



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1200712  
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: \_\_\_\_\_

1200712

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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> <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	Frisbie Inc. 1-24
Doc ID	1200712

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated





## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Rocky Milford

**Frisbie Inc. #1-24**

**24-2s-36w Rawlins KS**

Start Date: 2013.12.31 @ 01:34:00

End Date: 2013.12.31 @ 10:24:45

Job Ticket #: 55883                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.08 @ 08:35:46

Murfin Drilling Co., Inc.  
24-2s-36w Rawlins KS  
Frisbie Inc. #1-24  
DST # 1  
Oread  
2013.12.31







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55883

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2013.12.31 @ 01:34:00

## Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.80 inches	Volume: 54.88 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 55.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4103.00 ft			Final 46000.00 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 slid 5' to bottom before open - No mud loss

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4080.00	
Hydraulic tool	5.00			4085.00	
Jars	5.00			4090.00	
Safety Joint	3.00			4093.00	
Packer	5.00			4098.00	28.00 Bottom Of Top Packer
Packer	5.00			4103.00	
Stubb	1.00			4104.00	
Recorder	0.00	8671	Inside	4104.00	
Recorder	0.00	8320	Outside	4104.00	
Perforations	25.00			4129.00	
Blank Spacing	33.00			4162.00	
Bullnose	3.00			4165.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55883

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2013.12.31 @ 01:34:00

## 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: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Mud	0.615
0.00	a few oil spots in tool	0.000

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

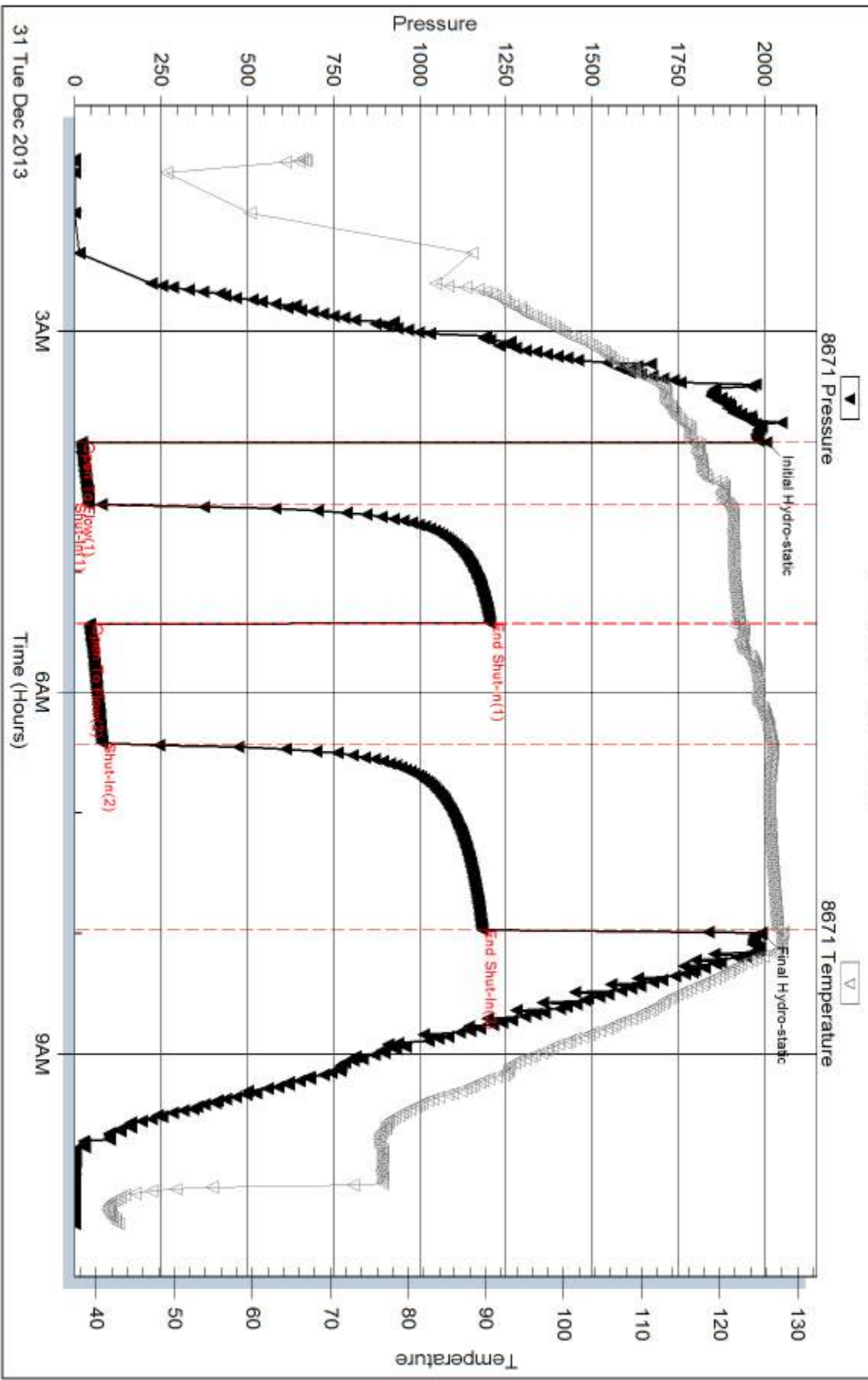
Inside

Murfin Drilling Co., Inc.

Friskie Inc. #1-24

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55883

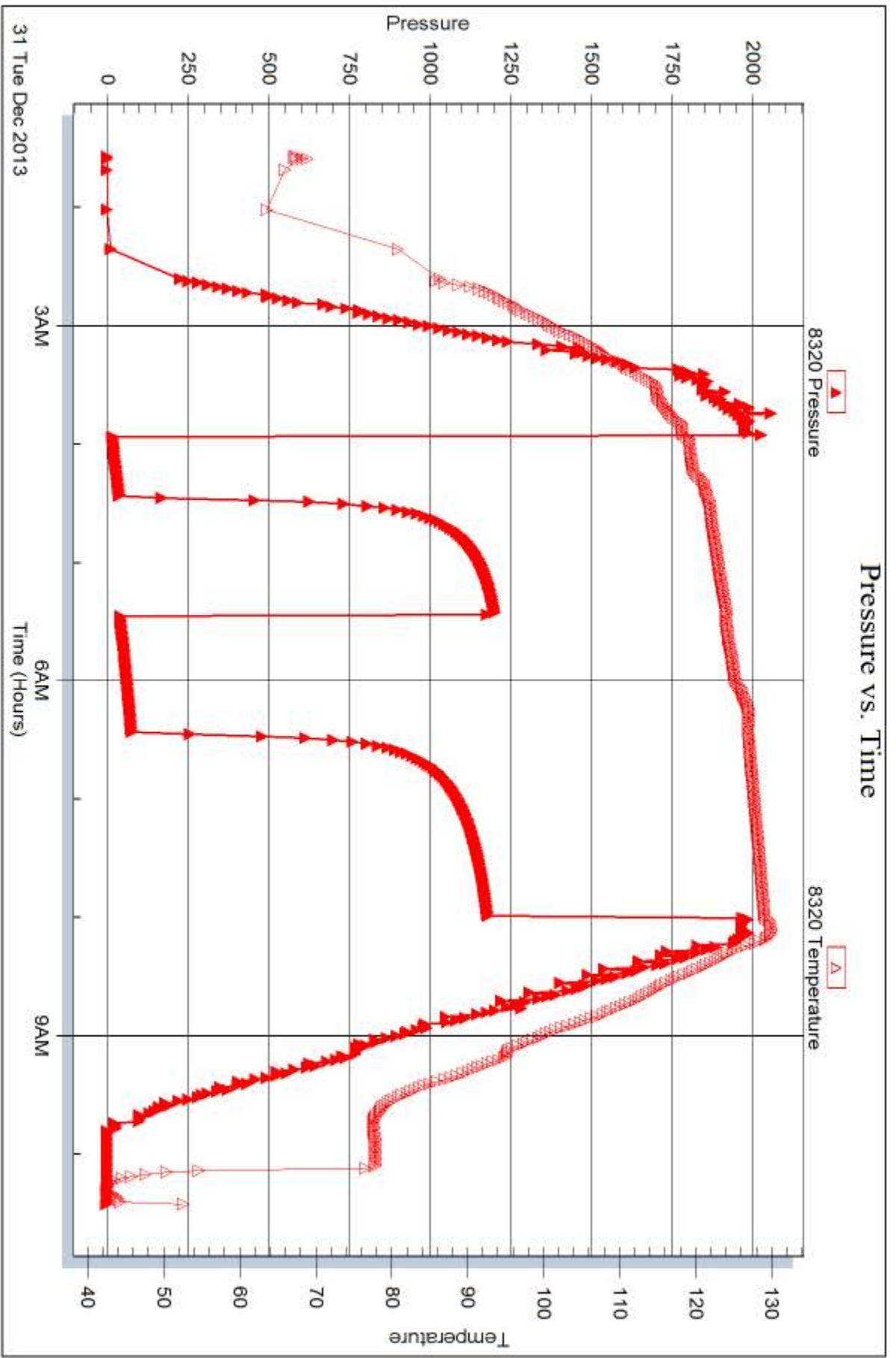
Printed: 2014.01.08 @ 08:35:48

Serial #: 8320

Outside Murfin Drilling Co., Inc.

Friskie Inc. #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55883

Printed: 2014.01.08 @ 08:35:49



## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Rocky Milford

**Frisbie Inc. #1-24**

**24-2s-36w Rawlins KS**

Start Date: 2013.12.31 @ 21:40:00

End Date: 2014.01.01 @ 06:39:00

Job Ticket #: 55884                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.08 @ 08:35:16

Murfin Drilling Co., Inc.

24-2s-36w Rawlins KS

Frisbie Inc. #1-24

DST # 2

Leavenworth - LKC 'A

2013.12.31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.  
250 N. Water Suite 300  
Wichita, KS 67202  
ATTN: Rocky Milford

**24-2s-36w Rawlins KS**

**Frisbie Inc. #1-24**

Job Ticket: 55884

**DST#: 2**

Test Start: 2013.12.31 @ 21:40:00

## GENERAL INFORMATION:

Formation: **Leavenworth - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:47:45

Time Test Ended: 06:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 4183.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Total Depth: 4285.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3308.00 ft (KB)

3303.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 217.41 psig @ 4184.00 ft (KB)

Start Date: 2013.12.31

End Date:

2014.01.01

Start Time: 21:40:05

End Time:

06:39:00

Capacity: 8000.00 psig

Last Calib.: 2014.01.01

Time On Btm: 2013.12.31 @ 23:47:30

Time Off Btm: 2014.01.01 @ 03:52:00

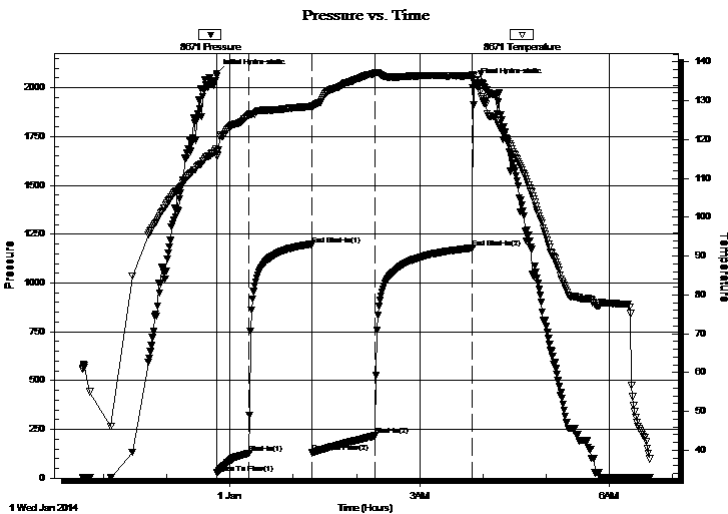
**TEST COMMENT:** 30 - IF: 1" Blow at open, built to BOB (11") in 22 min. (Diesel in bucket)

60 - IS: No blow back

60 - FF: Blow built to BOB in 30 min.

90 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.65	116.76	Initial Hydro-static
1	26.28	115.72	Open To Flow (1)
31	126.78	126.31	Shut-In(1)
90	1197.48	128.46	End Shut-In(1)
91	130.85	128.08	Open To Flow (2)
151	217.41	137.08	Shut-In(2)
243	1179.26	136.42	End Shut-In(2)
245	2025.54	135.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	MCW 85%w, 15%m	1.78
190.00	WM 58%m, 42%w	2.67

\* 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.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55884

**DST#: 2**

ATTN: Rocky Milford

Test Start: 2013.12.31 @ 21:40:00

## Tool Information

Drill Pipe:	Length: 3975.00 ft	Diameter: 3.80 inches	Volume: 55.76 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 56.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4183.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	130.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4160.00	
Hydraulic tool	5.00			4165.00	
Jars	5.00			4170.00	
Safety Joint	3.00			4173.00	
Packer	5.00			4178.00	28.00 Bottom Of Top Packer
Packer	5.00			4183.00	
Stubb	1.00			4184.00	
Recorder	0.00	8671	Inside	4184.00	
Recorder	0.00	8320	Outside	4184.00	
Perforations	32.00			4216.00	
Blank Spacing	64.00			4280.00	
Perforations	2.00			4282.00	
Bullnose	3.00			4285.00	102.00 Bottom Packers & Anchor

**Total Tool Length: 130.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55884

**DST#: 2**

ATTN: Rocky Milford

Test Start: 2013.12.31 @ 21:40:00

## 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:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MCW 85%w, 15%m	1.784
190.00	WM 58%m, 42%w	2.665

Total Length: 438.00 ft      Total Volume: 4.449 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

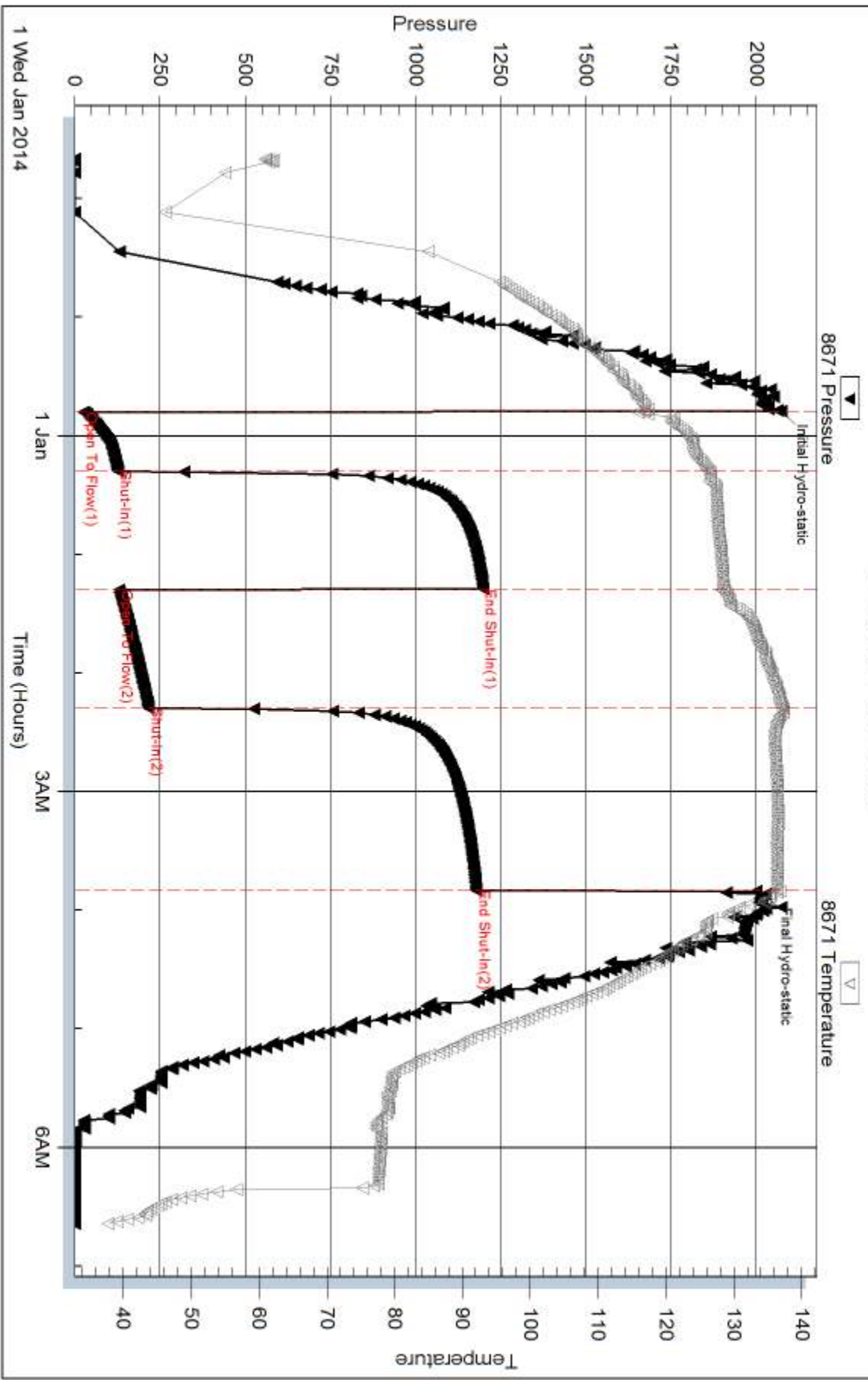
Laboratory Location:

Recovery Comments: RW = .195 ohms @ 69.7 deg F

Chlorides = 38,000 ppm



### Pressure vs. Time

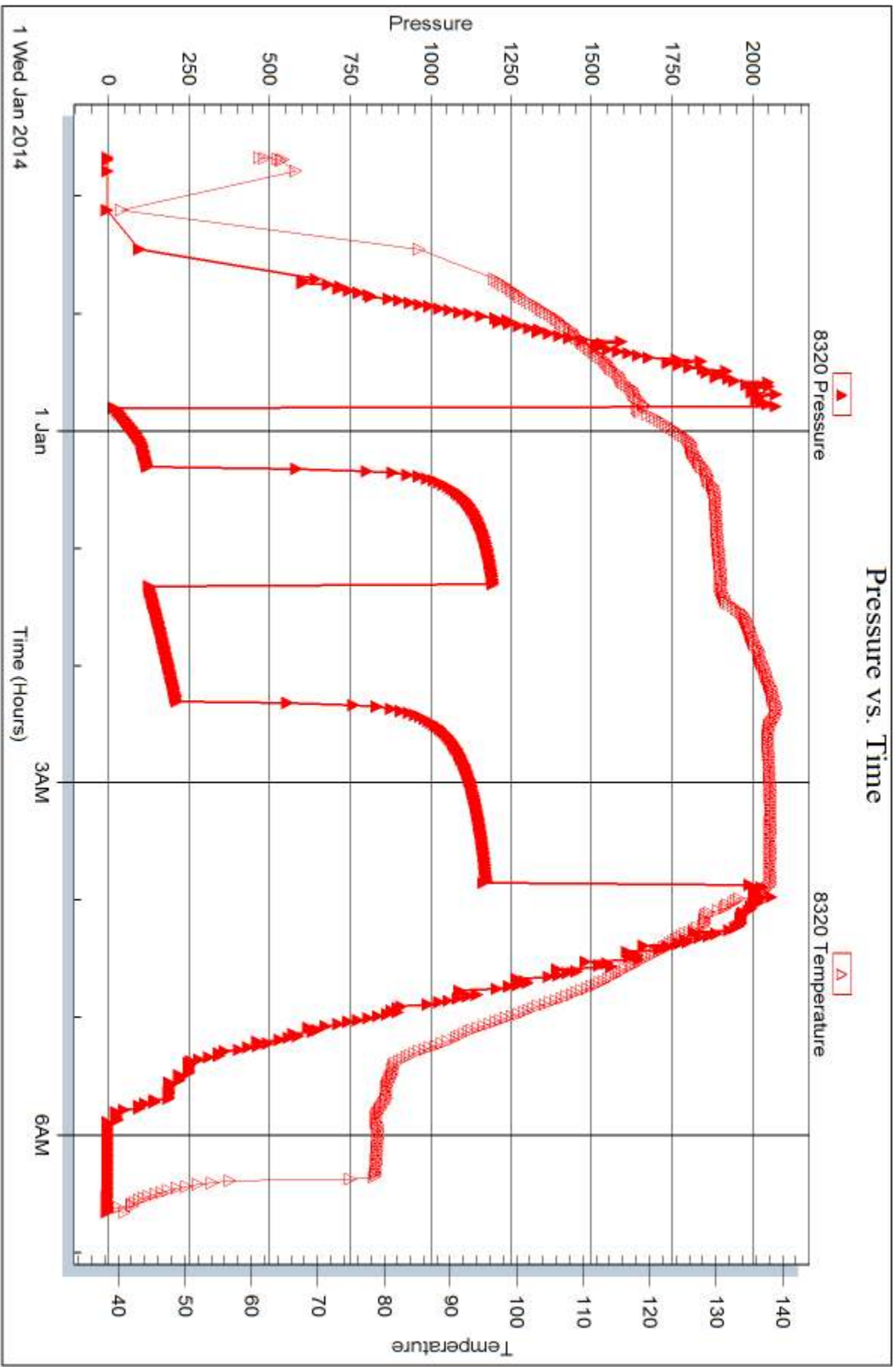


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Friskie Inc. #1-24

DST Test Number: 2





## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Rocky Milford

### **Frisbie Inc. #1-24**

#### **24-2s-36w Rawlins KS**

Start Date: 2014.01.01 @ 15:40:00

End Date: 2014.01.02 @ 00:22:45

Job Ticket #: 55885                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.08 @ 08:34:47



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.  
250 N. Water Suite 300  
Wichita, KS 67202  
ATTN: Rocky Milford

**24-2s-36w Rawlins KS**

**Frisbie Inc. #1-24**

Job Ticket: 55885      **DST#: 3**  
Test Start: 2014.01.01 @ 15:40:00

## GENERAL INFORMATION:

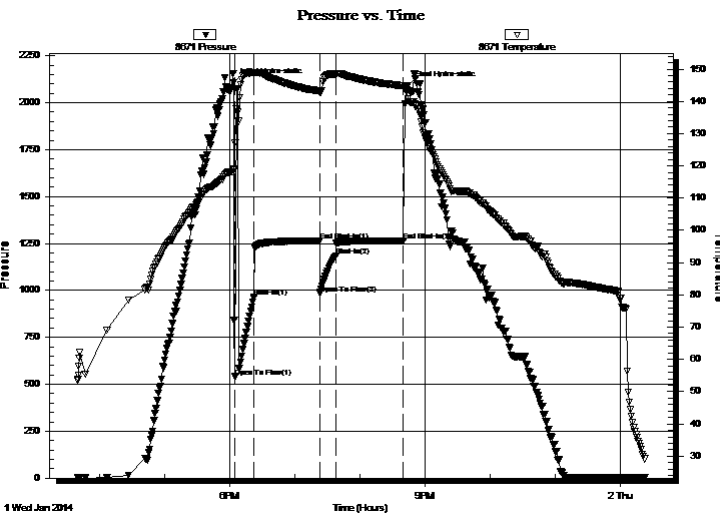
Formation: **LKC "D"**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 18:05:15  
Time Test Ended: 00:22:45  
Interval: **4266.00 ft (KB) To 4328.00 ft (KB) (TVD)**  
Total Depth: 4328.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 3308.00 ft (KB)  
3303.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: James Winder  
Unit No: 57

## Serial #: 8671

Inside

Press@RunDepth: 1184.95 psig @ 4267.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.01.01      End Date: 2014.01.02      Last Calib.: 2014.01.02  
Start Time: 15:40:05      End Time: 00:22:45      Time On Btm: 2014.01.01 @ 18:04:00  
Time Off Btm: 2014.01.01 @ 20:44:15

TEST COMMENT: 15 - IF: Blow built to BOB (11") in 40 sec. / Reset tool - BOB in 1 min. (Diesel in Bucket)  
60 - IS!: No blow back  
15 - FF: Blow built to BOB in 1 min.  
60 - FS!: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.27	119.15	Initial Hydro-static
2	539.73	127.15	Open To Flow (1)
19	964.77	148.78	Shut-In(1)
79	1265.18	143.15	End Shut-In(1)
79	983.92	142.95	Open To Flow (2)
94	1184.95	148.41	Shut-In(2)
156	1265.87	144.69	End Shut-In(2)
161	2090.56	140.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1918.00	Water 99%w, 1%m	25.21
125.00	MCW 87%w, 13%m	1.75
375.00	WCM 62%m, 38%w	5.26
200.00	SWCM 96%m, 4%w	2.81

\* 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.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55885

**DST#: 3**

ATTN: Rocky Milford

Test Start: 2014.01.01 @ 15:40:00

## Tool Information

Drill Pipe:	Length: 4069.00 ft	Diameter: 3.80 inches	Volume: 57.08 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.99 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4266.00 ft			Final 54000.00 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 slid 3' - 4' before opening - Chased 5' to bottom - mud down 6' after checking blow rechecked mud and was out of sight so we pulled tool closed and refilled hole (wasn't down much was just too foggy to see down hole) reset and started time over

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

Shut In Tool	5.00			4243.00	
Hydraulic tool	5.00			4248.00	
Jars	5.00			4253.00	
Safety Joint	3.00			4256.00	
Packer	5.00			4261.00	28.00 Bottom Of Top Packer
Packer	5.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8671	Inside	4267.00	
Recorder	0.00	8320	Outside	4267.00	
Perforations	25.00			4292.00	
Blank Spacing	33.00			4325.00	
Bullnose	3.00			4328.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55885

**DST#: 3**

ATTN: Rocky Milford

Test Start: 2014.01.01 @ 15:40:00

## 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:

20000 ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1918.00	Water 99%w, 1%m	25.210
125.00	MCW 87%w, 13%m	1.753
375.00	WCM 62%m, 38%w	5.260
200.00	SWCM 96%m, 4%w	2.805

Total Length: 2618.00 ft      Total Volume: 35.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

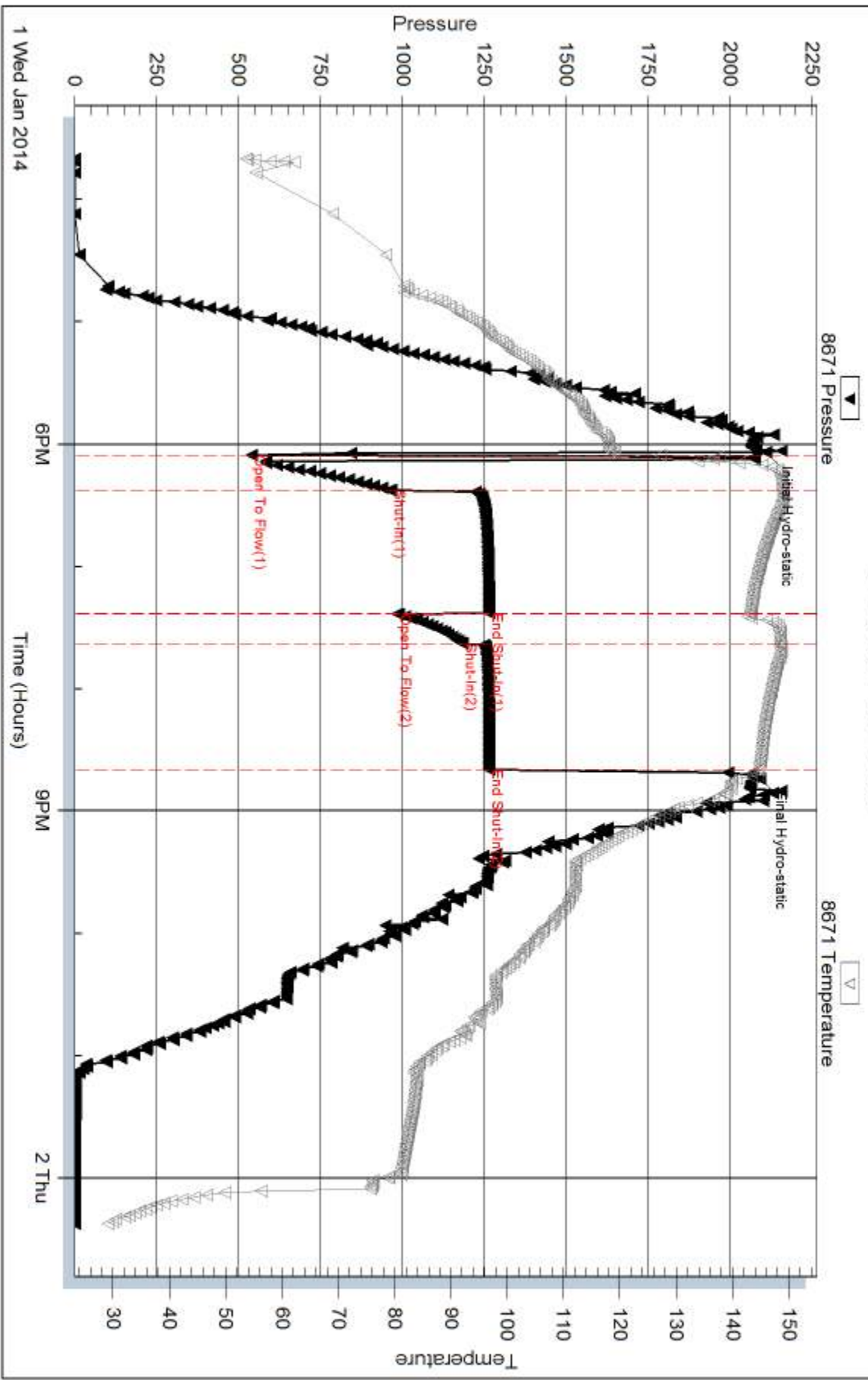
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .355 ohms @ 67.7 deg F

### Pressure vs. Time



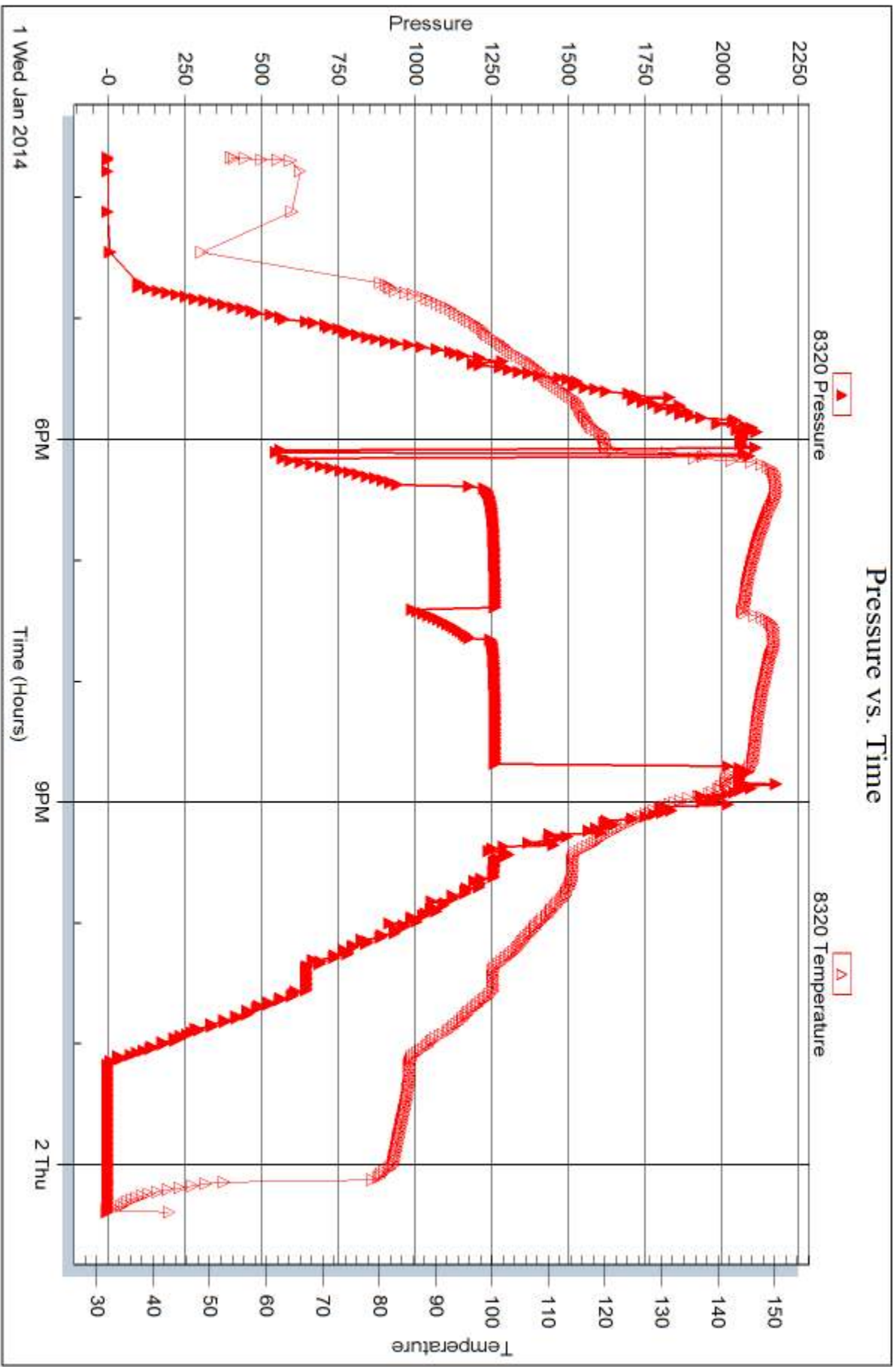


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Frisbie Inc. #1-24

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 55885

Printed: 2014.01.08 @ 08:34:49



## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Rocky Milford

### **Frisbie Inc. #1-24**

#### **24-2s-36w Rawlins KS**

Start Date: 2014.01.02 @ 10:55:00

End Date: 2014.01.02 @ 18:16:15

Job Ticket #: 55886                      DST #: 4

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

Printed: 2014.01.08 @ 08:34:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.  
 250 N. Water Suite 300  
 Wichita, KS 67202  
 ATTN: Rocky Milford

**24-2s-36w Rawlins KS**

**Frisbie Inc. #1-24**

Job Ticket: 55886      **DST#: 4**  
 Test Start: 2014.01.02 @ 10:55:00

## GENERAL INFORMATION:

Formation: **LKC "E - G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:21:15  
 Time Test Ended: 18:16:15  
 Interval: **4326.00 ft (KB) To 4372.00 ft (KB) (TVD)**  
 Total Depth: 4372.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 3308.00 ft (KB)  
 3303.00 ft (CF)  
 KB to GR/CF: 5.00 ft

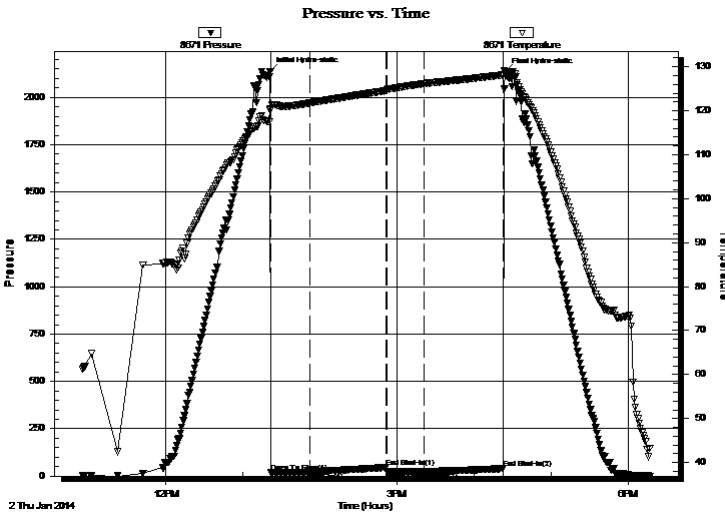
## Serial #: 8671

Inside

Press@RunDepth: 23.50 psig @ 4327.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.01.02      End Date: 2014.01.02      Last Calib.: 2014.01.02  
 Start Time: 10:55:05      End Time: 18:16:14      Time On Btm: 2014.01.02 @ 13:21:00  
 Time Off Btm: 2014.01.02 @ 16:24:00

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 1/4"  
 60 - IS: No blow back  
 30 - FF: No blow  
 60 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.89	120.19	Initial Hydro-static
1	18.79	120.32	Open To Flow (1)
31	21.24	121.75	Shut-In(1)
91	46.32	124.55	End Shut-In(1)
91	22.09	124.62	Open To Flow (2)
120	23.50	126.15	Shut-In(2)
182	40.25	128.12	End Shut-In(2)
183	2133.74	128.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w /trace of oil 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., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55886

**DST#: 4**

ATTN: Rocky Milford

Test Start: 2014.01.02 @ 10:55:00

## Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 58.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4326.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool slid 8' to bottom before open - no mud loss

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Jars	5.00			4313.00	
Safety Joint	3.00			4316.00	
Packer	5.00			4321.00	28.00 Bottom Of Top Packer
Packer	5.00			4326.00	
Packer - Shale	0.00			4326.00	
Stubb	1.00			4327.00	
Recorder	0.00	8671	Inside	4327.00	
Recorder	0.00	8320	Outside	4327.00	
Perforations	9.00			4336.00	
Blank Spacing	33.00			4369.00	
Bullnose	3.00			4372.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55886

**DST#: 4**

ATTN: Rocky Milford

Test Start: 2014.01.02 @ 10:55:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w /trace of oil 100%m	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

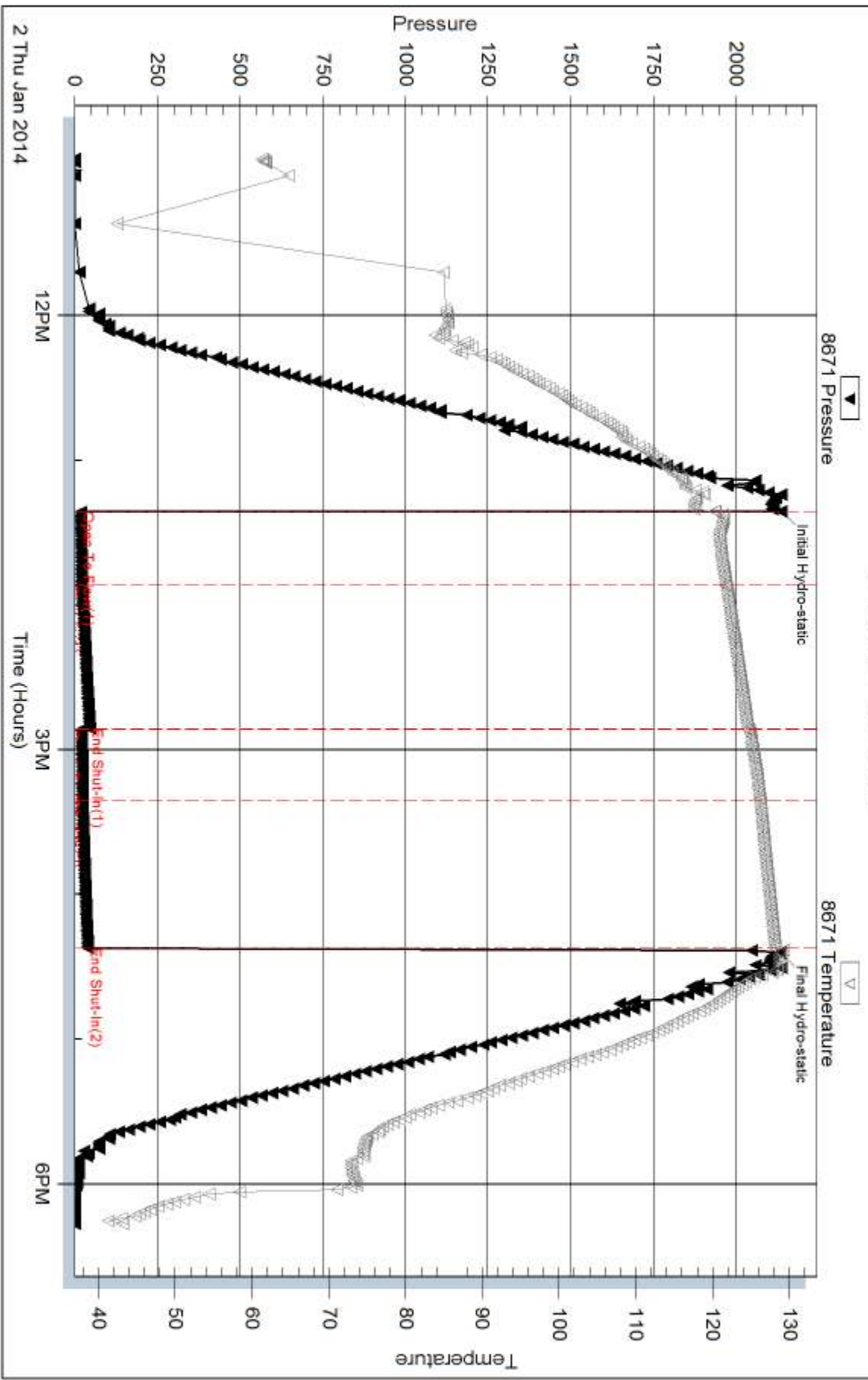
Serial #:

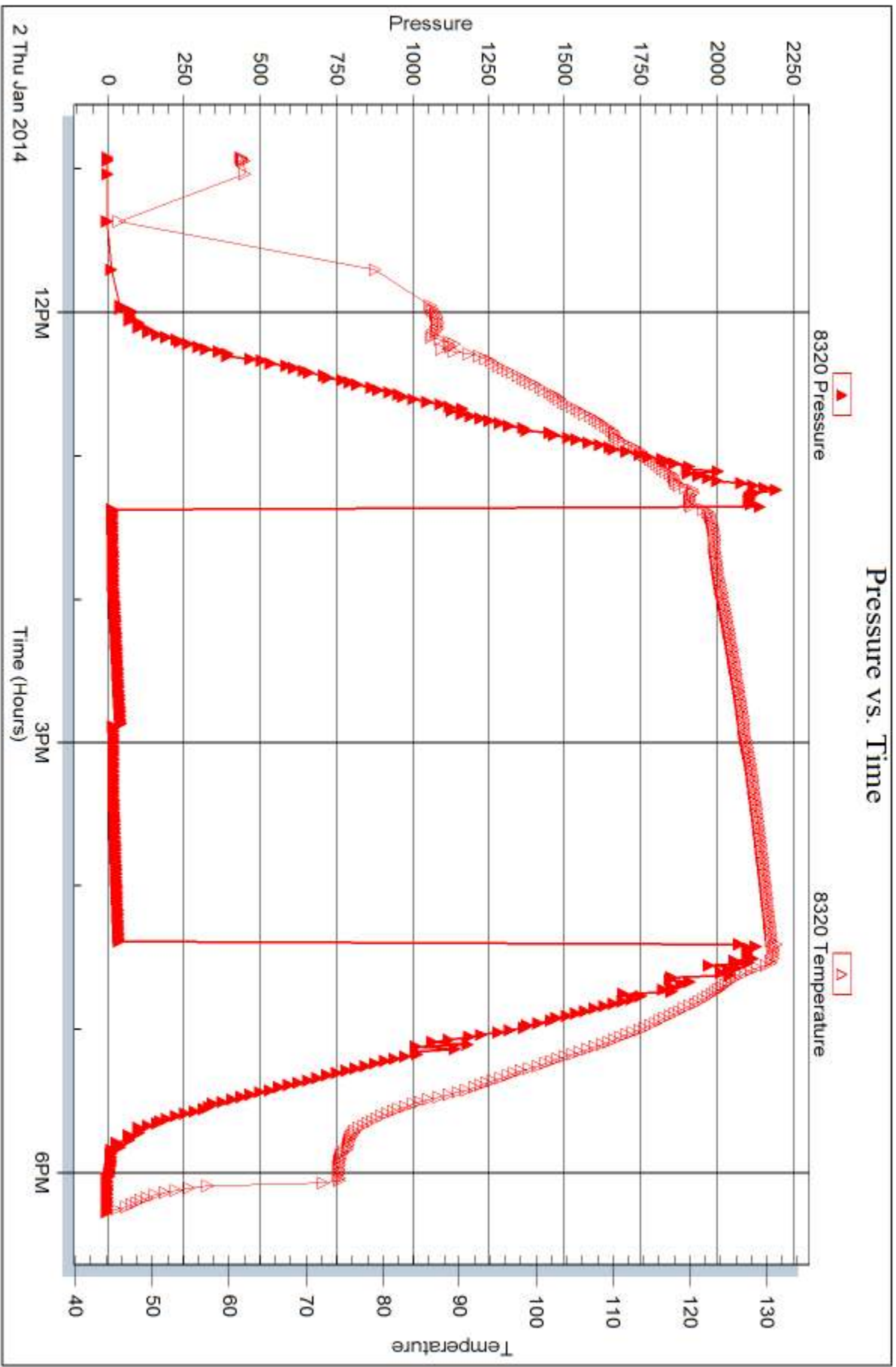
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time









## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Rocky Milford

**Frisbie Inc. #1-24**

**24-2s-36w Rawlins KS**

Start Date: 2014.01.03 @ 05:44:00

End Date: 2014.01.03 @ 14:00:30

Job Ticket #: 55887                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.08 @ 08:32:56



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.  
250 N. Water Suite 300  
Wichita, KS 67202  
ATTN: Rocky Milford

**24-2s-36w Rawlins KS**

**Frisbie Inc. #1-24**

Job Ticket: 55887

**DST#: 5**

Test Start: 2014.01.03 @ 05:44:00

## GENERAL INFORMATION:

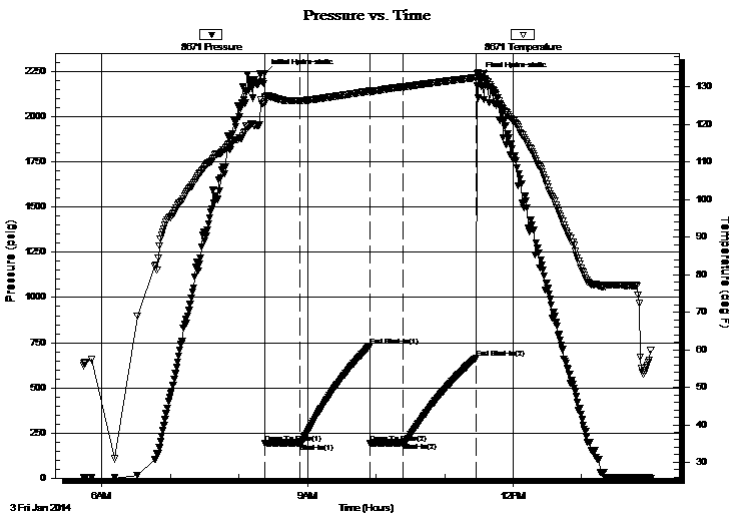
Formation: **LKC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:23:00  
 Time Test Ended: 14:00:30  
 Interval: **4421.00 ft (KB) To 4468.00 ft (KB) (TVD)**  
 Total Depth: 4468.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 3308.00 ft (KB)  
 3303.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8671

Inside

Press@RunDepth: 195.84 psig @ 4422.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.01.03 End Date: 2014.01.03 Last Calib.: 2014.01.03  
 Start Time: 05:44:05 End Time: 14:00:29 Time On Btm: 2014.01.03 @ 08:22:30  
 Time Off Btm: 2014.01.03 @ 11:29:45

TEST COMMENT: 30 - IF: 4" Blow at open, bled off at 5 min., surface blow from 9 min. till close (Diesel in bucket)  
 60 - IS: Some weak surface blow back?  
 30 - FF: Surface blow at 9 min., built slightly  
 60 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.04	126.02	Initial Hydro-static
1	191.66	127.09	Open To Flow (1)
31	195.57	126.27	Shut-In(1)
92	730.41	128.85	End Shut-In(1)
92	190.81	128.54	Open To Flow (2)
121	195.84	129.97	Shut-In(2)
185	664.79	132.45	End Shut-In(2)
188	2224.00	133.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
331.00	Mud 100%	2.95

\* 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.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55887

**DST#: 5**

ATTN: Rocky Milford

Test Start: 2014.01.03 @ 05:44:00

## Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 60.20 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4421.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool sat on bridge. Had them pick up (a few feet) and thought we were off bottom according to weight indicator. Tool opened as I went in to double check my figures - lost 30'+ of mud. Bled off and reset tool. On second attempt tool opened on bridge again and chased 6' -7' to bottom - lost another 10' of mud - had 4" blow at open.

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4398.00	
Hydraulic tool	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	3.00			4411.00	
Packer	5.00			4416.00	28.00 Bottom Of Top Packer
Packer	5.00			4421.00	
Packer - Shale	0.00			4421.00	
Stubb	1.00			4422.00	
Recorder	0.00	8671	Inside	4422.00	
Recorder	0.00	8320	Outside	4422.00	
Perforations	9.00			4431.00	
Blank Spacing	33.00			4464.00	
Perforations	1.00			4465.00	
Bullnose	3.00			4468.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**24-2s-36w Rawlins KS**

250 N. Water Suite 300  
Wichita, KS 67202

**Frisbie Inc. #1-24**

Job Ticket: 55887

**DST#: 5**

ATTN: Rocky Milford

Test Start: 2014.01.03 @ 05:44:00

## 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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
331.00	Mud 100%	2.949

Total Length: 331.00 ft      Total Volume: 2.949 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

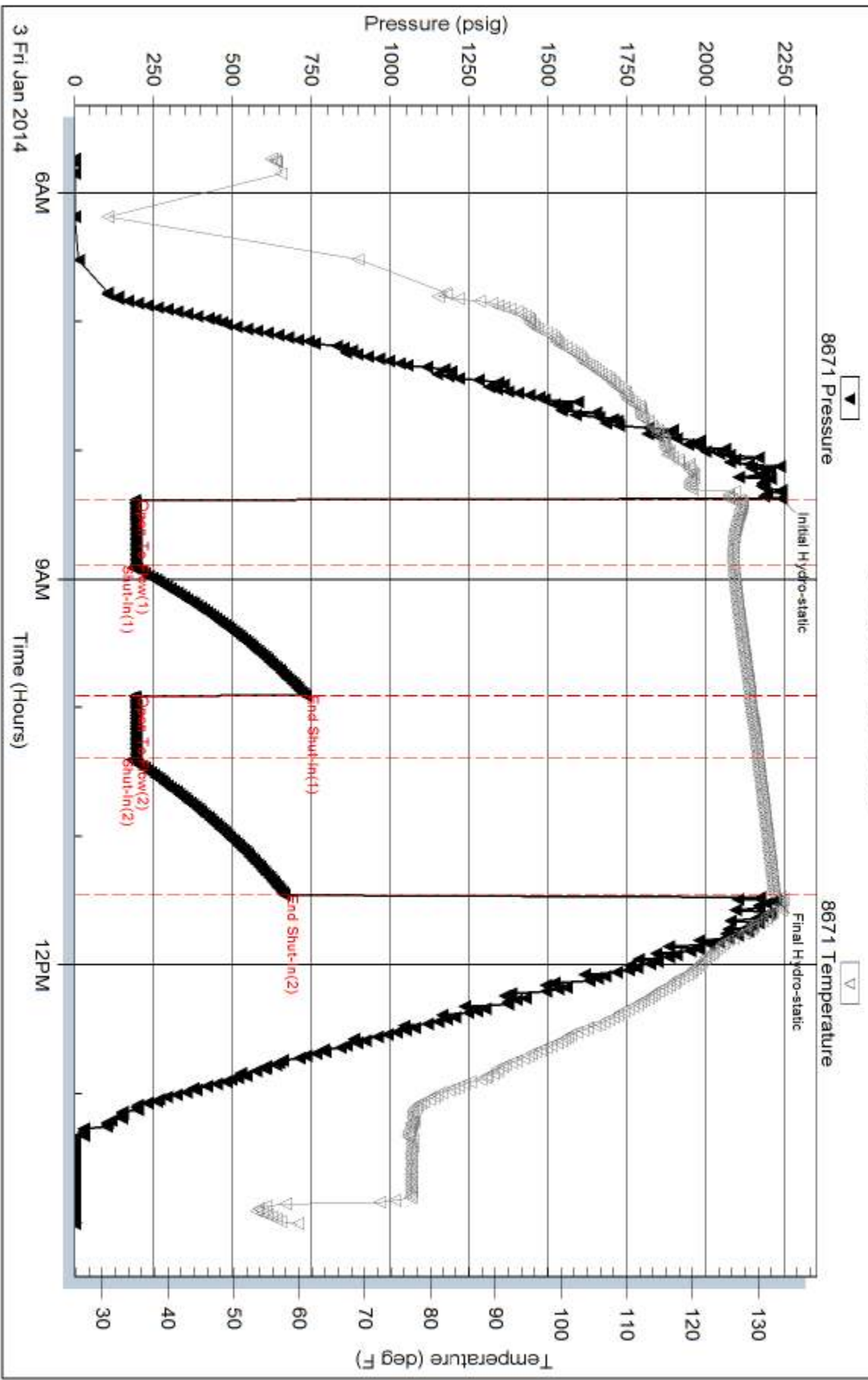
Inside

Murfin Drilling Co., Inc.

Friskie Inc. #1-24

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 55887

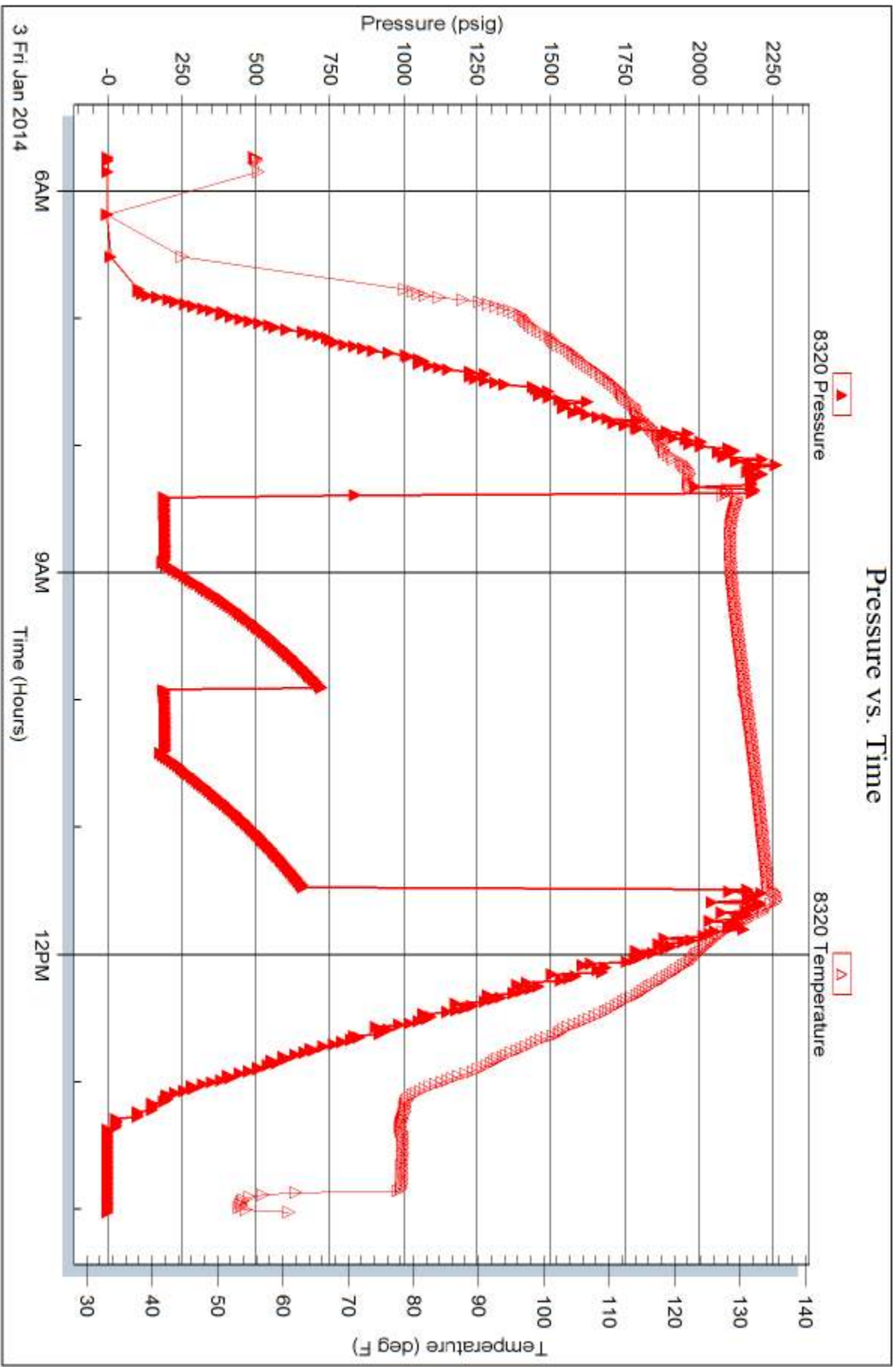
Printed: 2014.01.08 @ 08:32:58

Serial #: 8320

Outside Murfin Drilling Co., Inc.

Friskie Inc. #1-24

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 55887

Printed: 2014.01.08 @ 08:32:58



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55883**

4/10

Well Name & No. Frisbie Inc #1-24 Test No. 1 Date 12-31-13  
 Company Murfin Drilling Co. Inc Elevation 3308 KB 3303 GL  
 Address 250 N. Water Suite 300 Wichita, KS 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 24 Twp. 2S Rge. 36w Co. Rawlins State KS

Interval Tested 4103 - 4164 Zone Tested Oread  
 Anchor Length 61 Drill Pipe Run 3912 Mud Wt. 8.8  
 Top Packer Depth 4098 Drill Collars Run 186 Vis 54  
 Bottom Packer Depth 4103 Wt. Pipe Run - WL 7.2  
 Total Depth 4164 Chlorides 1200 ppm System LCM 2

Blow Description IF: 1/4" Blow at open built to 3/4" (Diesel in bucket)  
ISI: No blowback  
FF: Blow built to 3 1/2"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>mud</u>			<u>100</u>	
	<u>a few oil spots in tool</u>				

Rec Total 125 BHT 127 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

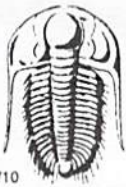
(A) Initial Hydrostatic 2006  Test \* 1250 T-On Location 00:45  
 (B) First Initial Flow 20  Jars \* 250 T-Started 1:34  
 (C) First Final Flow 41  Safety Joint \* 75 T-Open 3:55  
 (D) Initial Shut-In 1206  Circ Sub \*NA T-Pulled 7:58  
 (E) Second Initial Flow 44  Hourly Standby \_\_\_\_\_ T-Out 10:15  
 (F) Second Final Flow 80  Mileage 96 RT 148.80 Comments Tool slid 5' to bottom  
 (G) Final Shut-In 1183  Sampler \_\_\_\_\_ before open - No mud loss  
 (H) Final Hydrostatic 1992  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1723.80  
 Sub Total 1723.80 MP/DST Disc't \_\_\_\_\_

Approved By Rocky Milford Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55884**

4/10

Well Name & No. Frisbie Inc. #1-24 Test No. 2 Date 12-31-13  
 Company Murfin Drilling Co. Inc Elevation 3308 KB 3303 GL  
 Address 250 N. Water Suite 300 Wichita, KS 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 24 Twp. 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4183 - 4285 Zone Tested Leavenworth - LKC "A"  
 Anchor Length 102 Drill Pipe Run 3975 Mud Wt. 9.0  
 Top Packer Depth 4178 Drill Collars Run 186 Vis 56  
 Bottom Packer Depth 4183 Wt. Pipe Run - WL 6.0  
 Total Depth 4285 Chlorides 1000 ppm System LCM 3

Blow Description IF: 1" Blow at open, built to BOB (11") in 22 min. (Diesel in bucket)  
ISI: No blowback  
FF: Blow built to BOB in 30 min.  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>WM</u>	<u>-</u>	<u>-</u>	<u>42</u>	<u>58</u>
<u>248</u>	<u>MCW</u>	<u>-</u>	<u>-</u>	<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

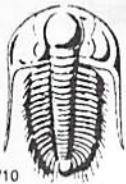
Rec Total 438 BHT 136 Gravity - API RW .195 @ 69.7 °F Chlorides 38000 ppm

(A) Initial Hydrostatic 2073  Test \* 1250 T-On Location 20:30 12/31  
 (B) First Initial Flow 26  Jars \* 250 T-Started 21:40  
 (C) First Final Flow 127  Safety Joint \* 75 T-Open 23:47  
 (D) Initial Shut-In 1197  Circ Sub \*NA T-Pulled 3:50  
 (E) Second Initial Flow 131  Hourly Standby \_\_\_\_\_ T-Out 6:30 1/1  
 (F) Second Final Flow 217  Mileage 96 RT 148.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 1179  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2026  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1723.80  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1723.80

Approved By Rocky Milford

Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55885**

4/10

Well Name & No. Frisbie Inc. #1-24 Test No. 3 Date 1-1-14  
 Company Murfin Drilling Co. Inc. Elevation 3308 KB 3303 GL  
 Address 250 N. Water Suite 300 Wichita, KS 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 24 Twp. 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4266- 4328 Zone Tested LKC "D"  
 Anchor Length 62 Drill Pipe Run 4069 Mud Wt. 9.1  
 Top Packer Depth 4261 Drill Collars Run 186 Vis 73  
 Bottom Packer Depth 4266 Wt. Pipe Run - WL 5.6  
 Total Depth 4328 Chlorides 1000 ppm System LCM 3

Blow Description IF: BOB (41") in 40sec/Reset tool - BOB in 1min (Diesel in Bucket)  
ISI: No blowback  
FF: Blow built to BOB in 1 min.  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>swcm</u>	-	-	<u>4</u>	<u>96</u>
<u>375</u>	<u>wcm</u>	-	-	<u>38</u>	<u>62</u>
<u>125</u>	<u>mcw</u>	-	-	<u>87</u>	<u>13</u>
<u>1918</u>	<u>water</u>	-	-	<u>99</u>	<u>1</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2618 BHT 145 Gravity API RW .355 @ ~~67.7~~ °F Chlorides 20,000 ppm

(A) Initial Hydrostatic 2109  Test \* 1250 T-On Location 14:40 1/2  
 (B) First Initial Flow 540  Jars \* 250 T-Started 15:40  
 (C) First Final Flow 965  Safety Joint \* 75 T-Open 18:05  
 (D) Initial Shut-In 1265  Circ Sub \* NA T-Pulled 20:40  
 (E) Second Initial Flow 984  Hourly Standby \_\_\_\_\_ T-Out 00:20 1/2  
 (F) Second Final Flow 1185  Mileage 96 RT 148.80  
 (G) Final Shut-In 1266  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2091  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15 Sub Total 0  
 Initial Shut-In 60 Total 1723.80  
 Final Flow 15 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1723.80

Approved By Rocky Milford Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55886**

4/10

Well Name & No. Frisbie Inc #1-24 Test No. 4 Date 1-2-14  
 Company Murfin Drilling Co. Inc. Elevation 3308 KB 3303 GL  
 Address 250 N. Water Suite 300 Wichita, KS 67202  
 Co. Rep / Geo. Rocky milford Rig Murfin #8  
 Location: Sec. 24 Twp. 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4326-4372 Zone Tested LKC "E-6"  
 Anchor Length 46 Drill Pipe Run 4133 Mud Wt. 9.1  
 Top Packer Depth 4321 Drill Collars Run 186 Vis 52  
 Bottom Packer Depth 4326 (shale) Wt. Pipe Run - WL 6.0  
 Total Depth 4372 Chlorides 1200 ppm System LCM 2

Blow Description IF: 1/4" Blow at open, built to 1 1/4" (Diesel in bucket)  
ISI: No blowback  
FF: No blow  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud w/trace of oil</u>	<u>-</u>	<u>trace</u>	<u>100</u>	<u>-</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 128 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2136  Test \* 1250 T-On Location 9:45  
 (B) First Initial Flow 19  Jars \* 250 T-Started 10:55  
 (C) First Final Flow 21  Safety Joint \* 75 T-Open 13:21  
 (D) Initial Shut-In 46  Circ Sub \*NA T-Pulled 16:22  
 (E) Second Initial Flow 22  Hourly Standby T-Out 18:15  
 (F) Second Final Flow 24  Mileage 96 RT 148.80 Comments Tool slid 8' to bottom  
 (G) Final Shut-In 40  Sampler before open - No mud loss  
 (H) Final Hydrostatic 2134  Straddle  Ruined Shale Packer  
 Shale Packer \* 250  Ruined Packer

Initial Open 30  Extra Packer  
 Initial Shut-In 60  Extra Recorder  
 Final Flow 30  Day Standby  
 Final Shut-In 60  Accessibility  
 Sub Total 1973.80 MP/DST Disc't

Approved By Rocky Milford Our Representative James Winder  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55887

Well Name & No. Frisbie Inc. #1-24 Test No. 5 Date 1-3-14  
 Company Murfin Drilling Co. Inc. Elevation 3308 KB 3303 GL  
 Address 250 N. Water Suite 300 Wichita, KS 67202  
 Co. Rep / Geo. Rocky Milford Rig Murfin #8  
 Location: Sec. 24 Twp. 2S Rge. 36w Co. Rawlins State KS

Interval Tested 4421 - 4468 Zone Tested LKC "J"  
 Anchor Length 47 Drill Pipe Run 4227 Mud Wt. 9.3  
 Top Packer Depth 4416 Drill Collars Run 186 Vis 49  
 Bottom Packer Depth 4421 (shale) Wt. Pipe Run - WL 6.8  
 Total Depth 4468 Chlorides 1200 ppm System LCM 2

Blow Description IF: 4" Blow at open, Bled off at 5 min., surface blow from 9 min till close  
ISI: ~~ISI~~ some weak surface blowback?  
FF: Surface blow at 9 min., built slightly  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
331	Mud			100	
Rec Total	331	BHT	132	Gravity	-
				API RW	-
				@	-
				F	-
				Chlorides	-
				ppm	

(A) Initial Hydrostatic 2241  Test 1250 T-On Location 4:30  
 (B) First Initial Flow 192  Jars 250 T-Started 5:44  
 (C) First Final Flow 196  Safety Joint 75 T-Open 8:23  
 (D) Initial Shut-In 730  Circ Sub \* T-Pulled 11:27  
 (E) Second Initial Flow 191  Hourly Standby \_\_\_\_\_ T-Out 14:00  
 (F) Second Final Flow 196  Mileage 96 RTX2 297.60 Comments Tool opened on bridge-  
 (G) Final Shut-In 665  Sampler \_\_\_\_\_ lost 30' of mud - Reset tool -  
 (H) Final Hydrostatic 2224  Straddle \_\_\_\_\_ Chased 6-7' to bottom lost 10' mud  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_ 4" Blow @ open  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2122.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2122.60

Approved By Robert Milford Our Representative James Winder  
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# Robert L. Milford

PETROLEUM GEOLOGIST  
Wichita, Kansas

WICHITA GEOLOGIST  
GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOGS

OPERATOR: **Murfin Drilling Company, Inc.**  
LEASE: **Fisbide Inc. #1-24**  
LOC. SPOT: **NW NW NW**

ELEVATIONS  
KB: **3,308'**  
GL: **3,303'**

MEASUREMENTS  
LOC FOOTAGE: **330' FNL 330' FWL**  
SEC: **24** TWP: **2S** RANG: **36W**  
COUNTY: **Rawlins** STATE: **KANSAS**

APR: **15-153-20938-00-00**

CONTRACTOR: **Murfin Drilling Co. Inc.** RIG NO.: **8**  
DRILLING STARTED: **12-27-2013** COMPLETED: **1-2-2014**  
MUD DISCHARGED: **3,385** MUD TYPE: **GRAVEL**  
DRILL TIME (MIN/F) FROM: **3:57/0** TO: **R/D**  
SAMPLES SAVED FROM: **3:57/0** TO: **R/D**  
SAMPLES EXAMINED FROM: **3:57/0** TO: **R/D**  
GEOLOGICAL SUPERVISION FROM: **3:57/0** TO: **R/D**

FORMATION NAME: **TOP** DATE/TIME: **TOP** DATUM: **TOP**

LOG NAME: **TOP** DATE/TIME: **TOP** DATUM: **TOP**

Stone Corral 3183' +125'  
Neva 3685' -377'  
Topkang 4029' -721'  
Landing 4246' -938'  
B/K 4469' -161'  
B/C 4518' -1210'  
Pawnee 4652' -1344'  
Cherokee 4724' -1416'  
Mississippi 4936' -1628'  
Total Depth 5036' -1728'

3183' +125' 3182' +16'  
3685' -377' 3684' -376'  
4029' -721' 4029' -721'  
4246' -938' 4245' -937'  
4469' -161' 4468' -160'  
4518' -1210' 4517' -1209'  
4652' -1344' 4651' -1343'  
4724' -1416' 4723' -1415'  
4936' -1628' 4936' -1628'  
5036' -1728' 5038' -1730'

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

SOIL SAMPLES  
Porosity Log  
Microresistivity Log  
Borehole Compensated

DATE	7:00 AM DEPTH	REMARKS
12-27-13	0'	Spud @ 10:00 am. Plug down @ 4:45 pm. Drilled out plug @ 12:45 am on 12/28 w/ PDC bit
12-28-13	990'	Cut 990' in last 24 hrs
12-29-13	3180'	Cut 2190' in last 24 hrs; 22:25 hrs drlg. Bit trip @ 3552' (non button bit)
12-30-13	3850'	Cut 670' in last 24 hrs; 16.5 hrs drlg. DST #1 @ 4164'
12-31-13	4164'	Pr v-vy frn grain, sil calc, some shily, soft-brITTLE, pr vis por, NS
1-1-14	4285'	Cut 121' in last 24 hrs; 4:25 hrs drlg. DST #2 @ 4328'
1-2-14	4365'	Cut 80' in last 24 hrs; 3:25 hrs drlg. DST #4 @ 4372', DST #5 @ 4468'
1-3-14	4468'	Cut 103' in last 24 hrs; 4:25 hrs drlg.
1-4-14	4695'	Cut 227' in last 24 hrs; 11:75 hrs drlg. RTD 5038' @ 10:29 pm
1-5-14	5038'	Cut 343' in last 24 hrs; 14:25 hrs drlg. Ran production casing.

Remarks

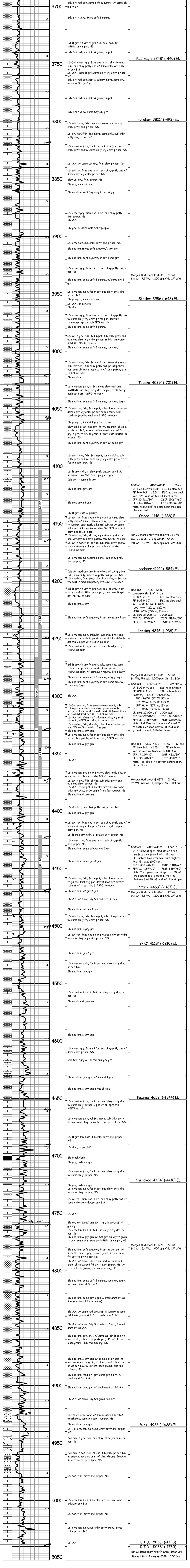
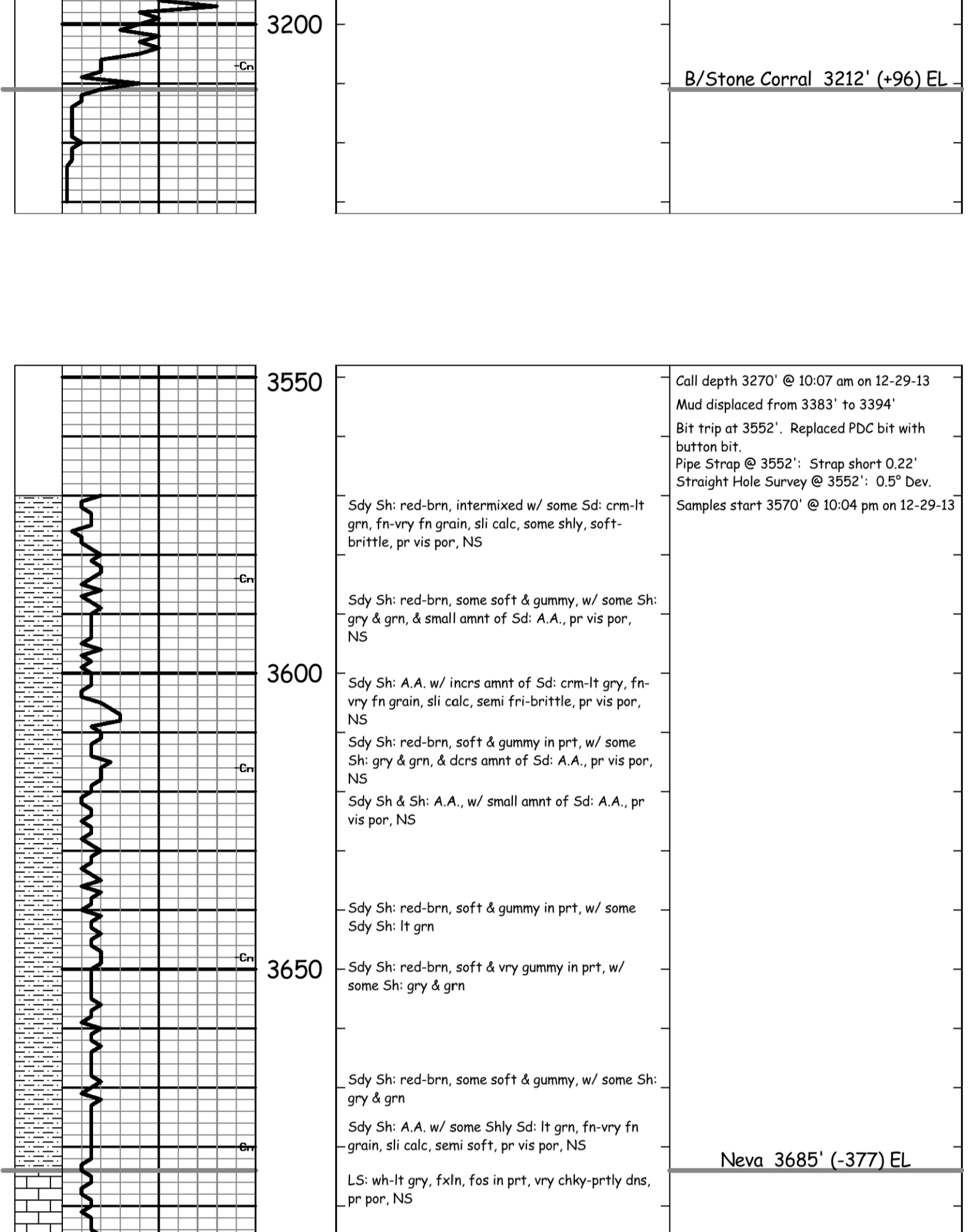
The electric log measurements correlate from even to 1' lower to the drilling measurements.

Formation tops and lithology on this report have been corrected to the electric log.

The drilling samples were deposited at the Kansas Geological Survey office in Wichita.

Respectfully submitted,

Robert L. Milford



- 1/2/14 Depth 4355'. Cut 70'. DT: ½ hr DW. CT: 20¼ hrs. Dev.: None. **LKC D:** LS-Dol - pr w/ some fr intrprtcal por, scat lt-med brn & blk (some thick oil & asph) sptd-sat stn, SSFO, no odor, tr barren por. **DST #3 4266-4328 (LKC D):** 15-60-15-60. IF: BOB in 40 seconds, reset tool & BOB in 1 min (see Note). ISl: no blow back. FF: BOB in 1 min. FSl: no blow back. Rec. 2,618' TF, 200' SWCM (4% W, 96% M), 375' WCM (38% W, 62% M), 125' MCW (87% W, 13% M), 1,918' Water (99% W, 1% M). Chlr. 20,000 ppm. Pit chlr. 1,000 ppm. HP: 2109-2091. FP: 540/965, 984/1185. SIP: 1265-1266. BHT: 145°. Note: Slid 3'-4' before open. Chased 5' to bottom at open. Lost 6' of mud. Mud got out of sight. Pulled and reset tool. **LKC E:** pr por, mstly patchy w/ tr sat stn, SSFO, no odor. **LKC G:** pr por, vry scat blk sptd stn, NSFO, no odor (est 4' of zn cut). **DST #4 4326-4372 (LKC E-G):** est on bottom w/ test about 1:00 pm
- 1/03/14 Depth 4468'. Cut 113'. DT: None. CT: 19¾ hrs. Dev.: None. **DST #4 4326-4372 (LKC E-G):** 30-60-30-60. IF: blow built to 1¼". FF: no blow. Rec. 2' Mud w/ trace of oil (trace O, 100%M). HP: 2136-2134. FP: 19/21, 22/24. SIP: 46-40. BHT: 128°. Note: Tool slid 8' to bottom before open. No mud loss. **LKC J:** fr-gd fos-small vug por, scat it-med brn patchy-sub sat w/ tr sat stn, S-FSFO, no odor. **DST #5 4421-4468 (LKC J):** 30-60-30-60. IF: 4"blw @ open, bled off @ 5mins, surf blw from 9mins till close. ISl: some wk surf blw back. FF: surf blw @ 9mins, built slightly. Rec.: 331'M. HP: 2241-2224. FP:192/196, 191/196. SIP: 730-665. BHT: 132°.
- 1/04/14 Depth 4695'. Cut 227'. DT: None. CT: 12 hrs. Dev.: None.
- 1/05/14 RTD: 5038'. Cut 343'. DT: None. CT: 9hrs. Dev.: None. Pioneer started logging @ 4:45AM 1/05. LTD: 5036'.
- 1/06/14 RTD: 5038'. CT: 22¼ hrs. Pioneer finished logging @ 10:45AM 1/05. Ran 120jts of 15.5# 5 ½" prod csg, set @ 5032'. Swift cmt w/450sxs (250sxs SMD, 200EA-2). PD @ 1:15AM 1/6. 30sxs RH, 20sxs MH. Pumped plug w/rig pump. Did circ 25BBLs. RR @ 5:15AM 1/6/14. FINAL REPORT.

		MDCI Frisbie Inc #1-24 330' FNL 330'FWL Sec. 24-2S-36W 3308' KB				MDCI Frisbie #2-23 2290' FNL 1950'FEL Sec. 23-2S-36W 3294' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	3182	+126	-17	3183	+125	-18	3151	+143
B/Anhydrite	3211	+97	-13	3212	+96	-14	3184	+110
Neva	3684	-376	-21	3685	-377	-22	3649	-355
Stotler	3956	-648	-21	3956	-648	-21	3921	-627
Topeka	4027	-719	-20	4029	-721	-22	3993	-699
Heebner	4191	-883	-23	4192	-884	-24	4154	-860
Lansing	4245	-937	-25	4246	-938	-26	4206	-912
Stark	4467	-1159	-29	4469	-1161	-31	4424	-1130
BKC	4518	-1210	-28	4518	-1210	-28	4476	-1182
Pawnee	4650	-1342	-32	4652	-1344	-34	4604	-1310
Cherokee	4722	-1414	-35	4724	-1416	-37	4673	-1379
Mississippi	4936	-1628	-47	4936	-1628	-47	4875	-1581
RTD	5038	-1730					4980	
LTD				5036			4977	



*acct.  
Prod-LH*

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 140562  
Invoice Date: Dec 27, 2013  
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62198	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 27, 2013	1/26/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Frisbie Inc #1-24		
350.00	CEMENT MATERIALS	Class A Common	17.90	6,265.00
12.00	CEMENT MATERIALS	Chloride	64.00	768.00
367.50	CEMENT SERVICE	Cubic Feet Charge	2.48	911.40
1,355.51	CEMENT SERVICE	Ton Mileage Charge	2.60	3,524.33
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 Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Chris Helpingstine		

*OK*

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

\$ 4,978.39 *3516*

ONLY IF PAID ON OR BEFORE *OK*

Jan 21, 2014

Subtotal	14,223.98
Sales Tax	555.61
Total Invoice Amount	14,779.59
Payment/Credit Applied	
<b>TOTAL</b>	<b>14,779.59</b>

*- 4978.39*

*\$ 9801.20*







P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
1/5/2014	25263

BILL TO	
Murfin Drilling Co Inc	USED FOR <u>10-103</u>
PO Box 661	
Colby, KS 67701-0661	APPROVED <u>[Signature]</u> F.H.

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-24	Frisbie Inc.	Rawlins		Oil	Development	5-1/2"Top To Bo...	Josh

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString	1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
290	D-Air	5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket	3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer	15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher	3	Each	40.00	120.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)	300	Sacks	18.50	5,550.00T
276	Flocele	125	Lb(s)	2.50	312.50T
283	Salt	1,000	Lb(s)	0.20	200.00T
284	Calseal	9	Sack(s)	35.00	315.00T
285	CFR-1	150	Lb(s)	4.50	675.00T
581D	Service Charge Cement	500	Sacks	2.00	1,000.00
583D	Drayage	3,814.5	Ton Miles	1.00	3,814.50
	Subtotal				21,822.00
	Sales Tax Rawlins County			7.90%	1,114.49

**Thank You For Your Business In 2013!**  
**We Look Forward To Serving You In 2014!**

**Total** \$22,936.49



Services, Inc.

TICKET 25263

CHARGE TO: Murphy  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

1. SERVICE LOCATIONS: Hays, KS WELL/PROJECT NO.: 1-24 LEASE: Frisker Inc COUNTY/PARISH: Rawlins STATE: KS CITY: \_\_\_\_\_ DATE: 1-5-14 OWNER: \_\_\_\_\_  
 2. Ness City, KS TICKET TYPE:  SERVICE  SALES CONTRACTOR: \_\_\_\_\_ RIG NAME/NO.: \_\_\_\_\_ ORDER NO.: \_\_\_\_\_  
 3. WELL TYPE: 6-1 WELL CATEGORY: Development JOB PURPOSE: 5 1/2 Top on bottom long string WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: Sec 24, Twp 2S, R 36W  
 4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MI LEAGE # 112	150	mi			6.00	900.00
579					Pump Charge Top on bottom long string	1	ea			2000.00	2000.00
221					Legend KCLL	4	gal			25.00	100.00
281					Mud Flush	500	gal			1.25	625.00
290					0-Ax	5	gal			42.00	210.00
403					Lease Basket	3	ea		5 1/2	300.00	900.00
406					Lith Down Plug + Bath	1	ea			275.00	275.00
407					Insert Fluct Shoe w Auto Fill	1	ea			375.00	375.00
409					Turbolizers	15	ea			90.00	1350.00
413					Auto well Scratchers	3	ea			40.00	120.00
419					Rotating Head Rental	1	ea			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 DATE SIGNED: 1-5-13 TIME SIGNED: 1630  A.M.  P.M.  
 REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	P1	P2
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					7055	00	
WE UNDERSTOOD AND MET YOUR NEEDS?					14767	00	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					Subtotal	21,822	00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					Tax	114	49
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			TOTAL	22,936	49
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND							

SWIFT OPERATOR: [Signature] APPROVAL: \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_ The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 1-5-73 PAGE NO.

CUSTOMER Murkin WELL NO. 1-24 LEASE Freshie Inc JOB TYPE 5 1/2 Top to Bottom TICKET NO. 25263

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0430							on location
								TD 5038 SS - 21.71
								TP 5032 Insert 5011
								centralizers 1-13, 34, 44
								Baskets 10, 35, 45
	2000							Start Pipe
								Break Circulation st #60
								Finish Running Pipe
	2215							Drop Ball Circulate Rotate
	2315	5	12		✓		300	Start mud flush
		5	20		✓		300	Start KCL flush
		5	138		✓		200	Start cement SMD 250 sks
		5	48		✓		200	200 sks EA7
								Drop Plug wash out Pump + Lines
								Pump Plug with Mud Pump
		6			✓			Start Displacement w/ 20 Bbl KCL H <sub>2</sub> O
		6			✓			finish Displacement
		6	105		✓			Circulate cement
	0115		119.2		✓		<del>900</del> 1500	land Plug
								Release Plug
								Plug R H 30 sks M H 20 sks
								wash up Rack up
	0230							Job complete
								Thank You
								Josh, Brian, Rob, Doug