



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1108948  
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: \_\_\_\_\_



1108948

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 21, 2013

Leon Rodak  
Murfin Drilling Co., Inc.  
250 N WATER STE 300  
WICHITA, KS 67202-1216

Re: ACO1  
API 15-055-22181-00-00  
JLM 1-15  
NE/4 Sec.15-21S-34W  
Finney County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Leon Rodak

MDCI JLM #1-15 550' FNL 2300' FEL Sec. 15-T21S-R34W 2975' KB							Kaiser-Francis Vaughn #1 C W2 NE NW Sec. 15-T21S-R34W 2981' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite	2007	+968	-8	2008	+967	-9	2005	+976
B/Anhydrite	2103	+872	-9	2104	+871	-10	2100	+881
Topeka	3529	-554	-1	3530	-555	-2	3534	-553
Heebner	3817	-842	-1	3817	-842	-1	3822	-841
Lansing	3865	-890	-3	3866	-891	-4	3868	-887
Stark	4176	-1201	-5	4176	-1201	-5	4177	-1196
Pawnee	4419	-1444	+1	4419	-1444	+1	4426	-1445
Ft. Scott	4459	-1484	+5	4460	-1485	+4	4470	-1489
Morrow	4644	-1669	+8	4645	-1670	+7	4658	-1677
Mississippian	4672	-1702	+9	4678	-1708	+3	4692	-1711
RTD	4850						4889	
LTD				4853				

# Jeff Christian

PETROL/EUW GEOLOGIST  
Wichita, Kansas

## GEOLOGISTS' REPORT

DRIILLING TIME AND SAMPLE LOG

OPERATOR **MURFIN DRILLING COMPANY**

LEASE **JLM # 1-15**

LOCATION **550' FIN. & 2300' FEL**

DRILLING TIME AND SAMPLE LOG

OPERATION **JLM # 1-15**

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DRILLING TIME AND SAMPLE LOG

OPERATION **JLM # 1-15**

LEASE **JLM # 1-15**

LOCATION **550' FIN. & 2300' FEL**

DRILLING TIME AND SAMPLE LOG

OPERATION **JLM # 1-15**

LEASE **JLM # 1-15**

LOCATION **550' FIN. & 2300' FEL**

FORMATION NAME	LOG	DEPTH	SAMPLE	DATE	TIME	MET.	BKCS
BASE ANHYDRITE	2104'	(-871)	2103'	(-872)			
HEEBNER	3817'	(-842)	3817'	(-842)			
LANSTNG	3866'	(-891)	3865'	(-890)			
STARKE	4176'	(-1201)	4175'	(-1201)			
MAMMATON	4336'	(-1361)	4330'	(-1355)			
PAWNEE	4419'	(-1441)	4419'	(-1444)			
CHEROKEE	4489'	(-1514)	4484'	(-1509)			
MORROW SH	4645'	(-1620)	4644'	(-1619)			
MUS. ST. GEN.	4679'	(-1704)	4677'	(-1702)			
TOTAL DEPTH	4853'	(-1878)	4850'	(-1875)			

DATE	7:00 AM DEPTH	REMARKS
9/29/12	MIRT	SPUD 5:45 pm
9/30/12	340'	DRLG. dev. 1 deg. @ 225'
10/1/12	2452'	DRLG.
10/2/12	3597'	DRLG. dev. 1 deg. @ 3425'
10/3/12	4087'	TOH for DST # 1 dev. 4 deg. @ 4400'
10/4/12	4498'	OB w/ DST # 2
10/5/12	4690'	CFS
10/7/12	4818'	DRLG. RTD 4850' @ 9:30 am dev. 7 deg. @ 4850'

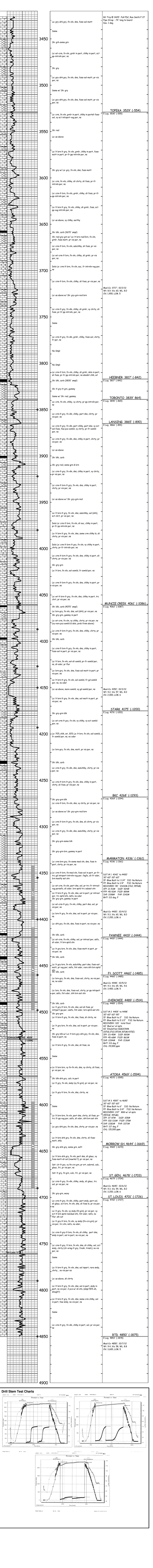
**Remarks**  
The JLM # 1-15 was declared dry and abandoned.  
All shows of oil were condemned by drill stem tests.

Electric log measurements correlate about even to 1' deep compared to rotary measurements  
Sample tops adjusted to the electric log.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,  
*Jeff Christian*  
Jeff Christian

LITH	DRILL TIME (MIN:FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
		2000		ANHYDRITE 2007' (-968) E Log 2010 (-965)
		2100		Bose ANHYDRITE 2103' (-872) E Log 2104 (-871)





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

205 N. Water Suite 300  
Wichita, KS 67202

ATTN: Jeff Christian

**JLM #1-15**

**S15-21s-34w Finney,KS**

Start Date: 2012.10.04 @ 08:54:00

End Date: 2012.10.04 @ 16:06:30

Job Ticket #: 48459                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.09 @ 10:09:47



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 205 N. Water Suite 300  
 Wichita, KS 67202  
 ATTN: Jeff Christian

**S15-21s-34w Finney,KS**  
**JLM #1-15**  
 Job Ticket: 48459      **DST#: 1**  
 Test Start: 2012.10.04 @ 08:54:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 11:02:30  
 Tester: Chuck Smith  
 Time Test Ended: 16:06:30  
 Unit No: 62  
 Interval: **4342.00 ft (KB) To 4400.00 ft (KB) (TVD)**  
 Reference Elevations: 2975.00 ft (KB)  
 Total Depth: 4400.00 ft (KB) (TVD)      2964.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 11.00 ft

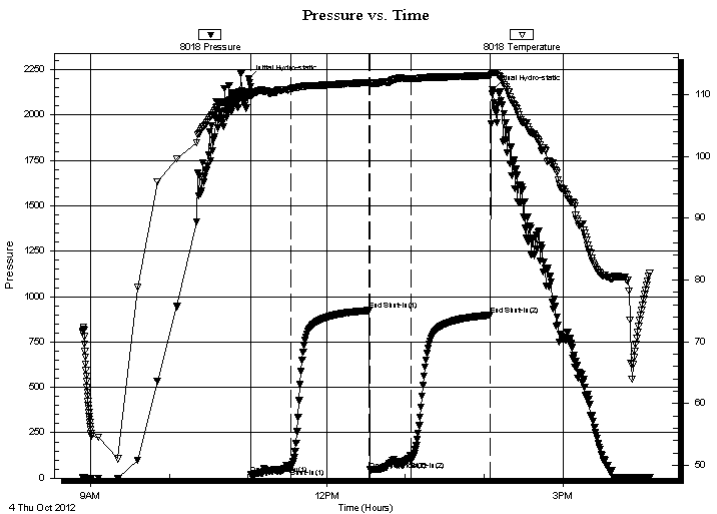
## Serial #: 8018

Inside

Press @ Run Depth: 92.10 psig @ 4346.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.10.04      End Date: 2012.10.04      Last Calib.: 2012.10.04  
 Start Time: 08:54:05      End Time: 16:06:29      Time On Btm: 2012.10.04 @ 11:00:45  
 Time Off Btm: 2012.10.04 @ 14:06:30

TEST COMMENT: 1 1/2" Blow .  
 No return.  
 1/4" Blow .  
 No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.33	110.43	Initial Hydro-static
2	21.29	109.62	Open To Flow (1)
32	53.04	110.76	Shut-In(1)
92	923.93	111.95	End Shut-In(1)
93	45.20	111.74	Open To Flow (2)
124	92.10	112.54	Shut-In(2)
184	899.11	113.08	End Shut-In(2)
186	2141.82	113.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	SOCM 1 to 99m	0.44

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48459

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.10.04 @ 08:54:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:02:30

Time Test Ended: 16:06:30

Interval: **4342.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Reference Elevations: 2975.00 ft (KB)

2964.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6751 Outside**

Press @ Run Depth: psig @ 4346.00 ft (KB)

Start Date: 2012.10.04

End Date: 2012.10.04

Capacity: 8000.00 psig

Last Calib.: 2012.10.04

Start Time: 08:54:05

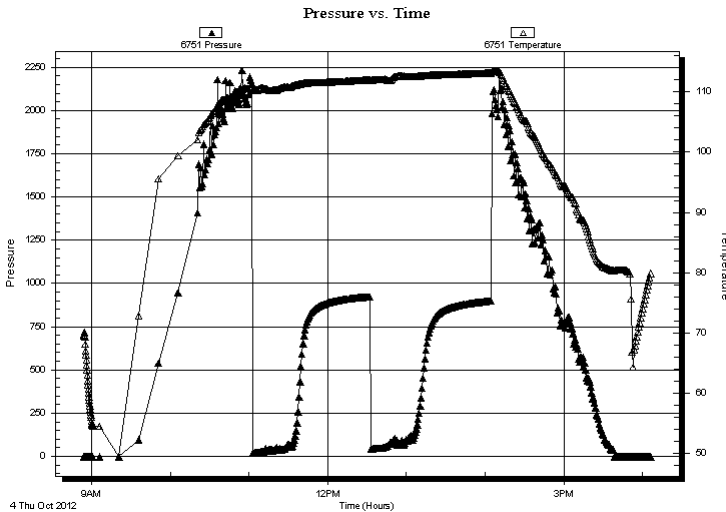
End Time: 16:06:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 1 1/2" Blow .  
No return.  
1/4" Blow .  
No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	SOCM 1 to 99m	0.44

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48459

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.10.04 @ 08:54:00

## Tool Information

Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4342.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.50 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			4315.50	
Shut In Tool	5.00			4320.50	
Hydraulic tool	5.00			4325.50	
Jars	5.00			4330.50	
Safety Joint	2.50			4333.00	
Packer	5.00			4338.00	27.50 Bottom Of Top Packer
Packer	4.00			4342.00	
Stubb	1.00			4343.00	
Perforations	3.00			4346.00	
Recorder	0.00	8018	Inside	4346.00	
Recorder	0.00	6751	Outside	4346.00	
Perforations	18.00			4364.00	
Change Over Sub	1.00			4365.00	
Drill Pipe	31.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	58.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>85.50</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48459

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.10.04 @ 08:54:00

**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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
90.00	SOCM 1o 99m	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

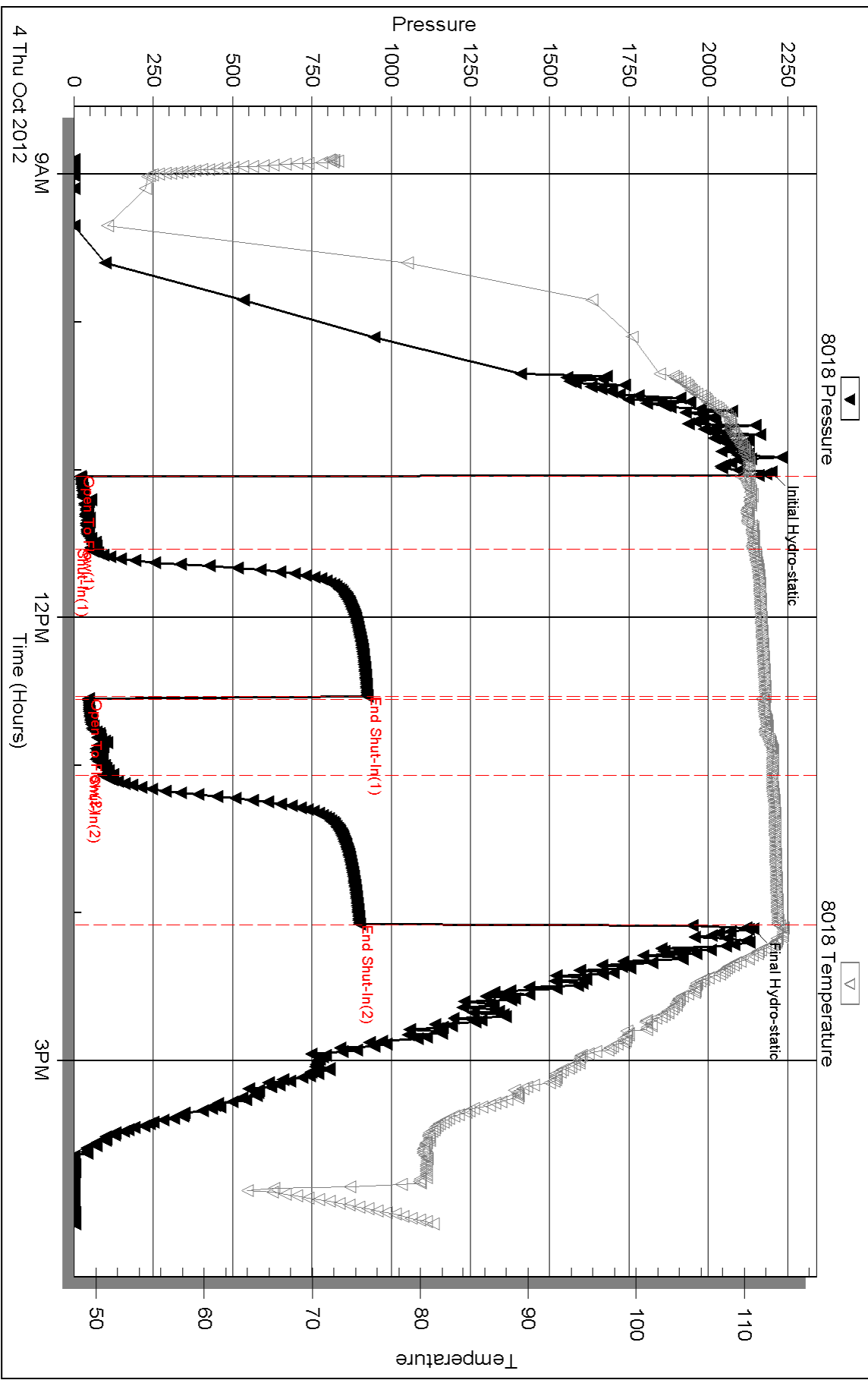
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

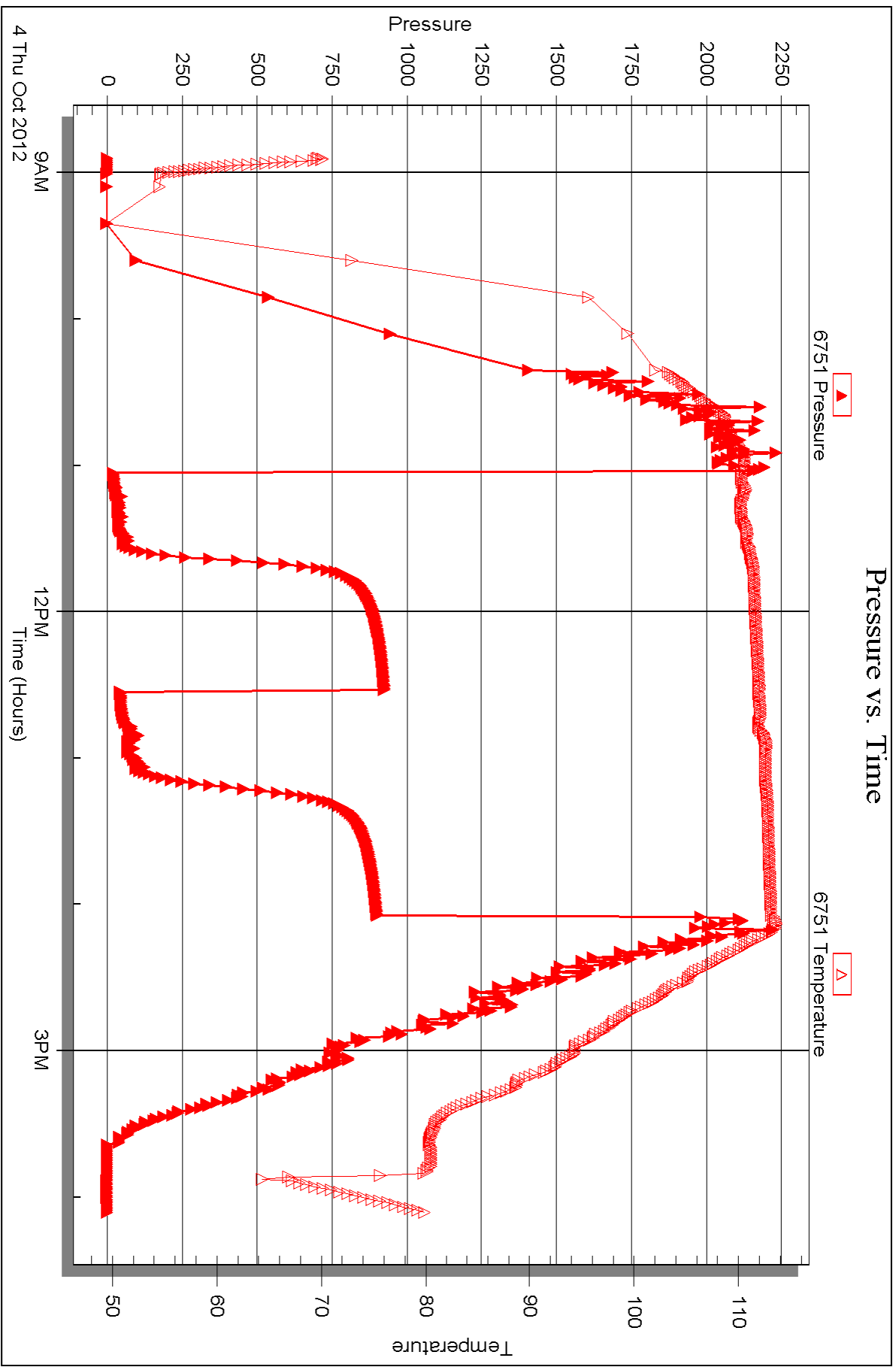


Serial #: 6751

Outside Murfin Drilling Co.

JLM #1-15

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

205 N. Water Suite 300  
Wichita, KS 67202

ATTN: Jeff Christian

**JLM #1-15**

**S15-21s-34w Finney,KS**

Start Date: 2012.10.05 @ 04:44:00

End Date: 2012.10.05 @ 12:53:15

Job Ticket #: 48460                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.09 @ 10:08:28

Murfin Drilling Co.

S15-21s-34w Finney,KS

JLM #1-15

DST # 2

Pawnee - Ft. Scott-

2012.10.05



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 205 N. Water Suite 300  
 Wichita, KS 67202  
 ATTN: Jeff Christian

**S15-21s-34w Finney,KS**  
**JLM #1-15**  
 Job Ticket: 48460 **DST#: 2**  
 Test Start: 2012.10.05 @ 04:44:00

## GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott-**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:40:15  
 Time Test Ended: 12:53:15  
 Interval: **4409.00 ft (KB) To 4498.00 ft (KB) (TVD)**  
 Total Depth: 4498.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2975.00 ft (KB)  
 2964.00 ft (CF)  
 KB to GR/CF: 11.00 ft

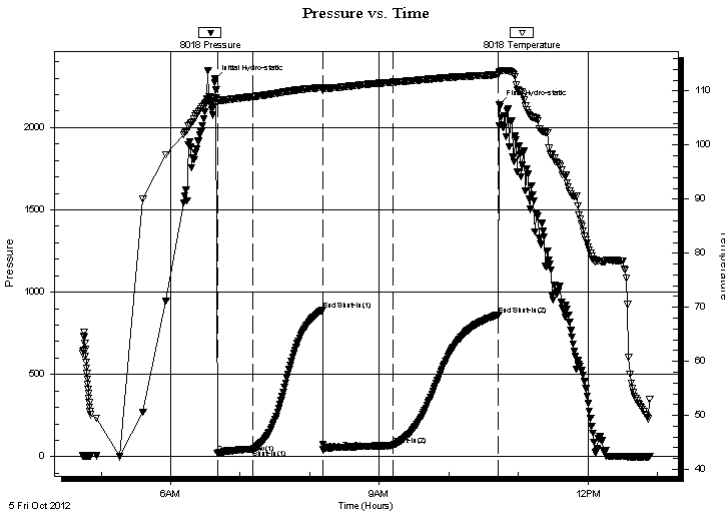
## Serial #: 8018

Inside

Press @ Run Depth: 68.12 psig @ 4413.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.10.05 End Date: 2012.10.05 Last Calib.: 2012.10.05  
 Start Time: 04:44:05 End Time: 12:53:14 Time On Btm: 2012.10.05 @ 06:38:00  
 Time Off Btm: 2012.10.05 @ 10:43:45

TEST COMMENT: 2" Blow .  
 No return.  
 5 1/2" Blow .  
 No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.18	108.59	Initial Hydro-static
3	22.72	107.85	Open To Flow (1)
33	44.77	108.96	Shut-In(1)
93	892.86	110.65	End Shut-In(1)
94	44.79	110.30	Open To Flow (2)
154	68.12	111.63	Shut-In(2)
245	863.20	113.04	End Shut-In(2)
246	2136.49	113.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCWME 10g 2o 15w 30m 43emulsion	0.30
60.00	OSM 100m	0.30

\* 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.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48460

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2012.10.05 @ 04:44:00

## Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4409.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.50 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			4382.50	
Shut In Tool	5.00			4387.50	
Hydraulic tool	5.00			4392.50	
Jars	5.00			4397.50	
Safety Joint	2.50			4400.00	
Packer	5.00			4405.00	27.50 Bottom Of Top Packer
Packer	4.00			4409.00	
Stubb	1.00			4410.00	
Perforations	3.00			4413.00	
Recorder	0.00	8018	Inside	4413.00	
Recorder	0.00	6751	Outside	4413.00	
Perforations	18.00			4431.00	
Change Over Sub	1.00			4432.00	
Drill Pipe	62.00			4494.00	
Change Over Sub	1.00			4495.00	
Bullnose	3.00			4498.00	89.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>116.50</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48460

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2012.10.05 @ 04:44:00

## 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:

29000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCWME 10g 2o 15w 30m 43emulsion	0.295
60.00	OSM 100m	0.295

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

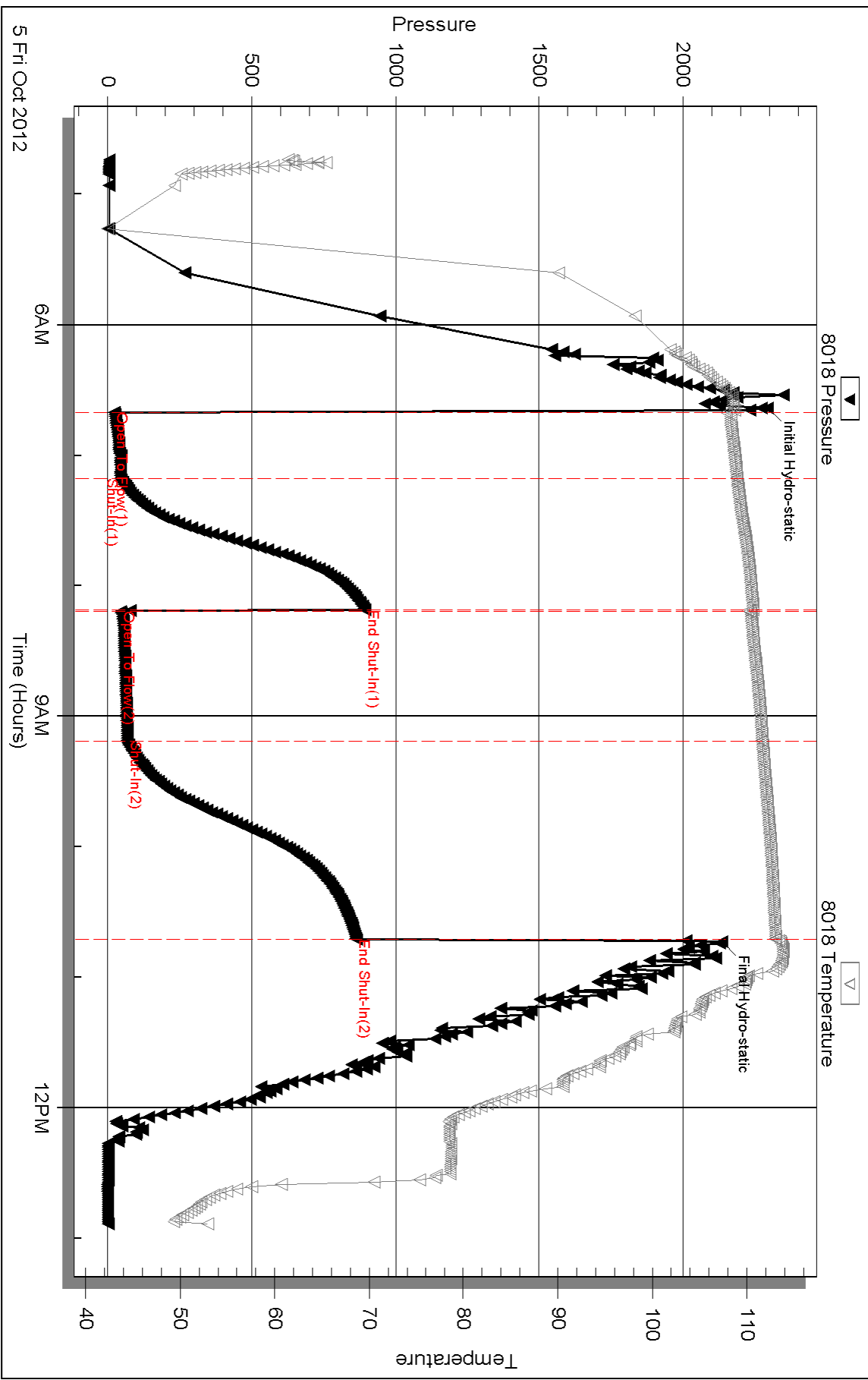
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .363 @ 46 Degrees F = 29000 PPM

### Pressure vs. Time

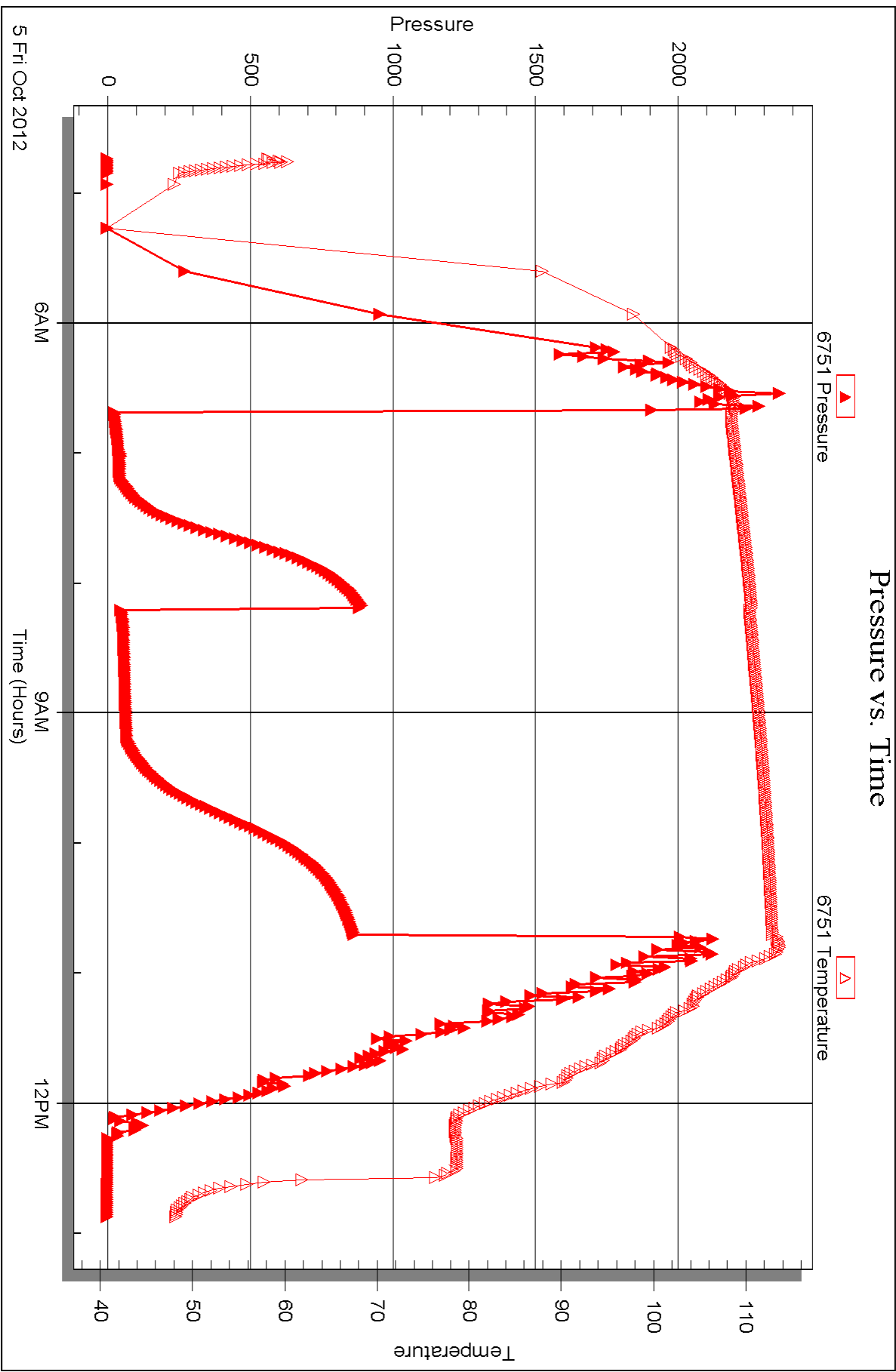


Serial #: 6751

Outside Murfin Drilling Co.

JLM #1-15

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

205 N. Water Suite 300  
Wichita, KS 67202

ATTN: Jeff Christian

**JLM #1-15**

**S15-21s-34w Finney,KS**

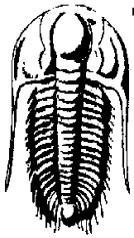
Start Date: 2012.10.06 @ 09:37:00

End Date: 2012.10.06 @ 16:51:30

Job Ticket #: 48461                      DST #: 3

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

Printed: 2012.10.09 @ 10:07:48



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
205 N. Water Suite 300  
Wichita, KS 67202  
ATTN: Jeff Christian

**S15-21s-34w Finney,KS**

**JLM #1-15**

Job Ticket: 48461

**DST#: 3**

Test Start: 2012.10.06 @ 09:37:00

## GENERAL INFORMATION:

Formation: **Atoka - Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:45

Time Test Ended: 16:51:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4597.00 ft (KB) To 4690.00 ft (KB) (TVD)**

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2975.00 ft (KB)

2964.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8018**

**Inside**

Press @ Run Depth: 132.88 psig @ 4599.00 ft (KB)

Start Date: 2012.10.06

End Date:

2012.10.06

Start Time: 09:37:05

End Time:

16:51:29

Capacity: 8000.00 psig

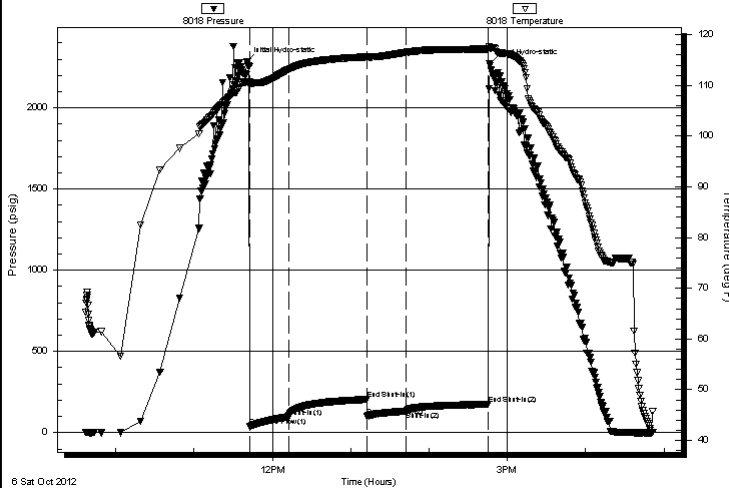
Last Calib.: 2012.10.06

Time On Btm: 2012.10.06 @ 11:40:45

Time Off Btm: 2012.10.06 @ 14:46:30

**TEST COMMENT:** 6" Blow . Tool slid one foot  
No return.  
3/4" Blow .  
No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2282.78	110.70	Initial Hydro-static
2	36.89	110.16	Open To Flow (1)
32	97.49	113.12	Shut-In(1)
92	204.93	115.65	End Shut-In(1)
92	101.91	115.59	Open To Flow (2)
122	132.88	116.54	Shut-In(2)
185	174.96	117.17	End Shut-In(2)
186	2271.31	117.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
237.00	OSMW 45m 55w	1.17

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48461

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.10.06 @ 09:37:00

## Tool Information

Drill Pipe:	Length: 4327.00 ft	Diameter: 3.80 inches	Volume: 60.70 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.50 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4597.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	120.50 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			4570.50	
Shut In Tool	5.00			4575.50	
Hydraulic tool	5.00			4580.50	
Jars	5.00			4585.50	
Safety Joint	2.50			4588.00	
Packer	5.00			4593.00	27.50 Bottom Of Top Packer
Packer	4.00			4597.00	
Stubb	1.00			4598.00	
Perforations	1.00			4599.00	
Recorder	0.00	8018	Inside	4599.00	
Recorder	0.00	6751	Outside	4599.00	
Outside	24.00			4623.00	
Change Over Sub	1.00			4624.00	
Drill Pipe	62.00			4686.00	
Change Over Sub	1.00			4687.00	
Bullnose	3.00			4690.00	93.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>120.50</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co.

**S15-21s-34w Finney,KS**

205 N. Water Suite 300  
Wichita, KS 67202

**JLM #1-15**

Job Ticket: 48461

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.10.06 @ 09:37:00

**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: 115000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
237.00	OSMW 45m 55w	1.166

Total Length: 237.00 ft      Total Volume: 1.166 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

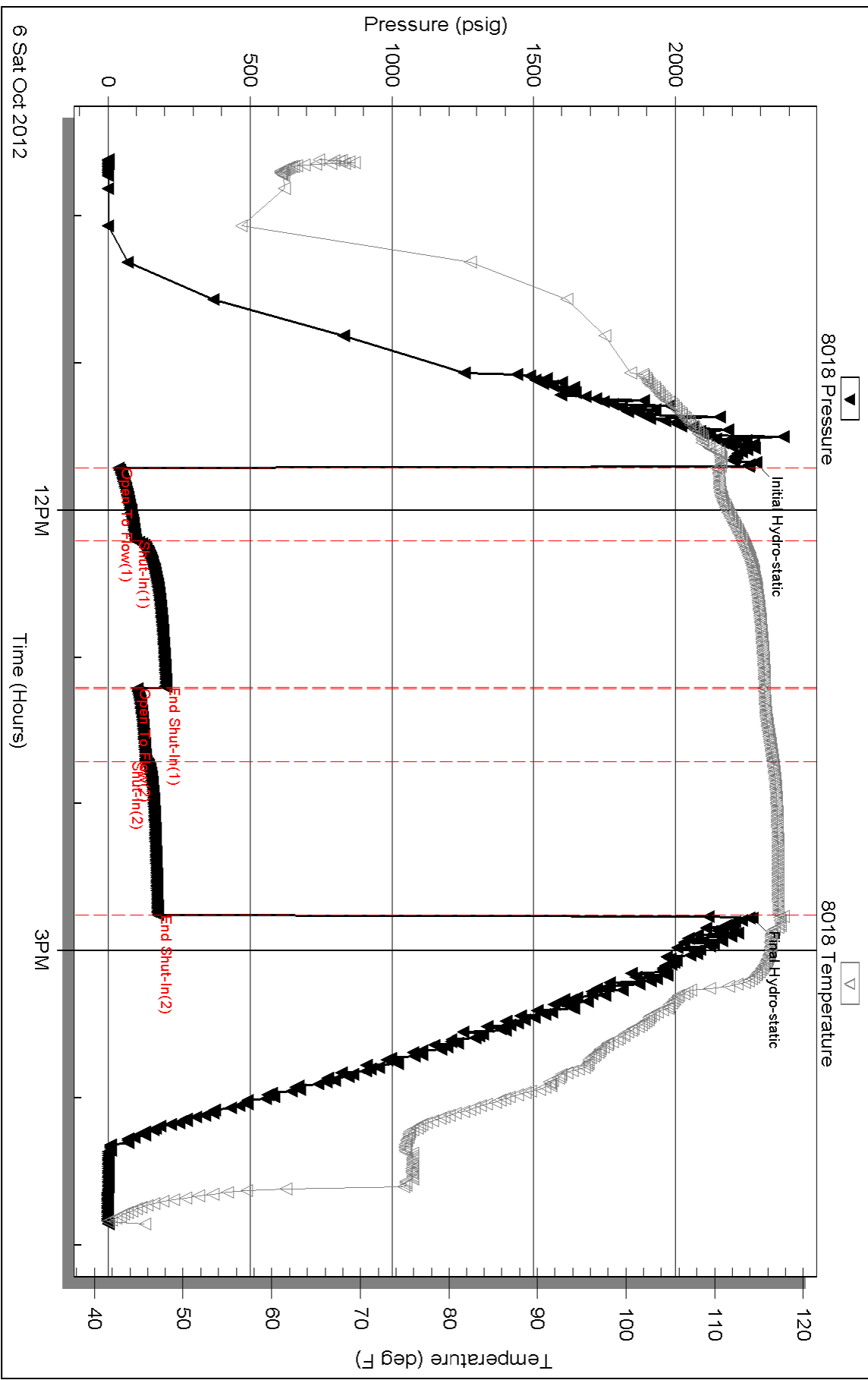
Laboratory Name:

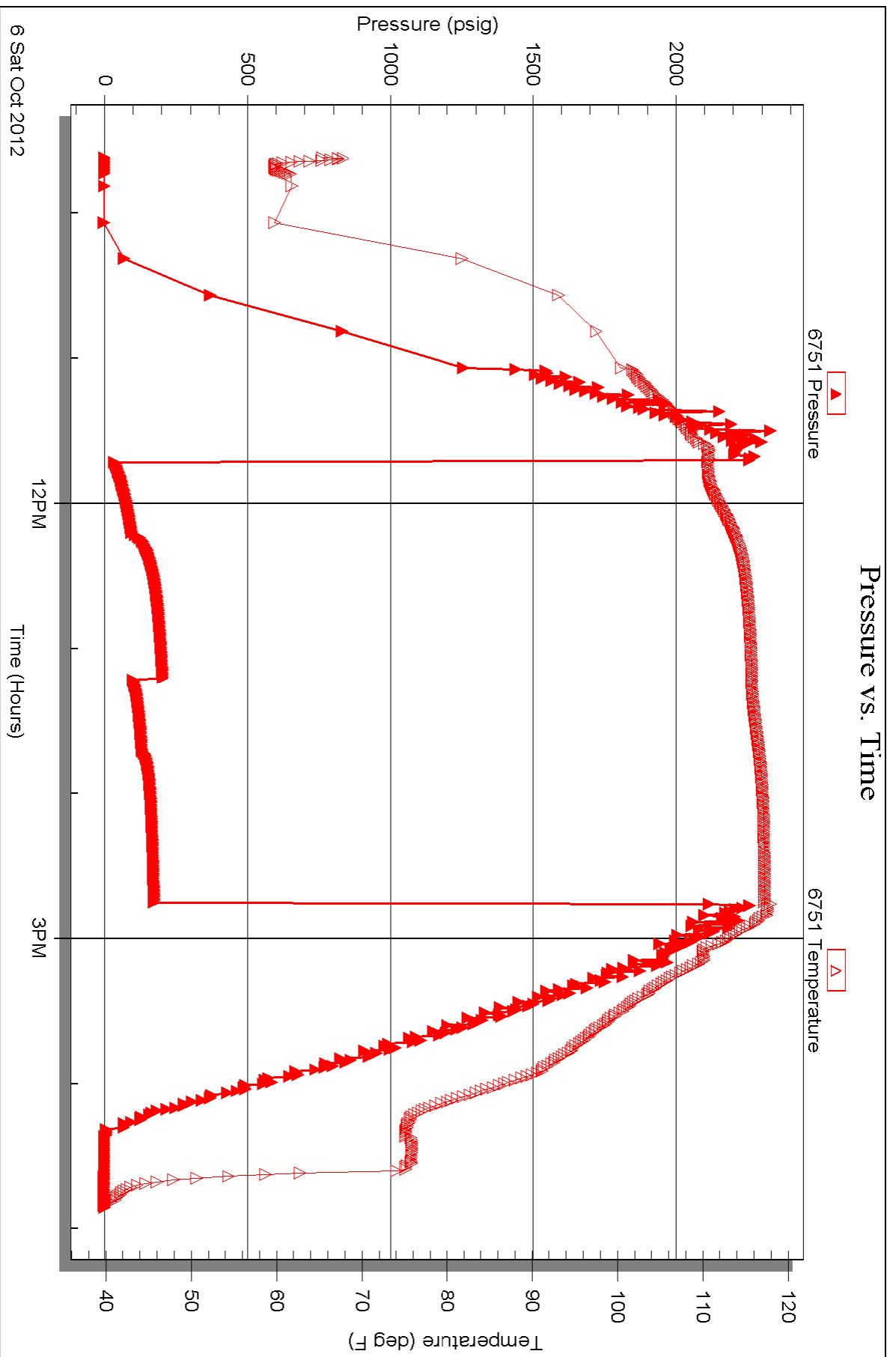
Laboratory Location:

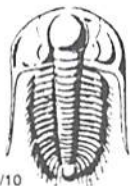
Recovery Comments: RW: .132 @ 38 Degrees F = 115,000 PPM



### Pressure vs. Time







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48459

Well Name & No. JLM #1-15 Test No. 1 Date 10-4-12  
 Company Murfin Drilling Co. Elevation 2975 KB 2964 GL  
 Address 250 N. Water St. 300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig MDC #21  
 Location: Sec. 15 Twp. 21s Rge. 34w Co. Finney State Ks

Interval Tested 4342 4400 Zone Tested Marmaton  
 Anchor Length 58 Drill Pipe Run 4079 Mud Wt. 9.2  
 Top Packer Depth 4338 Drill Collars Run 267 Vis 54  
 Bottom Packer Depth 4342 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4400 Chlorides 2000 ppm System LCM 5#

Blow Description B.O.B.C. 1 1/2" Blow  
No return  
1/4" Blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>90</u>	Feet of <u>SOcm</u>	%gas	<u>1</u> %oil	%water	<u>99</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

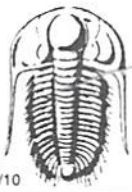
Rec Total 90 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2198  Test 1250 T-On Location 8:15  
 (B) First Initial Flow 21  Jars 250 T-Started 8:54  
 (C) First Final Flow 53  Safety Joint 75 T-Open 11:03  
 (D) Initial Shut-In 924  Circ Sub N/C T-Pulled 14:05  
 (E) Second Initial Flow 45  Hourly Standby T-Out 16:06  
 (F) Second Final Flow 92  Mileage 50RT 77<sup>50</sup> Comments \_\_\_\_\_  
 (G) Final Shut-In 899  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2142  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 0  
 Total 1652.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1652.50

Approved By Jeff Christian Our Representative Chuck Smith

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48460

Well Name & No. JLM #15 Test No. 2 Date 10-5-12  
 Company Murfin Drilling Co. Elevation 2975 KB 2964 GL  
 Address 250 N. Water Ste. 300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig MDC #21  
 Location: Sec. 15 Twp. 21s Rge. 34w Co. Finney State KS

Interval Tested 4409-4498 Zone Tested Pawnee - Fr. Scott - Cherokee  
 Anchor Length 89 Drill Pipe Run 4140 Mud Wt. 9.3  
 Top Packer Depth 4405 Drill Collars Run 267 Vis 59  
 Bottom Packer Depth 4409 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4498 Chlorides 2200 ppm System LCM 5<sup>th</sup>  
 Blow Description 2" Blow  
No return.  
5 1/2" Blow  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>OSM</u>				
Rec <u>60</u>	Feet of <u>GOCWME</u>	<u>43% emulsion 10</u>	<u>2</u>	<u>15</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 113 Gravity - API RW .363 @ 46 ° F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2294  Test 1250 T-On Location 4:40  
 (B) First Initial Flow 23  Jars 250 T-Started 4:44  
 (C) First Final Flow 45  Safety Joint 75 T-Open 6:40  
 (D) Initial Shut-In 893  Circ Sub NIC T-Pulled 10:43  
 (E) Second Initial Flow 45  Hourly Standby \_\_\_\_\_ T-Out 12:53  
 (F) Second Final Flow 68  Mileage SORT 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 863  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2136  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 1652.50  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1652.50

Approved By Jeff Chit Our Representative Chuck Smith

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48461

Well Name & No. JLM #1-15 Test No. 3 Date 10-6-12  
 Company Murfin Drilling Co. Elevation 2975 KB 2964 GL  
 Address 250 N. Water St. 300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig MDC #21  
 Location: Sec. 15 Twp. 21s Rge. 34w Co. Finney State KS

Interval Tested 4597-4690 Zone Tested Atoka-Morrow  
 Anchor Length 93 Drill Pipe Run 4327 Mud Wt. 9.1  
 Top Packer Depth 4593 Drill Collars Run 267 Vis 54  
 Bottom Packer Depth 4597 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4690 Chlorides 3700 ppm System LCM 5"  
 Blow Description 6" Blow. Tool slid a foot.  
No return.  
3/4" Blow.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>237</u>	Feet of <u>OS MW</u>			<u>55</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 237 BHT 117 Gravity - API RW .132 @ 38 °F Chlorides 115,000 ppm

(A) Initial Hydrostatic 2283  Test 1250 T-On Location 9:15  
 (B) First Initial Flow 37  Jars 250 T-Started 9:37  
 (C) First Final Flow 97  Safety Joint 75 T-Open 11:43  
 (D) Initial Shut-In 205  Circ Sub N/C T-Pulled 14:46  
 (E) Second Initial Flow 102  Hourly Standby \_\_\_\_\_ T-Out 16:52  
 (F) Second Final Flow 133  Mileage 50RT 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 175  Sampler \_\_\_\_\_ loaded tools 10/7 19:15  
 (H) Final Hydrostatic 2271  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Initial Shut-In 60  Day Standby 1d 2.25hrs Total 2452.50  
 Final Flow 60 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60  Sub Total 1652.50

Approved By [Signature] Our Representative Chuck Smith  
 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 of 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.



*acct.*  
*Prod-Liz H.*

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 132873  
Invoice Date: Sep 29, 2012  
Page: 1

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



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	JLM #1-15	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 29, 2012	10/29/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	17.90	3,043.00
6.00	MAT	Chloride	64.00	384.00
178.50	SER	Cubic Feet	2.48	442.70
576.10	SER	Ton Mileage	2.60	1,497.86
1.00	SER	Surface	1,512.25	1,512.25
70.00	SER	Pump Truck Mileage	7.70	539.00
1.00	SER	Manifold Swedge Rental	275.00	275.00
70.00	SER	Light Vehicle Mileage	4.40	308.00
1.00	CEMENTER	LaRene Wentz		
1.00	CEMENTER	Terry Heinrich		
1.00	OPER ASSIST	Jeremy Sterger		

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

**\$ 3040.68**

ONLY IF PAID ON OR BEFORE  
**Oct 24, 2012**

Subtotal	8,001.81
Sales Tax	255.31
Total Invoice Amount	8,257.12
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,257.12</b>

# ALLIED OIL & GAS SERVICES, LLC 056325

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley, KS

DATE <u>9-29-12</u>	SEC. <u>15</u>	TWP. <u>21</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>8:00 pm</u>	JOB START <u>7:00 pm</u>	JOB FINISH <u>9:30 pm</u>
LEASE <u>JLM</u>	WELL # <u>1-19</u>	LOCATION <u>Friend 7W, 23, Wint</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				1.01		7.45	

CONTRACTOR Murfin 21

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 228'

CASING SIZE 8 7/8" DEPTH 228'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13.63661

OWNER same

CEMENT AMOUNT ORDERED 170 sks com 378.00

COMMON 170 sks @ 19.78 3343.00

POZ MIX @ \_\_\_\_\_

GEL @ \_\_\_\_\_

CHLORIDE 6.5 sks @ 64.00 384.00

ASC @ \_\_\_\_\_

HANDLING 128 sks @ 2.48 317.44

MILBAGE 8.23 mil x 70 x 2.60 1472.86

576.10 TOTAL 5862.56

EQUIPMENT

PUMP TRUCK CEMENTER Korane Wint

# 422 HELPER Terry Herrick

BULK TRUCK

# 396/342 DRIVER Jeremy Starger

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Mix 170 sks cement

Displace with water

Cement did circulate

Thank you

CHARGE TO: Murfin Drilling Co

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 228'

PUMP TRUCK CHARGE 1812.25

EXTRA FOOTAGE @ \_\_\_\_\_

MILBAGE HTLU 70 @ 2.70 532.00

MANIFOLD swedge @ 225.00

HTLU 70 @ 4.40 308.00

TOTAL 2634.25

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

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 Juan Tinoco

SIGNATURE Juan Tinoco

SALES TAX (if Any) 255.31

TOTAL CHARGES 2,601.81

DISCOUNT 3040.68 IF PAID IN 30 DAYS

3870



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 133046

Invoice Date: Oct 8, 2012

Page: 1

*acct.  
Prod - L12H*



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	JLM #1-15	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 8, 2012	11/7/12

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	17.90	2,685.00
100.00	MAT	Pozmix	9.35	935.00
9.00	MAT	Gel	23.40	210.60
63.00	MAT	Flo Seal	2.98	187.74
268.45	SER	Cubic Feet Charge	2.48	665.76
784.83	SER	Ton Mileage Charge	2.60	2,040.58
1.00	SER	Plug to Abandon	2,483.59	2,483.59
70.00	SER	Pump Truck Mileage	7.70	539.00
70.00	SER	Light Vehicle Mileage	4.40	308.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Jeremy Sterger		

*OKA*

Subtotal	10,055.27
Sales Tax	749.12
Total Invoice Amount	10,804.39
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,804.39</b>

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

**\$ 3971.83**

ONLY IF PAID ON OR BEFORE

**Nov 2, 2012**



