

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1241461  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD
- Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_
- Dual Completion Permit #: \_\_\_\_\_
- SWD Permit #: \_\_\_\_\_
- ENHR Permit #: \_\_\_\_\_
- GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1241461

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Ladenburger 'A' 1-6
Doc ID	1241461

All Electric Logs Run

DIL
DUCP
MEL
BHCS





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300  
Wichita KS 67206

ATTN: Sam Sharifaie

### **Ladenberger "A" #1-6**

### **6-1s-35w Rawlins KS**

Start Date: 2014.11.04 @ 00:47:00

End Date: 2014.11.04 @ 08:53:30

Job Ticket #: 60038                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.10 @ 15:35:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60038

**DST#: 1**

ATTN: Sam Sharifaie

Test Start: 2014.11.04 @ 00:47:00

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:30

Time Test Ended: 08:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

**Interval: 4177.00 ft (KB) To 4234.00 ft (KB) (TVD)**

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4234.00 ft (KB) (TVD)

3201.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6752 Inside**

Press@RunDepth: 91.70 psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.04 End Date: 2014.11.04

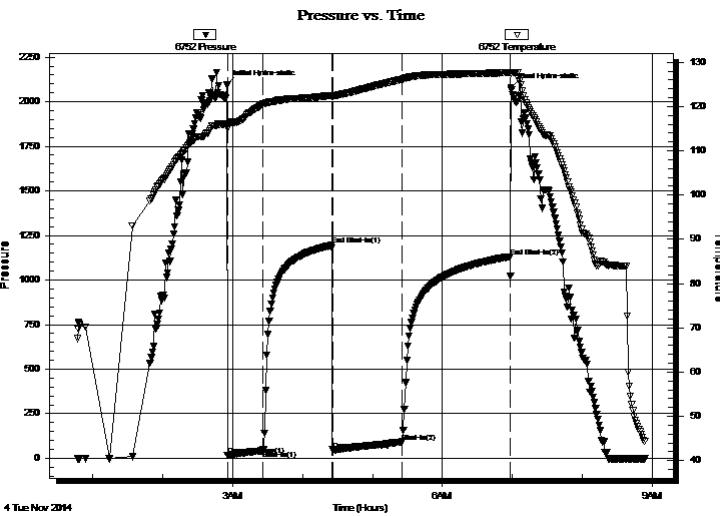
Last Calib.: 2014.11.04

Start Time: 00:47:05 End Time: 08:53:29

Time On Btm: 2014.11.04 @ 02:55:00

Time Off Btm: 2014.11.04 @ 06:59:00

**TEST COMMENT:** 30 IF - 1/4" blow built to 3"  
60 ISI - No return  
60 FF - Surface blow started @ 8 mins built to 3"  
90 FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.16	116.14	Initial Hydro-static
1	15.43	115.14	Open To Flow (1)
31	42.88	120.50	Shut-In(1)
90	1195.42	122.47	End Shut-In(1)
91	47.74	122.17	Open To Flow (2)
150	91.70	126.13	Shut-In(2)
243	1129.04	127.66	End Shut-In(2)
244	2080.22	127.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
59.00	MCW - 5%M - 95%W	0.29
59.00	MCW - 10%M - 95%W	0.29
57.00	WCM - 50%W - 50%M	0.28

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60038

**DST#: 1**

ATTN: Sam Sharifaie

Test Start: 2014.11.04 @ 00:47:00

## 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4177.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 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			4151.00	
Shut In Tool	5.00			4156.00	
Hydraulic tool	5.00			4161.00	
Jars	5.00			4166.00	
Safety Joint	2.00			4168.00	
Packer	5.00			4173.00	27.00 Bottom Of Top Packer
Packer	4.00			4177.00	
Stubb	1.00			4178.00	
Recorder	0.00	6752	Inside	4178.00	
Recorder	0.00	8322	Outside	4178.00	
Perforations	20.00			4198.00	
Change Over Sub	1.00			4199.00	
Drill Pipe	31.00			4230.00	
Change Over Sub	1.00			4231.00	
Bullnose	3.00			4234.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60038

**DST#: 1**

ATTN: Sam Sharifaie

Test Start: 2014.11.04 @ 00:47:00

## 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:

22000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	MCW - 5%M - 95%W	0.290
59.00	MCW - 10%M - 95%W	0.290
57.00	WCM - 50%W - 50%M	0.280

Total Length: 175.00 ft      Total Volume: 0.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

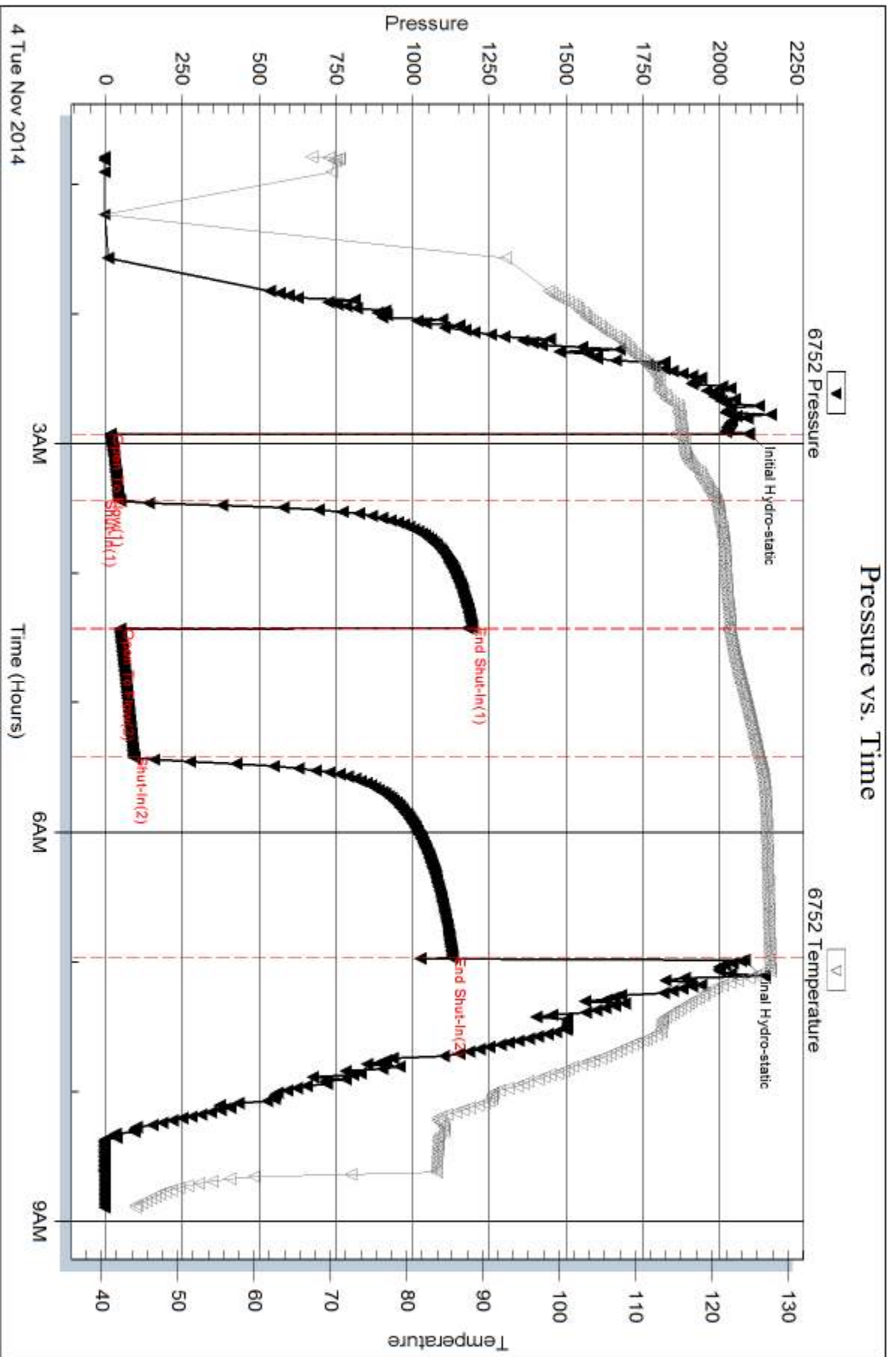
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .468 @ 38.9 DEG F

CHLORIDES = 22,000 PPM

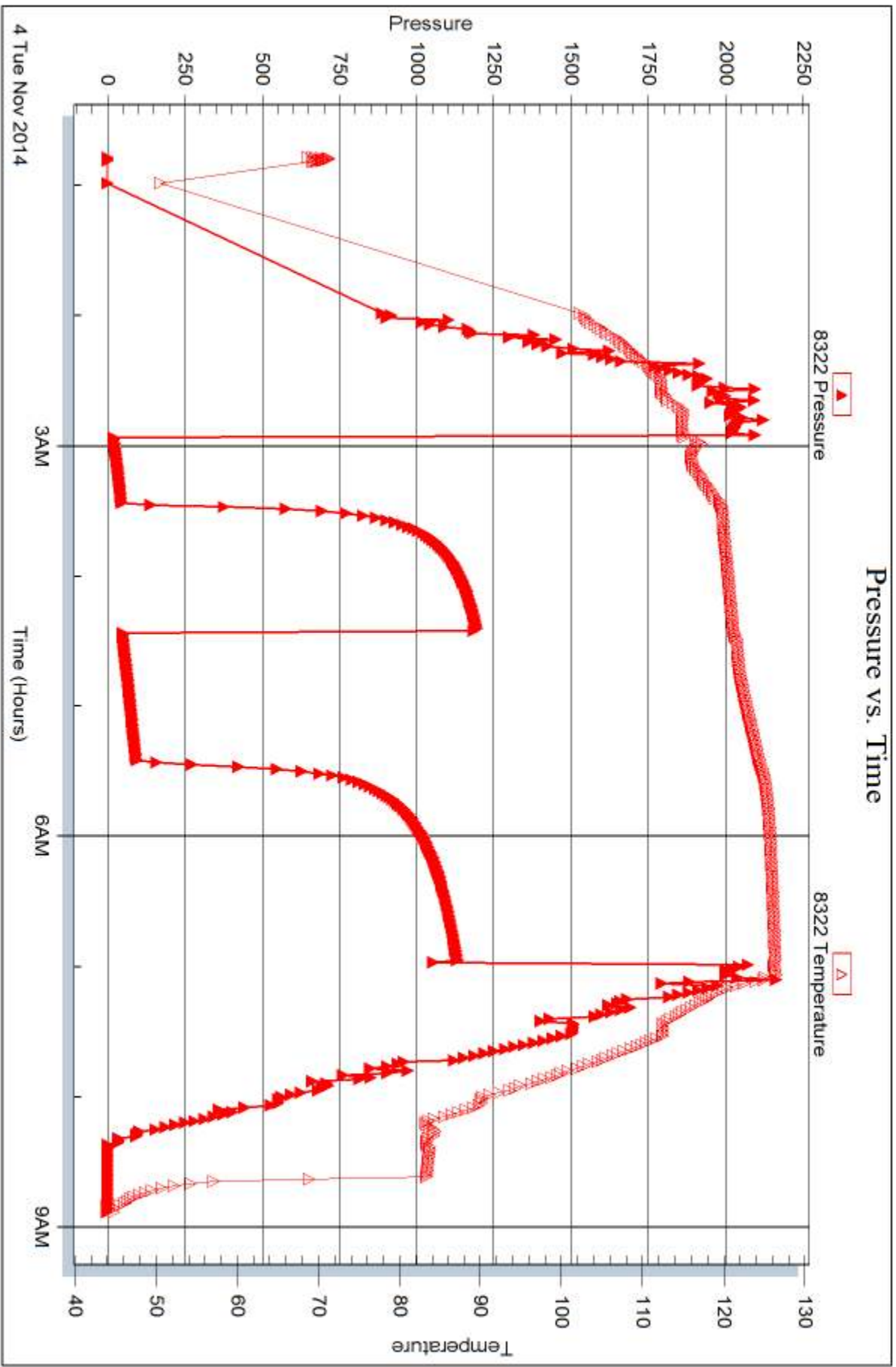


Serial #: 8322

Outside Murfin Drilling Co.

Ladenberger "A" #1-6

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 60038

Printed: 2014.11.10 @ 15:35:53



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300  
Wichita KS 67206

ATTN: Sam Sharifaie

### **Ladenberger "A" #1-6**

### **6-1s-35w Rawlins KS**

Start Date: 2014.11.04 @ 17:55:00

End Date: 2014.11.05 @ 01:02:30

Job Ticket #: 60039                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.10 @ 15:35:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water STE 300  
 Wichita KS 67206  
 ATTN: Sam Sharifaie

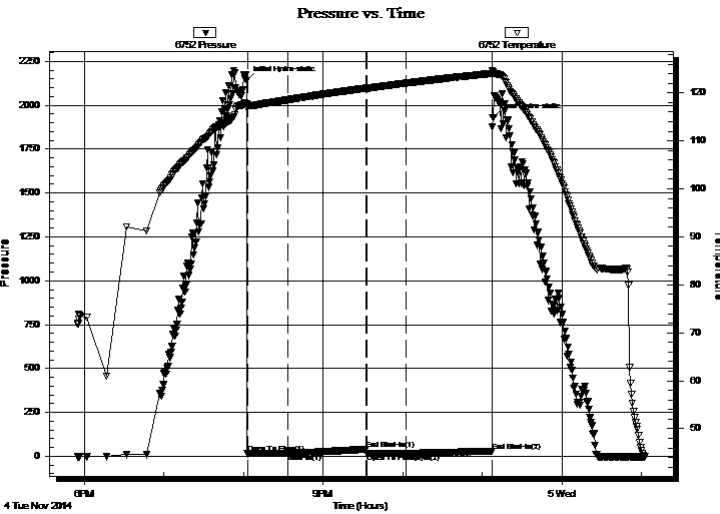
**6-1s-35w Rawlins KS**  
**Ladenberger "A" #1-6**  
 Job Ticket: 60039 **DST#: 2**  
 Test Start: 2014.11.04 @ 17:55:00

## GENERAL INFORMATION:

Formation: **LKC " G "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:03:00  
 Time Test Ended: 01:02:30  
 Interval: **4234.00 ft (KB) To 4290.00 ft (KB) (TVD)**  
 Total Depth: 4290.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Nichols  
 Unit No: 78  
 Reference Elevations: 3212.00 ft (KB)  
 3201.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6752 Inside**  
 Press@RunDepth: 16.18 psig @ 4235.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.04 End Date: 2014.11.05 Last Calib.: 2014.11.05  
 Start Time: 17:55:05 End Time: 01:02:29 Time On Btm: 2014.11.04 @ 20:02:45  
 Time Off Btm: 2014.11.04 @ 23:08:00

TEST COMMENT: 30 IF - 1/4" blow built to 3/4" (in diesel)  
 60 ISI - No return  
 30 FF - No blow  
 60 FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.50	117.74	Initial Hydro-static
1	14.85	116.95	Open To Flow (1)
31	16.49	118.54	Shut-In(1)
90	40.66	120.97	End Shut-In(1)
91	15.69	120.98	Open To Flow (2)
120	16.18	122.03	Shut-In(2)
185	30.23	124.04	End Shut-In(2)
186	1931.35	124.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud - 100%M	0.01

\* 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.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60039

**DST#: 2**

ATTN: Sam Sharifaie

Test Start: 2014.11.04 @ 17:55:00

## Tool Information

Drill Pipe:	Length: 4007.00 ft	Diameter: 3.80 inches	Volume: 56.21 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4234.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	83.00 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			4208.00	
Shut In Tool	5.00			4213.00	
Hydraulic tool	5.00			4218.00	
Jars	5.00			4223.00	
Safety Joint	2.00			4225.00	
Packer	5.00			4230.00	27.00 Bottom Of Top Packer
Packer	4.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	6752	Inside	4235.00	
Recorder	0.00	8322	Outside	4235.00	
Perforations	18.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	32.00			4286.00	
Change Over Sub	1.00			4287.00	
Bullnose	3.00			4290.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60039

**DST#: 2**

ATTN: Sam Sharifaie

Test Start: 2014.11.04 @ 17:55:00

## 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: 73.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud - 100%M	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

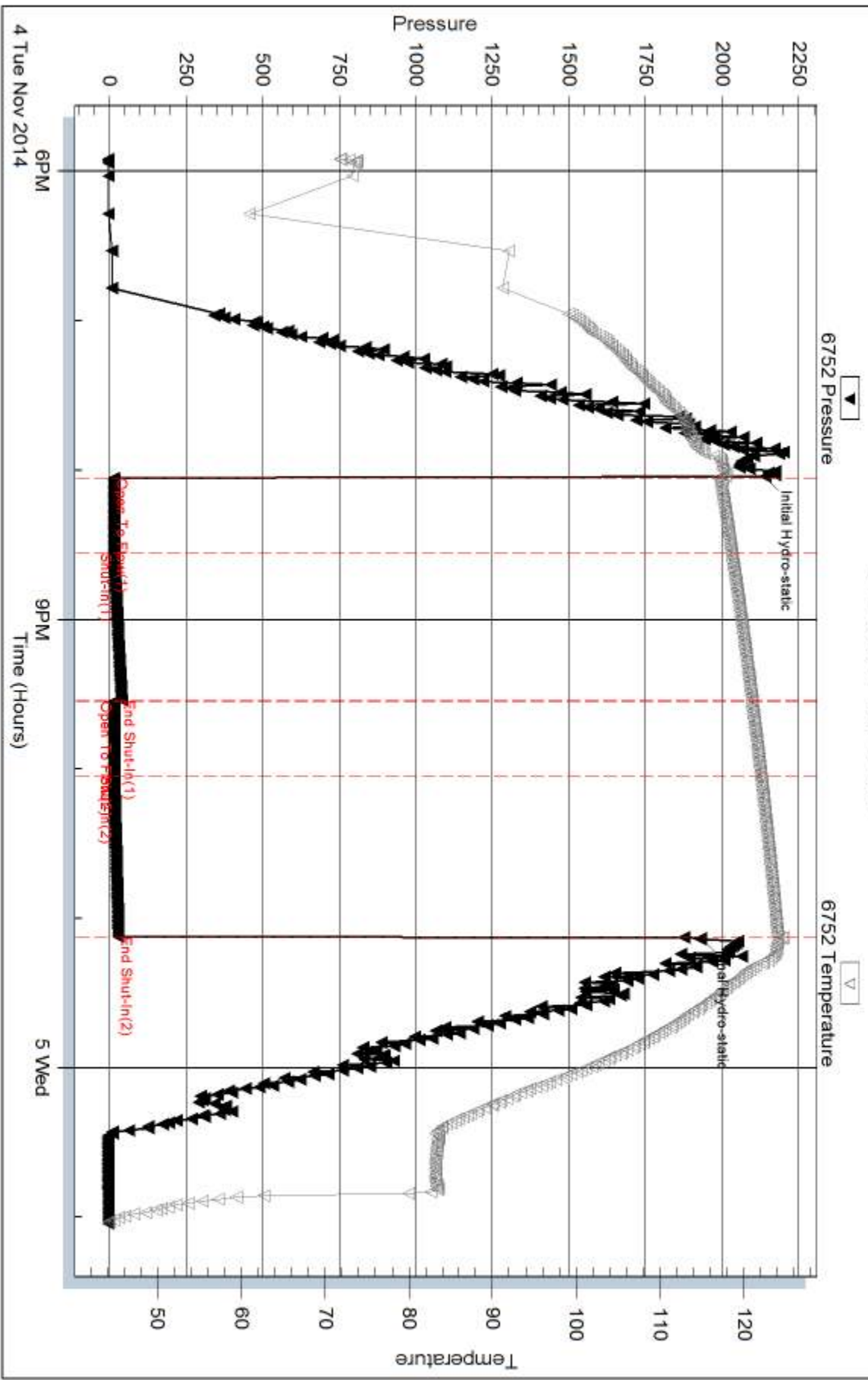
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

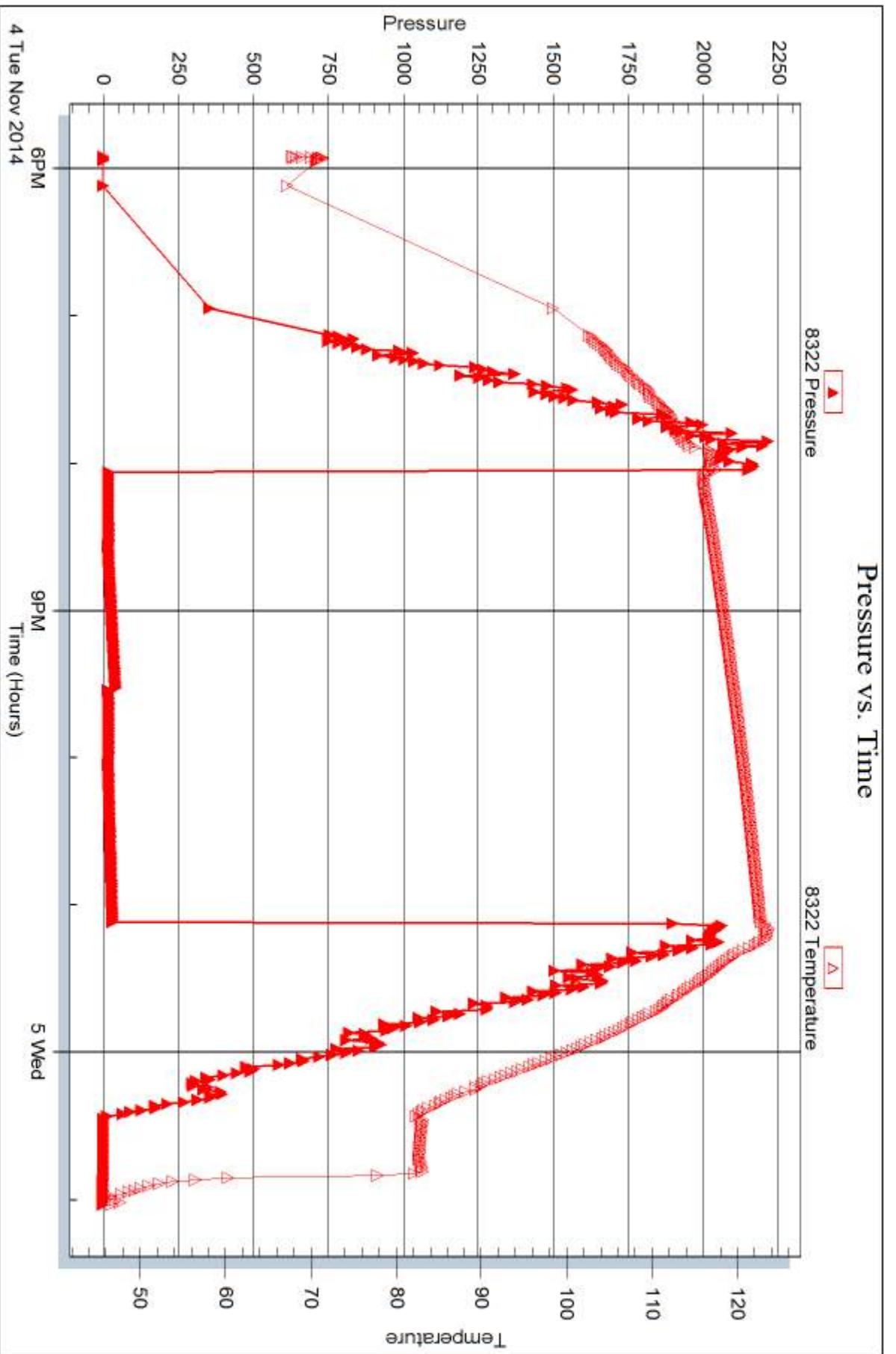


Serial #: 8322

Outside Murfin Drilling Co.

Ladenberger "A" #1-6

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60039

Printed: 2014.11.10 @ 15:35:20



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300  
Wichita KS 67206

ATTN: Sam Sharifaie

### **Ladenberger "A" #1-6**

### **6-1s-35w Rawlins KS**

Start Date: 2014.11.05 @ 13:23:00

End Date: 2014.11.05 @ 22:39:00

Job Ticket #: 60040                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.10 @ 15:32:27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60040

**DST#: 3**

ATTN: Sam Sharifaie

Test Start: 2014.11.05 @ 13:23:00

## GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:15

Time Test Ended: 22:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

**Interval: 4292.00 ft (KB) To 4386.00 ft (KB) (TVD)**

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4386.00 ft (KB) (TVD)

3201.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6752 Inside**

Press@RunDepth: 287.75 psig @ 4293.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.05 End Date: 2014.11.05

Last Calib.: 2014.11.05

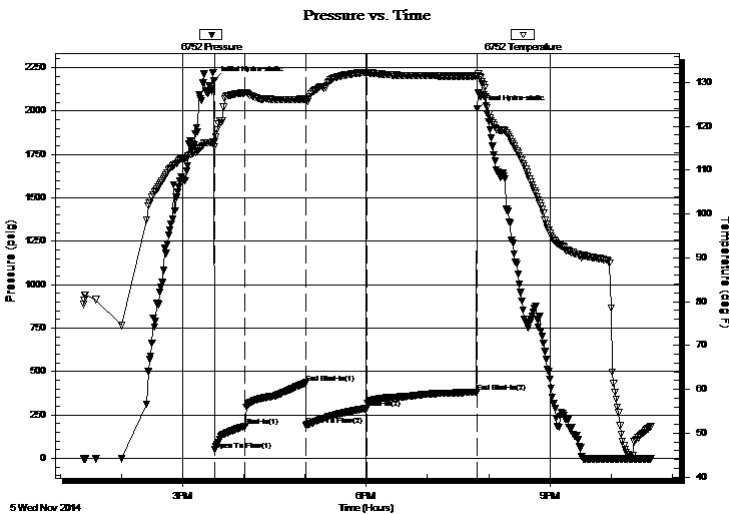
Start Time: 13:23:05 End Time: 22:39:00

Time On Btm: 2014.11.05 @ 15:31:00

Time Off Btm: 2014.11.05 @ 19:48:45

**TEST COMMENT:** 30 IF - 1" blow built to BoB @ 6 mins  
60 ISI - Surface blow built to 1 1/2" @ 33 mins died back to 1/4"  
60 FF - Surface blow built to BoB @ 11 mins  
90 FSI - Surface blow died @ 22 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.16	116.37	Initial Hydro-static
1	48.76	115.40	Open To Flow (1)
31	184.96	127.74	Shut-In(1)
90	435.31	126.20	End Shut-In(1)
90	189.73	126.10	Open To Flow (2)
150	287.75	132.29	Shut-In(2)
258	380.38	131.50	End Shut-In(2)
258	2009.73	131.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
237.00	OMCW - 10%o - 25%M - 65%W	1.45
126.00	OMCW - 15%o - 30%M - 55%W	1.77
189.00	OWCM - 10%o - 25%W - 65%M	2.65
38.00	GMCO - 5%G - 45%M - 50%o	0.53
15.00	GO - 10%G - 90%o	0.21
0.00	200' 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.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60040

**DST#: 3**

ATTN: Sam Sharifaie

Test Start: 2014.11.05 @ 13:23:00

## Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4292.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	94.00 ft				
Tool Length:	121.00 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			4266.00	
Shut In Tool	5.00			4271.00	
Hydraulic tool	5.00			4276.00	
Jars	5.00			4281.00	
Safety Joint	2.00			4283.00	
Packer	5.00			4288.00	27.00 Bottom Of Top Packer
Packer	4.00			4292.00	
Stubb	1.00			4293.00	
Recorder	0.00	6752	Inside	4293.00	
Recorder	0.00	8322	Outside	4293.00	
Perforations	24.00			4317.00	
Change Over Sub	1.00			4318.00	
Drill Pipe	64.00			4382.00	
Change Over Sub	1.00			4383.00	
Bullnose	3.00			4386.00	94.00 Bottom Packers & Anchor

**Total Tool Length: 121.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N. Water STE 300  
Wichita KS 67206

**Ladenberger "A" #1-6**

Job Ticket: 60040

**DST#: 3**

ATTN: Sam Sharifaie

Test Start: 2014.11.05 @ 13:23:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
237.00	OMCW - 10%o - 25%M - 65%W	1.448
126.00	OMCW - 15%o - 30%M - 55%W	1.767
189.00	OWCM - 10%o - 25%W - 65%M	2.651
38.00	GMCO - 5%G - 45%M - 50%o	0.533
15.00	GO - 10%G - 90%o	0.210
0.00	200' GIP	0.000

Total Length: 605.00 ft      Total Volume: 6.609 bbl

Num Fluid Samples: 0

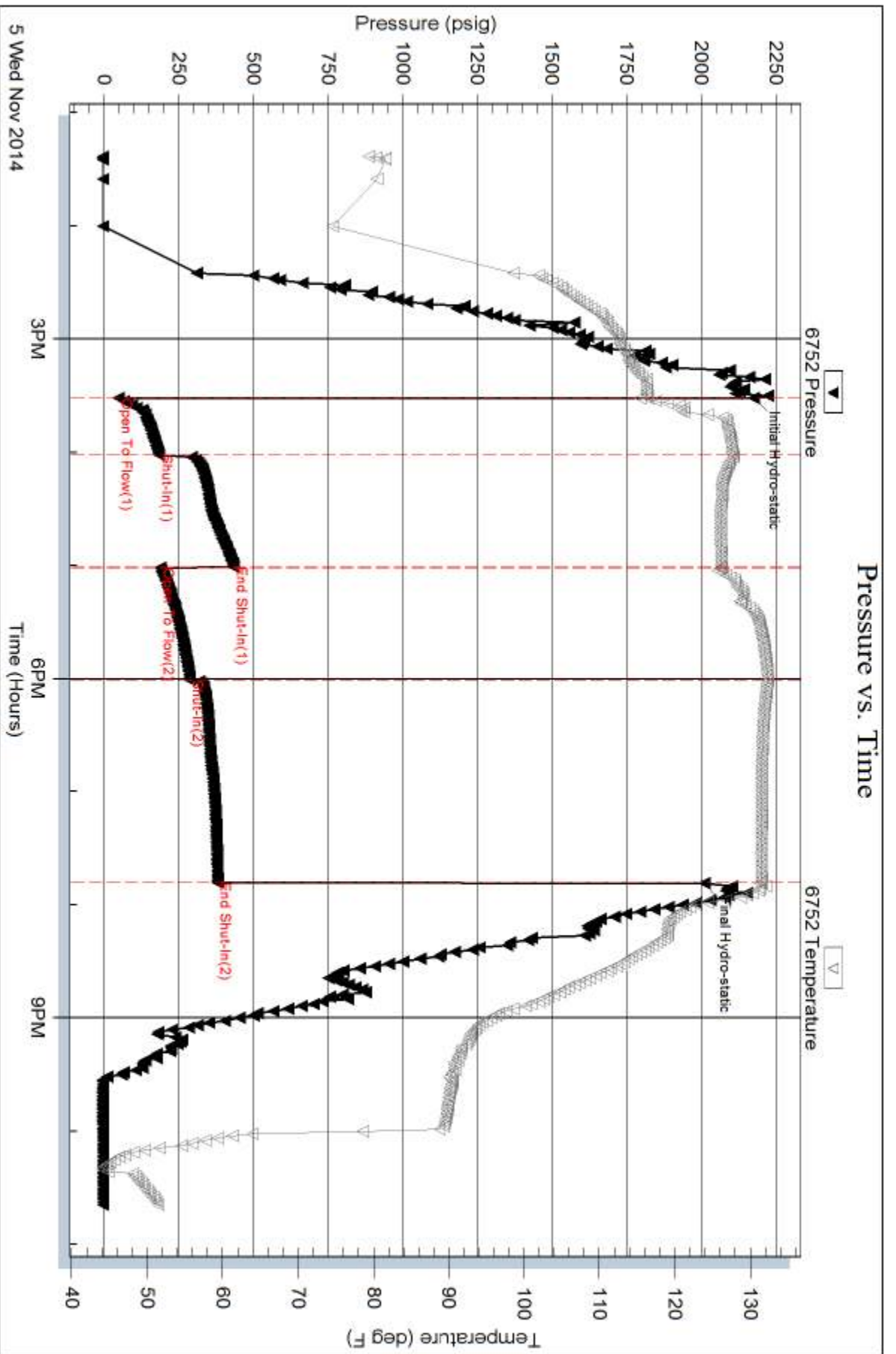
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 35 @ 80 DEG F = 33 COR 60 DEG F



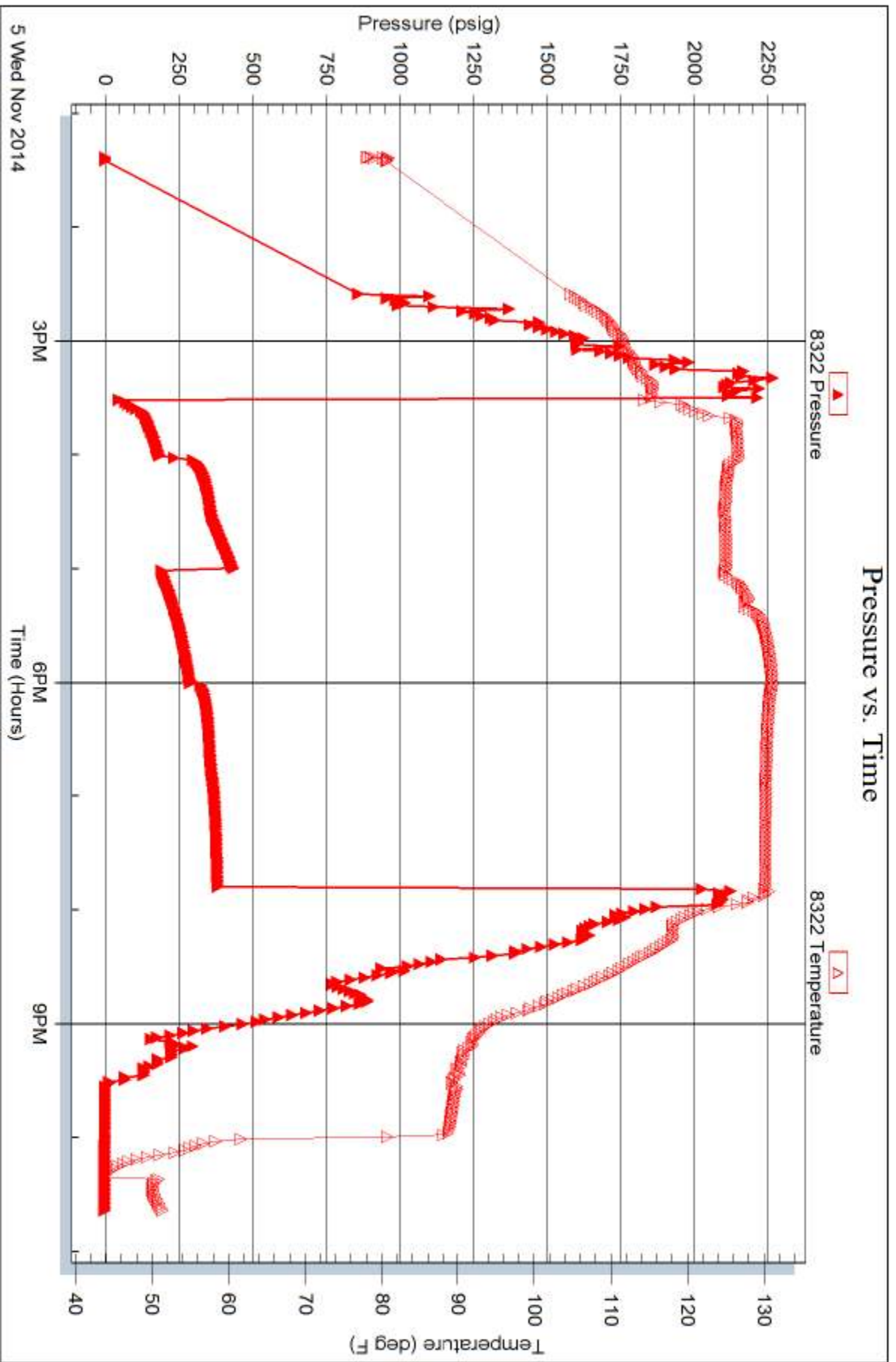


Serial #: 8322

Outside Murfin Drilling Co.

Ladenberger "A" #1-6

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60040

Printed: 2014.11.10 @ 15:32:28

# Test Ticket

TESTING INC.

15 Commerce Parkway • Hays, Kansas 67601

NO. 60038

No. Ladenburger "A" #1-6 Test No. 1 Date 11/4/14  
 Company Martin Drilling Co. Elevation 3201~~2~~12 KB 3201 GL  
 Address 250 N. Water STE 300 Wichita KS 67206  
 Co. Rep / Geo. Sam Sharifaie Rig Martin #2  
 Location: Sec. 8 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4177 - 4234 Zone Tested 2KC "A-D"  
 Anchor Length 57' Drill Pipe Run 3977' Mud Wt. 9.2  
 Top Packer Depth 4172 Drill Collars Run 206' Vis 54  
 Bottom Packer Depth 4177 Wt. Pipe Run 0' WL 7.2  
 Total Depth 4234 Chlorides 800 ppm System LCM 7  
 Blow Description IF - 1/4" blow built to 3" (in diesel)  
ISI - No return  
FF - Surface blow started @ 8 mins built to 3"  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>57'</u>	<u>MCW</u>		<u>50</u>	<u>50</u>	
<u>59'</u>	<u>WCM</u>		<u>90</u>	<u>10</u>	
<u>57'</u>	<u>WCM</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

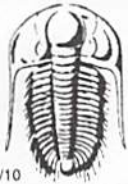
Rec Total 175' BHT 128° Gravity — API RW 468 @ 38.9° F Chlorides 32,000 ppm  
 Test 1250 T-On Location 00:00  
 Jars 250 T-Started 00:47  
 Safety Joint 75 T-Open 02:55  
 Circ Sub NC T-Pulled 06:55  
 Hourly Standby \_\_\_\_\_ T-Out 08:53  
 Mileage 116 RT 179.80 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1754.80

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

Approved By \_\_\_\_\_ Our Representative [Signature]

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. **60039**

4/10

Well Name & No. Ladenburger "A" #1-6 Test No. 2 Date 11/4/14  
 Company Martin Drilling Co Elevation 3212 KB 3201 GL  
 Address 250 N. Water STE 300 Wichita KS 67206  
 Co. Rep / Geo. Sam Sharitaie Rig Martin #2  
 Location: Sec. 6 Twp. 15 Rge. 35W Co. Kawlin State KS

Interval Tested 4234 - 4290 Zone Tested LKC "G"  
 Anchor Length 56' Drill Pipe Run 4007' Mud Wt. 9.1  
 Top Packer Depth 4229 Drill Collars Run 206' Vis 73  
 Bottom Packer Depth 4234 Wt. Pipe Run 0' WL 5.2  
 Total Depth 4290 Chlorides 600 ppm System LCM 8  
 Blow Description IF - 1/4" blow built to 3/4" (in diesel)  
FSI - No return  
FF - No blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Mud</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 2' BHT 124° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2140  Test 1250 T-On Location 17:30  
 (B) First Initial Flow 15  Jars 250 T-Started 17:55  
 (C) First Final Flow 16  Safety Joint 75 T-Open 20:02  
 (D) Initial Shut-In 41  Circ Sub NC T-Pulled 23:02  
 (E) Second Initial Flow 16  Hourly Standby — T-Out 01:02  
 (F) Second Final Flow 16  Mileage 116 RT 179.80 Comments —  
 (G) Final Shut-In 30  Sampler —  
 (H) Final Hydrostatic 1931  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1754.80  
 Accessibility — MP/DST Disc't —  
 Sub Total 1754.80

Approved By \_\_\_\_\_ Our Representative [Signature]

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. 60040

Well Name & No. Ladenburger "A" #1-6 Test No. 3 Date 11/5/14  
 Company Martin Drilling Co. Elevation 3212 KB 3201 GL  
 Address 250 N. Water STE 300 Wichita KS 67206  
 Co. Rep / Geo. Sam Sharitaie Rig Martin #2  
 Location: Sec. 6 Twp. 15 Rge. 35 W Co. Rawlins State KS

Interval Tested 4292 - 4386 Zone Tested 2KC "H-J"  
 Anchor Length 94' Drill Pipe Run 4070' Mud Wt. 9.2  
 Top Packer Depth 4287 Drill Collars Run 206' Vis 74  
 Bottom Packer Depth 4292 Wt. Pipe Run 0' WL 5.6  
 Total Depth 4386 Chlorides 800 ppm System LCM 3  
 Blow Description IF - 1" blow built to Bob @ 6 mins (in diesel)  
ISI - Surface blow built to 1 1/2" @ 33 mins died back to 1/4"  
FF - Surface blow built to Bob @ 11 mins  
FSI - Surface blow died @ 22 mins

Rec	Feet of	%gas	%oil	%water	%mud
15'	60	10	90		
38'	<del>60</del> GMCO	5	50		45
189'	OWCM		10	25	65
126'	OMCW		15	55	30
237'	OMCW		10	65	25

Rec Total 605' BHT 131° Gravity 33 API RW - @ - F Chlorides - ppm  
 (A) Initial Hydrostatic 2175  Test 1250 T-On Location 13:00  
 (B) First Initial Flow 49  Jars 250 T-Started 13:23  
 (C) First Final Flow 185  Safety Joint 75 T-Open 15:31  
 (D) Initial Shut-In 435  Circ Sub NL T-Pulled 19:06  
 (E) Second Initial Flow 190  Hourly Standby \_\_\_\_\_ T-Out 22:39  
 (F) Second Final Flow 288  Mileage 116 RT 179.80 Comments 200' GIP  
 (G) Final Shut-In 380  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2010  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1754.80  
 Sub Total 0  
 Total 1754.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# Saman Sharifaie

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY: **Martin Drilling Co., Inc.**  
LEASE: **Ladenburger "A" #1-6**

FIELD: **Wildcat**  
LOCATION: **3307 FSL & 1980 FEL**  
SEC: **6** TWP: **1S** RGE: **33W**  
COUNTY: **Randolph** STATE: **Kansas**  
CONTRACTOR: **Martin Drilling #2**

RTD: **4:54:00** LITD: **4:54:27**  
SPUD: **10/31/14** COMP: **11/07/14**  
MUD UP: **3:22:27** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **3:20:07** TO RTD  
DRILLING TIME KEPT FROM: **3:52:07** TO RTD  
SAMPLES EXAMINED FROM: **3:52:07** TO RTD

GEOLOGICAL SUPERVISION FROM: **3:22:07**  
REFERENCE WELL: **MDCI - Verna Poore #1-7**

FORMATION: **Nevea**

Formation	Sample Tops	E-log Tops	Strat Pos.
Anhydrite	3134 (+78)	3136 (+76)	-9
Base Anhydrite	3165 (+47)	3166 (+46)	-4
Nevea	3628 (-416)	3628 (-416)	-6
Foraker	3740 (-528)	3740 (-528)	-9
Foraker	3925 (-713)	3925 (-713)	-9
Foraker	4065 (-853)	4062 (-850)	-4
Overbed	4172 (-960)	4170 (-958)	-3
Leaning	4442 (-1230)	4437 (-1225)	-6

ELEVATIONS  
KB 3212'

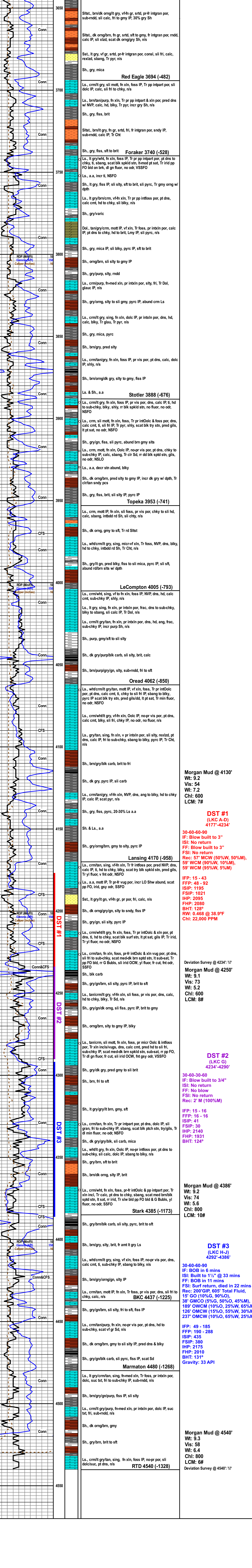
MEASUREMENTS ARE ALL FROM KELLY BUSHING  
CASING CONDUCTOR SURFACE: 8-5/8" at 265' PRODUCTION: 5-1/2" at 453'

ELECTRICAL SURVEYS  
CND; DIL; MEL; SWIN  
Pioneer Wellfile

REMARKS Due to shows of oil in multiple potential pay zones and positive DST#3 results (LKC H-J), it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,  
API #15-153-21066  
Saman Sharifaie  
Petroleum Geologist

\*Tops have been adjusted to electric logs



Engineering Data  
Deviation Survey @ 3506': 1/2" Pipe Strap: 2.96" Long to Board

Morgan Mud @ 3594'  
Wt: 8.7  
Vis: 56  
Yield: 5.6  
Chl: 600  
LCM: 6#

Morgan Mud @ 4130'  
Wt: 9.2  
Vis: 64  
Yield: 7.2  
Chl: 700  
LCM: 7#

DST #1 (LKC A-D) 4177'-4234'  
30-60-60-90  
IF: Blow built to 3"  
ISI: No return  
FF: Blow built to 3"  
FSI: No return  
Rec: 57' MCW (50%W, 50%M), 59' WCM (90%W, 10%M), 59' WCM (95%W, 5%M)

Morgan Mud @ 4250'  
Wt: 9.1  
Vis: 73  
Yield: 5.2  
Chl: 800  
LCM: 8#

DST #2 (LKC G) 4234'-4290'  
30-60-60-60  
IF: Blow built to 3/4"  
ISI: No return  
FF: No blow  
FSI: No return  
Rec: 2' M (100%M)

Morgan Mud @ 4386'  
Wt: 9.2  
Vis: 74  
Yield: 5.6  
Chl: 800  
LCM: 10#

DST #3 (LKC H-J) 4292'-4386'  
30-60-60-60  
IF: BOB in 6"  
ISI: Built to 1 1/2" @ 33 mins  
FF: BOB in 11 mins  
FSI: Surf return, dled in 22 mins  
Rec: 200' GIP, 605' Total Fluid, 15' GO (10%G, 90%O), 38' GMCO (5%G, 50%O, 45%M), 189' OMCW (15%O, 25%W, 65%M), 126' OMCW (10%O, 55%W, 30%M), 237' OMCW (10%O, 65%W, 25%M)

Morgan Mud @ 4540'  
Wt: 9.3  
Vis: 58  
Yield: 6.4  
Chl: 800  
LCM: 6#  
Deviation Survey @ 4540': 1/2"

acct  
Prod-mo



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 146746  
Invoice Date: Oct 31, 2014  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

Federal Tax I.D.#: 20-8651475

<b>Bill To:</b>
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	64220	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 31, 2014	11/30/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Landenburger A #1-6		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
620.00	CEMENT MATERIALS	Chloride	1.10	682.00
231.00	CEMENT SERVICE	Cubic Feet Charge	2.48	572.88
852.00	CEMENT SERVICE	Ton Mileage Charge	2.75	2,343.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

Subtotal	10,291.13
Sales Tax	364.98
Total Invoice Amount	10,656.11
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,656.11</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3,601.89 *25%*

ONLY IF PAID ON OR BEFORE

**Nov 30, 2014**

*OK SR*

3601.89  
7054.22







# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 1469 51

Invoice Date: Nov 7, 2014

Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

Federal Tax I.D.#: 20-8651475

<b>Bill To:</b>
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	64346	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 7, 2014	12/7/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Ladenburger A #1-6		
200.00	CEMENT MATERIALS	ASC	23.50	4,700.00
300.00	CEMENT MATERIALS	AMD Class A	26.57	7,971.00
1,000.00	CEMENT MATERIALS	Gilsonite	0.98	980.00
4.00	CEMENT MATERIALS	KCL	34.40	137.60
12.00	CEMENT MATERIALS	Super Flush	41.09	493.08
599.80	CEMENT SERVICE	Cubic Feet Charge	2.48	1,487.50
2,134.40	CEMENT SERVICE	Ton Mileage Charge	2.75	5,869.60
1.00	CEMENT SERVICE	Production Casing	2,765.95	2,765.95
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Plug	660.00	660.00
15.00	EQUIPMENT SALES	5-1/2 Turbolizer	95.00	1,425.00
3.00	EQUIPMENT SALES	5-1/2 Basket	395.00	1,185.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	George Grant		

IC103  
FH R

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 8,976.69

ONLY IF PAID ON OR BEFORE  
Dec 7, 2014

Subtotal	29,462.73
Sales Tax	1,429.64
Total Invoice Amount	30,892.37
Payment/Credit Applied	
<b>TOTAL</b>	<b>30,892.37</b>

— Less Discou.t



# ALLIED OIL & GAS SERVICES, LLC 064346

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, TX

DATE <u>11-7-14</u>	SEC. <u>6</u>	TWP. <u>1</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION <u>3:00pm</u>	JOB START <u>7:00am</u>	JOB FINISH <u>8:30am</u>
LEASE <u>Ladenburger</u>				WELL# <u>1-6</u>	LOCATION <u>Beardsley, N to CC, 2140</u>	COUNTY <u>Newlin</u>	STATE <u>TX</u>
OLD OR NEW (Circle one) <u>NEW</u>				LOCATION <u>1 N.</u>			

CONTRACTOR <u>Murfin</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4540</u>
CASING SIZE <u>5 7/8</u>	DEPTH <u>4532</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>220'</u>
CEMENT LEFT IN CSG. <u>22'</u>	
PERFS.	
DISPLACEMENT <u>107.34</u>	

EQUIPMENT		CEMENT	
PUMP TRUCK # <u>423/281</u>	CEMENTER <u>Robert E. Wenzel</u>	AMOUNT ORDERED <u>300 SKS AMP, 200 SKS ASC, 100 SKS 2 1/2" gel 54 g/bonite</u>	
BULK TRUCK # <u>894/241</u>	HELPER <u>Wayne Mc Ghughy</u>	<u>500 gal Superflush, 4 gal KCL</u>	
BULK TRUCK #	DRIVER <u>George Grant</u>	COMMON @	
BULK TRUCK #	DRIVER	POZMIX @	
		GEL @	
		CHLORIDE @	
		ASC @ <u>200 SKS</u>	<u>23.50 4700.00</u>
		CD-ANDA @ <u>300 SKS</u>	<u>26.57 7971.00</u>
		9/16 bonite @ <u>1000 #</u>	<u>.98 98.00</u>
		KCL @ <u>4 gal</u>	<u>34.40 137.60</u>
		Superflush @ <u>12 bbl</u>	<u>41.09 493.08</u>
		Manifold @ <u>13.31 KCL</u>	<u>13.31</u>
		( <u>1689.59 / 35</u> )	
		HANDLING @ <u>57.8 #</u>	<u>2.48 1412.50</u>
		MILEAGE @ <u>26.60 mi x 80 x 2.75</u>	<u>5867.60</u>
		TOTAL	

REMARKS:  
 Circ 1 hr 1/2" hole,  
 Pump Ball through 500ft Circ 1 hr  
 Mix Super Flush, Pump 20 bbl KCL  
 Plug Rth 30 SKS Plug M.H. 20 SKS  
 M.H. 20 SKS AMP, Mix 200 SKS ASC  
 Pump 20 bbl KCL, Displace with  
 water. Land plug 100 ft. Flood hole  
 Cement dip clean late.  
 Thank you

CHARGE TO: Murfin  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE	
DEPTH OF JOB <u>4532'</u>	
PUMP TRUCK CHARGE	<u>2763.95</u>
EXTRA FOOTAGE @	
MILEAGE <u>M.H. 80</u>	<u>2.20 176.00</u>
MANIFOLD <u>Head</u>	<u>275.00</u>
<u>M.H. 80</u>	<u>4.90 352.00</u>
TOTAL	<u>11,366.05</u>

(3,970.11/35%)

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Glen Weisman  
 SIGNATURE Glen Weisman

PLUG & FLOAT EQUIPMENT	
Weatherford	
AFU Flood Shoe @	<u>545.00</u>
catch down Plug @	<u>660.00</u>
(5) Turbolizers @	<u>95.00 475.00</u>
(3) Baskets @	<u>375.00 1125.00</u>
TOTAL	<u>3,815.00</u>

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 28,585.73  
 DISCOUNT 8,668.00 (35%) IF PAID IN 30 DAYS

19,917.73 Net

Ladenburger 'A' #1-6  
 330 FSL 1980 FEL  
 Sec. 6-1S-35W  
 3212' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref		
Anhydrite	3134	+78	-7	3136	+76	-9		
B/Anhydrite	3165	+47	-3	3166	+46	-4		
Foraker	3740	-528	-9	3740	-528	-9		
Topeka	3952	-740	-8	3953	-741	-9		
Oread	4065	-853	-7	4062	-850	-4		
Lansing	4172	-960	-5	4170	-958	-3		
BKC	4442	-1230	-11	4437	-1225	-6		
RTD	4540							
LTD				4542				