



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Mary Ann 'A' #1-7**

**7/1s/35w Rawlins KS**

Start Date: 2015.11.24 @ 00:10:00

End Date: 2015.11.24 @ 08:13:45

Job Ticket #: 62863                      DST #: 1

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

Printed: 2015.11.27 @ 10:23:46

Murfin Drilling Co., Inc.

7/1s/35w Rawlins KS

Mary Ann 'A' #1-7

DST # 1

LKC "A - D"

2015.11.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

ATTN: Robert Hendrix

Job Ticket: 62863

**DST#: 1**

Test Start: 2015.11.24 @ 00:10:00

## GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:09:45

Time Test Ended: 08:13:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

**Interval: 4171.00 ft (KB) To 4275.00 ft (KB) (TVD)**

Reference Elevations: 3251.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

3240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 89.89 psig @ 4172.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.24

End Date:

2015.11.24

Last Calib.:

2015.11.24

Start Time: 00:10:05

End Time:

08:13:44

Time On Btm:

2015.11.24 @ 02:09:30

Time Off Btm:

2015.11.24 @ 06:13:15

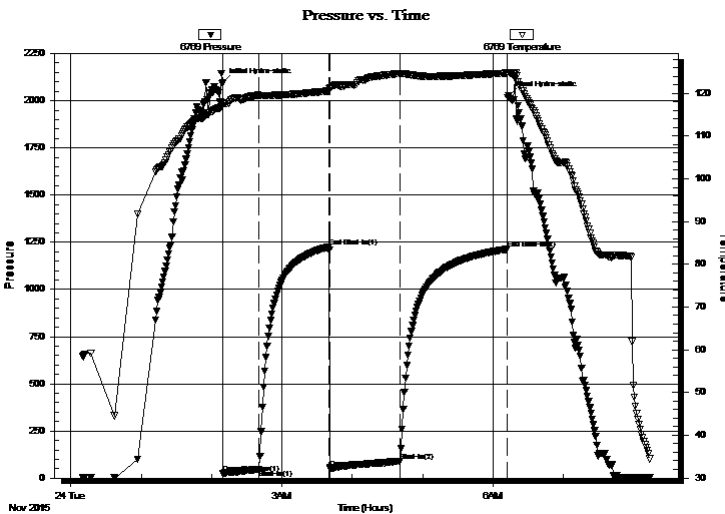
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 3"

60 - IS: No blow back

60 - FF: Blow started at 7 min., built to 2"

90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.93	117.09	Initial Hydro-static
1	24.70	117.50	Open To Flow (1)
31	47.59	119.53	Shut-In(1)
91	1225.99	120.56	End Shut-In(1)
91	52.99	121.02	Open To Flow (2)
151	89.89	124.62	Shut-In(2)
243	1213.49	124.74	End Shut-In(2)
244	2026.58	124.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud w/oil spots 98%m, 2%o	0.64

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62863

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2015.11.24 @ 00:10:00

## Tool Information

Drill Pipe:	Length: 3977.00 ft	Diameter: 3.80 inches	Volume: 55.79 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: 175.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4171.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	132.00 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			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	3.00			4161.00	
Packer	5.00			4166.00	28.00 Bottom Of Top Packer
Packer	5.00			4171.00	
Stubb	1.00			4172.00	
Recorder	0.00	6769	Inside	4172.00	
Recorder	0.00	8366	Outside	4172.00	
Perforations	35.00			4207.00	
Blank Spacing	65.00			4272.00	
Bullnose	3.00			4275.00	104.00 Bottom Packers & Anchor

**Total Tool Length: 132.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62863

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2015.11.24 @ 00:10:00

### 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: 65.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud w /oil spots 98%m, 2%o	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl

Num Fluid Samples: 0

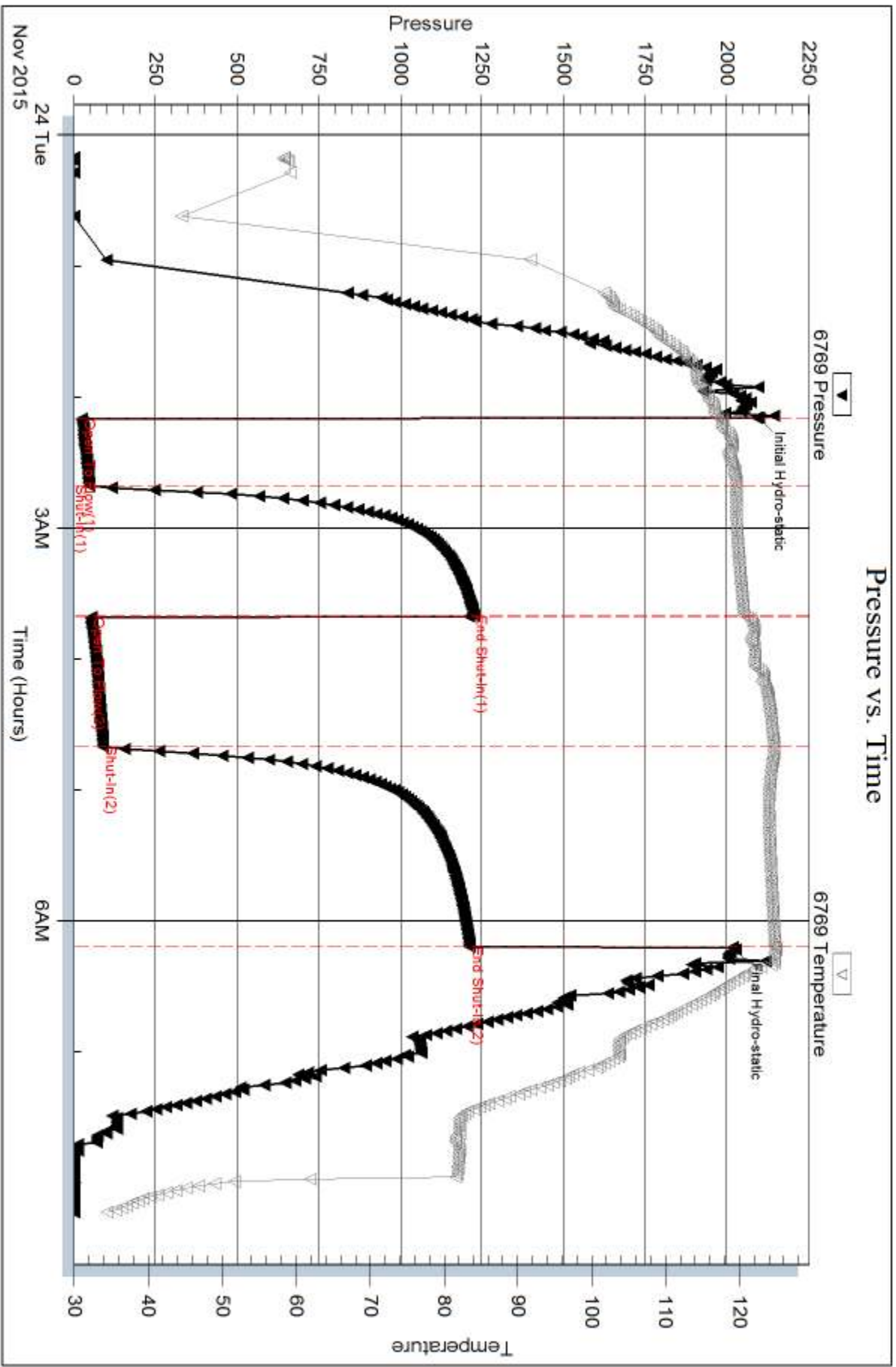
Num Gas Bombs: 0

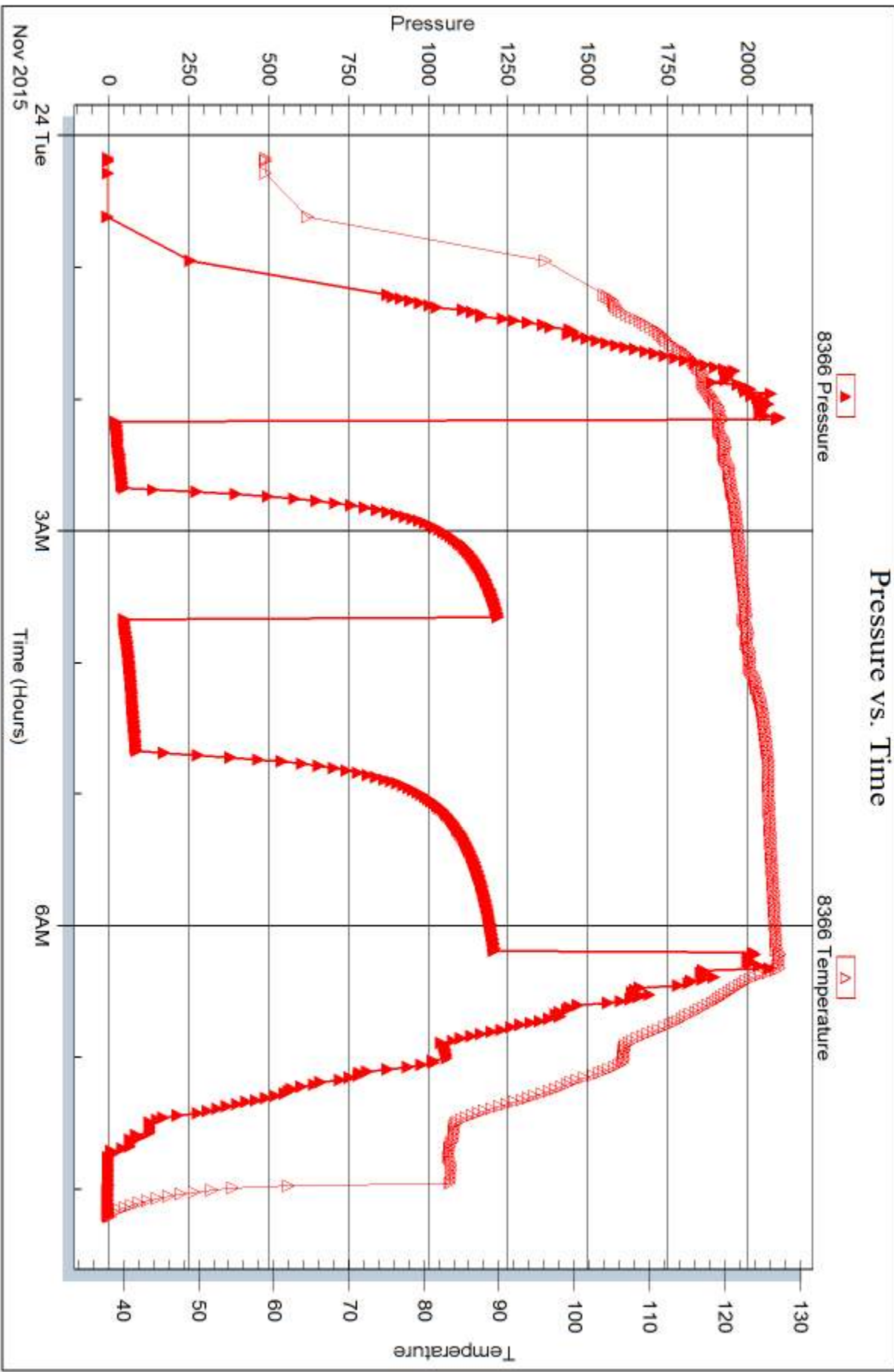
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Mary Ann 'A' #1-7**

**7/1s/35w Rawlins KS**

Start Date: 2015.11.24 @ 19:03:00

End Date: 2015.11.25 @ 02:51:00

Job Ticket #: 62864                      DST #: 2

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

Printed: 2015.11.27 @ 10:23:24

Murfin Drilling Co., Inc.  
7/1s/35w Rawlins KS  
Mary Ann 'A' #1-7  
DST # 2  
LKC "G"  
2015.11.24





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62864

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.11.24 @ 19:03:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:50:15

Time Test Ended: 02:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4276.00 ft (KB) To 4328.00 ft (KB) (TVD)**

Reference Elevations: 3251.00 ft (KB)

Total Depth: 4328.00 ft (KB) (TVD)

3240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 31.76 psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.24

End Date:

2015.11.25

Last Calib.:

2015.11.25

Start Time: 19:03:05

End Time:

02:50:59

Time On Btm:

2015.11.24 @ 20:50:00

Time Off Btm:

2015.11.25 @ 00:53:30

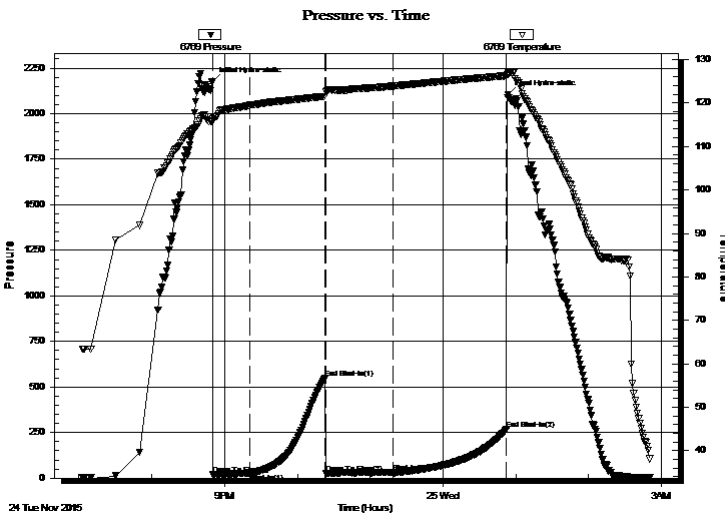
**TEST COMMENT:** 30 - IF: Blow built to just over 1"

60 - IS: No blow back

60 - FF: Blow started around 28 min., built slightly

90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.52	115.85	Initial Hydro-static
1	20.31	116.37	Open To Flow (1)
31	25.88	119.55	Shut-In(1)
93	547.20	121.55	End Shut-In(1)
94	25.95	122.61	Open To Flow (2)
149	31.76	123.91	Shut-In(2)
243	267.69	126.31	End Shut-In(2)
244	2103.49	126.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 74% m, 26% o	0.15

\* 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.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62864

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.11.24 @ 19:03:00

## Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 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: 175.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 58.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4276.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	5.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	6769	Inside	4277.00	
Recorder	0.00	8366	Outside	4277.00	
Perforations	15.00			4292.00	
Blank Spacing	33.00			4325.00	
Bullnose	3.00			4328.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62864

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.11.24 @ 19:03:00

## 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 74% <sub>m</sub> , 26% <sub>o</sub>	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

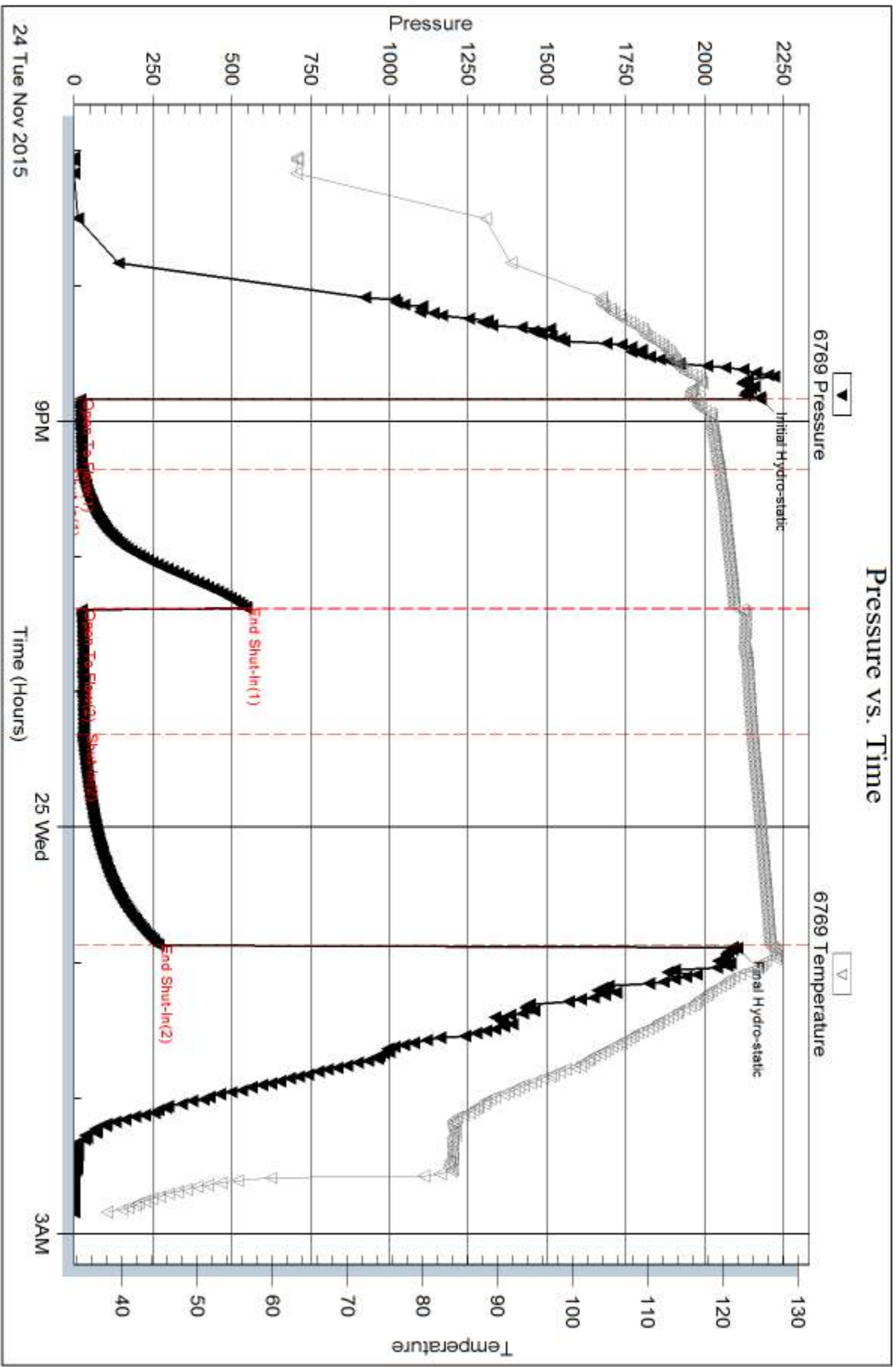
Num Gas Bombs: 0

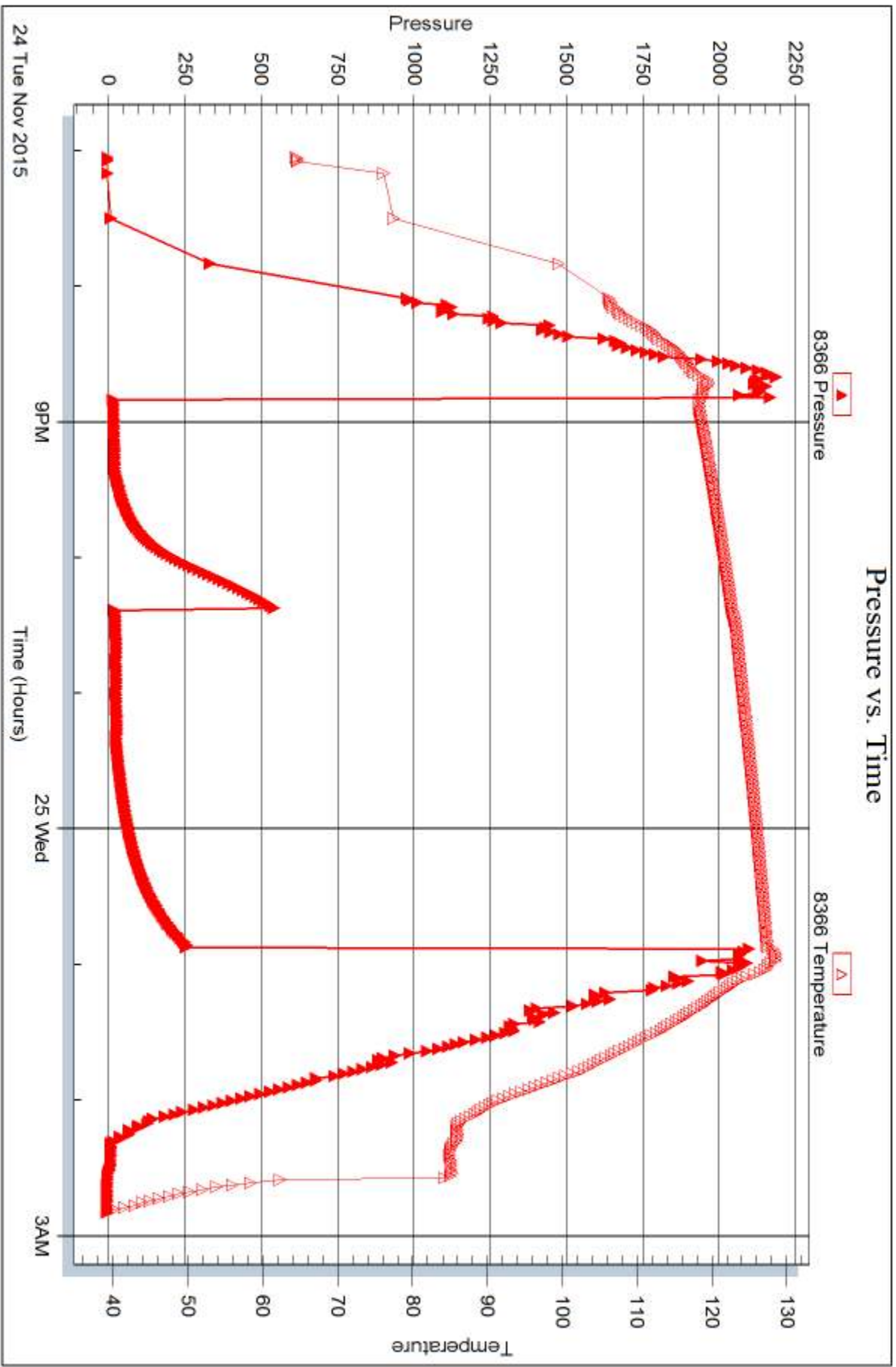
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Mary Ann 'A' #1-7**

#### **7/1s/35w Rawlins KS**

Start Date: 2015.11.25 @ 17:37:00

End Date: 2015.11.26 @ 01:43:00

Job Ticket #: 62865                      DST #: 3

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

Printed: 2015.11.27 @ 10:23:05



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

ATTN: Robert Hendrix

Job Ticket: 62865

**DST#: 3**

Test Start: 2015.11.25 @ 17:37:00

## GENERAL INFORMATION:

Formation: **LKC "G - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:42:15

Time Test Ended: 01:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4332.00 ft (KB) To 4427.00 ft (KB) (TVD)**

Reference Elevations: 3251.00 ft (KB)

Total Depth: 4427.00 ft (KB) (TVD)

3240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 69.45 psig @ 4333.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.25

End Date:

2015.11.26

Last Calib.:

2015.11.26

Start Time: 17:37:05

End Time:

01:42:59

Time On Btm:

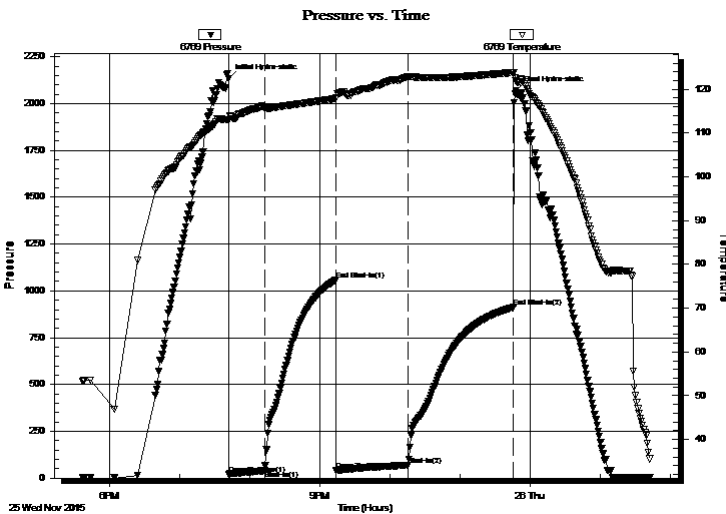
2015.11.25 @ 19:42:00

Time Off Btm:

2015.11.25 @ 23:47:45

**TEST COMMENT:** 30 - IF: Blow built to 2 1/4"  
60 - IS: No blow back  
60 - FF: Blow started at 11 min., built to just over 1"  
90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.50	113.07	Initial Hydro-static
1	20.95	112.99	Open To Flow (1)
31	39.94	115.81	Shut-In(1)
92	1058.88	117.92	End Shut-In(1)
93	42.53	118.15	Open To Flow (2)
154	69.45	122.83	Shut-In(2)
244	912.65	123.86	End Shut-In(2)
246	2067.94	122.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
105.00	Mud w/oil spots 97% <sub>m</sub> , 3% <sub>o</sub>	0.52

\* 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.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62865

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2015.11.25 @ 17:37:00

## Tool Information

Drill Pipe:	Length: 4136.00 ft	Diameter: 3.80 inches	Volume: 58.02 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: 175.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4332.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	123.00 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			4309.00	
Hydraulic tool	5.00			4314.00	
Jars	5.00			4319.00	
Safety Joint	3.00			4322.00	
Packer	5.00			4327.00	28.00 Bottom Of Top Packer
Packer	5.00			4332.00	
Stubb	1.00			4333.00	
Recorder	0.00	6769	Inside	4333.00	
Recorder	0.00	8366	Outside	4333.00	
Perforations	26.00			4359.00	
Blank Spacing	65.00			4424.00	
Bullnose	3.00			4427.00	95.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7/1s/35w Rawlins KS**

250 N. Water STE 300  
Wichita, KS 67202

**Mary Ann 'A' #1-7**

Job Ticket: 62865

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2015.11.25 @ 17:37:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	Mud w /oil spots 97% <sub>m</sub> , 3% <sub>o</sub>	0.516

Total Length: 105.00 ft      Total Volume: 0.516 bbl

Num Fluid Samples: 0

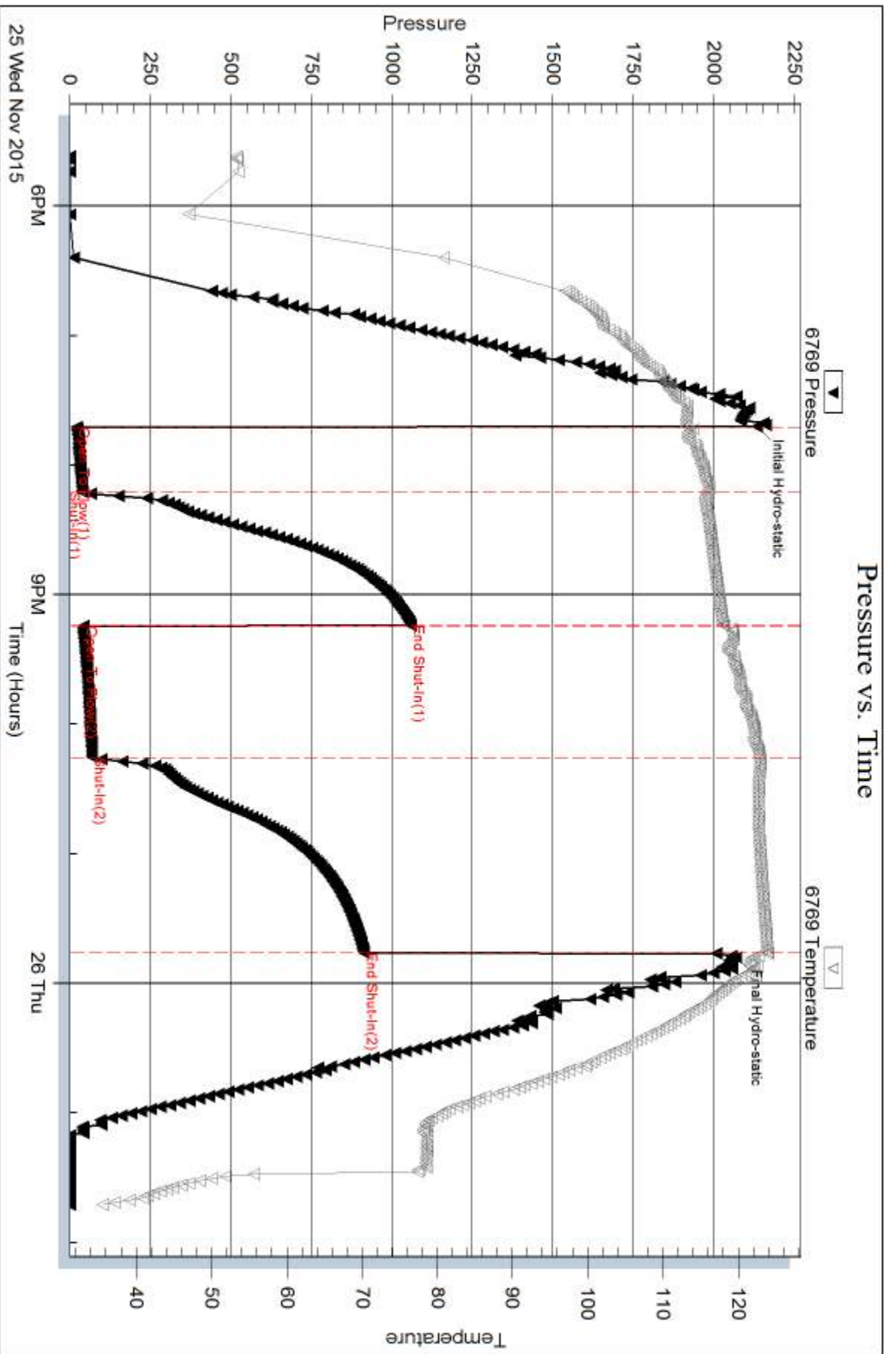
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

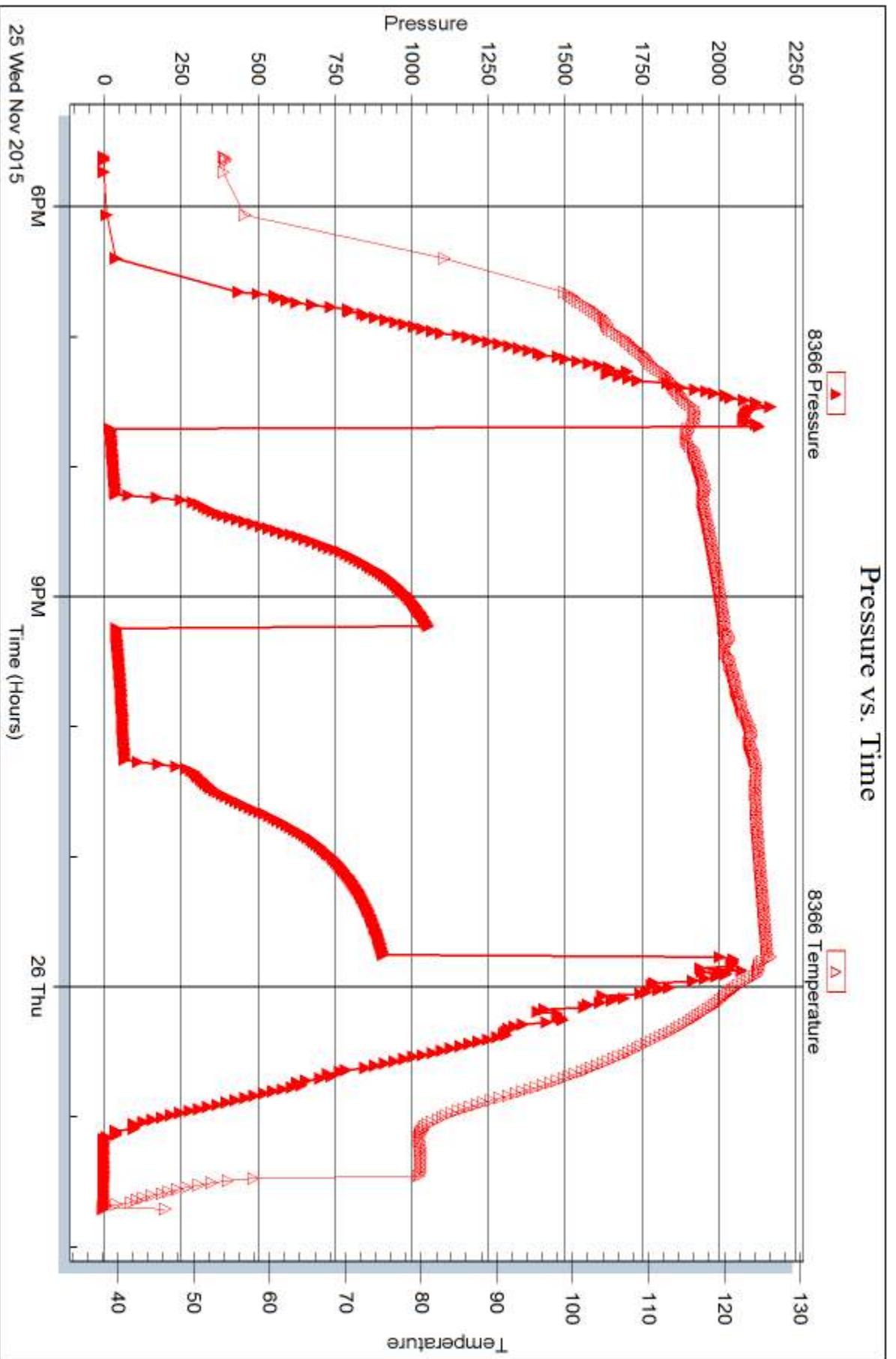


Serial #: 8366

Outside Murfin Drilling Co., Inc.

Mary Ann 'A' #1-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62965

Printed: 2015.11.27 @ 10:23:06



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62863

Well Name & No. Mary Ann 'A' #1-7 Test No. 1 Date 11-23-15  
 Company Murfin Drilling Co. Inc Elevation 3251 KB 3240 GL  
 Address 250 N. Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 1s Rge. 35w Co. Rawlins State KS

Interval Tested 4171 - 4275 Zone Tested LKC "A-D"  
 Anchor Length 104 Drill Pipe Run 3977 Mud Wt. 9.1  
 Top Packer Depth 4166 Drill Collars Run 175 Vis 65  
 Bottom Packer Depth 4171 Wt. Pipe Run - WL 6.0  
 Total Depth 4275 Chlorides 1200 ppm System LCM 10

Blow Description IF: 1/4" Blow at open, built to 3"  
ISI: No blowback  
FF: Blow started at 7min, built to 2"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>Mud w/oil spots</u>	<u>2</u>	<u>98</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 130 BHT 125 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2098  Test 1150 T-On Location 21:15 11/23  
 (B) First Initial Flow 25  Jars 250 T-Started 00:10  
 (C) First Final Flow 48  Safety Joint 75 T-Open 2:09  
 (D) Initial Shut-In 1226  Circ Sub \_\_\_\_\_ T-Pulled 6:11  
 (E) Second Initial Flow 53  Hourly Standby \_\_\_\_\_ T-Out 8:05 11/24  
 (F) Second Final Flow 90  Mileage 110RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1213  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2027  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1585  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1585

Approved By [Signature] Our Representative James Winder  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62864

4/10

Well Name & No. Mary Ann 'A' #1-7 Test No. 2 Date 11-24-15  
 Company Murfin Drilling Co. Inc Elevation 3251 KB 3240 GL  
 Address 250 N. Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 1s Rge. 35w Co. Rawlins State KS

Interval Tested 4276 - 4328 Zone Tested LKC "G"  
 Anchor Length 52 Drill Pipe Run 4102 Mud Wt. 9.1  
 Top Packer Depth 4271 Drill Collars Run 175 Vis 70  
 Bottom Packer Depth 4276 Wt. Pipe Run - WL 5.2  
 Total Depth 4328 Chlorides 1200 ppm System LCM 13

Blow Description IF: Blow built to just over 1"  
ISI: No blowback  
FF: Blow started around 28 min., built slightly  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>	<u>26</u>		<u>74</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 30 BHT 126 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

A) Initial Hydrostatic 2178  Test 1150 T-On Location 18:15  
 B) First Initial Flow 20  Jars 250 T-Started 19:03  
 C) First Final Flow 26  Safety Joint 75 T-Open 20:50  
 D) Initial Shut-In 547  Circ Sub \_\_\_\_\_ T-Pulled 00:52  
 E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 2:45  
 F) Second Final Flow 32  Mileage 110RT Comments \_\_\_\_\_  
 G) Final Shut-In 268  Sampler \_\_\_\_\_  
 H) Final Hydrostatic 2103  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1585  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1585  
 MP/DST Disc't \_\_\_\_\_

Approved By R.D. [Signature] Our Representative James Winder

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62865

Well Name & No. Mary Ann 'A' #1-7 Test No. 3 Date 11-25-15  
 Company Murfin Drilling Co. Inc Elevation 3251 KB 3240 GL  
 Address 250 N. Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4332-4427 Zone Tested Lans "6-5"  
 Anchor Length 95 Drill Pipe Run 4136 Mud Wt. 9.2  
 Top Packer Depth 4327 Drill Collars Run 175 Vis 55  
 Bottom Packer Depth 4332 Wt. Pipe Run - WL 5.6  
 Total Depth 4427 Chlorides 1200 ppm System LCM 11

Blow Description IF: Blow built to 2 1/4"  
ISI: No blowback  
FF: Blow started at 11 min., built to just over 1"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>105</u>	<u>Mud w/oil spots</u>	<u>3</u>		<u>97</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 105 BHT 124 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2134  Test 1150 T-On Location 16:30 11/25  
 (B) First Initial Flow 21  Jars 250 T-Started 17:37  
 (C) First Final Flow 40  Safety Joint 75 T-Open 19:42  
 (D) Initial Shut-In 1059  Circ Sub \_\_\_\_\_ T-Pulled 23:45  
 (E) Second Initial Flow 43  Hourly Standby \_\_\_\_\_ T-Out 1:40 11/26  
 (F) Second Final Flow 69  Mileage 110RT Comments \_\_\_\_\_  
 (G) Final Shut-In 913  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2068  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1585  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1585

Approved By [Signature] Our Representative James Winder

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