



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1083139  
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: \_\_\_\_\_

1083139

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 04, 2012

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

Re: ACO1  
API 15-193-20843-00-00  
Soucie 1-14  
SE/4 Sec.14-10S-34W  
Thomas County, Kansas

Dear Production Department:

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

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

Respectfully,  
Leon Rodak

MDCI Soucie #1-14 1100' FSL 1100' FEL Sec. 14-T10S-R34W 3213' KB							MDCI Soucie-Seele Unit #1-14 2550' FNL 1990' FEL Sec. 14-T10S-R34W 3217' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2737	+476	-14	2728	+485	-5	2727	+490
B/Anhydrite	2764	+449	-13	2756	+457	-5	2755	+462
Topeka	3903	-690	-18	3892	-679	-7	3889	-672
Heebner	4123	-910	-25	4109	-896	-11	4102	-885
Lansing	4162	-949	-22	4150	-937	-10	4144	-927
Muncie Crk	4306	-1093	-22	4294	-1081	-10	4288	-1071
Stark	4395	-1182	-26	4379	-1166	-10	4373	-1156
BKC	4447	-1234	-22	4435	-1222	-10	4429	-1212
Marm	4471	-1258	-21	4461	-1248	-11	4454	-1237
Pawnee	4590	-1377	-27	4579	-1366	-16	4567	-1350
Fort Scott	4646	-1433	-30	4433	-1420	-17	4620	-1403
Cherokee	4677	-1464	-32	4665	-1452	-20	4649	-1432
Johnson Zn	4720	-1507	-32	NDE			4692	-1475
Mississippi	NDE			NDE			4776	-1559
RTD	4740							
LTD				4706			4902	

Thomas J. Funk  
Petroleum Geologist

**Geologists Report**  
**Drilling Time and Sample Log**

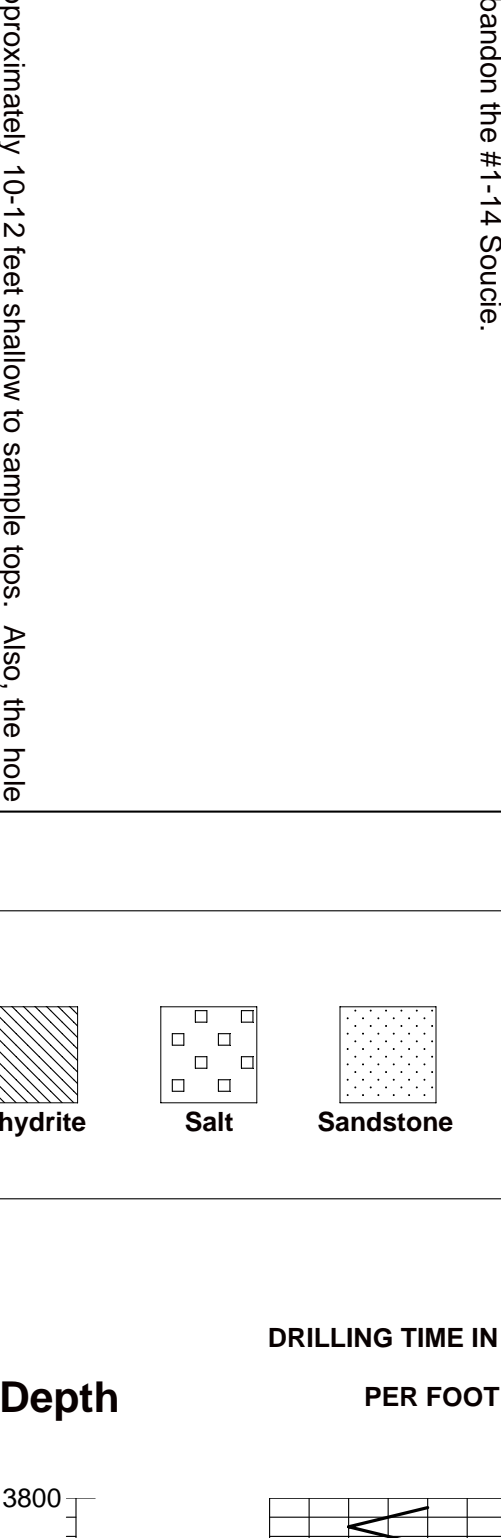
**OPERATOR** Murfin Drilling Co., Inc  
**WELL NO #1-14**  
**LEASE** Soucie  
**FIELD** Field Ext  
**LOCATION** 1100' FSL & 1800' FEL  
**SEC. 14** **TWP. 10S** **RGE. 34W**  
**COUNTY** Thomas **STATE** Kansas

**ELEVATION**  
KB 3213'  
DF  
GL 3200'  
Measurements Are All From **KB**

**CONTRACTOR** Murfin Drig Co Rig #25  
**COMM** 3/27/2012  
**RTD** 4/740'  
**SAMPLES SAVED FROM** 3800 TO TD  
**DRILLING TIME KEPT FROM** 3800 TO TD  
**SAMPLES EXAMINED FROM** 3800 TO TD

**GEOLOGICAL SUPERVISION FROM** 3840 TO TD  
**MUD/UP** 3500  
**TYPE MUD** Chemical

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anhydrite	2728 (-495)	2737 (-476)	-5
Barytyrite	2756 (-457)	2764 (-449)	-5
Topexka	3892 (-679)	3903 (-690)	-7
Heebner Sh	4109 (-896)	4123 (-910)	-11
Lansing	4150 (-937)	4162 (-949)	-10
Murde Creek	4294 (-1081)	4306 (-1093)	-10
Stark Sh	4379 (-1166)	4395 (-1182)	-10
Marmaton	4461 (-1248)	4471 (-1258)	-11
Pawnee	4579 (-1366)	4590 (-1377)	-16
Cherokee Sh	4665 (-1452)	4677 (-1464)	-16
Johnson Zone	NDE	4720 (-1507)	-20
Mississippi	NDE	NDE	



**REMARKS AND RECOMMENDATIONS:**  
Based upon log analysis, DST recovery, and sample examination, it was decided to plug and abandon the #1-14 Soucie.

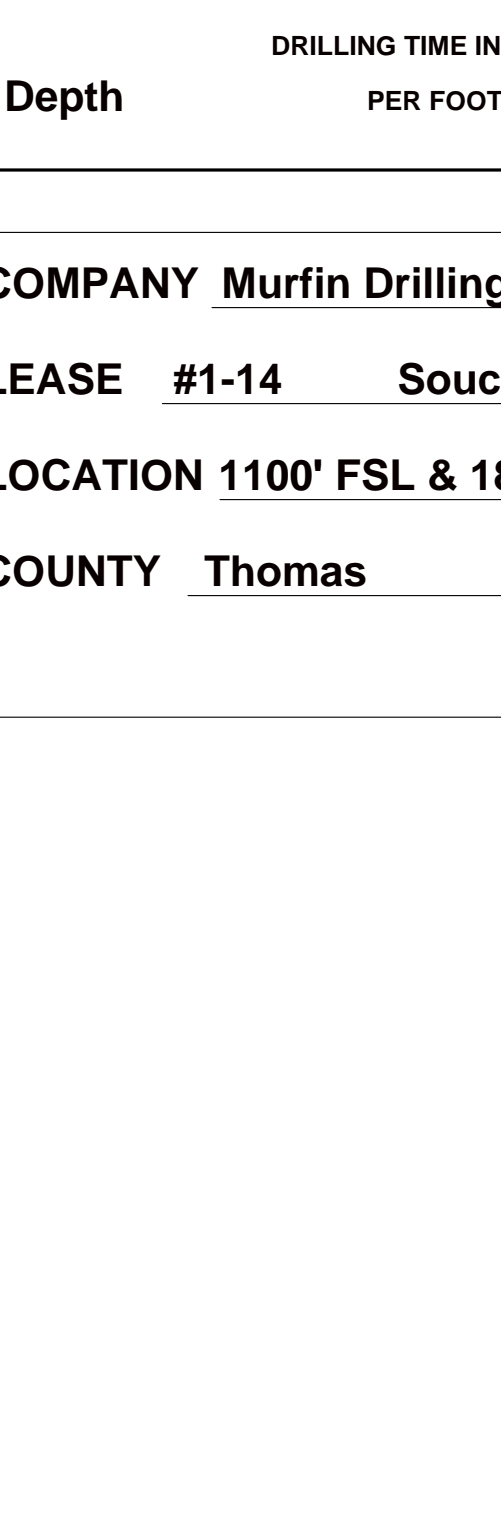
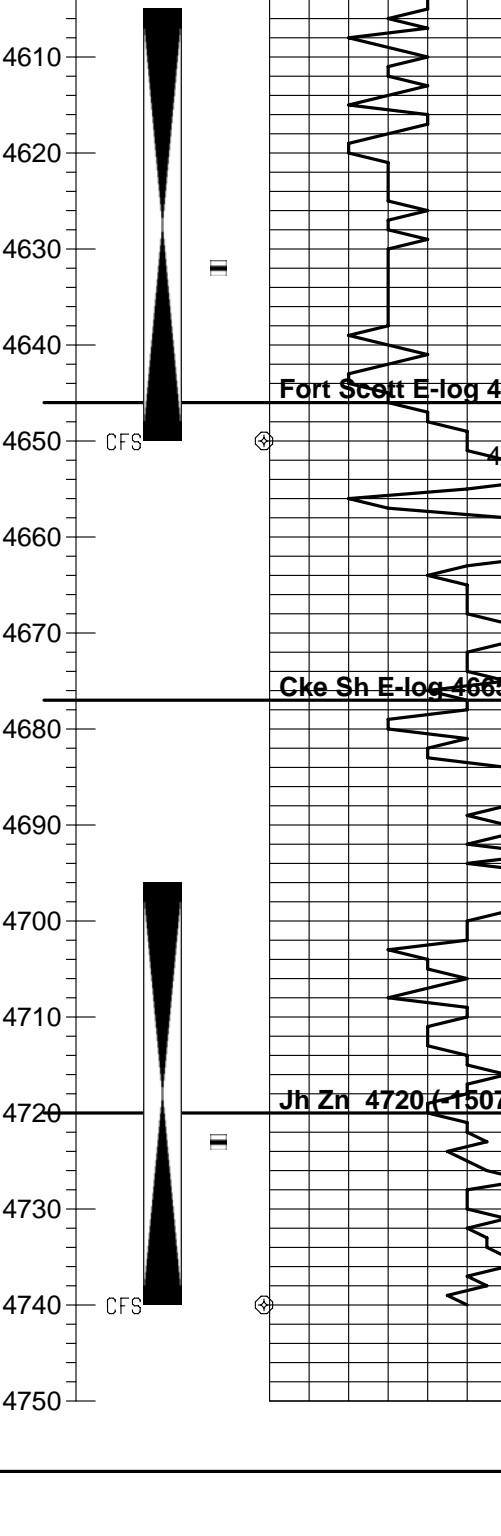
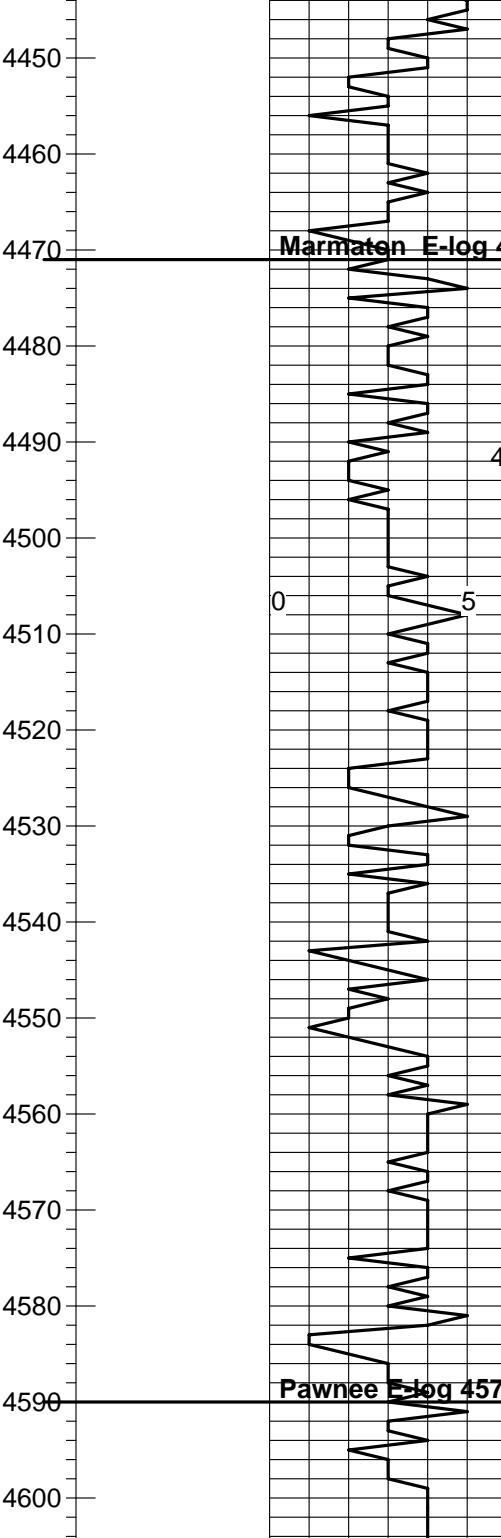
Thomas Funk  
Petroleum Geologist

**DAILY PROGRESS**

Date	Depth	NO Size	Make	Type	Depth Out	Feet	Hours
3/27/12	Stud	1	12 1/4 GMS	RR	269	269	3
3/28/12	289' WOC	2	7 7/8" HTC	DP906F	3662	3393	40 1/4
3/29/12	2277'	3	7 7/8" HTC	GX22s	4740	1078	56 1/2
3/30/12	3615'						
3/31/12	3923'						
4/1/12	4390'						
4/2/12	4437'						
4/3/12	4650'						
4/4/12	4740'						
4/5/12	4740' TD Logging						

**CASING RECORD**  
SURFACE  
8 5/8" at 288'KB w/200sx  
PRODUCTION  
None

**REFERENCE WELL FOR STRUCTURAL COMPARISON:** Murfin Drig Co, #1-14 Soucie Seale Unit  
1950' FNL & 1990' FEL sec. 14-10S-34W, Thomas Co, KS



**Sample Descriptions**

Sh, drk gry, md-sft, sm calc  
LS, crm-gry, dns, v f-xln, blocky, trc foss  
LS, lt tn-crm, dns, v f-xln, foss in prt, sft  
LS, lt gry, f-xln, mott, foss in prt, sbchky  
Sh, drk gry & brn, sft  
LS, tn, f-xln, gran/dolo in prt, trc foss, pr vis p pt por, NS  
LS, tn, dns, v f-xln, tr foss, hrd, brittle  
Sh, blk & gry, md-hrd  
Sh, drk gry, sft  
LS, tn, dns, v f-xln, blocky, trc foss  
LS, crm-tn, f-xln, micro-ool, brittle, fr oomold por, NS  
LS, tn, dns, v f-xln, trc foss, sm chty, blocky  
LS, tn & gry, dns, micro-xln, chty in prt, trc foss  
LS, gry, dns, micro-xln, mott in prt, tr foss frags  
Sh, tn & gry, md sft  
Sh, lt gry, calc in prt  
LS, tn, dns, v f-xln, foss, blocky, hrd  
LS, crm, f-xln, ool, chiky, fr oomold por, NS  
LS, crm-gry, f-xln, trc ool, sm chiky, pr vis por, NS  
LS, tn & gry, dns, v f-xln, sm mott-sft, trc ool & foss  
LS, lt tn & crm, f-xln, mott in prt, tr foss  
Sh, blk & gry  
Sltsln, gry, v f-grn, silty in prt, mica  
LS, lt gry, dns, v f-xln, argill in prt  
LS, tn, dns, micro-xln, blocky, bec f-xln, ool in prt, pr vis por, NS  
LS, tn, dns, v f-xln, foss, mott, tr ool  
LS, tn, dns, micro-xln, fw foss frags, mott gry in prt  
LS, lt gry, dns, f-xln, ool in prt, mott, chalky  
LS, tn, v f-xln, foss in prt, sm blocky-hrd, pr vis por, NS  
LS, gry, dns, micro-xln, trc foss, blocky  
LS, drk gry, dns, argill in prt, trc foss  
Sh, blk, carb  
Sh, gry, tn, & brn, md-grd  
LS, tn-crm, f-xln, ool in prt, sb-chiky, pr vis oomold por, NS  
Sh, gry & tn  
LS, crm-tn, f-xln, ool, sct foss frags, fr oomold por, NS  
LS, tn, dns, f-xln, foss, sm chalky, pr vis p pt por, NS  
Sh, rd & tn, sft  
LS, tn, dns, f-xln, foss, blocky, pr vis fossmold por, NSFO, no odor, fw pcs w/blk edge stn  
Sh, drk gry, md-hrd  
LS, lt gry, dns, v f-xln, blocky, trc foss  
Dolo, tn & crm, f-xln, suc in prt, dns, tr foss frags, blocky, pr vis por, NS  
Sh, blk & gry  
LS, tn, dns, v f-xln, tr foss frags, brittle, pr vis por, NS  
LS, lt gry, dns, f-xln, mott in prt, sm argill, sct foss  
Sh, gry  
LS, crm-wht, f-xln, v chalky, sm ool & foss frags, sft, pr vis por, NS  
LS, crm, v f-xln, dns, trc ool, chiky in prt, pr vis por, NS  
LS, AA  
LS, gry, dns, micro-xln, mott in prt, blocky, hrd  
Sh, blk, carb  
Sh, drk gry & tn, md-sft  
LS, tn, f-xln, ool in prt, trc foss, pr vis por, NSFO, no odor, poss edge stn  
LS, tn, dns, v f-xln, trc foss, chty in prt  
Sh, blk & gry  
LS, tn, dns, v f-xln, foss in prt, sm blocky-hrd, pr vis por, NS  
LS, crm-tn, f-xln, gran in prt, sct ool, pr vis p pt por, NSFO, no odor, v sct stn  
Sh, gry, tn, & rd  
LS, tn-crm, f-xln, dns, foss in prt, trc ool, pr vis moldic por, NSFO, v sft odor, pr vis stn  
Sh, blk, carb  
Sh, drk gry & tn, md-sft  
LS, crm, f-xln, dns, foss in prt, sct ool, sm v chalky, pr vis por, NSFO, sft odor, pr vis stn  
LS, crm-tn, dns, v f-xln, tr foss, hrd  
Sh, blk, carb  
LS, crm-wht, f-xln, ool in prt, v chalky, pr vis por, NS  
LS, AA bec tn, f-xln, dol in prt, gran  
Sh, lt gry  
LS, gry, dns, v f-xln, mott, trc foss  
Sh, gry, green, & tn  
LS, tn, v f-xln, trc ool, chalky, no vis por, NS  
LS, drk gry, dns, argill, + Sh, gry, silty  
LS, tn, micro-xln, hrd, tr foss, chty in prt  
LS, lt gry, dns, micro-xln, blocky, chty in prt, hrd  
LS, tn-gry, dns, micro-xln, tr foss, mott, argill  
Sh, gry & tn  
LS, tn, dns, micro-xln, trc foss, chty in prt  
Sh, lt gry, calc in prt, md-sft  
Sh, gry + LS, tn, dns, micro-xln, trc foss & ool, chty in prt  
LS, tn, dns, micro-xln, v hrd, trc foss  
LS, gry, dns, mott, argill  
Sh, blk  
LS, crm-tn, f-xln, chalky, trc foss, chty, no vis por, NS  
LS, tn, dns, micro-xln, sm chty, hrd  
Sh, blk, carb  
LS, crm-tn & wht, f-xln, foss in prt, chiky, pr vis int-foss por, VSSFO, sft odor on brk, pr vis stn  
Sh, blk, carb  
LS, tn-brn, dns, micro-xln, ool in prt, brittle, no vis por, NS  
Sh, gry  
LS, tn, dns, micro-xln, chty, trc foss, hrd  
Sh, blk, carb  
Sh, gry + LS, tn-gry, dns, v f-xln, mott, argill  
LS, tn & lt gry, dns, v f-xln, blocky, tr foss, + Cht, tn, opq  
LS, tn, dns, v f-xln, foss in prt  
LS, crm-tn, f-xln, foss, chty in prt, sm chalky, sct fossmold por, SSFO, sft odor, sct sat stn  
LS, crm, f to v f-xln, dns, trc foss, sm chalky, blocky, no vis por, NS

**Remarks**

Deviation Surveys:  
0.7 deg @ 269'  
0.9 deg @ 1259'  
1.0 deg @ 2277'  
1.0 deg @ 3587'  
0.5 deg @ 3662'  
0.3 deg @ 3776'

2.1 deg @ 3964'

4.3 deg @ 4153'

8.9 deg @ 4342'

9.1 deg @ 4420'

11.0 deg @ 4531'

12.0 deg @ 4650'

DST #2 4605-4650  
30"-60"-60"-90"  
Blow built to 4 inches on IFF  
Blow built to 3 inches on FFP REC  
45' GOCM (5%g, 3%o, 92% m)  
93' GOSWM (5%g, 5%w, 90% m)  
138' Total Fluid  
IFF 25-43 ISIP 1068  
FFP 55-91 FSIP 1032  
IHP 2196 FHP 2112  
Temp: 121 deg F

DST #3 4696-4740  
30"-60"-30"-60"  
Weak surface blow on IFF  
No blow on FFP REC  
30' Mud  
IFF 18-23 ISIP 516  
FFP 25-29 FSIP 630  
IHP 2308 FHP 2270  
Temp: 122 deg F

<b>COMPANY</b> Murfin Drilling Co., Inc	<b>ELEVATION</b> 3213'	<b>KB</b>
<b>LEASE</b> #1-14 Soucie		
<b>LOCATION</b> 1100' FSL & 1800' FEL	<b>Sec 14</b>	<b>TWP 10S RGE 34W</b>
<b>COUNTY</b> Thomas	<b>STATE</b> Kansas	



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wchita, KS 67202

ATTN: Tom Funk

### **#1-4-14 Soucie**

### **S14-10s-34wThomas, KS**

Start Date: 2012.04.01 @ 16:26:02

End Date: 2012.04.02 @ 02:12:40

Job Ticket #: 45098                      DST #: 1

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

Printed: 2012.04.11 @ 14:04:53



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**

**#1-4-14 Soucie**

Job Ticket: 45098

**DST#: 1**

Test Start: 2012.04.01 @ 16:26:02

## GENERAL INFORMATION:

Formation: **LKC 'I,J,K'**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:37:10

Time Test Ended: 02:12:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 37

**Interval: 4329.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 3213.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

3200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

**Serial #: 6751 Outside**

Press @ Run Depth: 90.95 psig @ 4332.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 16:26:02

End Time:

02:12:40

Time On Btm:

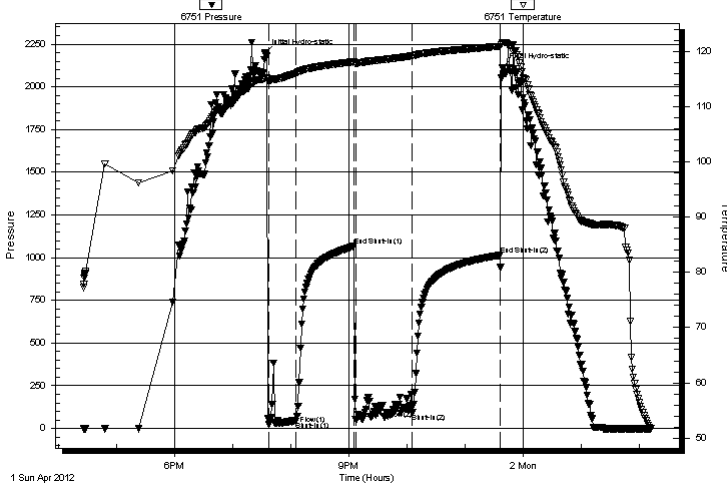
2012.04.01 @ 19:33:20

Time Off Btm:

2012.04.01 @ 23:38:40

**TEST COMMENT:** 4 1/2" Blow . Plugging in first 2 min. of flow .  
No return.  
4" Blow .  
Surface return died @ 10 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.58	115.03	Initial Hydro-static
4	25.15	114.60	Open To Flow (1)
32	42.89	116.00	Shut-In(1)
93	1067.93	118.09	End Shut-In(1)
94	54.63	117.82	Open To Flow (2)
153	90.95	119.13	Shut-In(2)
243	1013.97	120.88	End Shut-In(2)
246	2112.30	121.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	GOSWM 5g 5w 90m	1.30
45.00	GOCM 5g 3o 92m	0.63

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**

**#1-4-14 Soucie**

Job Ticket: 45098

**DST#: 1**

Test Start: 2012.04.01 @ 16:26:02

## Tool Information

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 60.71 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4329.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	111.00 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			4310.00	
Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Packer	5.00			4325.00	20.00 Bottom Of Top Packer
Packer	4.00			4329.00	
Stubb	1.00			4330.00	
Perforations	2.00			4332.00	
Recorder	0.00	8018	Inside	4332.00	
Recorder	0.00	6751	Outside	4332.00	
Perforations	20.00			4352.00	
Change Over Sub	1.00			4353.00	
Drill Pipe	63.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34w Thomas, KS**

**#1-4-14 Soucie**

Job Ticket: 45098

**DST#: 1**

Test Start: 2012.04.01 @ 16:26:02

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 5.98 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3900.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 40000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	GOSWM 5g 5w 90m	1.305
45.00	GOCM 5g 3o 92m	0.631

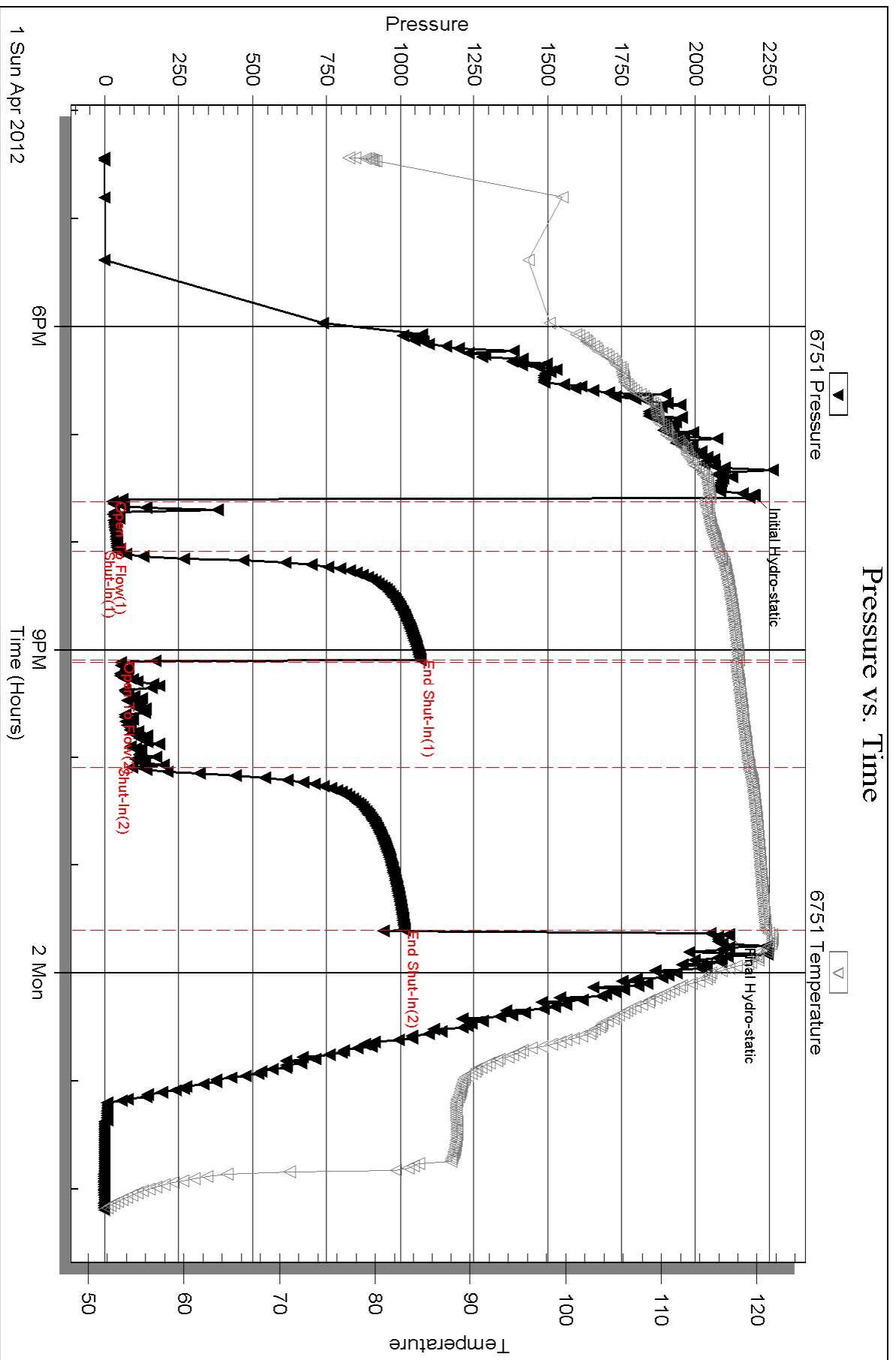
Total Length: 138.00 ft      Total Volume: 1.936 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW:.260 @ 50 Degrees F = 40000 PPM

### Pressure vs. Time



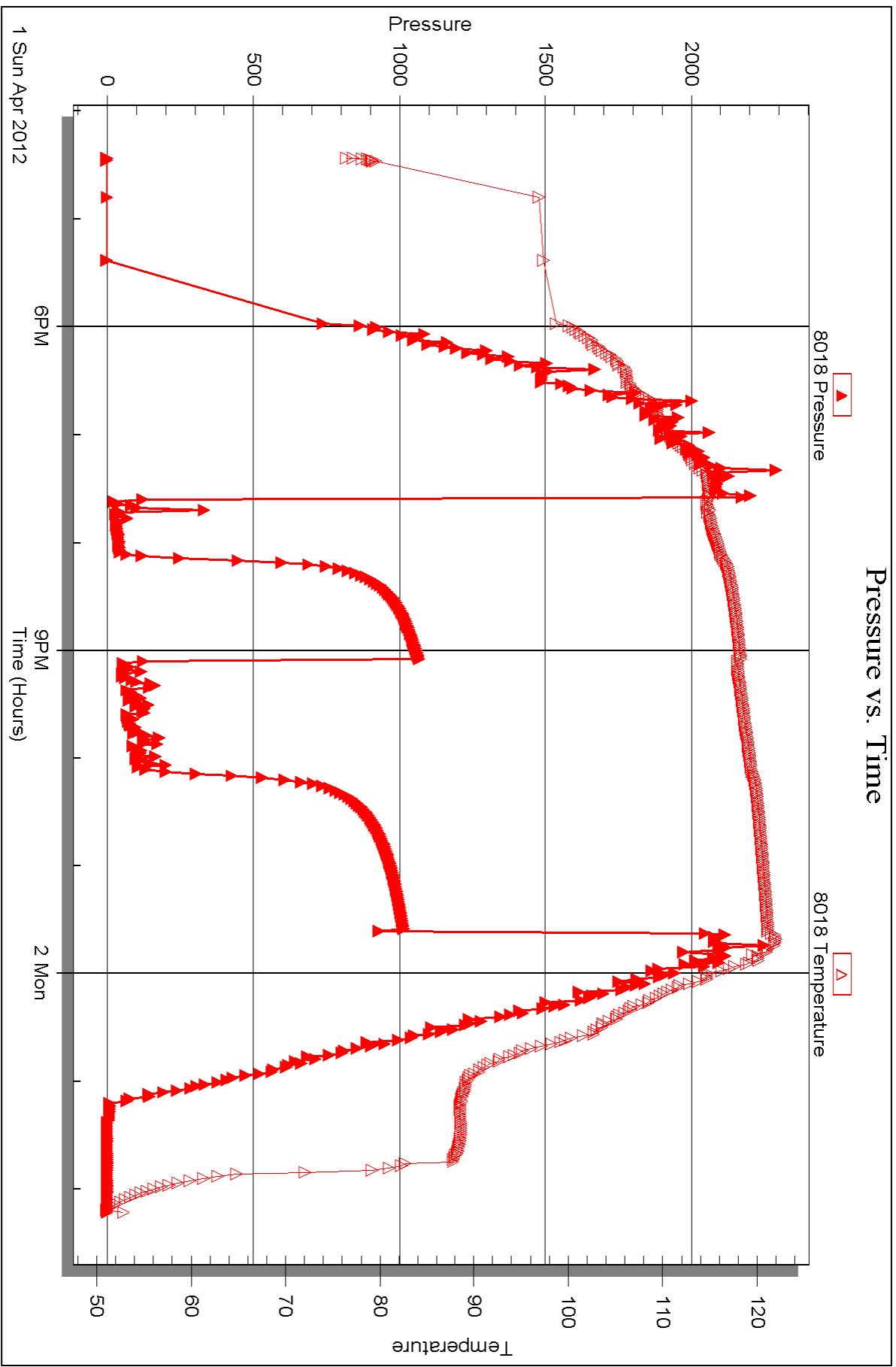
Serial #: 8018

Inside

Murfin Drilling Co.

#1-4-14 Soucie

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45098

Printed: 2012.04.11 @ 14:04:55



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wchita, KS 67202

ATTN: Tom Funk

**#1-4-14 Soucie**

**S14-10s-34wThomas, KS**

Start Date: 2012.04.02 @ 02:50:02

End Date: 2012.04.02 @ 13:16:10

Job Ticket #: 46462                      DST #: 2

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

Printed: 2012.04.11 @ 14:04:03

Murfin Drilling Co.

S14-10s-34wThomas, KS

#1-4-14 Soucie

DST # 2

myran station (lowe

2012.04.02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**

**#1-4-14 Soucie**

Job Ticket: 46462

**DST#: 2**

Test Start: 2012.04.02 @ 02:50:02

## GENERAL INFORMATION:

Formation: **myran station (lowe)**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:12:10

Time Test Ended: 13:16:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 37

**Interval: 4605.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Total Depth: 4650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3213.00 ft (KB)

3200.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6751**

**Outside**

Press @ Run Depth: 136.97 psig @ 4606.00 ft (KB)

Start Date: 2012.04.02

End Date:

2012.04.02

Start Time: 02:50:02

End Time:

13:16:10

Capacity: 8000.00 psig

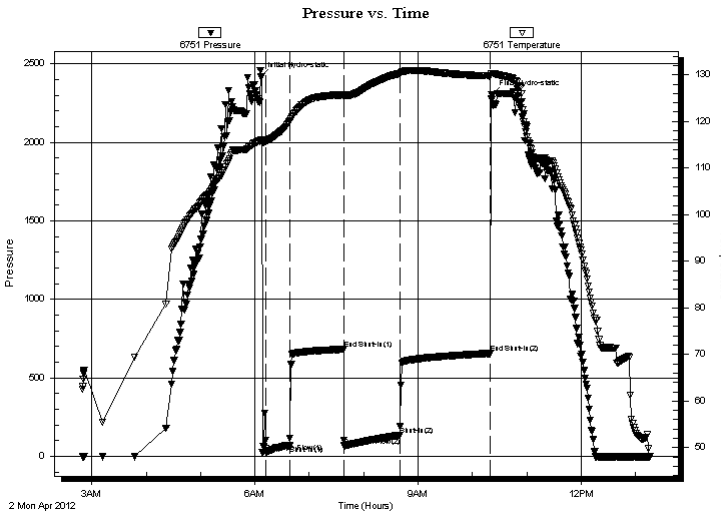
Last Calib.: 2012.04.03

Time On Btm: 2012.04.02 @ 06:06:10

Time Off Btm: 2012.04.02 @ 10:21:00

**TEST COMMENT:** Built to 4 inch  
No return  
3 inch blow died to 1/4 inch  
No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.67	115.87	Initial Hydro-static
6	29.51	115.71	Open To Flow (1)
32	69.12	119.94	Shut-In(1)
92	682.60	125.69	End Shut-In(1)
93	66.89	125.43	Open To Flow (2)
154	136.97	130.30	Shut-In(2)
254	655.10	129.75	End Shut-In(2)
255	2300.34	130.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
280.00	WCM W60% M40%	3.93

\* 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.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**

**#1-4-14 Soucie**

Job Ticket: 46462

**DST#: 2**

Test Start: 2012.04.02 @ 02:50:02

## Tool Information

Drill Pipe:	Length: 4612.00 ft	Diameter: 3.80 inches	Volume: 64.69 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.69 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4605.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4586.00	
Shut In Tool	5.00			4591.00	
Hydraulic tool	5.00			4596.00	
Packer	5.00			4601.00	20.00 Bottom Of Top Packer
Packer	4.00			4605.00	
Stubb	1.00			4606.00	
Recorder	0.00	8018	Inside	4606.00	
Recorder	0.00	6751	Outside	4606.00	
Perforations	41.00			4647.00	
Bullnose	3.00			4650.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>65.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**  
**#1-4-14 Soucie**  
Job Ticket: 46462      **DST#: 2**  
Test Start: 2012.04.02 @ 02:50:02

## 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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

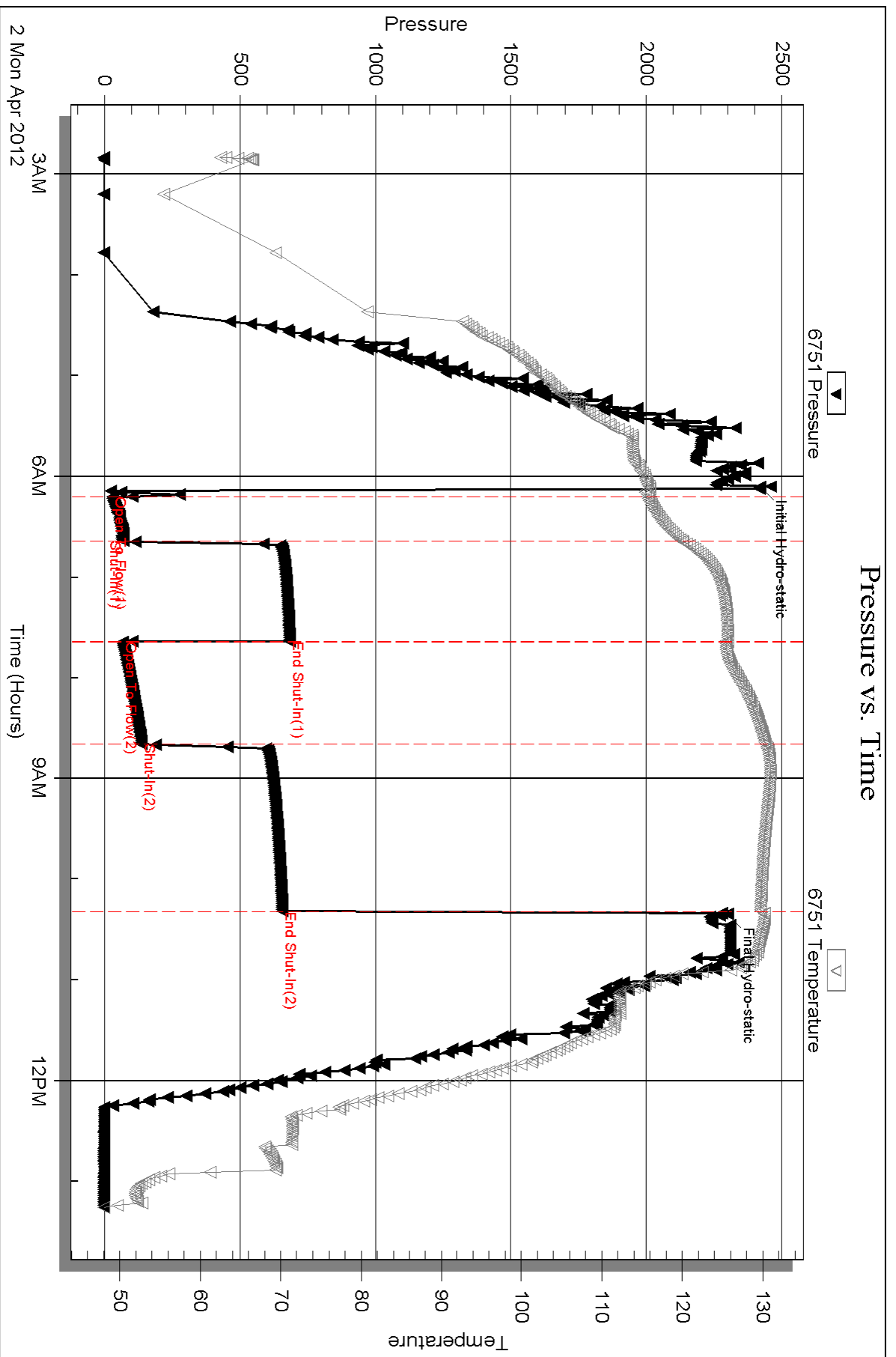
Length ft	Description	Volume bbl
280.00	WCM W60% M40%	3.928

Total Length: 280.00 ft      Total Volume: 3.928 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW:.117 @ 67 Degrees F = 80000 PPM



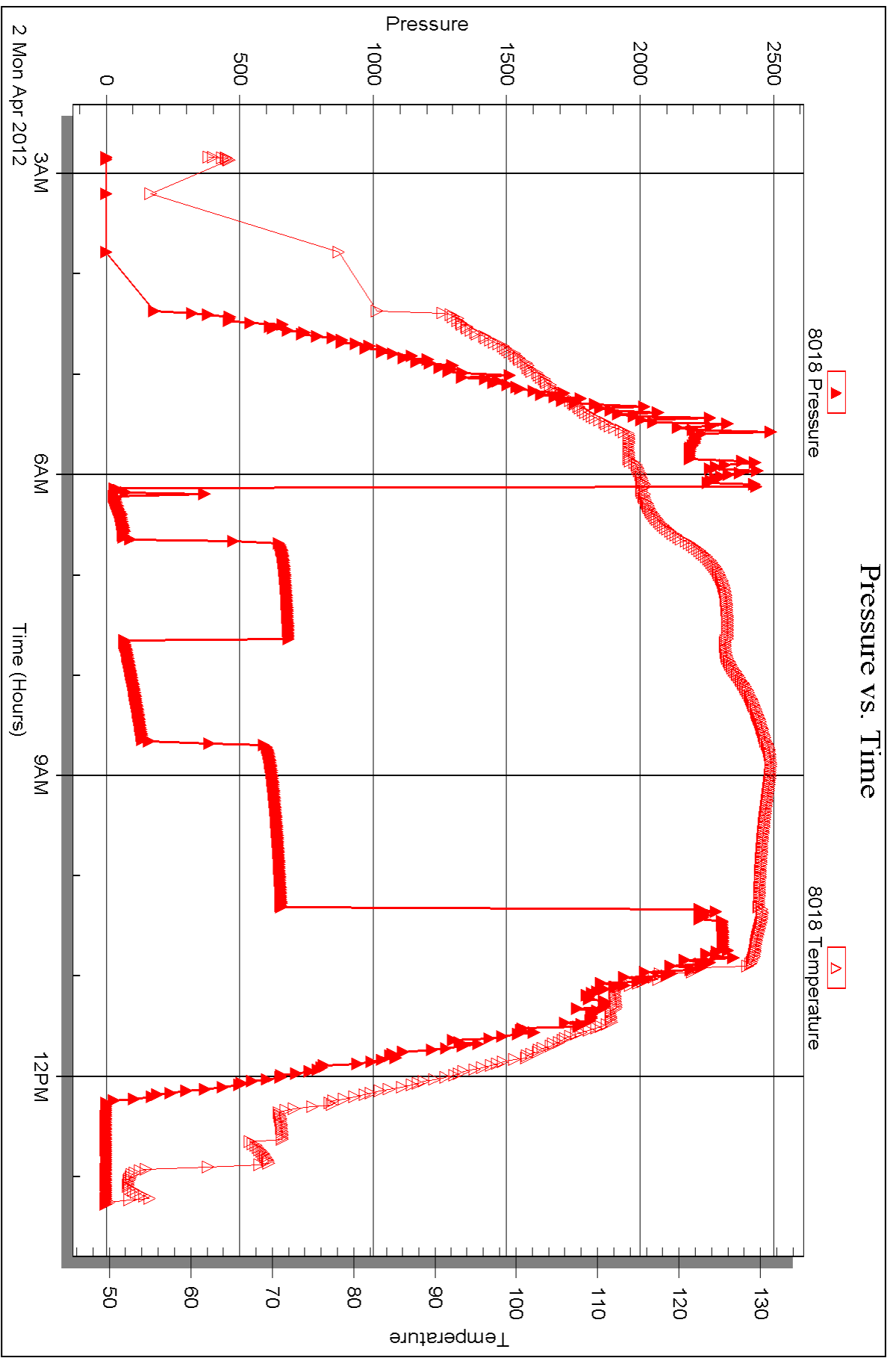
Serial #: 8018

Inside

Murfin Drilling Co.

#1-4-14 Soucie

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wchita, KS 67202

ATTN: Tom Funk

### **#1-4-14 Soucie**

### **S14-10s-34wThomas, KS**

Start Date: 2012.04.04 @ 05:00:02

End Date: 2012.04.04 @ 12:14:00

Job Ticket #: 46463                      DST #: 3

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

Printed: 2012.04.11 @ 14:03:12



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34w Thomas, KS**

**#1-4-14 Soucie**

Job Ticket: 46463

**DST#: 3**

Test Start: 2012.04.04 @ 05:00:02

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:00:30

Time Test Ended: 12:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 37

**Interval: 4696.00 ft (KB) To 4740.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3213.00 ft (KB)

3200.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 28.99 psig @ 4697.00 ft (KB)

Start Date: 2012.04.04

End Date:

2012.04.04

Start Time: 05:00:02

End Time:

12:14:00

Capacity: 8000.00 psig

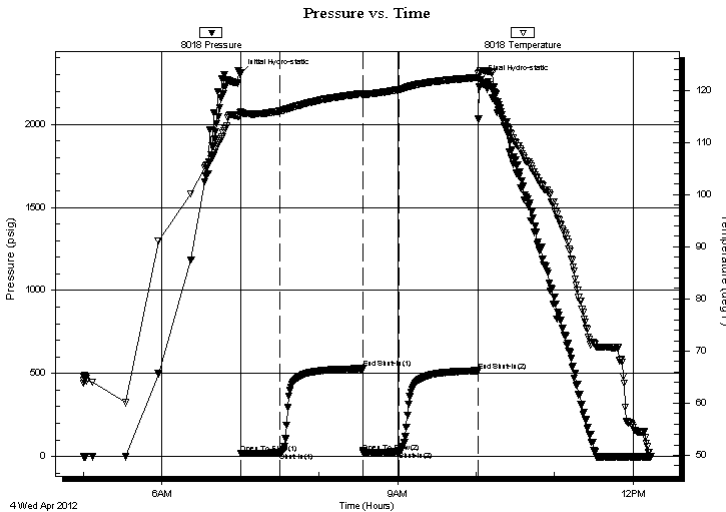
Last Calib.: 2012.04.04

Time On Btm: 2012.04.04 @ 06:59:50

Time Off Btm: 2012.04.04 @ 10:03:20

**TEST COMMENT:** weak surface blow  
no return  
no blow  
no return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.56	115.70	Initial Hydro-static
1	17.59	115.60	Open To Flow (1)
31	22.94	116.02	Shut-In(1)
94	529.85	119.38	End Shut-In(1)
94	25.46	119.12	Open To Flow (2)
122	28.99	120.15	Shut-In(2)
182	516.34	122.44	End Shut-In(2)
184	2270.49	123.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% M	0.42

\* 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.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**

**#1-4-14 Soucie**

Job Ticket: 46463

**DST#: 3**

Test Start: 2012.04.04 @ 05:00:02

## Tool Information

Drill Pipe:	Length: 4675.00 ft	Diameter: 3.80 inches	Volume: 65.58 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 65.58 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4696.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4669.00	
Shut In Tool	5.00			4674.00	
Hydraulic tool	5.00			4679.00	
Jars	5.00			4684.00	
Safety Joint	3.00			4687.00	
Packer	5.00			4692.00	28.00 Bottom Of Top Packer
Packer	4.00			4696.00	
Stubb	1.00			4697.00	
Recorder	0.00	8018	Inside	4697.00	
Recorder	0.00	6751	Outside	4697.00	
Perforations	40.00			4737.00	
Bullnose	3.00			4740.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.  
250 N. Water  
Suite 300  
Wchita, KS 67202  
ATTN: Tom Funk

**S14-10s-34wThomas, KS**  
**#1-4-14 Soucie**  
Job Ticket: 46463      **DST#: 3**  
Test Start: 2012.04.04 @ 05:00:02

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100% M	0.421

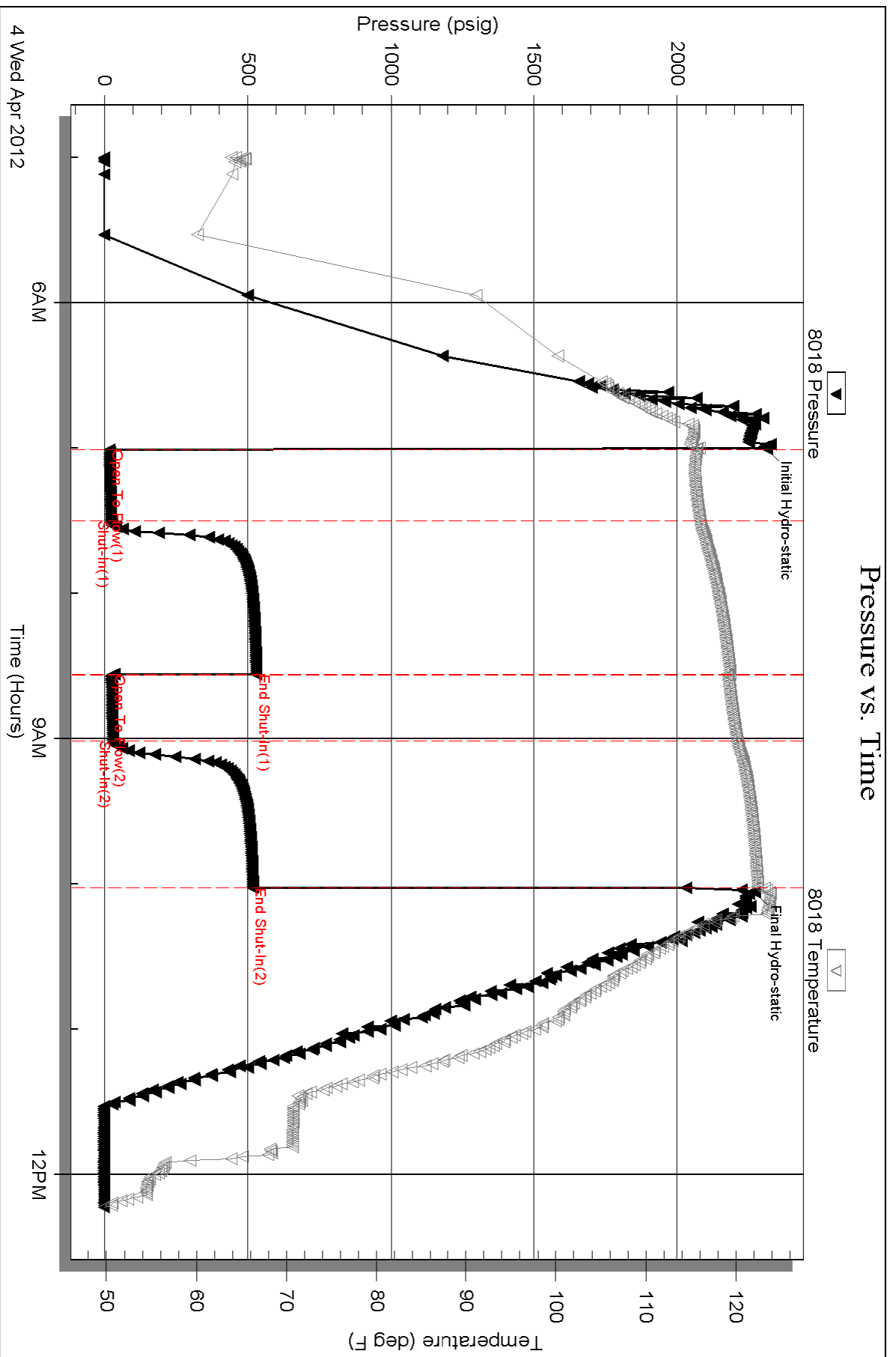
Total Length: 30.00 ft      Total Volume: 0.421 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



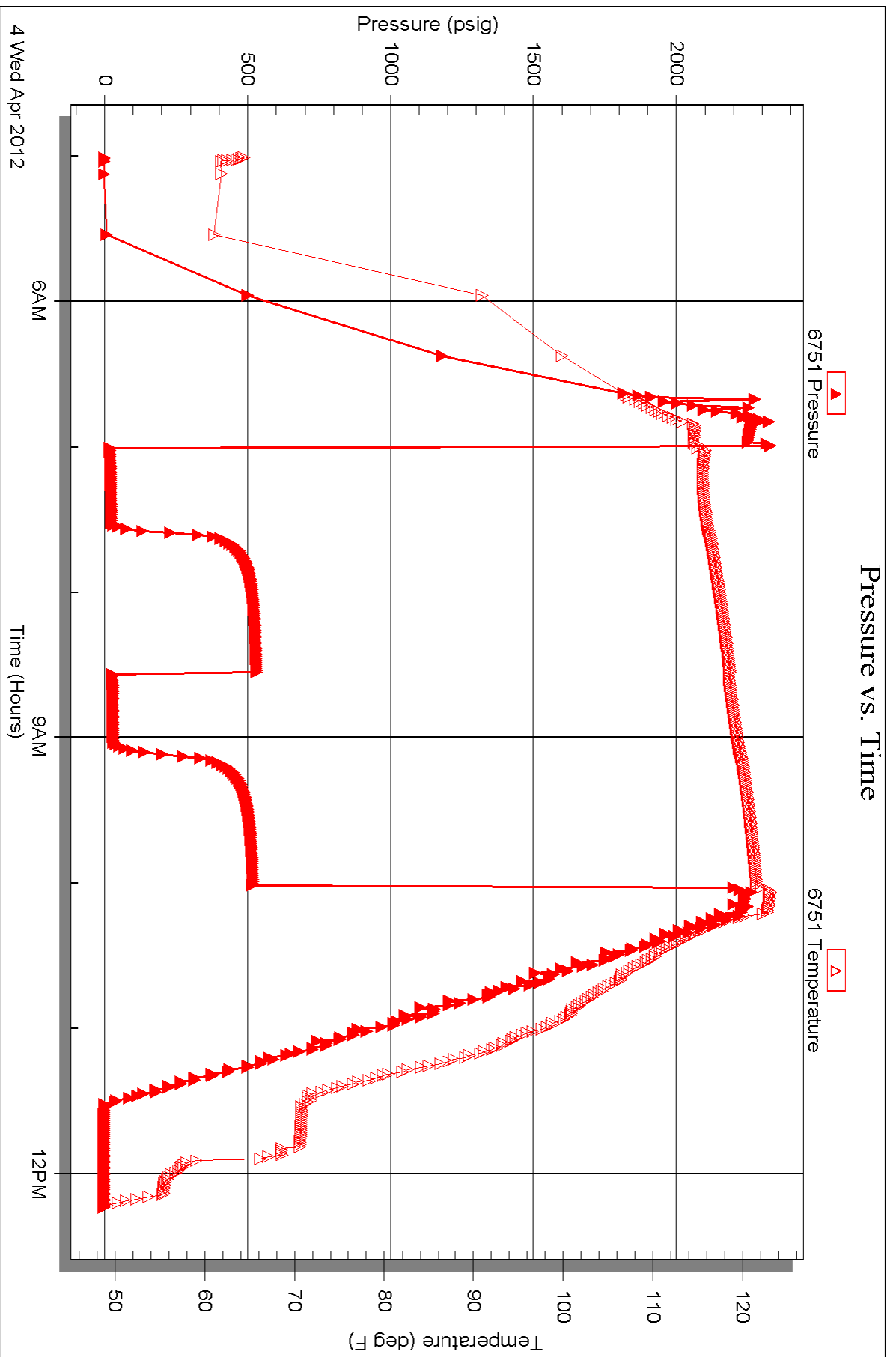


Serial #: 6751

Outside Murfin Drilling Co.

#1-4-14 Soucie

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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## Test Ticket

BY: \_\_\_\_\_

NO. \_\_\_\_\_

Well Name & No. #1-14 Soucie Test No. 1 Date 4-1-12  
 Company Murfin Drilling Co. Elevation 3213 KB 3200 GL \_\_\_\_\_  
 Address 250 N. Water Ste. 300 Wichita, KS 67202  
 Co. Rep / Geo. Tom Funk Rig MDC #25  
 Location: Sec. 14 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4329-4420 Zone Tested LKC 'T, S, K'  
 Anchor Length 91 Drill Pipe Run 4328 Mud Wt. 9.2  
 Top Packer Depth 4325 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 4329 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4420 Chlorides 3900 ppm System LCM 7  
 Blow Description 4 1/2" Blow Plugging in 1st 2 minutes.  
No return.  
4" Blow.  
Surface return died @ 10 min.

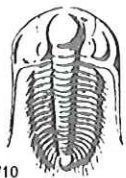
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>6-0 CM</u>	<u>5</u>	<u>3</u>	<u>92</u>	<u>92</u>
Rec <u>93</u>	Feet of <u>6-0 SWM</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u>90</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 138 BHT 121 Gravity - API RW 260 @ 50 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 2196  Test 1225' T-On Location 15:15  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 16:26  
 (C) First Final Flow 43  Safety Joint \_\_\_\_\_ T-Open 18:19:37  
 (D) Initial Shut-In 1068  Circ Sub N/C T-Pulled 23:36  
 (E) Second Initial Flow 55  Hourly Standby 1hr 100' T-Out 2:13  
 (F) Second Final Flow 91  Mileage 127RT 177.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 1032  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2112  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1502.80  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 190 Sub Total 1502.80

Approved By [Signature] Our Representative Chuck Smith

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



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 06 2012

## Test Ticket

NO. 46462

4/10

Well Name & No. Soucie 1-4-14 Test No. 2 Date 4-2-12  
 Company Murkin Drilling Co Elevation 3213 KB 3200 GL  
 Address 250 N WATER SUITE 300 WICHITA, KS 67202  
 Co. Rep / Geo. TOM FUNK Rig MURKIN 25  
 Location: Sec. 14 S Twp. 10 S Rge. 34 W Co. Thomas State KS

Interval Tested 4605-4650 Zone Tested MIRAN Station (Lower Pawnee)  
 Anchor Length 45 Drill Pipe Run 4612 Mud Wt. 9.2  
 Top Packer Depth 4600 Drill Collars Run — Vis 57  
 Bottom Packer Depth 4605 Wt. Pipe Run — WL 6.4  
 Total Depth 4650 Chlorides 5,600 ppm System LCM 8#  
 Blow Description building blow 4 inch  
no returns  
3 inch blow died to 1/4 inch

Rec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>WCM</u>		<u>60</u>	<u>40</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

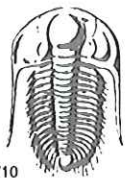
Rec Total 280 BHT 129 Gravity — API RW 117 @ 67 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic 2,420  Test 1225 T-On Location 21:45  
 (B) First Initial Flow 30  Jars — T-Started 23:34  
 (C) First Final Flow 69  Safety Joint — T-Open 2:50  
 (D) Initial Shut-In 682  Circ Sub N-C T-Pulled 6:50  
 (E) Second Initial Flow 67  Hourly Standby — T-Out 13:16  
 (F) Second Final Flow 137  Mileage 12.4 R/T13<sup>60</sup> Comments —  
 (G) Final Shut-In 655  Sampler —  
 (H) Final Hydrostatic 2,300  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —

Initial Open 30  Extra Packer —  Extra Copies —  
 Initial Shut-In 60  Extra Recorder — Sub Total Ø  
 Final Flow 60  Day Standby — Total 1398<sup>60</sup>  
 Final Shut-In 90  Accessibility — MP/DST Disc't —  
 Sub Total 1398<sup>60</sup>

Approved By [Signature] Our Representative Cole Archibald

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



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 06 2012

## Test Ticket

NO. 46463

4/10

BY: \_\_\_\_\_

Well Name & No. Soucie 1-4-14 Test No. 3 Date 4-04-12  
 Company Murfin Drilling Co Elevation 3213 KB 3200 GL  
 Address 250 N Water Suite 300 Wichita KS 67202  
 Co. Rep / Geo. Tom Funk Rig Murfin 25  
 Location: Sec. 19S Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4696-4740 Zone Tested Johnson  
 Anchor Length 44 Drill Pipe Run 4675 Mud Wt. 9.2  
 Top Packer Depth 4691 Drill Collars Run — Vis 50  
 Bottom Packer Depth 4696 Wt. Pipe Run — WL 6.8  
 Total Depth 4740 Chlorides 8000 ppm System LCM 4#  
 Blow Description weak surface blow  
No Return  
No blow  
No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</u>				<u>M</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 122° Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2308  Test 1225" T-On Location 3:25  
 (B) First Initial Flow 18  Jars 250" T-Started 5:00  
 (C) First Final Flow 23  Safety Joint 75 T-Open 7:00  
 (D) Initial Shut-In 530  Circ Sub N/C T-Pulled 10:00  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 12:14  
 (F) Second Final Flow 29  Mileage 128-R + 173<sup>60</sup> Comments \_\_\_\_\_  
 (G) Final Shut-In 516  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2270  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1723<sup>60</sup>  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1723<sup>60</sup>

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



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 130667  
Invoice Date: Mar 27, 2012  
Page: 1

*PROD COPY*  
*Operator Pay*  
*MDC*  
*DN*



**Bill To:**  
Murfin Drlg. Co., Inc.  
*PO Box 661*  
*Colby, KS 67701*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Soucie #1-14	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 27, 2012	4/26/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
7.00	MAT	Chloride	58.20	407.40
207.00	SER	Handling	2.25	465.75
18.00	SER	Mileage	22.77	409.86
1.00	SER	Surface	1,125.00	1,125.00
18.00	SER	Heavy Vehicle Mileage	7.00	126.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
18.00	SER	Light Vehicle Mileage	4.00	72.00
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Adam Holcomb		

Account	Qty	E	NO.	Amount	Description
<i>FD203</i>				<i>4284.65</i>	<i>Common S. Csg. #1-14</i>
	<i>3.</i>			<i>7464.0001</i>	

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

**\$ 2163.35**

ONLY IF PAID ON OR BEFORE  
**Apr 21, 2012**

Subtotal	6,181.01
Sales Tax	266.99
Total Invoice Amount	6,448.00
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,448.00</b>

*(2163.35)*

*4284.65*

# ALLIED CEMENTING CO., LLC. 040945

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*Oakley*

DATE <i>3-27-12</i>	SEC. <i>14</i>	TWP. <i>10</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION <i>10:30 AM</i>	JOB START <i>2:30 AM</i>	JOB FINISH <i>3:00 PM</i>
LEASE <i>Soucle</i>	WELL# <i>1-14</i>	LOCATION <i>Monument + 2W-N to Rd D</i>			COUNTY <i>Thomas</i>	STATE <i>Ks.</i>	
OLD OR NEW (Circle one) <u>NEW</u>				<i>1/2 W-N into</i>			

CONTRACTOR *Murfin #25*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *269*

CASING SIZE *8 5/8* DEPTH *269*

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

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

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

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

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

CEMENT LEFT IN CSG. *15 ft.*

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

DISPLACEMENT *16.25*

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER *Darren R.*

# *423-281* HELPER *Tyler*

BULK TRUCK \_\_\_\_\_

# *347* DRIVER *Adam*

BULK TRUCK \_\_\_\_\_

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

OWNER *Some*

CEMENT AMOUNT ORDERED *200 SKS Com 3% CC*

COMMON *200 SKS @ \$16.25 = \$3250.00*

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

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

CHLORIDE *7 SKS @ \$58.20 = \$407.40*

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

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

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

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

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

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

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

HANDLING *207* @ *2.25 = \$465.75*

MILEAGE *112 Per Mile* @ \_\_\_\_\_ = *\$409.26*

TOTAL *\$41533.21*

REMARKS:

*Mid 200 SKs Cement*  
*Displace with water*  
*Cement Did Circulate*

*Thank You*

CHARGE TO: *Murfin Drilling*

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB *269*

PUMP TRUCK CHARGE \_\_\_\_\_ @ *\$1125.00*

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

MILEAGE *18* @ *\$7.00 = \$126.00*

MANIFOLD *Swodge* @ \_\_\_\_\_ = *\$325.00*

*LU mileage* @ *\$4.00 = \$72.00*

TOTAL *\$1648.00*

PLUG & FLOAT EQUIPMENT

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

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

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

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

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

TOTAL \_\_\_\_\_

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

PRINTED NAME *Raymond Blal*

SIGNATURE *[Signature]*

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 130763

Invoice Date: Apr 5, 2012

Page: 1

PROD COPY

OPERATOR PAY MDC  
LEASE: \_\_\_\_\_



v acct.  
Ling H.

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

Customer ID	Well Name # or Customer P.O.	Payment Terms	
Murfin	Soucie #1-14	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 5, 2012	5/5/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	FloSeal	2.70	148.50
230.00	SER	Handling	2.25	517.50
18.00	SER	Ton Miles	25.30	455.40
1.00	SER	Plug To Abandon	1,250.00	1,250.00
18.00	SER	Heavy Vehicle Mileage	7.00	126.00
18.00	SER	Light Vehicle Mileage	4.00	72.00
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Steve Heikkila		

Account	Unit Price	W	
10203	4072.23		PTA # 1-14
	3.7464.0001		

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

\$1971.34

ONLY IF PAID ON OR BEFORE  
Apr 30, 2012

Subtotal	5,632.40
Sales Tax	411.17
Total Invoice Amount	6,043.57
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,043.57</b>

Deduct

(1971.34)

4072.23



# ALLIED CEMENTING CO., LLC. 040950

Federal Tax I.D.# 20-5975804

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

SERVICE POINT  
*Oakley*

DATE <i>4-5-12</i>	SEC. <i>14</i>	TWP. <i>10</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION <i>3:00 Am</i>	JOB START <i>10:00</i>	JOB FINISH <i>11:00</i>
LEASE <i>Soucie</i>	WELL# <i>1-14</i>	LOCATION <i>Monument 2w - N To Rd D</i>			COUNTY <i>Thomas</i>	STATE <i>Ks.</i>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)		<i>1 1/2 w Ninto</i>					

CONTRACTOR *Murfin #25*

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* T.D. *4740*

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH *2750*

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *35.55*

EQUIPMENT

PUMP TRUCK CEMENTER *Darren R.*

# *422* HELPER *Tyler*

BULK TRUCK

# *347* DRIVER *Steve*

BULK TRUCK

# DRIVER

OWNER *Same*

CEMENT

AMOUNT ORDERED *220 SKS 60/40 4% Gel*

*1/4" Flo Seal*

COMMON	<i>132 SKS</i>	@ <i>16.25</i>	# <i>2145.50</i>
POZMIX	<i>88 SKS</i>	@ <i>8.50</i>	# <i>748.00</i>
GEL	<i>8 SKS</i>	@ <i>21.25</i>	# <i>170.00</i>
CHLORIDE		@	
ASC		@	
<i>Flo Seal</i>	<i>55"</i>	@ <i>2.70</i>	# <i>148.50</i>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>230</i>	@ <i>2.25</i>	# <i>517.50</i>
MILEAGE	<i>11 @ Per mile</i>		# <i>455.40</i>
TOTAL			# <i>4184.90</i>

REMARKS:

*mix 25 SKS Cement 2750 ft*

*mix 100 SKS Cement 1700 ft*

*mix 40 SKS Cement 320 ft*

*mix 10 SKS Cement 40 ft*

*Plug mouse hole 15 SKS*

*Plug Rat hole 30 SKS.*

*Thank You*

CHARGE TO: *Murfin Drilling*

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB *2740*

PUMP TRUCK CHARGE # *1250.00*

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

MILEAGE *18* @ *7.00* # *126.00*

MANIFOLD @ \_\_\_\_\_

*LV mileage* @ *4.00* # *72.00*

TOTAL # *1448.00*

PLUG & FLOAT EQUIPMENT

*1 Top Wooden Plug* @ *92.00*

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL # *92.00*

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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

PRINTED NAME *Reginal Blf*

SIGNATURE *[Signature]*