560 Chlorides 700 ppm System LCM 1.5  
 Blow Description IF - Blow built to 4 3/4  
ISI - No return  
FF - Blow built to 11"  
FSE - Return built to surface died in 45 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>123</u>	<u>oil</u>	<u>5</u>		<u>95</u>	
<u>62</u>	<u>ocm</u>	<u>5</u>	<u>45</u>	<u>50</u>	
	<u>124 HCP</u>				

Rec Total 185 BHT 139 Gravity 35 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2270  Test 1250 T-On Location 13:00 6-18  
 (B) First Initial Flow 20  Jars 250 T-Started 13:30 6-18  
 (C) First Final Flow 41  Safety Joint 75 T-Open 15:54 6-18  
 (D) Initial Shut-In 363  Circ Sub \_\_\_\_\_ T-Pulled 19:55 6-18  
 (E) Second Initial Flow 43  Hourly Standby \_\_\_\_\_ T-Out 22:08 6-18  
 (F) Second Final Flow 76  Mileage 132 RT X 2 409.20 Comments Loaded tool 6-19-14 at 12:00  
 (G) Final Shut-In 357  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2248  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2234.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2234.20

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