



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1208227  
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: \_\_\_\_\_

1208227

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> <input type="checkbox"/> Other <i>(Specify)</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	Abell Ranch 'B' 1-31
Doc ID	1208227

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita, KS 67202-1216

ATTN: Saman Sharifaie

### **Abell Ranch B #1-31**

### **31-12s-30w Gove,KS**

Start Date: 2014.02.26 @ 03:20:30

End Date: 2014.02.26 @ 12:05:00

Job Ticket #: 56285                      DST #: 1

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

Printed: 2014.03.04 @ 14:34:37



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove, KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56285 **DST#: 1**  
Test Start: 2014.02.26 @ 03:20:30

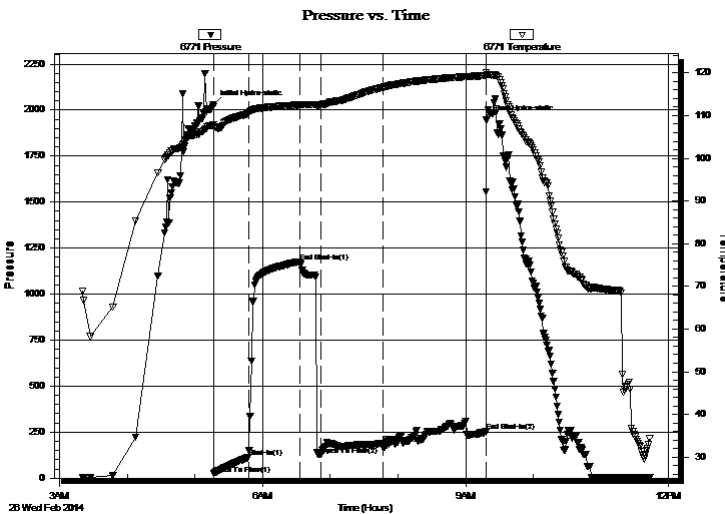
## GENERAL INFORMATION:

Formation: **E-F**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 05:16:45  
Time Test Ended: 12:05:00  
Interval: **4018.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
Total Depth: 4058.00 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: 2907.00 ft (KB)  
2896.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6771 Inside**  
Press@RunDepth: 189.85 psig @ 4019.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.02.26 End Date: 2014.02.26 Last Calib.: 2014.02.26  
Start Time: 03:20:30 End Time: 11:43:00 Time On Btm: 2014.02.26 @ 05:16:15  
Time Off Btm: 2014.02.26 @ 09:18:15

**TEST COMMENT:** B.O.B. in 23 min. Torqued 3 rounds before turning  
2 1/2" return blow  
B.O.B. in 23 min.  
10" return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.61	107.99	Initial Hydro-static
1	23.15	107.45	Open To Flow (1)
32	112.10	110.42	Shut-In(1)
77	1176.23	112.50	End Shut-In(1)
95	126.88	112.53	Open To Flow (2)
150	189.85	116.58	Shut-In(2)
242	252.65	119.37	End Shut-In(2)
242	1949.29	120.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	g m & w c o 15g 10m 35w 40o	3.05
155.00	g w & m c o 15g 10w 30m 45o	2.17
31.00	c g o 20g 80o	0.43
0.00	558' gas in pipe	0.00

## Gas Rates

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



# TRILOBITE TESTING, INC

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
 250 N Water Ste 300  
 Wichita, KS 67202-1216  
 ATTN: Saman Sharifaie

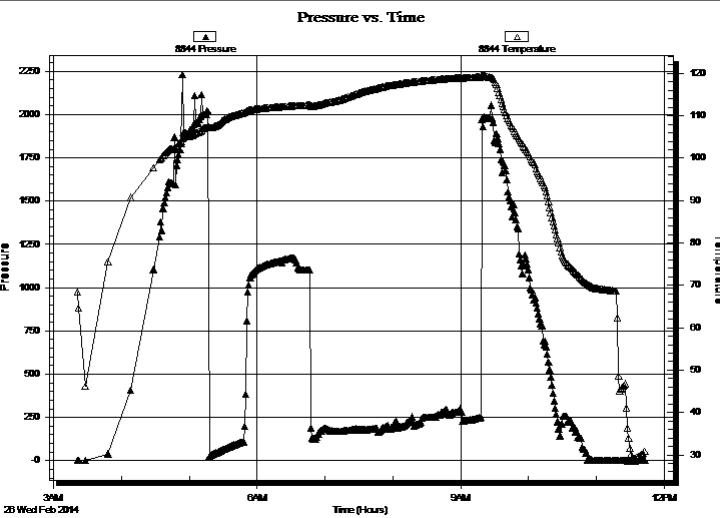
**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
 Job Ticket: 56285 **DST#: 1**  
 Test Start: 2014.02.26 @ 03:20:30

### GENERAL INFORMATION:

Formation: **E-F**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 05:16:45  
 Time Test Ended: 12:05:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Interval: **4018.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
 Reference Elevations: 2907.00 ft (KB)  
 Total Depth: 4058.00 ft (KB) (TVD)  
 2896.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 11.00 ft

**Serial #: 8844** **Outside**  
 Press@RunDepth: psig @ 4019.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.26 End Date: 2014.02.26 Last Calib.: 2014.02.26  
 Start Time: 03:21:10 End Time: 11:43:25 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 23 min. Torqued 3 rounds before turning  
 2 1/2" return blow  
 B.O.B. in 23 min.  
 10" return blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
372.00	g m & w c o 15g 10m 35w 40o	3.05
155.00	g w & m c o 15g 10w 30m 45o	2.17
31.00	c g o 20g 80o	0.43
0.00	558' gas in pipe	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56285 **DST#: 1**  
Test Start: 2014.02.26 @ 03:20:30

## Tool Information

Drill Pipe:	Length: 3762.00 ft	Diameter: 3.80 inches	Volume: 52.77 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 53.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4018.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3991.00	
Shut In Tool	5.00			3996.00	
Hydraulic tool	5.00			4001.00	
Jars	5.00			4006.00	
Safety Joint	3.00			4009.00	
Packer	5.00			4014.00	28.00 Bottom Of Top Packer
Packer	4.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	6771	Inside	4019.00	
Recorder	0.00	8844	Outside	4019.00	
Perforations	2.00			4021.00	
Change Over Sub	1.00			4022.00	
Drill Pipe	30.00			4052.00	
Change Over Sub	1.00			4053.00	
Bullnose	5.00			4058.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56285      **DST#: 1**  
Test Start: 2014.02.26 @ 03:20:30

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 29000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

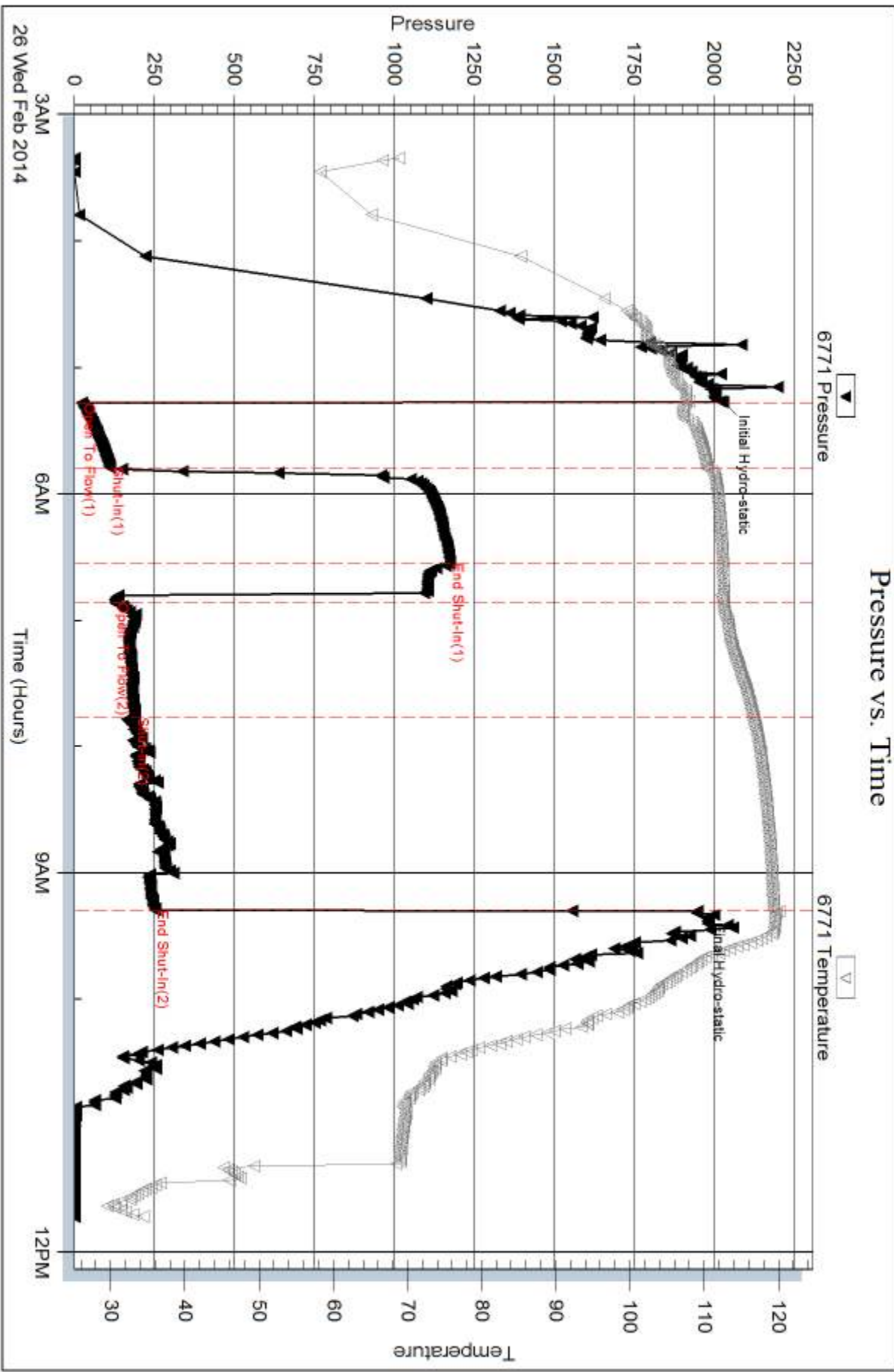
Length ft	Description	Volume bbl
372.00	g m & w c o 15g 10m 35w 40o	3.050
155.00	g w & m c o 15g 10w 30m 45o	2.174
31.00	c g o 20g 80o	0.435
0.00	558' gas in pipe	0.000

Total Length: 558.00 ft      Total Volume: 5.659 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: rw .347 @ 50\*f = 29,000 chlor

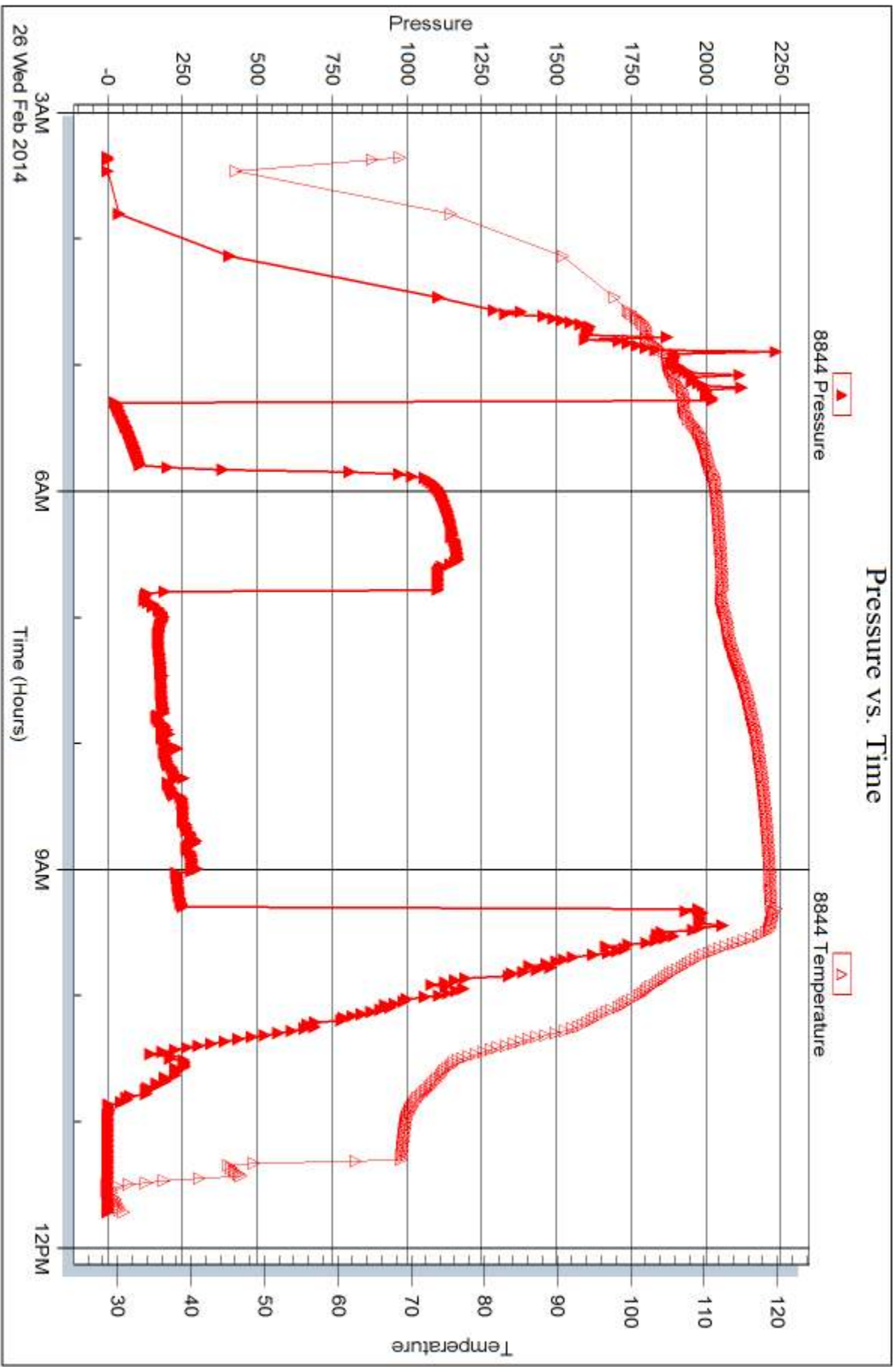


Serial #: 8844

Outside Murfin Drilling Co Inc

Abell Ranch B #1-31

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56285

Printed: 2014.03.04 @ 14:34:40



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita, KS 67202-1216

ATTN: Saman Sharifaie

### **Abell Ranch B #1-31**

### **31-12s-30w Gove,KS**

Start Date: 2014.02.27 @ 07:58:10

End Date: 2014.02.27 @ 16:10:25

Job Ticket #: 56286                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.04 @ 14:34:10



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
 250 N Water Ste 300  
 Wichita, KS 67202-1216  
 ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
 Job Ticket: 56286 **DST#: 2**  
 Test Start: 2014.02.27 @ 07:58:10

## GENERAL INFORMATION:

Formation: **H-K**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 09:33:10  
 Time Test Ended: 16:10:25  
**Interval: 4096.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
 Total Depth: 4220.00 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: 2907.00 ft (KB)  
 2896.00 ft (CF)  
 KB to GR/CF: 11.00 ft

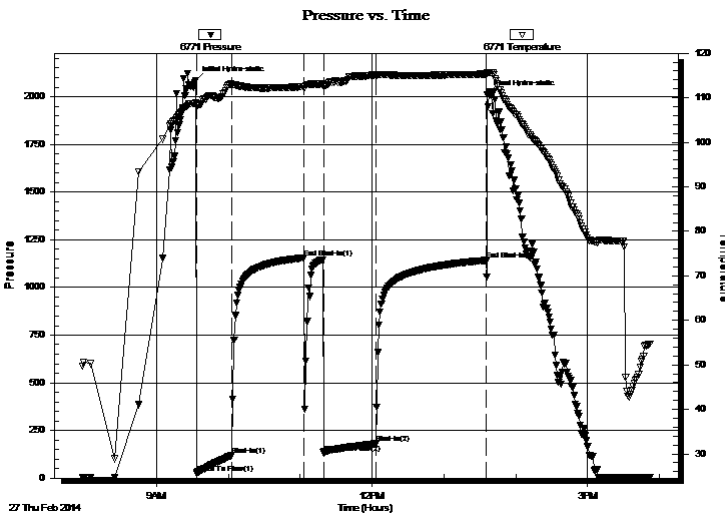
## Serial #: 6771

Inside

Press@RunDepth: 180.90 psig @ 4097.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.27 End Date: 2014.02.27 Last Calib.: 2014.02.27  
 Start Time: 07:58:10 End Time: 15:52:25 Time On Btm: 2014.02.27 @ 09:32:55  
 Time Off Btm: 2014.02.27 @ 13:36:10

TEST COMMENT: 7 1/4" blow  
 No return  
 5" blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.64	108.93	Initial Hydro-static
1	25.08	108.21	Open To Flow (1)
30	118.00	112.97	Shut-In(1)
90	1156.09	112.48	End Shut-In(1)
107	132.03	112.58	Open To Flow (2)
150	180.90	115.01	Shut-In(2)
243	1142.30	115.31	End Shut-In(2)
244	2011.06	115.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
318.00	s w c m w/oil spots 10%w 90%m	2.29

\* 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 N Water Ste 300  
 Wichita, KS 67202-1216  
 ATTN: Saman Sharifaie

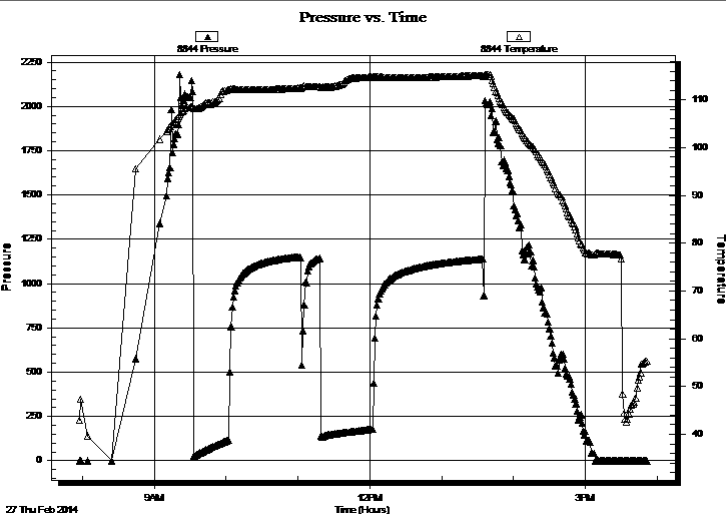
**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
 Job Ticket: 56286 **DST#: 2**  
 Test Start: 2014.02.27 @ 07:58:10

**GENERAL INFORMATION:**

Formation: **H-K**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 09:33:10  
 Time Test Ended: 16:10:25  
 Interval: **4096.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
 Total Depth: 4220.00 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: 2907.00 ft (KB)  
 2896.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**  
 Press@RunDepth: psig @ 4097.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.27 End Date: 2014.02.27 Last Calib.: 2014.02.27  
 Start Time: 07:57:42 End Time: 15:51:42 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 7 1/4" blow  
 No return  
 5" blow  
 No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
318.00	s w c m w/oil spots 10%w 90%m	2.29

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56286 **DST#: 2**  
Test Start: 2014.02.27 @ 07:58:10

## Tool Information

Drill Pipe:	Length: 3854.00 ft	Diameter: 3.80 inches	Volume: 54.06 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4096.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	124.00 ft			
Tool Length:	152.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4069.00	
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Jars	5.00			4084.00	
Safety Joint	3.00			4087.00	
Packer	5.00			4092.00	28.00 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Recorder	0.00	6771	Inside	4097.00	
Recorder	0.00	8844	Outside	4097.00	
Perforations	21.00			4118.00	
Change Over Sub	1.00			4119.00	
Drill Pipe	95.00			4214.00	
Change Over Sub	1.00			4215.00	
Bullnose	5.00			4220.00	124.00 Bottom Packers & Anchor

**Total Tool Length: 152.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56286      **DST#: 2**  
Test Start: 2014.02.27 @ 07:58:10

## 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: 25000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 2.00 inches		

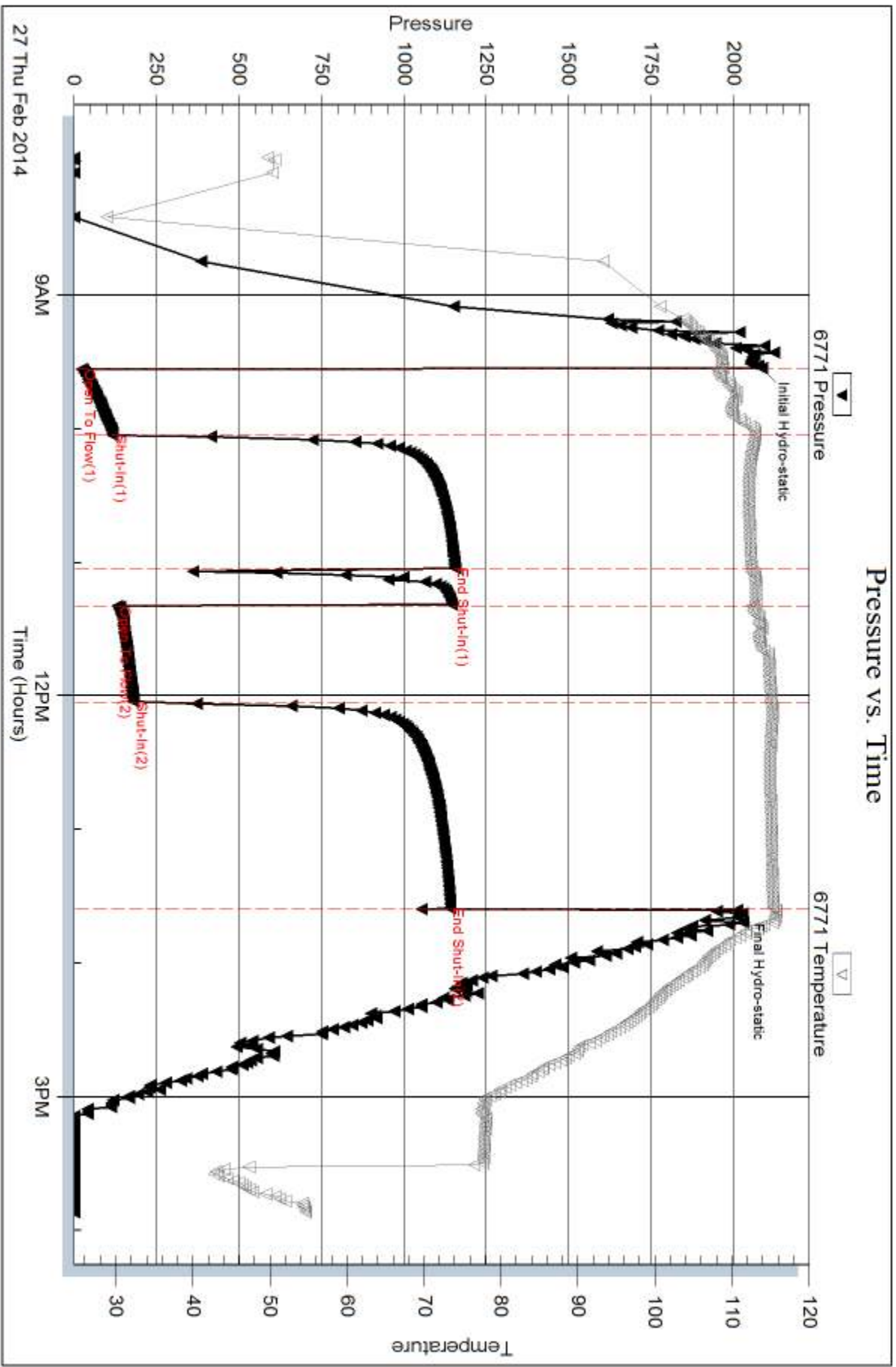
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
318.00	s w c m w/oil spots 10%w 90%m	2.293

Total Length: 318.00 ft      Total Volume: 2.293 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: rw ..346 @ 56\*f =25,000 chlor



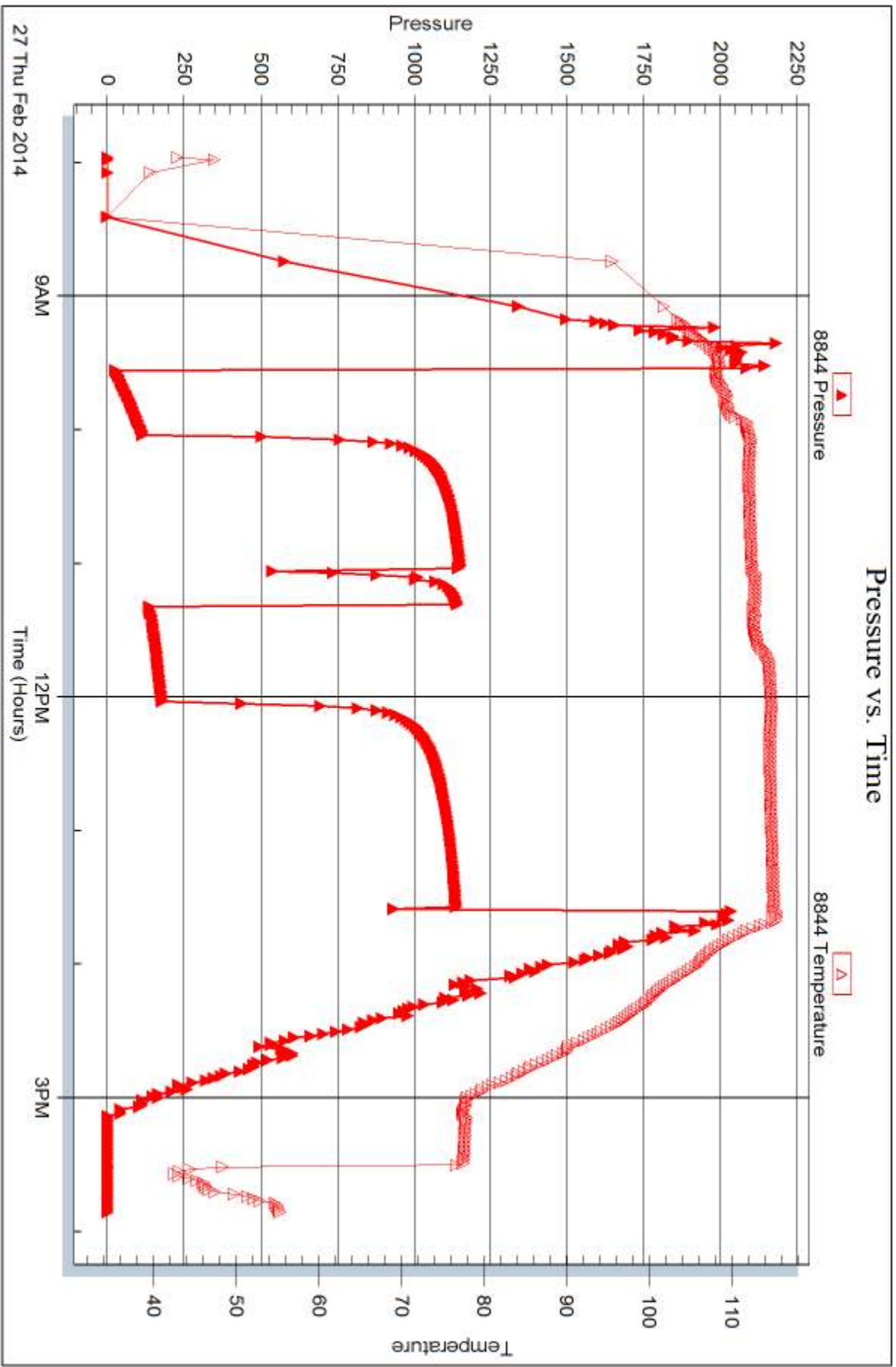


Serial #: 8844

Outside Murfin Drilling Co Inc

Abell Ranch B #1-31

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56286

Printed: 2014.03.04 @ 14:34:12



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita, KS 67202-1216

ATTN: Saman Sharifaie

### **Abell Ranch B #1-31**

### **31-12s-30w Gove,KS**

Start Date: 2014.03.01 @ 01:00:15

End Date: 2014.03.01 @ 09:10:30

Job Ticket #: 56287                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.04 @ 14:33:45



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

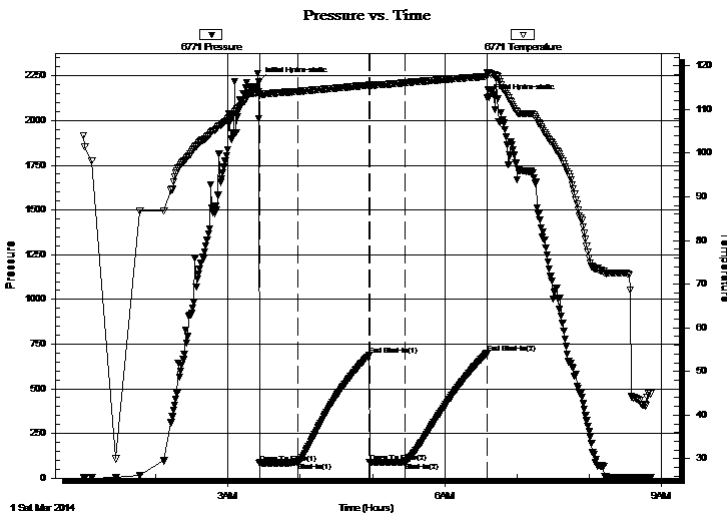
**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56287 **DST#: 3**  
Test Start: 2014.03.01 @ 01:00:15

## GENERAL INFORMATION:

Formation: **L Paw, Ft Scott, Ch**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 03:26:00  
Time Test Ended: 09:10:30  
Interval: **4396.00 ft (KB) To 4524.00 ft (KB) (TVD)**  
Total Depth: 4524.00 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: 2907.00 ft (KB)  
2896.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6771 Inside**  
Press@RunDepth: 89.28 psig @ 4397.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.03.01 End Date: 2014.03.01 Last Calib.: 2014.03.01  
Start Time: 01:00:15 End Time: 08:51:30 Time On Btm: 2014.03.01 @ 03:25:30  
Time Off Btm: 2014.03.01 @ 06:35:00

**TEST COMMENT:** Slide tool 11' to bottom 3" blow, bled off mud blow to 1/4" died back to a weak surface blow  
No return  
Weak surface blow in 6 min, died in 18 min.  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.99	114.05	Initial Hydro-static
1	84.06	113.29	Open To Flow (1)
33	87.13	114.11	Shut-In(1)
92	686.83	115.56	End Shut-In(1)
92	87.60	115.40	Open To Flow (2)
122	89.28	116.14	Shut-In(2)
190	696.96	117.58	End Shut-In(2)
190	2125.61	118.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m show of oil in tool	0.59

\* 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 N Water Ste 300  
 Wichita, KS 67202-1216  
 ATTN: Saman Sharifaie

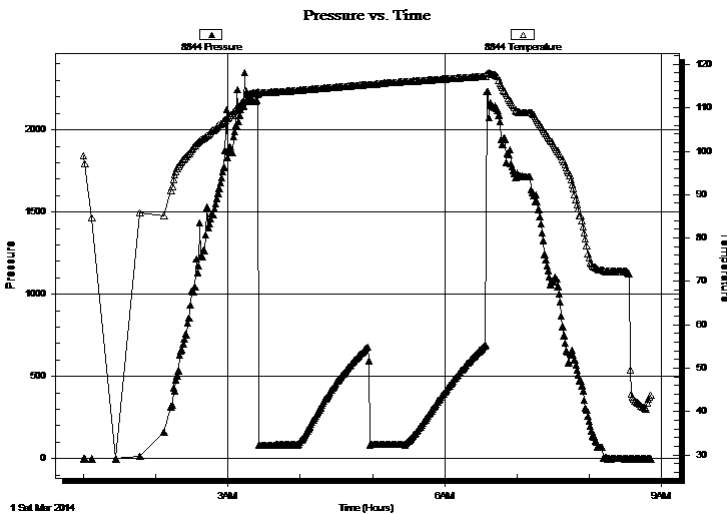
**31-12s-30w Gove, KS**  
**Abell Ranch B #1-31**  
 Job Ticket: 56287 **DST#: 3**  
 Test Start: 2014.03.01 @ 01:00:15

**GENERAL INFORMATION:**

Formation: **L Paw, Ft Scott, Ch**  
 Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 03:26:00 Tester: Shane McBride  
 Time Test Ended: 09:10:30 Unit No: 55  
 Interval: **4396.00 ft (KB) To 4524.00 ft (KB) (TVD)** Reference Elevations: 2907.00 ft (KB)  
 Total Depth: 4524.00 ft (KB) (TVD) 2896.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8844** **Outside**  
 Press@RunDepth: psig @ 4397.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.01 End Date: 2014.03.01 Last Calib.: 2014.03.01  
 Start Time: 01:00:15 End Time: 08:51:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Slide tool 11' to bottom 3" blow , bled off mud blow to 1/4" died back to a weak surface blow  
 No return  
 Weak surface blow in 6 min, died in 18 min.  
 No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	mud 100% m show of oil in tool	0.59

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56287 **DST#: 3**  
Test Start: 2014.03.01 @ 01:00:15

## Tool Information

Drill Pipe:	Length: 4135.00 ft	Diameter: 3.80 inches	Volume: 58.00 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 59.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4396.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 ft			
Tool Length:	156.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4369.00	
Shut In Tool	5.00			4374.00	
Hydraulic tool	5.00			4379.00	
Jars	5.00			4384.00	
Safety Joint	3.00			4387.00	
Packer	5.00			4392.00	28.00 Bottom Of Top Packer
Packer	4.00			4396.00	
Stubb	1.00			4397.00	
Recorder	0.00	6771	Inside	4397.00	
Recorder	0.00	8844	Outside	4397.00	
Perforations	25.00			4422.00	
Change Over Sub	1.00			4423.00	
Drill Pipe	95.00			4518.00	
Change Over Sub	1.00			4519.00	
Bullnose	5.00			4524.00	128.00 Bottom Packers & Anchor

**Total Tool Length: 156.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56287      **DST#: 3**  
Test Start: 2014.03.01 @ 01:00:15

## Mud and Cushion Information

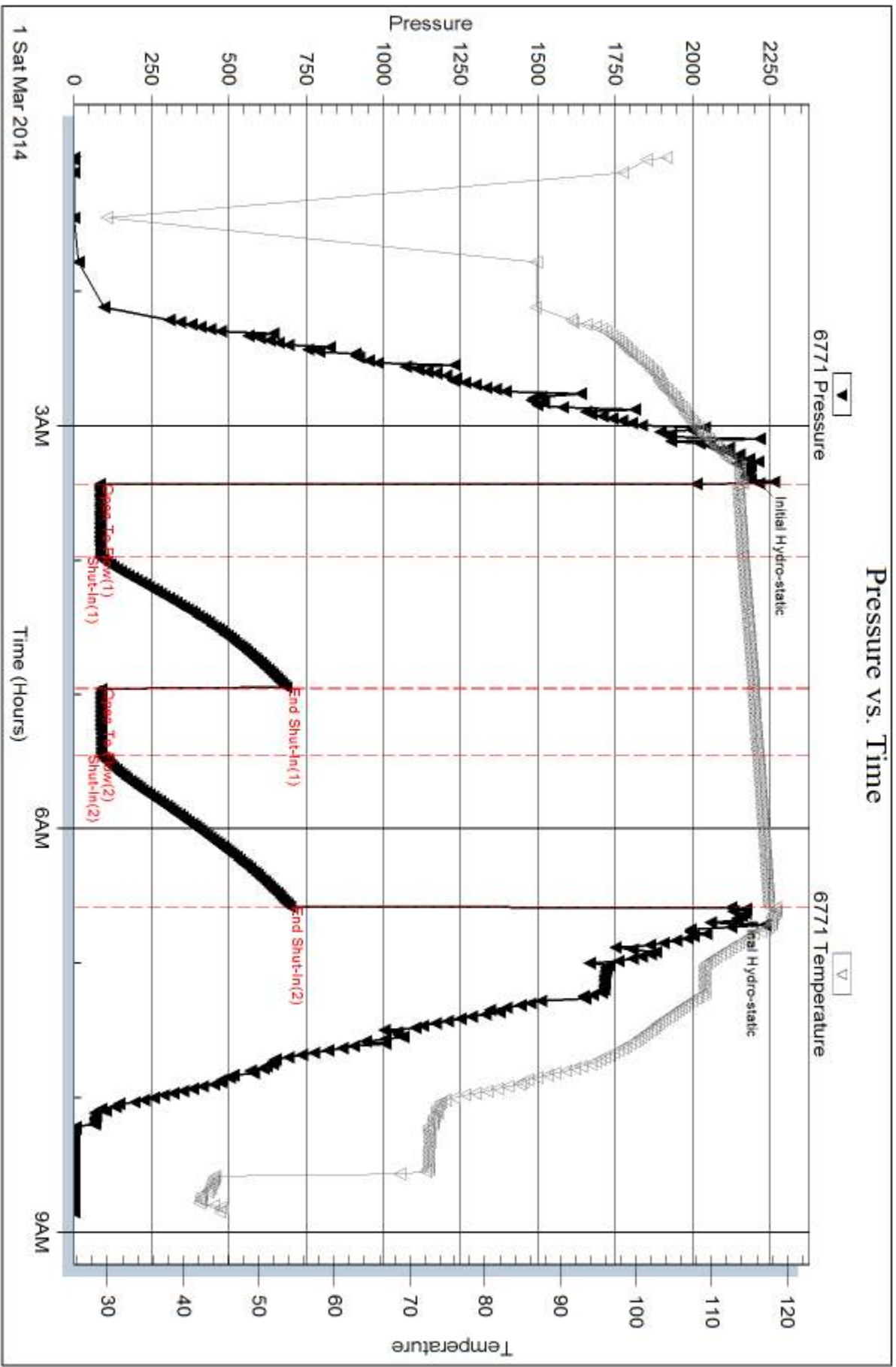
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud 100% m show of oil in tool	0.590

Total Length: 120.00 ft      Total Volume: 0.590 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



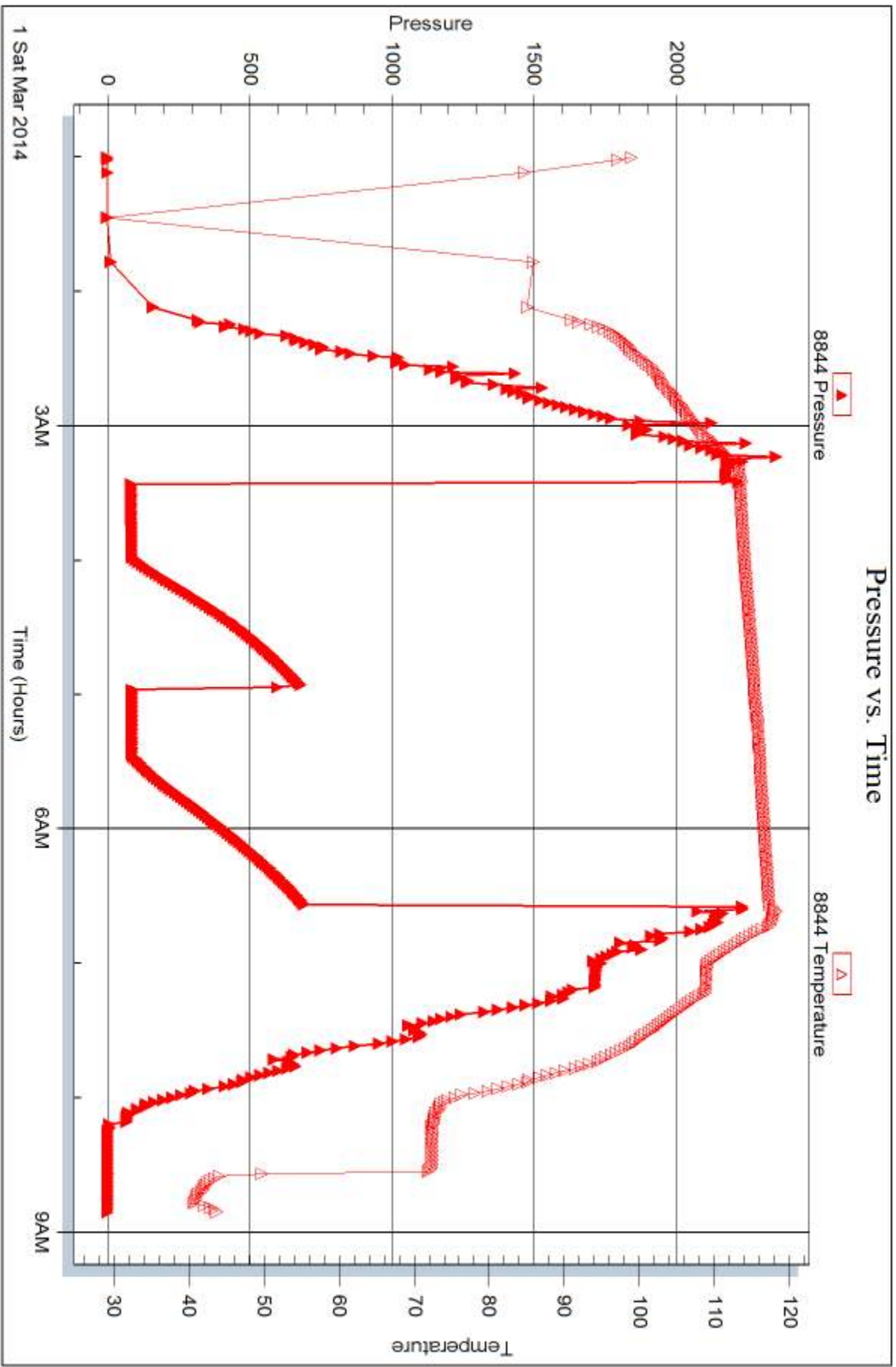


Serial #: 8844

Outside Murfin Drilling Co Inc

Abell Ranch B #1-31

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita, KS 67202-1216

ATTN: Saman Sharifaie

### **Abell Ranch B #1-31**

### **31-12s-30w Gove,KS**

Start Date: 2014.03.01 @ 21:12:06

End Date: 2014.03.02 @ 08:40:21

Job Ticket #: 56288                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.04 @ 14:33:02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

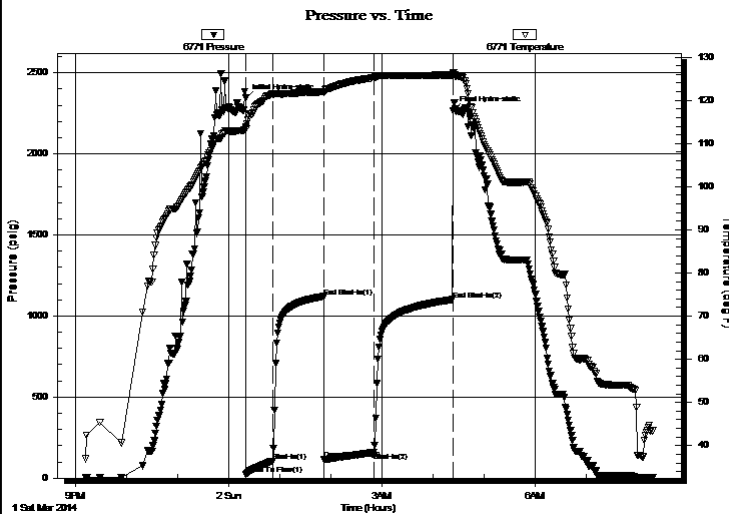
**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56288 **DST#: 4**  
Test Start: 2014.03.01 @ 21:12:06

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 00:20:21  
Time Test Ended: 08:40:21  
Interval: **4533.00 ft (KB) To 4555.00 ft (KB) (TVD)**  
Total Depth: 4555.00 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: 2907.00 ft (KB)  
2896.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6771 Inside**  
Press@RunDepth: 158.68 psig @ 4534.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.03.01 End Date: 2014.03.02 Last Calib.: 2014.03.02  
Start Time: 21:12:06 End Time: 08:17:21 Time On Btm: 2014.03.02 @ 00:20:06  
Time Off Btm: 2014.03.02 @ 04:23:21

TEST COMMENT: B.O.B. in 30 min.  
No return  
B.O.B. in 27 min.  
1/2" return blow, died in 42 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.62	113.78	Initial Hydro-static
1	24.93	113.37	Open To Flow (1)
32	105.95	121.49	Shut-In(1)
92	1120.93	121.99	End Shut-In(1)
92	113.97	121.79	Open To Flow (2)
151	158.68	125.26	Shut-In(2)
243	1101.41	125.85	End Shut-In(2)
244	2266.21	126.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	g o & w c m 10g 5o 35w 50m	0.59
120.00	g w & m c o 10g 5w 25m 60o	0.61
70.00	g m c o 10g 20m 70o	0.98
0.00	290' G I P	0.00

\* 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 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

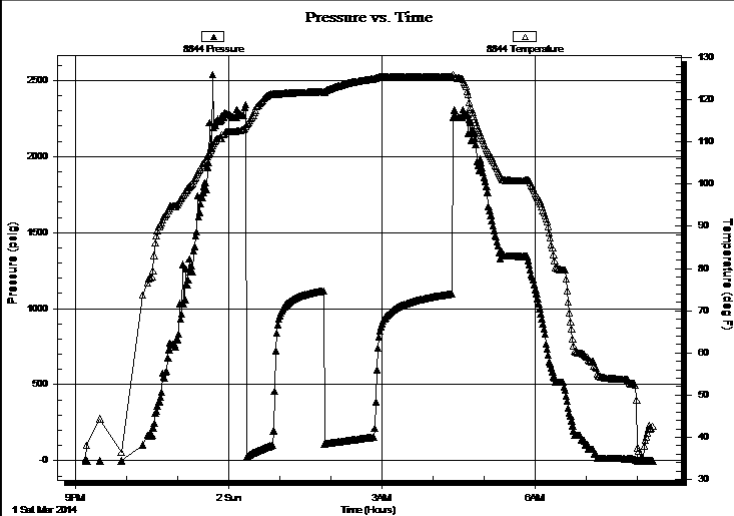
**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56288 **DST#: 4**  
Test Start: 2014.03.01 @ 21:12:06

**GENERAL INFORMATION:**

Formation: **Miss**  
Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 00:20:21 Tester: Shane McBride  
Time Test Ended: 08:40:21 Unit No: 55  
**Interval: 4533.00 ft (KB) To 4555.00 ft (KB) (TVD)** Reference Elevations: 2907.00 ft (KB)  
Total Depth: 4555.00 ft (KB) (TVD) 2896.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8844 Outside**  
Press@RunDepth: psig @ 4534.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.03.01 End Date: 2014.03.02 Last Calib.: 2014.03.02  
Start Time: 21:12:08 End Time: 08:17:23 Time On Btm:  
Time Off Btm:

TEST COMMENT: B.O.B. in 30 min.  
No return  
B.O.B. in 27 min.  
1/2" return blow, died in 42 min.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	g o & w c m 10g 5o 35w 50m	0.59
120.00	g w & m c o 10g 5w 25m 60o	0.61
70.00	g m c o 10g 20m 70o	0.98
0.00	290' G I P	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56288 **DST#: 4**  
Test Start: 2014.03.01 @ 21:12:06

## Tool Information

Drill Pipe:	Length: 4292.00 ft	Diameter: 3.80 inches	Volume: 60.21 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 96000.00 lb
			<u>Total Volume: 61.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4533.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4506.00	
Shut In Tool	5.00			4511.00	
Hydraulic tool	5.00			4516.00	
Jars	5.00			4521.00	
Safety Joint	3.00			4524.00	
Packer	5.00			4529.00	28.00 Bottom Of Top Packer
Packer	4.00			4533.00	
Stubb	1.00			4534.00	
Recorder	0.00	6771	Inside	4534.00	
Recorder	0.00	8844	Outside	4534.00	
Perforations	16.00			4550.00	
Bullnose	5.00			4555.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita, KS 67202-1216  
ATTN: Saman Sharifaie

**31-12s-30w Gove,KS**  
**Abell Ranch B #1-31**  
Job Ticket: 56288      **DST#: 4**  
Test Start: 2014.03.01 @ 21:12:06

## Mud and Cushion Information

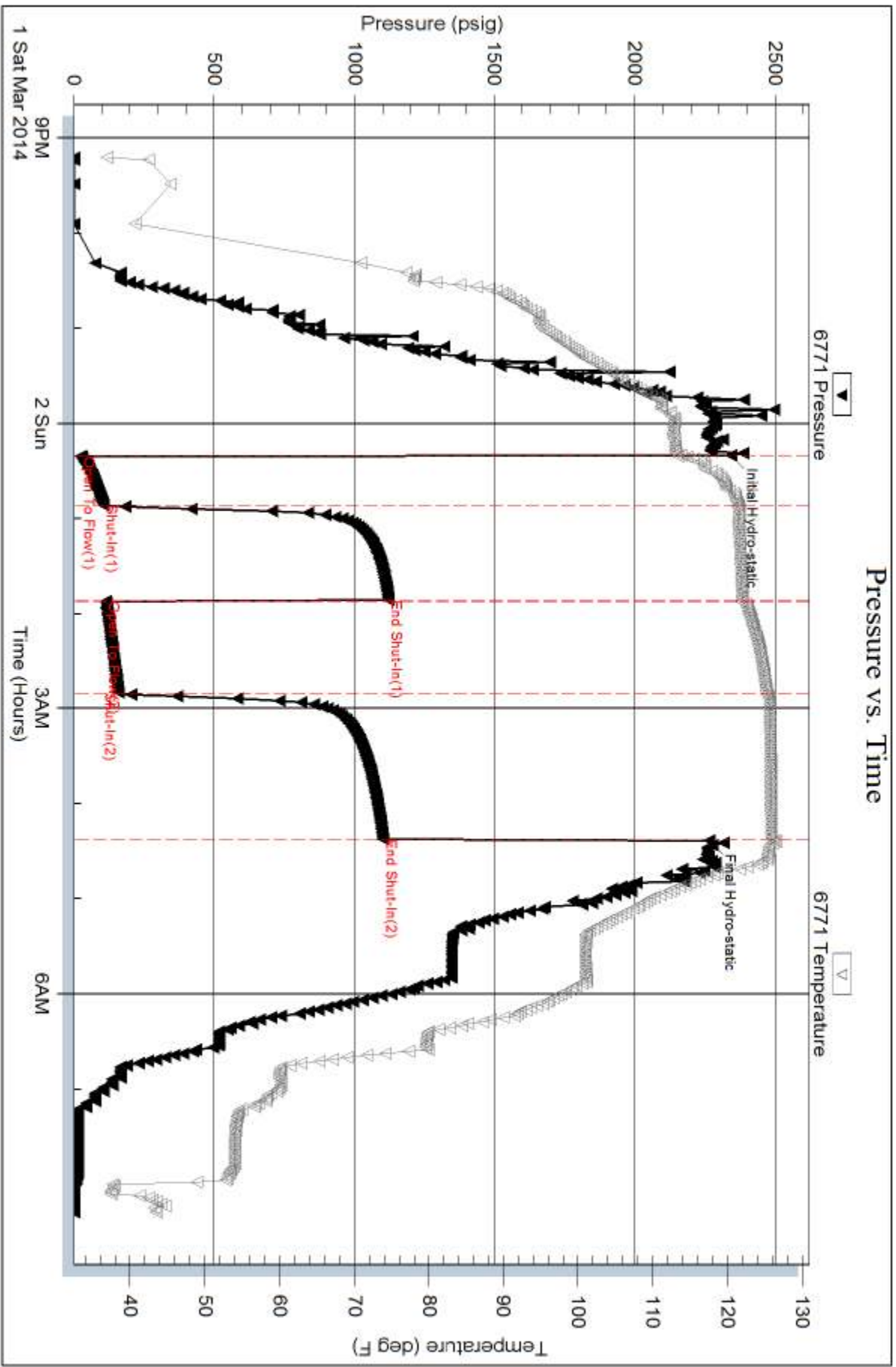
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 24500 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.18 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	g o & w c m 10g 5o 35w 50m	0.590
120.00	g w & m c o 10g 5w 25m 60o	0.608
70.00	g m c o 10g 20m 70o	0.982
0.00	290' G I P	0.000

Total Length: 310.00 ft      Total Volume: 2.180 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: rw .283 @ 72\*f = 24,500 chlor

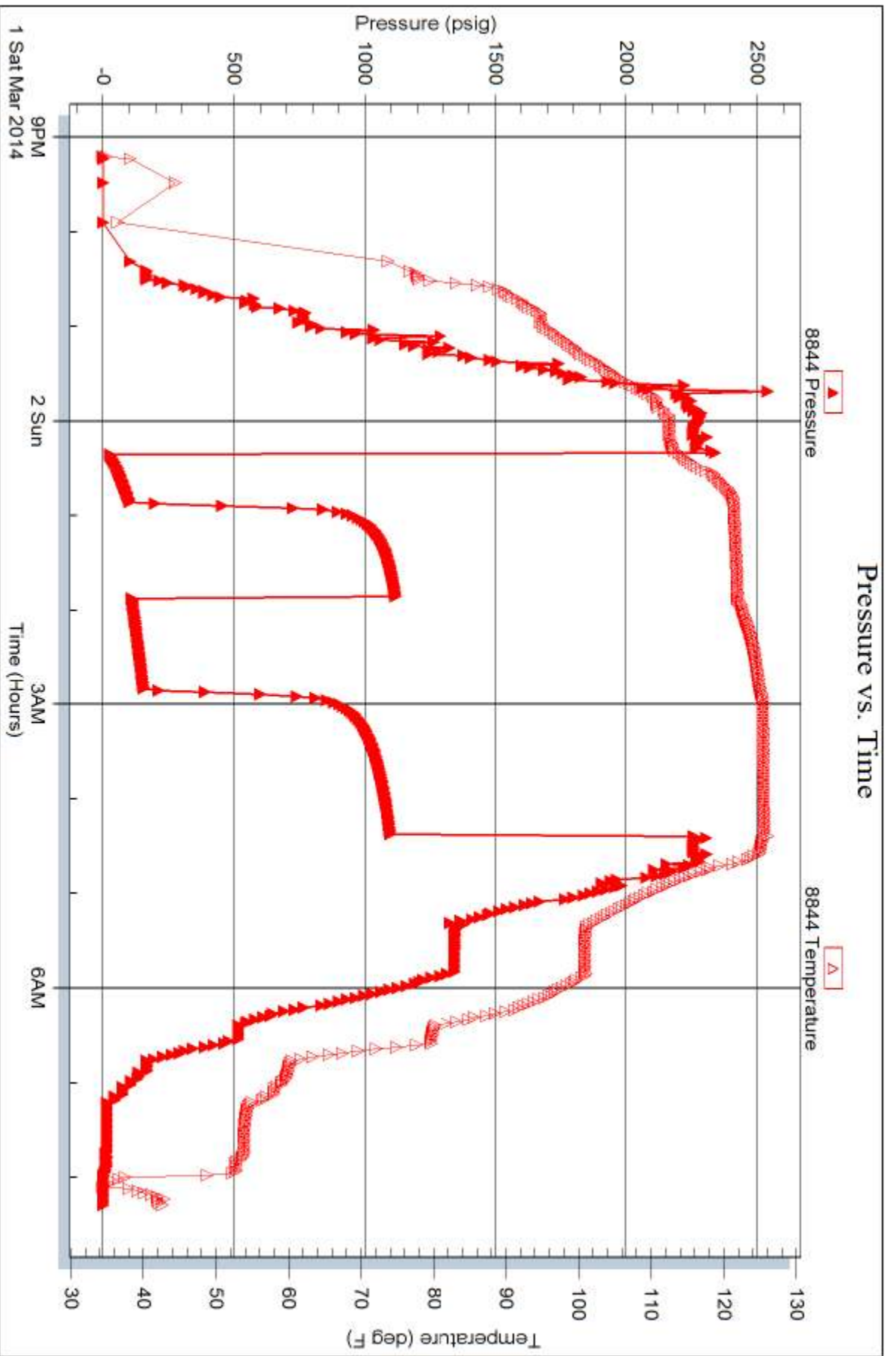


Serial #: 8844

Outside Murfin Drilling Co Inc

Abell Ranch B #1-31

DST Test Number: 4







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56285

Well Name & No. Abell Ranch "B" #1-31 Test No. #1 Date 2/26/14  
 Company Martin Drilling Co. Inc Elevation 2907 KB 2896 GL  
 Address 200 N. Water St. 300 Wichita, KS  
 Co. Rep / Geo. Saman Sharifare Rig Martin #22  
 Location: Sec. 31 Twp. 12S Rge. 30W Co. Cove State Ks

Interval Tested 4018 4058 Zone Tested E-F  
 Anchor Length 40 Drill Pipe Run 3762' Mud Wt. 9.2  
 Top Packer Depth 4013 Drill Collars Run 238' Vis 52  
 Bottom Packer Depth 4018 Wt. Pipe Run --- WL 5.2  
 Total Depth 4058 Chlorides 1500 ppm System LCM #2

Blow Description B.O.B. in 23 min (Tight turning tool Target 3 rounds)  
2 1/2" in Return blow  
B.O.B. in 23 min  
10" in Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>C90</u>	<u>20</u>	<u>80</u>		
<u>155</u>	<u>Quartz</u>	<u>15</u>	<u>45</u>	<u>10</u>	<u>30</u>
<u>372</u>	<u>gmwco</u>	<u>15</u>	<u>40</u>	<u>35</u>	<u>10</u>
	<u>558' GAS IN Pipe</u>				

Rec Total 558' BHT 120° Gravity 31 API RW .347 @ 50° F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2028  Test 1250 T-On Location 02:45  
 (B) First Initial Flow 23  Jars 250 T-Started 03:20  
 (C) First Final Flow 112  Safety Joint 75 T-Open 05:20  
 (D) Initial Shut-In 1176  Circ Sub N/C T-Pulled 09:20  
 (E) Second Initial Flow 124  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 189  Mileage 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 252  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1949  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1717.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1717.60

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. 56286

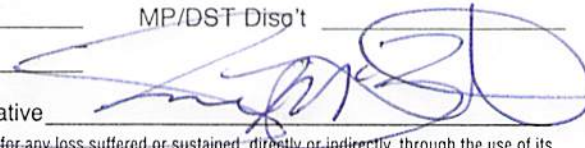
Well Name & No. Abell Ranch "B" #1-31 Test No. #2 Date 2/27/14  
 Company Marlow Drilling Co Inc. Elevation 2907 KB 2896 GL  
 Address 250 N. Water St. 300 Wichita, Ks 67202  
 Co. Rep / Geo. Saman Charifate Rig Marlow #22  
 Location: Sec. 31 Twp. 125 Rge. 30W Co. Gove State Ks

Interval Tested 4096 4220 Zone Tested H-K  
 Anchor Length 124 Drill Pipe Run 3854 Mud Wt. 9.3  
 Top Packer Depth 4091 Drill Collars Run 238' Vis 60  
 Bottom Packer Depth 4096 Wt. Pipe Run --- WL 5.2  
 Total Depth 4220 Chlorides 2000 ppm System LCM #4  
 Blow Description 7 1/4" in blow  
No return  
5" in blow  
No return

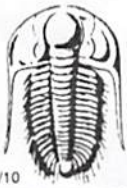
Rec	Feet of	%gas	Spots	%oil	%water	%mud
<u>318'</u>	<u>swcm w/o spots</u>				<u>10</u>	<u>90</u>
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud

Rec Total 318' BHT 116° Gravity --- API RW .346 @ 56° F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>07:33</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:57</u>
(C) First Final Flow <u>118</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:33</u>
(D) Initial Shut-In <u>1156</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>13:33</u>
(E) Second Initial Flow <u>132</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>180</u>	<input checked="" type="checkbox"/> Mileage <u>92 RT</u> 142.60	Comments
(G) Final Shut-In <u>1142</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2011</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1717.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Diso't
	Sub Total <u>1717.60</u>	

Approved By \_\_\_\_\_ Our Representative 

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. 56287

Well Name & No. Abell Ranch "B" #1-31 Test No. #3 Date 3/1/14  
 Company Murphy Drilling Co Inc Elevation 2907 KB 2896 GL  
 Address 250 N. Water St, 300, Wichita, KS 67202  
 Co. Rep / Geo Samantha Sharifaire Rig Mur Fin #22  
 Location: Sec. 31 Twp. 125 Rge. 30W Co. Cove State Ks

Interval Tested 4396 4524 Zone Tested Lane, Lawrence, Ft. Scott, Cherokee, Johnson  
 Anchor Length 128 Drill Pipe Run 4135 Mud Wt. 9.1  
 Top Packer Depth 4391 Drill Collars Run 238' Vis 53  
 Bottom Packer Depth 4396 Wt. Pipe Run --- WL 6.4  
 Total Depth 4524 Chlorides 2000 ppm System LCM #5

Blow Description (Slide tool 11' to bottom 3" in blow, bleed off mud blow to 1/4" SW, closed back to gun week surface blow.) IST: No return  
F.F.: Weak surface blow on cement, closed in 18 min.  
F.S.I.: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120'</u>	<u>Mud (Shows of 0.1 in the tool)</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 Total 120' BHT 118° Gravity --- API RW --- @ --- °F Chlorides --- ppm

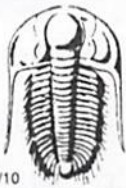
(A) Initial Hydrostatic <u>2215</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>00:22</u>
(B) First Initial Flow <u>84</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>01:00</u>
(C) First Final Flow <u>87</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>03:27</u>
(D) Initial Shut-In <u>6860</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>06:27</u>
(E) Second Initial Flow <u>87</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>89</u>	<input checked="" type="checkbox"/> Mileage <u>92 RT</u> 142.60	Comments
(G) Final Shut-In <u>696</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2125</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Ruined Packer 320  
 Extra Copies  
 Sub Total 0  
 Total 2037.60  
 MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56288

Well Name & No. Abell Ranch "B" #1-31 Test No. 3124 Date 3/2/14  
 Company Mudwin Drilling Co Inc Elevation 2907 KB 2896 GL  
 Address 250 N Water Ave 390 Wichita, KS 67202  
 Co. Rep / Geo. Samuel Shurtz Rig Mudwin #22  
 Location: Sec. 31 Twp. 12S Rge. 30W Co. Gove State KS

Interval Tested 4533 4555 Zone Tested Mississippi  
 Anchor Length 22 Drill Pipe Run 3/292 Mud Wt. 9.3  
 Top Packer Depth 4528 Drill Collars Run 238' Vis 53  
 Bottom Packer Depth 4533 Wt. Pipe Run \_\_\_\_\_ WL 5.2  
 Total Depth 4555 Chlorides 2000 ppm System LCM #5

Blow Description B.O.B. in 30 min  
No return  
B.O.B. in 27 min.  
1/2" in Return blow, died in 4/2 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>gmco</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>0</u>
<u>120</u>	<u>gmco</u>	<u>10</u>	<u>60</u>	<u>5</u>	<u>25</u>
<u>170</u>	<u>g<del>o</del>3wcm</u>	<u>10</u>	<u>5</u>	<u>35</u>	<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>(290' Gas in Pipe)</u>	%gas	%oil	%water	%mud

Rec Total 310 BHT 126° Gravity \_\_\_\_\_ API RW .283 @ 72° F Chlorides 24500 ppm

(A) Initial Hydrostatic 2342  Test 1250 T-On Location 21:09  
 (B) First Initial Flow 24  Jars 250 T-Started 21:11  
 (C) First Final Flow 105  Safety Joint 75 T-Open 00:20  
 (D) Initial Shut-In 1120  Circ Sub N/C T-Pulled 04:20  
 (E) Second Initial Flow 113  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 158  Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1101  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2266  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1717.60  
 Total 1717.60  
 MP/DST Disc't \_\_\_\_\_

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

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# Saman Sharifaie

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Martin Drilling Co., Inc.**  
LEASE **Abell Ranch "A" #1 -31**

FIELD **Wildcat**  
LOCATION **330 FNL & 330 FWL**  
SEC **31 TWP 12S R 30W**  
COUNTY **Gore STATE Kansas**  
CONTRACTOR **Martin Drilling #22**

SPUD **02/21/14 COMP 03/03/14**  
RTD **4:02:57 LTD 4:02:07**  
MUD UP **3:00" TYPE MUD Chemical**

SAMPLES SAVED FROM **3600'** TO RTD  
DRILLING TIME KEPT FROM **3600'** TO RTD  
SAMPLES EXAMINED FROM **3600'** TO RTD  
GEOLOGICAL SUPERVISION FROM **3300'**

REFERENCE WELL **Abell Ranch "A" #1 -30**  
CND: DIL. MEL. SAIC  
*Powder Trailline*

Formation	Sample Tops	E-log Tops	Strat Pos.
Ambyndrite	2395 (+512)	2395 (+512)	-1
Basal Ambyndrite	2419 (+488)	2421 (+486)	-1
Timaska	3703 (-796)	3703 (-796)	-4
Healdier	3919 (-1012)	3923 (-1016)	-6
Stark	4183 (-1278)	4188 (-1283)	-8
Martin	4312 (-1405)	4315 (-1408)	-8
FT Scott	4440 (-1533)	4444 (-1537)	-7
Cherokee	4466 (-1559)	4470 (-1563)	-6
Mississippian	4526 (-1619)	4531 (-1624)	-7

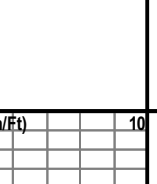
ELEVATIONS  
KB 2907'

MEASUREMENTS ARE ALL FROM KELLY BUSHING

CASING  
CONDUCTOR  
SURFACE: 8-5/8" at 222'

PRODUCTION: 5-1/2" at 4613'

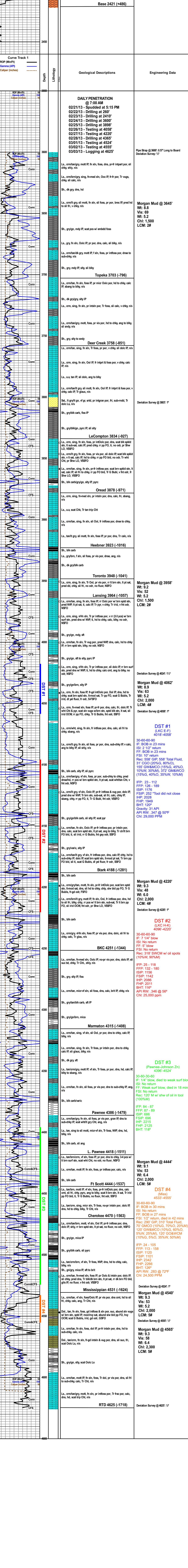
ELECTRICAL SURVEYS



REMARKS Due to fair to good shows of oil in multiple pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,  
Saman Sharifaie  
Petroleum Geologist

API #15-063-22177  
\*Tops have been adjusted to electric logs



Abell Ranch 'B' #1-31  
 Daily Drilling Report  
 Page Three

		MDCI Abell Ranch 'B' #1-31 330 FNL 330' FWL Sec. 31-T12S-R30W 2907' KB					MDCI Abell Ranch 'A' #1-30 660 FSL 330' FWL Sec. 30-T12S-R30W 2907' KB		
Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum	
Anhydrite	2395	+512	-1	2395	+512	-1	2394	+513	
B/Anhydrite	2419	+488	+1	2421	+486	-1	2420	+487	
Topeka	3703	-796	-4	3703	-796	-4	3699	-792	
Heebner	3919	-1012	Flat	3923	-1016	-4	3919	-1012	
Lansing	3954	-1047	-1	3964	-1057	-9	3953	-1046	
Stark	4185	-1278	-3	4188	-1281	-6	4182	-1275	
Marmaton	4312	-1405	-5	4315	-1408	-8	4307	-1400	
Fort Scott	4440	-1533	-3	4444	-1537	-7	4437	-1530	
Cherokee	4466	-1559	-2	4470	-1563	-6	4464	-1557	
Mississippi	4526	-1619	-2	4531	-1624	-7	4524	-1617	
RTD	4625						4620		
LTD				4627			4621		



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 141502

Invoice Date: Feb 21, 2014

Page: 1

*misc. Prod - Lth*

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62503	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 21, 2014	3/23/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Abell Ranch B #1-31		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
183.75	CEMENT SERVICE	Cubic Feet Charge	2.48	455.70
169.40	CEMENT SERVICE	Ton Mileage Charge	2.60	440.44
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		

Subtotal	6,441.89
Sales Tax	277.80
Total Invoice Amount	6,719.69
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,719.69</b>

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

\$ 2,254.66 *du 75%*

ONLY IF PAID ON OR BEFORE

Mar 18, 2014

*2254.66*

*4465.03*

*OK msa*

# ALLIED OIL & GAS SERVICES, LLC 062503

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT: Oakley, TX

DATE <u>2-21-14</u>	SEC. <u>31</u>	TWP. <u>12</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION <u>7:30 pm</u>	JOB START <u>10:00 am</u>	JOB FINISH <u>12:30 pm</u>
LEASE <u>Abell Ranch</u>	WELL# <u>1-31</u>	LOCATION <u>Oakley, TX</u>			COUNTY <u>Goose</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>32 IN, E + S into</u>			

CONTRACTOR Martin 22 OWNER same.

TYPE OF JOB Surface

HOLE SIZE 12 1/8 T.D. 2221 CEMENT

CASING SIZE 9 5/8 DEPTH 2221 AMOUNT ORDERED 175 sks con 376 CC

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 175 sks @ 17.90 3132.50

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15' GEL @

PERFS. CHLORIDE 6 sks @ 64.00 384.00

DISPLACEMENT 13.25661 ASC @

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Lakene E. dense

BULK TRUCK # 341 HELPER Andrew Forstlund

BULK TRUCK # 341 DRIVER Thomas Torre (TWS)

BULK TRUCK # DRIVER

HANDLING 183.75 sks @ 2.48 455.70

MILEAGE 2.97 tax 20 x 2.60 77.22

TOTAL 4412.64

REMARKS:

Mix 175 sks cement  
Displace with water  
Cement did circulate.

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE MIA 20 @ 7.70 154.00

MANIFOLD 5 wedge @ 275.00

MCCV 20 @ 4.40 88.00

TOTAL 2029.25

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

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

SALES TAX (If Any)

TOTAL CHARGES 6441.89

DISCOUNT 2254.66 IF PAID IN 30 DAYS

4187.22 Net.

PRINTED NAME Michael Kral

SIGNATURE [Signature]





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



# Invoice

DATE	INVOICE #
3/3/2014	25389

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
USED FOR
APPROVED

- Acidizing
- Cement
- Tool Rental

USED FOR IC 103  
APPROVED [Signature]

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-31	Abell Ranch B	Gove		Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
578D-L	Pump Charge - Long String - 4617 Feet				1	Job	1,500.00	1,500.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	3.00	1,500.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
403-5	5 1/2" Cement Basket				1	Each	300.00	300.00T
404-5	5 1/2" Port Collar				1	Each	2,900.00	2,900.00T
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				10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher				25	Each	40.00	1,000.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	14.50	3,262.50T
276	Flocele				57	Lb(s)	2.50	142.50T
283	Salt				1,125	Lb(s)	0.20	225.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				159	Lb(s)	4.50	715.50T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				824.22	Ton Miles	1.00	824.22
	Subtotal							15,600.72
	Sales Tax Gove County						7.90%	980.11
<b>We Appreciate Your Business!</b>							<b>Total</b>	<b>\$16,580.83</b>



CHARGE TO: Merwin Drilling Co.  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 25389

PAGE 1 OF 1

SERVICE LOCATIONS:  
 1. Hayes, KS WELL PROJECT NO. \_\_\_\_\_ LEASE Abell Bore 1 8' COUNTY/PARISH Bore STATE KS CITY \_\_\_\_\_ DATE 3-3-14 OWNER \_\_\_\_\_  
 2. Ness City, KS TICKET TYPE SALES CONTRACTOR Co RIG NAME/NO. #22 SHIPPED YES DELIVERED TO W/Bore, KS ORDER NO. \_\_\_\_\_  
 3. WELL TYPE D-1 WELL CATEGORY W.C. JOB PURPOSE Guest Logging WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_  
 4. REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #113	70	mi			600	42000
578					Fump Charge - curt Logging	1	ea	5617	ft	152000	152000
881					Liquid KCl	4	gal			8500	34000
882					Flt chert - 21	500	gal			300	150000
892					D-91c	3	gal			4800	14400
403					Cement Bucket	1	ea	5 1/2	in	8000	8000
404					Brt Galv (A 401)	1	ea	5 1/2	in	82000	82000
406					Lath Drain Plug & Baffle	1	ea	5 1/2	in	27500	27500
407					Fast Fluid Spec W/ Aug. Bore	1	ea	5 1/2	in	37500	37500
409					Toolbars	1	ea	5 1/2	in	9000	9000
413					Rt to well Services	25	ea	5 1/2	in	4000	100000
419					Rotary Head Rental	1	ea	5 1/2	in	8000	8000

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 3-3-14 TIME SIGNED 13:30  A.M.  P.M.  
 SIGNED BY Blake Hany  
 REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  WE UNDERSTOOD AND MET YOUR NEEDS?  OUR SERVICE WAS PERFORMED WITHOUT DELAY?  WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

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

PAGE TOTAL 16,580.83  
 TAX 7.9%  
 TOTAL 17,600.72



**JOB LOG**

**SWIFT Services, Inc.**

DATE 3-3-14 PAGE NO. 7

CUSTOMER Marvin Doby Co WELL NO. 1-31 LEASE Alvill Ranch 'B' JOB TYPE Cement Longstring TICKET NO. 75389

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	15:00					15 1/2"	5 1/2"	TO 4625'
	17:30							In loc - Rig LDDP
								Start 5 1/2" - 1515' Ht. casing to KB 4617'
								Insert Float shoe 10' / Auto-kill
								L.D. Bottle - S.J. - 21' @ 4595' = (109 1/2 BBL)
								Cent. 1-2-3-4-5-7-9-11-13-52
								Out Packed - Pin end #53.
								Port Collar #53 @ 2401'
	18:40							125' Rbt to wall scratches.
	19:10							Cir #60
								Drop All upball 5 JTB out
	20:10							Fin casing - Tap - Lay JTB Down
	20:20							Start cir / Rotate
	21:00							Fin cir
		6	15				300	Pump 15 BBL KCL Flush
		5	12				250	Pump 500 gal flocheck-21
		6	5				300	Pump 5 BBL KCL spacer
		4					300	Start 175 SKS EA-2 cent
		4	44				400	Fin cent
			3					Wash out pump & lines
								Drop L.D. Plug.
		9 1/2					300	Start Displ.
		8	85				400	Caught 1 rft - slow rate
		7	95				600	slow rate
		6	105				800	slow rate
			108				1000	cir press
	22:00		109 1/2				1600	Plug Down - Held
	22:10						0	Release / Held
			6					Plug RH - 30 SKS
			4					MH 20 SKS
	22:30							Wash up & Pack
	23:00							EA-2 cent

Thanks  
 Ken, Jon & Craig



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



# Invoice

DATE	INVOICE #
3/14/2014	26037

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130

- Acidizing
- Cement
- Tool Rental

IC 103  
JY. R

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-31	Abell Ranch B	Gove	Company Tools	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
576D-D	Pump Charge - Port Collar ✓				1	Job	1,500.00	1,500.00
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	18.50	3,700.00T
276	Flocele				50	Lb(s)	2.50	125.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
279	Bentonite Gel				1	Sack(s)	25.00	25.00T
581D	Service Charge Cement				300	Sacks	2.00	600.00
583D	Drayage				1,044.86	Ton Miles	1.00	1,044.86
	Subtotal							7,498.86
	Sales Tax Gove County						7.90%	310.79
<b>We Appreciate Your Business!</b>							<b>Total</b>	<b>\$7,809.65</b>



CHARGE TO: **MURKIN DRILLING**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 26037

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. **Well 14 KS** WELL/PROJECT NO. **1-31** LEASE **Abell Ranch B** COUNTY/PARISH **Cove** STATE **KS** CITY **Cove** DATE **14 MAR 14** OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR  
 3. WELL TYPE **0-1** WELL CATEGORY **CO TUBES** RIG NAME NO. **Development** JOB PURPOSE **Development** SHIPPED **YES** DELIVERED TO **Location** ORDER NO.  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS **Development** WELL PERMIT NO. WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	70	mi			6.00	420.00
576D					Pump Charge	1	ea			1500.00	1500.00
330					SWD cement	300	skt			18.50	3700.00
276					Hoops	50	lb			2.50	125.00
290					DATE	2	pool			42.00	84.00
279					Bentonite gel	1	bag			25.00	25.00
581					Service charge	300	skt			2.00	600.00
583					Drayage	2983	lb	1044.86	7M	10.44	1044.86

**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: *[Signature]* TIME SIGNED:  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

AGREE UN- DIS-  
 DECIDED AGREE

PAGE TOTAL **7498.86**

TOTAL **7809.65**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]*

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 4 MAR 14 PAGE NO. 1

CUSTOMER MURFIN DRILLING

WELL NO. 1-31

LEASE Abell Ranch B

JOB TYPE cement port collar

TICKET NO. 26037

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 sk SMD cement w/ 1/4" floccle 2 3/8" x 5 1/2" port collar - 2398'
	0830							on loc TRK 114
	0846					1200	1200	test to 1200 psi - hold open port collar
	0848	3	2			400		inj rate - 3 bpm @ 400 psi - blow on backside
	0850	3				400		mix Bentonite gel - 1 sk - fluid to surface -
		3	3			400		MIX SMD cement @ 11-200g - cement to surface
		3	108			600		{ 200 sk mixed 15 to pit }
	0926	3	8			600		Displace with H <sub>2</sub> O - 8 bbl
								close port collar
	0932					1200	1200	test to 1200 psi - hold
								run 5 joints to 2540'
	0945		20					Reverse hole clean - 2 cement flags -
	0955							wash truck
								Rack up
	1030							job complete
								Thank Isaac, Flint & Blake