



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1160366  
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: \_\_\_\_\_



1160366

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <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

September 27, 2013

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

Re: ACO1  
API 15-109-21196-00-00  
Smith 2-30  
SW/4 Sec.30-12S-32W  
Logan 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 Smith #2-30 910' FSL 410' FWL Sec. 30-T12S-R32W 3087' KB							MDCI Smith #1-30 660' FSL 1980' FWL Sec. 30-T12S-R32W 3087' KB	
Formation	sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2568	+519	+8	2569	+518	+7	2576	+511
B/Anhydrite	2591	+496	+8	2594	+493	+5	2599	+488
Topeka	3815	-728	Flat	3822	-735	-7	3815	-728
Heebner	4015	-928	+4	4020	-933	-1	4019	-932
Lansing	4057	-970	+3	4060	-973	Flat	4060	-973
Stark	4192	-1205	Flat	4296	-1209	-4	4292	-1205
Marmaton	4408	-1321	-1	4413	-1326	-6	4407	-1320
Pawnee	4486	-1399	+1	4492	-1405	-5	4487	-1400
B Penn Lm	4641	-1554	+5	4646	-1559	Flat	4646	-1559
Mississippi	4670	-1583	-3	4676	-1589	-9	4667	-1580
RTD	4760						4750	
LTD				4768			4750	



# GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING CO INC.**  
 LEASE **#2-30 Smith**  
 ELEVATIONS  
 KB **3087'**

LOCATION **910' FSL 410' FWL**  
 SEC. **30** TWPSP **12S** RGE **32W**  
 COUNTY **LOGAN** STATE **KANSAS**  
 FIELD **FLUNKY TOWN**

CONTRACTOR **MURFIN DRILLING CO** RIG NO. **22**  
 COMMENCED **JULY 22 2013** COMPLETED **AUGUST 1, 2013**  
 MUD DISPLACED **3700'** MUD TYPE **CHEMICAL**  
 DRILLING TIME KEPT FROM **3650'** TO **4780'**  
 SAMPLES SAVED FROM **3650'** TO **4780'**

SAMPLES EXAMINED FROM **3650'** TO **4780'**  
 GEOLOGICAL SUPERVISION FROM **3650'** TO **4780'**  
 GEOLOGIST ON WELL **STEPHEN J MILLER**

FORMATION NAME LOG TOP DATUM TOP DATUM SAMPLE  
 ANHYDRITE 2589 +518 2589 +519  
 B/ANHYDRITE 2594 +493 2594 +496  
 TOPEKA 3822 -735 3815 -728  
 HEBNER 4020 -933 4015 -928  
 LANING 4090 -973 4057 -970  
 STARK SHALE 4296 -1209 4282 -1205  
 B/KANSAS CITY 4366 -1279 4362 -1275  
 CHEROKEE 4788 -1489 4572 -1485  
 MISSISSIPPIAN 4676 -1589 4780 -1583  
 TOTAL DEPTH 4788 -1681 4780 -1673

FORMATION NAME	LOG TOP DATUM	SAMPLE TOP DATUM
ANHYDRITE	2589 +518	2589 +519
B/ANHYDRITE	2594 +493	2594 +496
TOPEKA	3822 -735	3815 -728
HEBNER	4020 -933	4015 -928
LANING	4090 -973	4057 -970
STARK SHALE	4296 -1209	4282 -1205
B/KANSAS CITY	4366 -1279	4362 -1275
CHEROKEE	4788 -1489	4572 -1485
MISSISSIPPIAN	4676 -1589	4780 -1583
TOTAL DEPTH	4788 -1681	4780 -1673

REMARKS  
 API 15-109-21196  
 Drilling Fluids: MORGAN MUD  
 Drill Stem Testing: TRILOBITE  
 Gas Triller: NONE  
 Reserve Pit Chlorides: 11,900 PPM

DRILL TIME (MIN/FT)	DEPTH	LITHOLOGY	REMARKS
	2589	ANHYDRITE	2589 +519
	2594	B/ANHYDRITE	2591 +496
	3822	TOPEKA LIME	3815 -728
	4020	HEBNER SHALE	4015 -928
	4090	LANING LIME	4057 -970
	4296	STARK SHALE	4292 -1205
	4366	B/KANSAS CITY	4362 -1275
	4788	CHEROKEE SHALE	4572 -1485
	4676	MISSISSIPPIAN	4670 -1583
	4788	RTD	4760

Operator: **MURFIN DRILLING CO INC.**  
 Lease: **#2-30 Smith**  
 Location: **910' FSL 410' FWL** SEC. **30** TWPSP **12S** RGE **32W**  
 County: **LOGAN** State: **KANSAS**





## DRILL STEM TEST REPORT

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

250 North Water Ste.300  
Wichita, KS 67202

ATTN: Steve Miller

**Smith #2-30**

**30-12s-32w Logan,KS**

Start Date: 2013.07.26 @ 13:26:10

End Date: 2013.07.26 @ 20:24:04

Job Ticket #: 52839                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.30 @ 16:25:07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc.  
 250 North Water Ste.300  
 Wichita, KS 67202  
 ATTN: Steve Miller

**30-12s-32w Logan,KS**

**Smith #2-30**

Job Ticket: 52839

**DST#: 1**

Test Start: 2013.07.26 @ 13:26:10

## GENERAL INFORMATION:

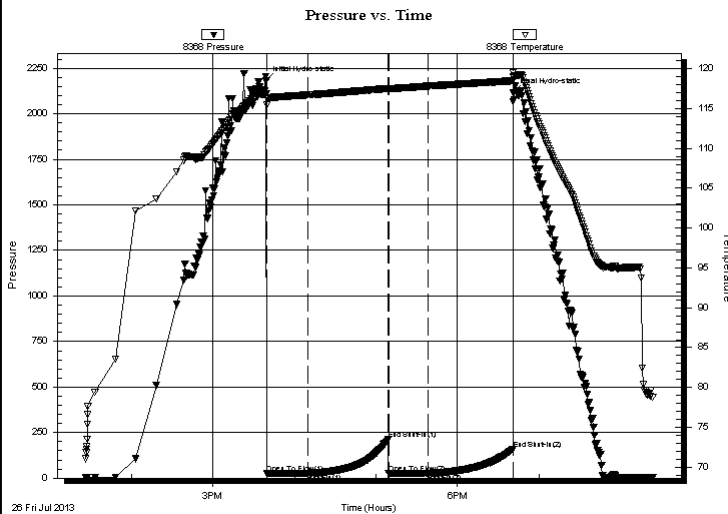
Formation: **H**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 15:39:20  
 Time Test Ended: 20:24:04  
**Interval: 4209.00 ft (KB) To 4236.00 ft (KB) (TVD)**  
 Total Depth: 4236.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3086.00 ft (KB)  
 3076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8368**

**Outside**

Press @ Run Depth: 27.35 psig @ 4210.00 ft (KB)  
 Start Date: 2013.07.26 End Date: 2013.07.26  
 Start Time: 13:26:10 End Time: 20:24:04  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.07.26  
 Time On Btm: 2013.07.26 @ 15:39:05  
 Time Off Btm: 2013.07.26 @ 18:41:05

**TEST COMMENT:** Weak blow died in 5 1/2 min  
 No return  
 No blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.53	116.84	Initial Hydro-static
1	26.22	115.43	Open To Flow (1)
31	26.71	116.71	Shut-In(1)
90	212.48	117.52	End Shut-In(1)
90	25.58	117.42	Open To Flow (2)
120	27.35	117.81	Shut-In(2)
182	160.36	118.49	End Shut-In(2)
182	2113.86	119.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52839

**DST#: 1**

ATTN: Steve Miller

Test Start: 2013.07.26 @ 13:26:10

## Tool Information

Drill Pipe:	Length: 3977.00 ft	Diameter: 3.80 inches	Volume: 55.79 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4209.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4182.00	
Shut In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Jars	5.00			4197.00	
Safety Joint	3.00			4200.00	
Packer	5.00			4205.00	28.00 Bottom Of Top Packer
Packer	4.00			4209.00	
Stubb	1.00			4210.00	
Recorder	0.00	6667	Inside	4210.00	
Recorder	0.00	8368	Outside	4210.00	
Perforations	21.00			4231.00	
Bullnose	5.00			4236.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52839

**DST#: 1**

ATTN: Steve Miller

Test Start: 2013.07.26 @ 13:26:10

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 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:

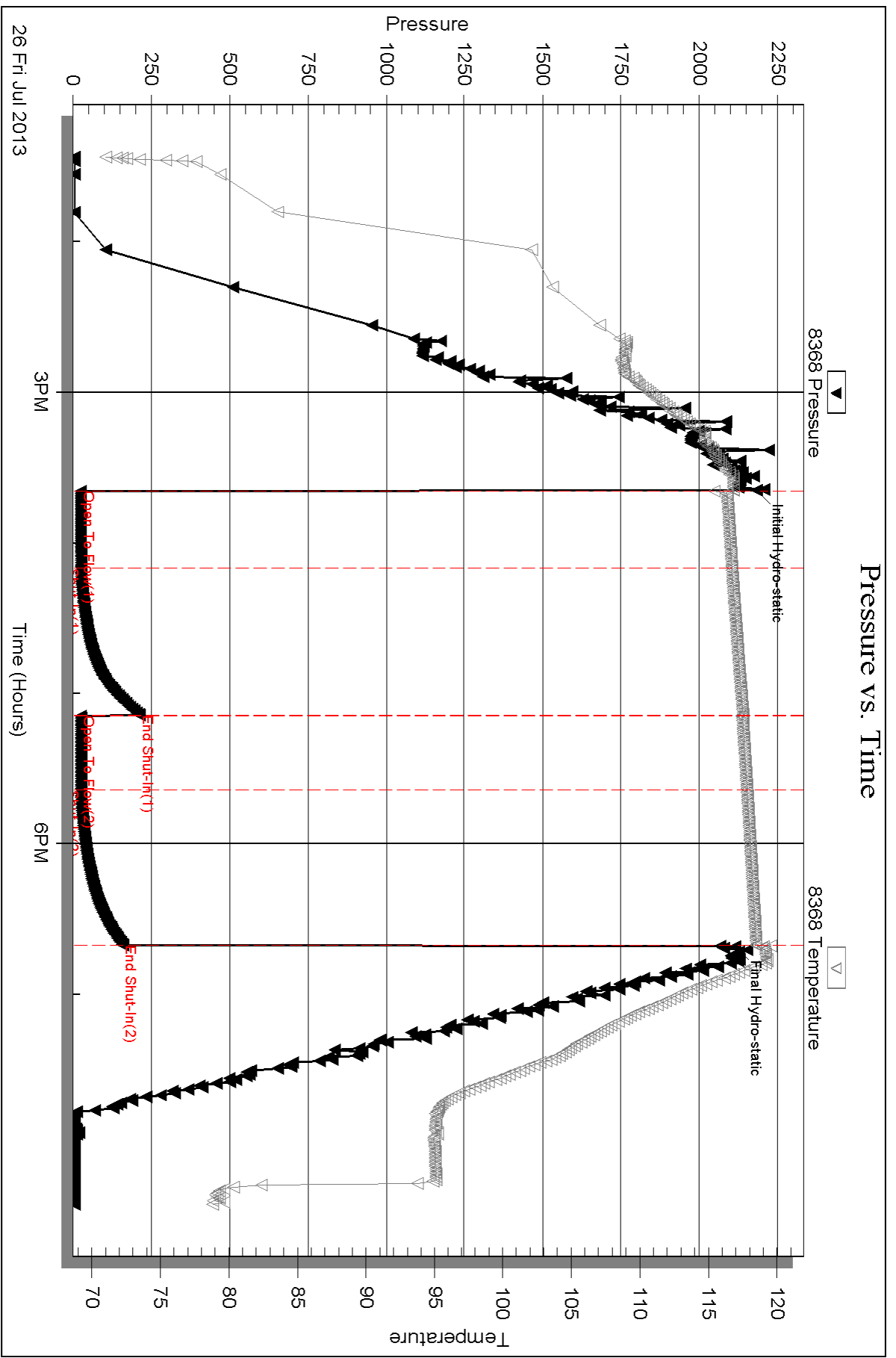
Recovery Comments:

Serial #: 8368

Outside Murfin Drilling Co Inc.

Smith #2-30

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52839

Printed: 2013.07.30 @ 16:25:10

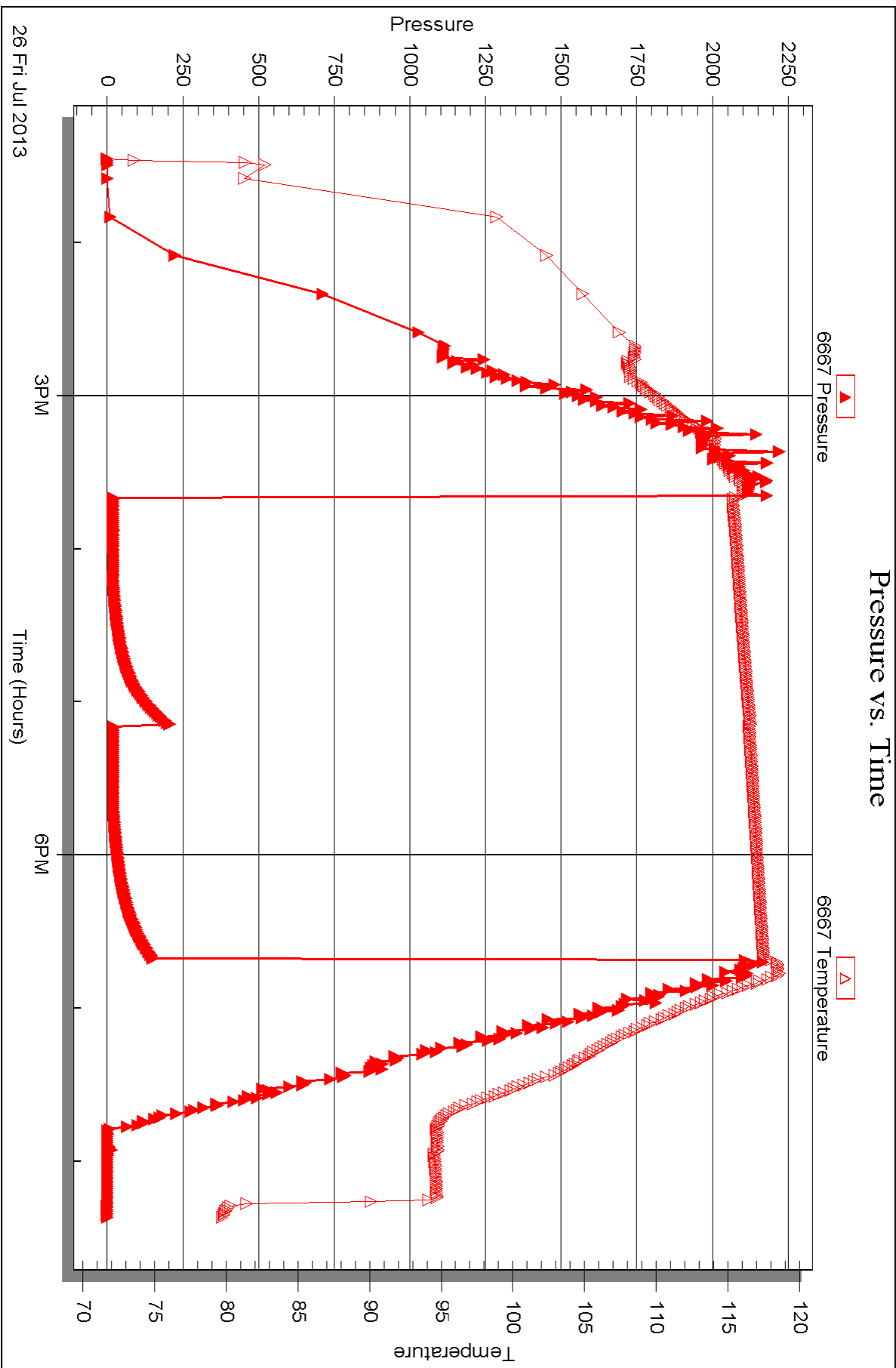
Serial #: 6667

Inside

Murfin Drilling Co Inc.

Smith #2-30

DST Test Number: 1







## DRILL STEM TEST REPORT

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

250 North Water Ste.300  
Wichita, KS 67202

ATTN: Steve Miller

**Smith #2-30**

**30-12s-32w Logan,KS**

Start Date: 2013.07.27 @ 09:35:34

End Date: 2013.07.27 @ 17:56:13

Job Ticket #: 52840                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.30 @ 16:23:42



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc.  
 250 North Water Ste.300  
 Wichita, KS 67202  
 ATTN: Steve Miller

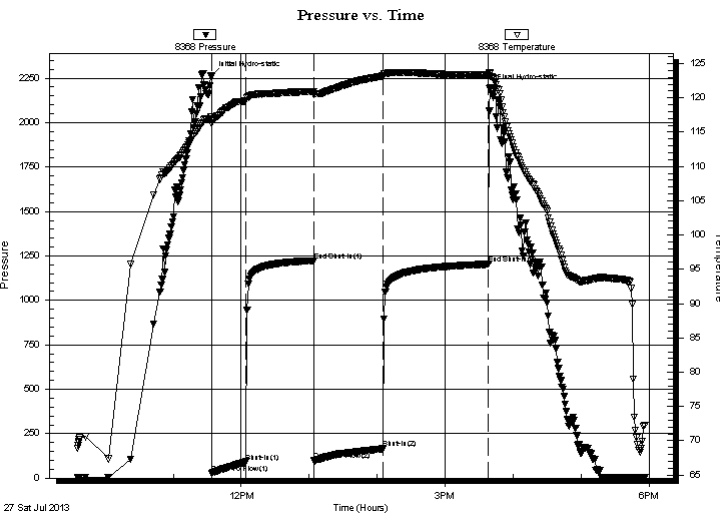
**30-12s-32w Logan,KS**  
**Smith #2-30**  
 Job Ticket: 52840 **DST#: 2**  
 Test Start: 2013.07.27 @ 09:35:34

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **11:33:59** Tester: **Shane McBride**  
 Time Test Ended: **17:56:13** Unit No: **55**  
**Interval: 4290.00 ft (KB) To 4318.00 ft (KB) (TVD)** Reference Elevations: **3086.00 ft (KB)**  
 Total Depth: **4318.00 ft (KB) (TVD)** **3076.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

**Serial #: 8368** **Outside**  
 Press @ Run Depth: **165.75 psig @ 4291.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.07.27** End Date: **2013.07.27** Last Calib.: **2013.07.27**  
 Start Time: **09:35:34** End Time: **17:56:13** Time On Btm: **2013.07.27 @ 11:33:44**  
 Time Off Btm: **2013.07.27 @ 15:39:29**

TEST COMMENT: 4" blow  
 No return  
 6" blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.13	117.28	Initial Hydro-static
1	27.08	116.21	Open To Flow (1)
31	91.23	119.61	Shut-In(1)
90	1223.84	120.93	End Shut-In(1)
91	98.14	120.46	Open To Flow (2)
152	165.75	123.18	Shut-In(2)
245	1204.27	123.29	End Shut-In(2)
246	2190.71	123.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	m c w 25m 75w	1.22
90.00	m c w w/oil scum 50m 50w	1.26

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc.  
250 North Water Ste.300  
Wichita, KS 67202  
ATTN: Steve Miller

**30-12s-32w Logan,KS**

**Smith #2-30**

Job Ticket: 52840

**DST#: 2**

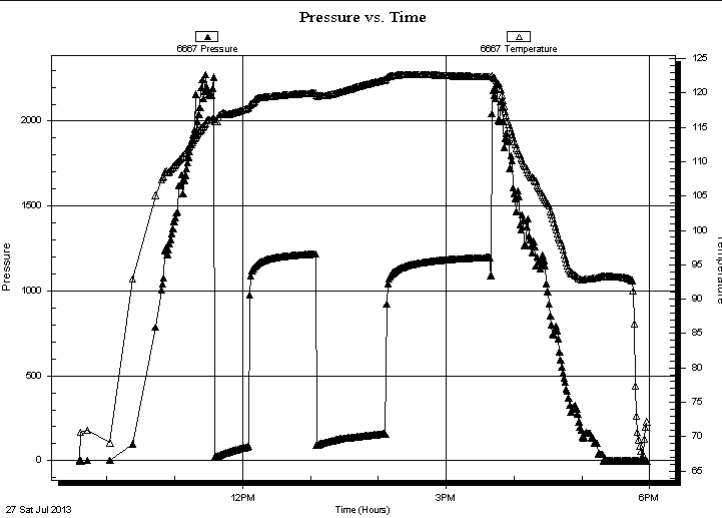
Test Start: 2013.07.27 @ 09:35:34

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 11:33:59  
 Time Test Ended: 17:56:13  
**Interval: 4290.00 ft (KB) To 4318.00 ft (KB) (TVD)**  
 Total Depth: 4318.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3086.00 ft (KB)  
 3076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6667** **Inside**  
 Press @ Run Depth: **psig @ 4291.00 ft (KB)**  
 Start Date: 2013.07.27 End Date: 2013.07.27  
 Start Time: 09:35:49 End Time: 17:57:19  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.07.27  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 4" blow  
 No return  
 6" blow  
 No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	m c w 25m 75w	1.22
90.00	m c w w/oil scum 50m 50w	1.26

\* 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.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52840

**DST#: 2**

ATTN: Steve Miller

Test Start: 2013.07.27 @ 09:35:34

## Tool Information

Drill Pipe:	Length: 4039.00 ft	Diameter: 3.80 inches	Volume: 56.66 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 57.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4290.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4263.00	
Shut In Tool	5.00			4268.00	
Hydraulic tool	5.00			4273.00	
Jars	5.00			4278.00	
Safety Joint	3.00			4281.00	
Packer	5.00			4286.00	28.00 Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6667	Inside	4291.00	
Recorder	0.00	8368	Outside	4291.00	
Perforations	22.00			4313.00	
Bullnose	5.00			4318.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co Inc.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52840

**DST#: 2**

ATTN: Steve Miller

Test Start: 2013.07.27 @ 09:35:34

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

47500 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	m c w 25m 75w	1.217
90.00	m c w w/oil scum 50m 50w	1.262

Total Length: 330.00 ft      Total Volume: 2.479 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

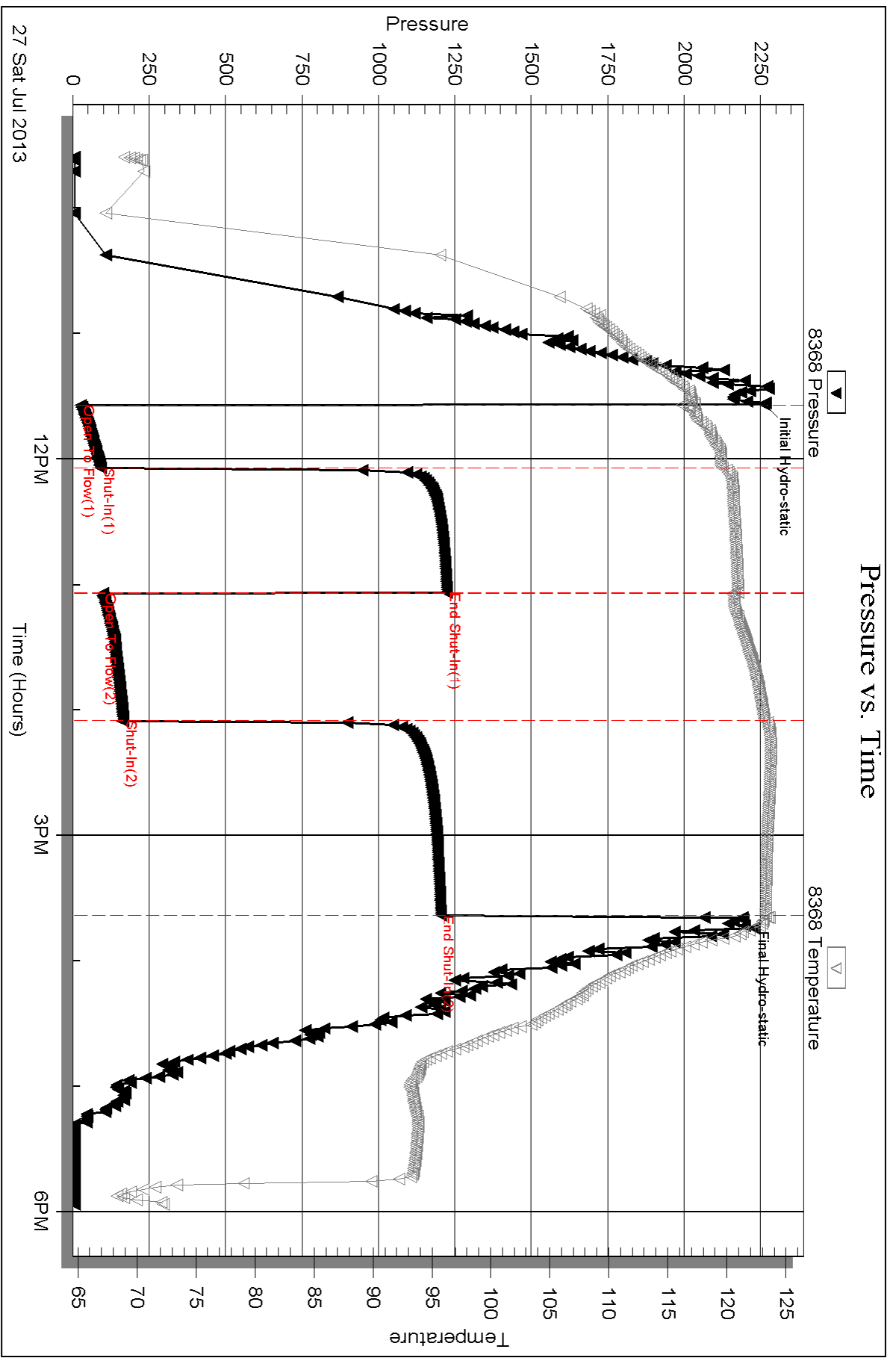
Recovery Comments: rw .143 @ 77\*f=47,500 chlor

Serial #: 8368

Outside Murfin Drilling Co Inc.

Smith #2-30

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52840

Printed: 2013.07.30 @ 16:23:45

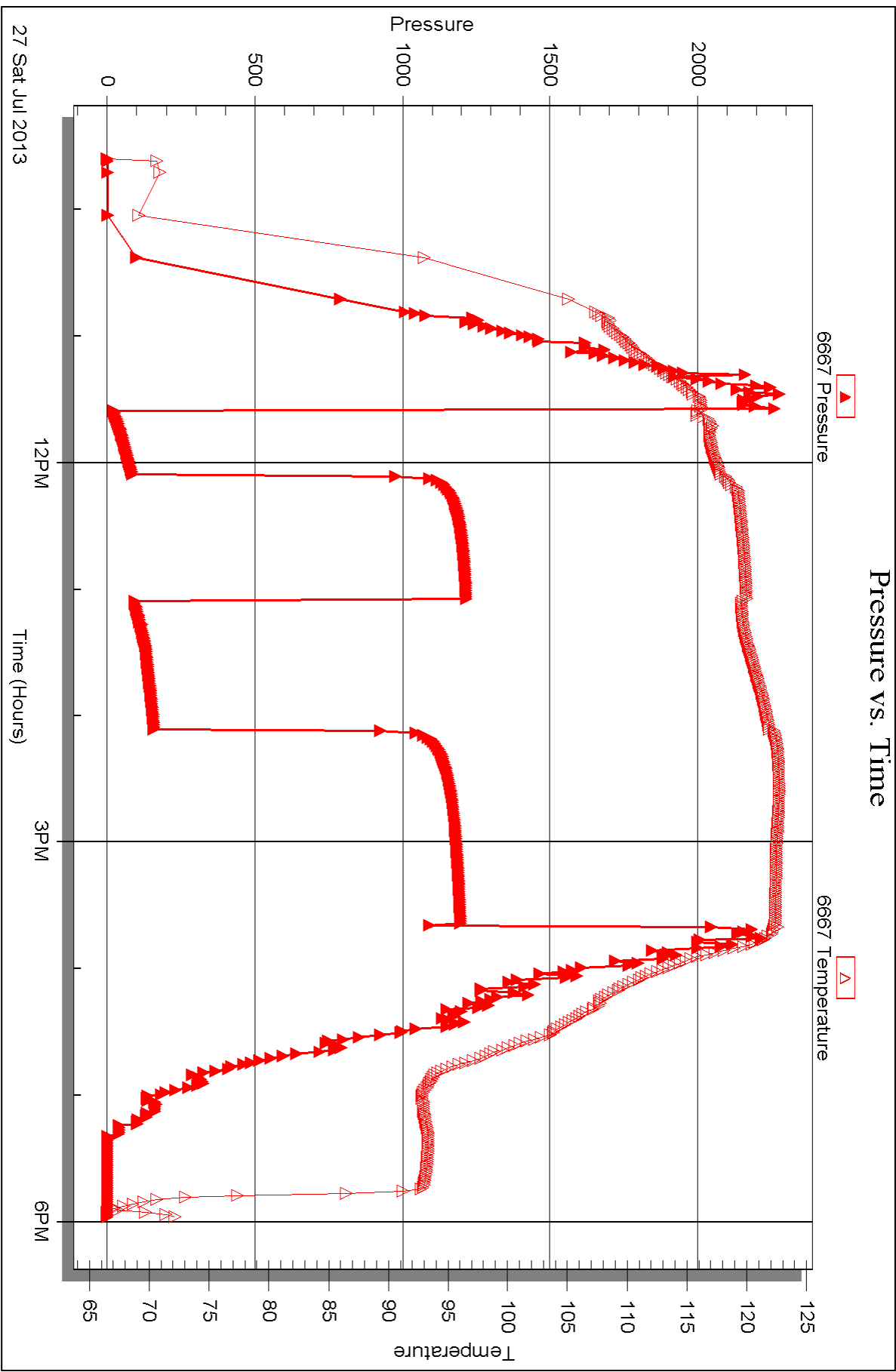
Serial #: 6667

Inside

Murfin Drilling Co Inc.

Smith #2-30

DST Test Number: 2





## DRILL STEM TEST REPORT

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

250 North Water Ste.300  
Wichita, KS 67202

ATTN: Steve Miller

**Smith #2-30**

**30-12s-32w Logan,KS**

Start Date: 2013.07.29 @ 03:15:40

End Date: 2013.07.29 @ 12:18:20

Job Ticket #: 52841                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.30 @ 16:22:58





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc.  
 250 North Water Ste.300  
 Wichita, KS 67202  
 ATTN: Steve Miller

**30-12s-32w Logan,KS**

**Smith #2-30**

Job Ticket: 52841

**DST#: 3**

Test Start: 2013.07.29 @ 03:15:40

## GENERAL INFORMATION:

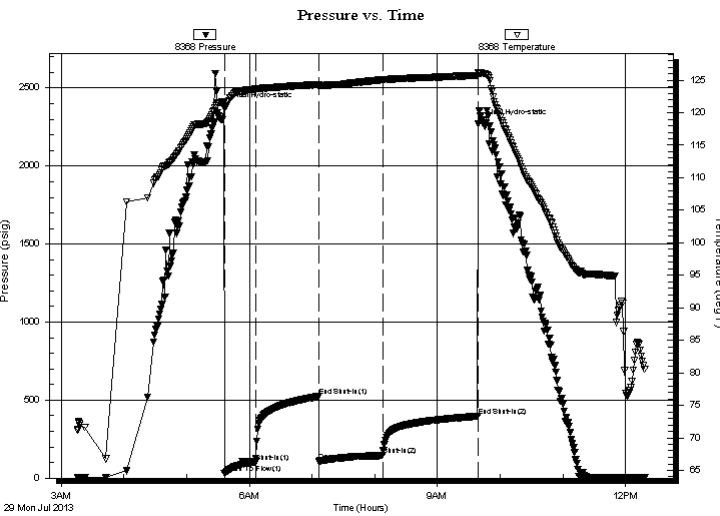
Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:36:05  
 Time Test Ended: 12:18:20  
 Interval: **4568.00 ft (KB) To 4630.00 ft (KB) (TVD)**  
 Total Depth: 4630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3086.00 ft (KB)  
 3076.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8368**

**Outside**

Press @ Run Depth: 144.15 psig @ 4569.00 ft (KB)  
 Start Date: 2013.07.29 End Date: 2013.07.29  
 Start Time: 03:15:40 End Time: 12:18:20  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.07.29  
 Time On Btm: 2013.07.29 @ 05:35:50  
 Time Off Btm: 2013.07.29 @ 09:39:35

**TEST COMMENT:** 4 1/4" blow  
 No return  
 1 1/2" blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2384.49	121.77	Initial Hydro-static
1	30.94	120.76	Open To Flow (1)
30	104.61	123.61	Shut-In(1)
91	523.53	124.31	End Shut-In(1)
91	108.37	124.06	Open To Flow (2)
152	144.15	125.06	Shut-In(2)
243	396.75	125.74	End Shut-In(2)
244	2270.30	126.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
175.00	o & w c m 5%o 10%w 85%m	0.86
75.00	s o & w c m 2%o 5%w 93%m	0.50

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc.  
 250 North Water Ste.300  
 Wichita, KS 67202  
 ATTN: Steve Miller

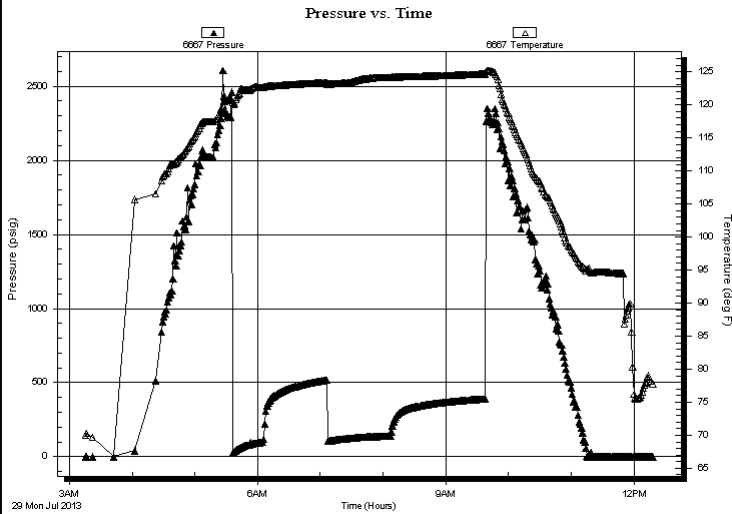
**30-12s-32w Logan,KS**  
**Smith #2-30**  
 Job Ticket: 52841 **DST#: 3**  
 Test Start: 2013.07.29 @ 03:15:40

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 05:36:05 Tester: Shane McBride  
 Time Test Ended: 12:18:20 Unit No: 55  
**Interval: 4568.00 ft (KB) To 4630.00 ft (KB) (TVD)** Reference Elevations: 3086.00 ft (KB)  
 Total Depth: 4630.00 ft (KB) (TVD) 3076.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6667 Inside**  
 Press @ Run Depth: psig @ 4569.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.07.29 End Date: 2013.07.29 Last Calib.: 2013.07.29  
 Start Time: 03:15:29 End Time: 12:17:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 4 1/4" blow  
 No return  
 1 1/2" blow  
 No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
175.00	o & w c m 5%o 10%w 85%m	0.86
75.00	s o & w c m 2%o 5%w 93%m	0.50

\* 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.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52841

**DST#: 3**

ATTN: Steve Miller

Test Start: 2013.07.29 @ 03:15:40

## Tool Information

Drill Pipe:	Length: 4324.00 ft	Diameter: 3.80 inches	Volume: 60.65 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4568.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Jars	5.00			4556.00	
Safety Joint	3.00			4559.00	
Packer	5.00			4564.00	28.00 Bottom Of Top Packer
Packer	4.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	6667	Inside	4569.00	
Recorder	0.00	8368	Outside	4569.00	
Perforations	22.00			4591.00	
Change Over Sub	1.00			4592.00	
Drill Pipe	32.00			4624.00	
Change Over Sub	1.00			4625.00	
Bullnose	5.00			4630.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc.

**30-12s-32w Logan,KS**

250 North Water Ste.300  
Wichita, KS 67202

**Smith #2-30**

Job Ticket: 52841

**DST#: 3**

ATTN: Steve Miller

Test Start: 2013.07.29 @ 03:15:40

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29500 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
175.00	o & w c m 5%o 10%w 85%m	0.861
75.00	s o & w c m 2%o 5%w 93%m	0.496

Total Length: 250.00 ft      Total Volume: 1.357 bbl

Num Fluid Samples: 0

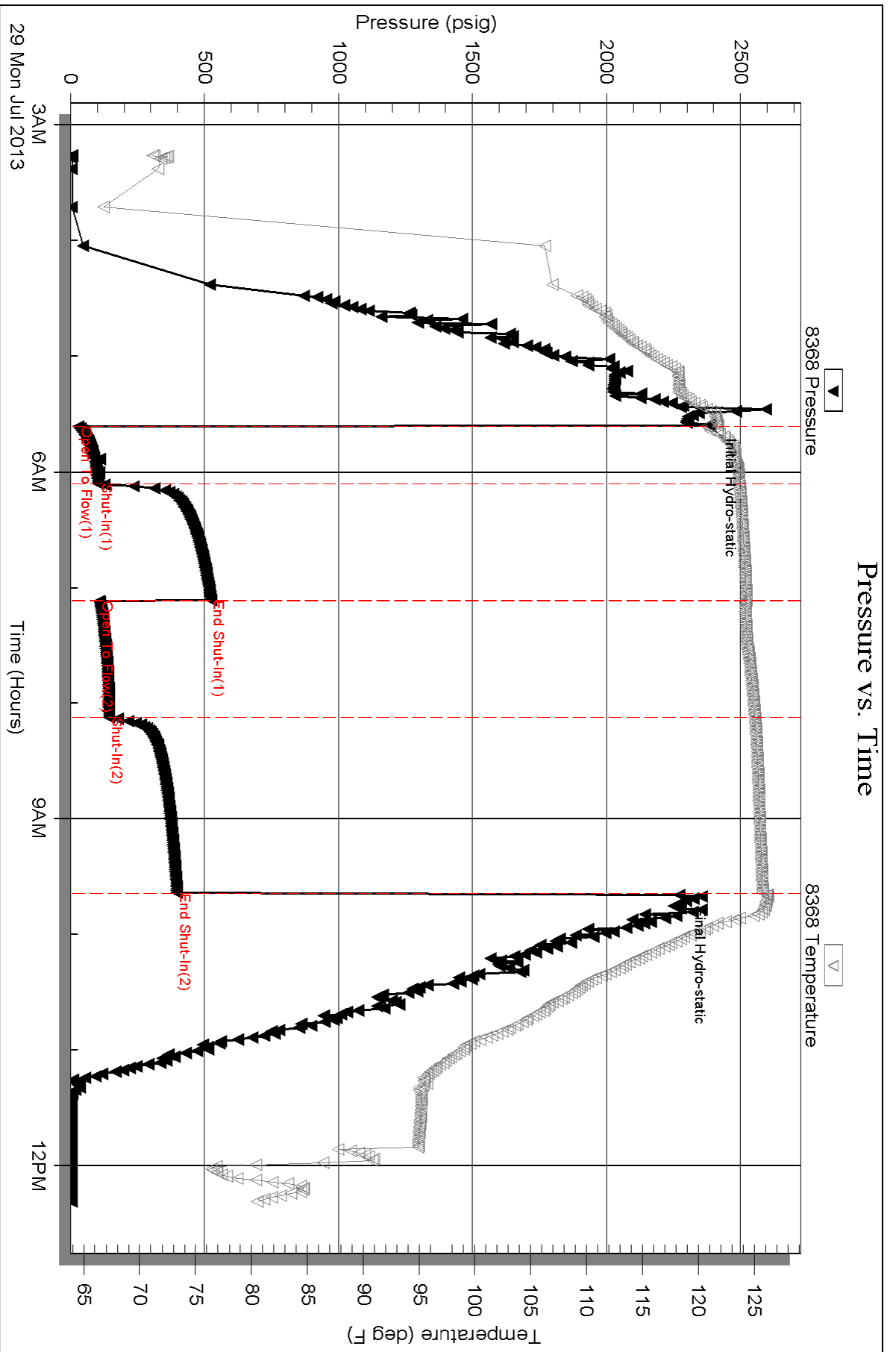
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .201 @ 78\*8f = 29,500 chlor



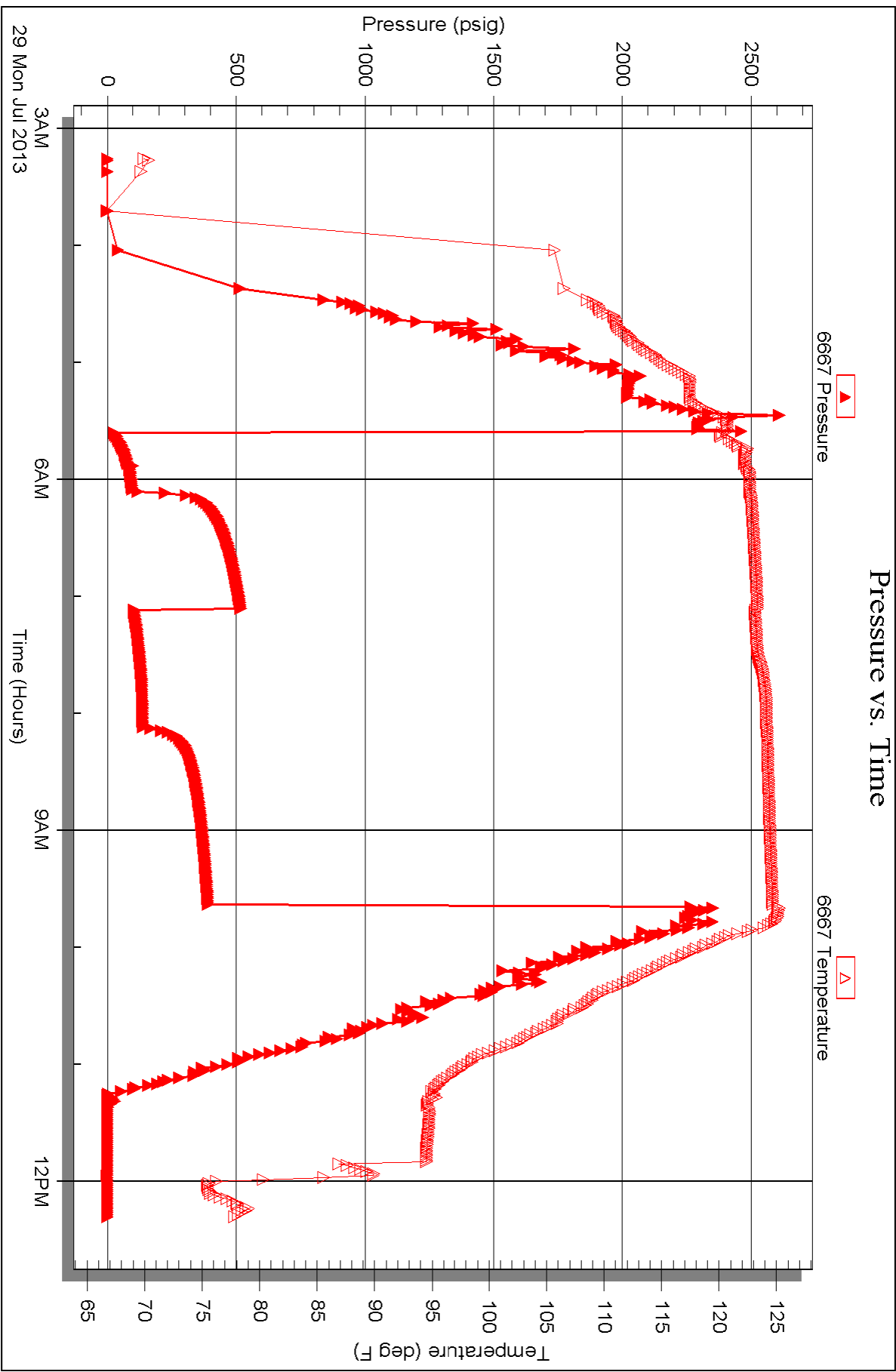
Serial #: 6667

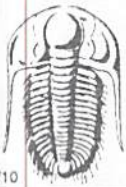
Inside

Murfin Drilling Co Inc.

Smith #2-30

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52839

Well Name & No. Smith # 2-30 Test No. #1 Date 7/26/13  
 Company Murkin Drilling Co Inc Elevation 3086 KB 3076 GL  
 Address 250 N. Water Ste. 300 Wich. Ave, KS  
 Co. Rep / Geol. Steve Miller Rig Murkin #22  
 Location: Sec. 30 Twp. 12 Rge. 32w Co. Logan State KS

Interval Tested 4209 4236 Zone Tested H  
 Anchor Length 27 Drill Pipe Run 3977 Mud Wt. 9.2  
 Top Packer Depth 4205 Drill Collars Run 236 Vis 62  
 Bottom Packer Depth 4209 Wt. Pipe Run --- WL 7.4  
 Total Depth 4236 Chlorides 9200 ppm System LCM #4

Blow Description Weak blow dried in 5 1/2 min  
No return  
No blow  
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 119° Gravity --- API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic <u>2182</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>12:45</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>13:26</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>15:40</u>
(D) Initial Shut-In <u>212</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>18:40</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:30</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>88 RT</u> 136.40	Comments
(G) Final Shut-In <u>140</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2113</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

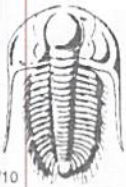
Initial Open 30  Extra Packer  
 Initial Shut-In 60  Extra Recorder  
 Final Flow 30  Day Standby  
 Final Shut-In 60  Accessibility

Sub Total 1711.40

Approved By [Signature] 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. 52840

Well Name & No. Smith # 2-30 Test No. #2 Date 7/27/13  
 Company Murphy Drilling Co. Inc. Elevation 3980 KB 3076 GL  
 Address 250 N. Water St. 300 W. Wichita, KS 67202  
 Co. Rep / Geol. Steve Miller Rig Murphy #22  
 Location: Sec. 30 Twp. 12 S Rge. 32 W Co. Logan State KS

Interval Tested 4290 4318 Zone Tested 41  
 Anchor Length 28 Drill Pipe Run 4039' Mud Wt. 9.3  
 Top Packer Depth 4285 Drill Collars Run 236' Vis 59  
 Bottom Packer Depth 4290 Wt. Pipe Run --- WL 8.0  
 Total Depth 4318 Chlorides 9200 ppm System LCM std

Blow Description 4" in. blow  
No return  
6" in. blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Feet of mcw w/o:1 Scum</u>	<u>Scum</u>		<u>50</u>	<u>50</u>
<u>240</u>	<u>Feet of mcw</u>			<u>75</u>	<u>25</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

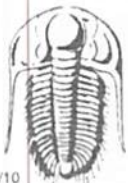
Rec Total 330' BHT 124° Gravity --- API RW 143 @ 77° F Chlorides 47,500 ppm

(A) Initial Hydrostatic 2262  Test 1250 T-On Location 09:10  
 (B) First Initial Flow 27  Jars 250 T-Started 09:35  
 (C) First Final Flow 91  Safety Joint 75 T-Open 11:33  
 (D) Initial Shut-In 1223  Circ Sub N/C T-Pulled 15:33  
 (E) Second Initial Flow 98  Hourly Standby T-Out 18:05  
 (F) Second Final Flow 165  Mileage 88 RT 136.40  
 (G) Final Shut-In 1204  Sampler  
 (H) Final Hydrostatic 2190  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder  
 Day Standby  
 Accessibility

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1711.40  
 Total 1711.40  
 MP/DST Disc't

Approved By [Signature] 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. 52841

4/10

Well Name & No. Smith #2-30 Test No. #3 Date 7/29/13  
 Company Mustard Drilling Co Inc. Elevation 3086 KB 3076 GL  
 Address 250 N. Water Ste. 300 Wichita, KS 67202  
 Co. Rep / Gea. Steve Miller Rig Mustard #22  
 Location: Sec. 30 Twp. 12s Rge. 32w Co. Jagan State KS

Interval Tested 4568 4630 Zone Tested Johnson  
 Anchor Length 62 Drill Pipe Run 4324' Mud Wt. 9.3  
 Top Packer Depth 4563 Drill Collars Run 236' Vis 43  
 Bottom Packer Depth 4568 Wt. Pipe Run --- WL 8.0  
 Total Depth 4630 Chlorides 9600 ppm System LCM #3

Blow Description 4 1/4" blow  
No return  
1 1/2" blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>75'</u>	<u>SO 3/4 w cm</u>	<u>2</u>	<u>5</u>	<u>93</u>	<u>---</u>
<u>175'</u>	<u>O 3/4 w cm</u>	<u>5</u>	<u>10</u>	<u>85</u>	<u>---</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 126.0 Gravity --- API RW 201 @ 78 ° F Chlorides 29,500 ppm

(A) Initial Hydrostatic 2384  Test 1250 T-On Location 02:45  
 (B) First Initial Flow 30  Jars --- T-Started 03:15  
 (C) First Final Flow 104  Safety Joint --- T-Open 05:37  
 (D) Initial Shut-In 523  Circ Sub N/C T-Pulled 09:37  
 (E) Second Initial Flow 108  Hourly Standby --- T-Out 12:25  
 (F) Second Final Flow 144  Mileage BBRT 272.80 Comments loaded tools 7/30 13:30  
 (G) Final Shut-In 396  Sampler ---  
 (H) Final Hydrostatic 2270  Straddle ---  Ruined Shale Packer ---  
 Shale Packer ---  Ruined Packer ---

Initial Open 30  Extra Packer ---  Extra Copies ---  
 Initial Shut-In 60  Extra Recorder --- Sub Total 800  
 Final Flow 60  Day Standby 1d 1h Total 2322.80  
 Final Shut-In 90  Accessibility --- MP/DST Disc't ---  
 Sub Total 1522.80

Approved By [Signature] 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.

Heet  
EH



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 137579  
Invoice Date: Jul 22, 2013  
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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60766	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 22, 2013	8/21/13

Quantity	Item	Description	Unit Price	Amount
		Smith #2-30		
170.00	MAT	Class A Common	17.90	3,043.00
6.00	MAT	Chloride	64.00	384.00
178.45	SER	Cubic Feet	2.48	442.55
115.21	SER	Ton Mileage	2.60	299.57
1.00	SER	Surface	1,512.25	1,512.25
14.00	SER	Pump Truck Mileage	7.70	107.80
1.00	SER	Manifold Head Rental	275.00	275.00
14.00	SER	Light Vehicle Mileage	4.40	61.60
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	D J Gray		

AK

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

\$ 2,144.01

ONLY IF PAID ON OR BEFORE  
Aug 16, 2013

Subtotal	6,125.77
Sales Tax	262.17
Total Invoice Amount	6,387.94
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,387.94</b>





PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 137690  
Invoice Date: Jul 30, 2013  
Page: 1

Acct  
EH

**Bill To:**  
Murfin Drig. Co., Inc.  
250 N. Water  
STE #300  
Wichita, KS 67202

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61230	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 30, 2013	8/29/13

Quantity	Item	Description	Unit Price	Amount
		Smith #2-30		
132.00	MAT	Class A Common	17.90	2,362.80
88.00	MAT	Pozmix	9.35	822.80
8.00	MAT	Gel	23.40	187.20
55.00	MAT	Flo Seal	2.97	163.35
236.27	SER	Cubic Feet	2.48	585.95
1.00	SER	Ton Mileage Charge	380.00	380.00
1.00	SER	Rotary Plug	2,483.59	2,483.59
14.00	SER	Pump Truck Mileage	7.70	107.80
14.00	SER	Light Vehicle Mileage	4.40	61.60
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	David Scariano		

*AKAD*

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

\$ 2,504.28

ONLY IF PAID ON OR BEFORE  
Aug 24, 2013

Subtotal	7,155.99
Sales Tax	547.36
Total Invoice Amount	7,702.45
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,702.45</b>

