



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1160226  
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: \_\_\_\_\_



1160226

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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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

September 27, 2013

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

Re: ACO1  
API 15-039-21178-00-00  
Dwyer-Simoneau 1-27  
NE/4 Sec.27-05S-26W  
Decatur County, Kansas

Dear Production Department:

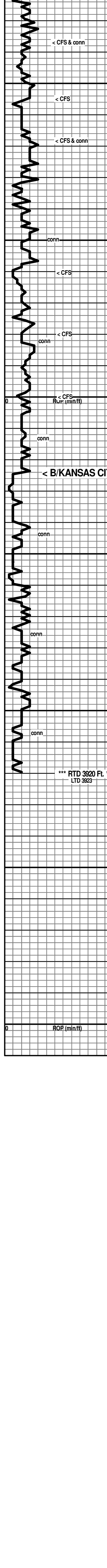
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

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

Respectfully,  
Leon Rodak

MDCI Dwyer-Simoneau #1-27 2190' FNL 1920' FEL Sec. 27-T5S-R26W 2557' KB							MDCI SKRM #1-23 1930' FSL 390' FWL Sec. 23-T5S-R26W 2534' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2169	+388	-13	2168	+389	-12	2133	+401
B/Anhydrite	2200	+357	-11	2202	+355	-13	2166	+368
Topeka	3391	-834	-18	3389	-832	-16	3350	-816
Heebner	3592	-1035	-15	3591	-1034	-14	3554	-1020
Toronto	3615	-1058	-14	3616	-1059	-15	3578	-1044
Lansing	3633	-1076	-14	3632	-1075	-13	3596	-1062
BKC	3819	-1262	-16	3824	-1267	-12	3780	-1246
RTD	3920						4065	
LTD				3923			4056	





D  
S  
T  
2



Scatt interfoss pores, con in pt nr chert: thin, cr, opaq

[V Fnt Odor, Scatt dull Fluor, Scatt spots, patches & pcs with lt brn stn, Slt shows of oily film and Slt shows of Lt brn FO, Lwr in D had scatt dk hvy stn with fr show dk NVL oil and sli show brn FO]

Sh gy-grn-red (washes red)

Lu wh-cr, fr sh, mostly dns, foss

[No Odor, No Fluor, NSF0, Rr patches of yellowish tan stn]

Sh red-gy-grn (washes red)

Lu wh, fr sh, mostly padded foss & packed ool with Moderate amt of fr-gd interfoss & interool por, fr-gd crush

[Fnt Odor, abund dull Fluor, Abund tan-lt brn patchy-even stn, abund pcs with sli shows of lt brn-brn FO and fr amt oily film on brk]

Lu wh, fr sh, mostly padded foss & packed ool with Moderate amt of fr-gd interfoss & interool por, fr-gd crush

Sh mostly red-gy-grn, some black carb

Lu wh-cr, fr sh, mostly dns, some rr patches of pr sh por, some ool: mostly well-com with scatt patches of pr interool foss

[No Odor, No Fluor, NSF0, Rr patches of pr sh por, some ool: mostly well-com with scatt patches of pr interool foss]

Sh red-gy-grn (washes red)

Lu wh, fr sh, mostly padded foss & packed ool with Moderate amt of fr-gd interfoss & interool por, fr-gd crush

Lu wh-cr, Rr scatt dull Fluor, low % pcs with marbled-patchy lt brn stn with v sli show of oily film and FO on brk]

Lu wh-cr, fr sh, mostly dns, foss

Sh red-gy-grn, black shale?

Lu brn-gy, fr sh, foss

sh red-gy-grn, muddy-patchy (washes thick red)

Lu wh, fr sh, subvly test in pt with pr sh por & scatt to abund pr por in pcs, dns in pt, foss-abund foss, becomes more dns with depth

[No Odor, Scatt V dull fluor, spotty to patchy brn stn, sli shows of whitish oily film & trace-sli shows of brn FO on brk]

Lu wh-cr, fr sh, mostly dns, some chaly-subchaly, Rr scatt patches of pr sh por, fr scatt isolated sm vugs (some vug filled with red shale, foss in pt)

Sh red, muddy-goosy (washes hvy red)

Lu wh-cr-gy, fr sh, mostly dns, some chaly-subchaly, Rr scatt patches of pr sh por, fr scatt isolated sm vugs (some vug filled with red shale, foss in pt)

[No Odor, No Fluor, Rr sm vugs with dk brn stn, NSF0]

Lu wh-cr, fr sh, 99% dns, Rr patches of pr sh por, foss

[No Odor, No Fluor, Rr (less than 01% of pcs) with patches of spotty brn stn, found few pcs with trace show FO on brk]

Lu wh-cr, fr sh, dns & firm to soft & subchaly all foss in pt

Sh red-gy-pl gm, earthy-subchaly-submic, muddy-soft-subfirm

Lu wh-gy, fr sh, grny test in pt, dns, foss in pt; interbedded with red muddy shales with some-gy-grn shale

Sh mostly red muddy (washes red) some gy-grnish

Lu wh-gy, fr sh, grny test in pt, dns, foss in pt

Sh pink-red-lavendar, some gy muddy-soft (washes pale red)

Lu wh-gy, fresh-frgn, dns subvireous test to dns grny test, some marbling of red clay

Sh red-lavendar-maroon, rr gy muddy-soft (washes hvy purplish-red) mod amt of dns ls in spl

Mud Check, OB DST 2 @ 3718:  
Vis Wt WL LCM PV YP  
72 82 64 5 26 29  
Cht Hd pH Solids  
2300 10 10.0 6.4

7:00 AM, June 15, 2013

DST #2: 3677-3718 (Lsg F,G)  
Times: 30-60-60-90  
Initial Blow: Wk, built to 2.5' l.b.  
Final Blow: Wk, built to 2' l.b.  
Rec: 150 MCW: 65% w 35% m  
(Tester Cht/6000ppm; Mudman 48000ppm)  
IHP: 1851 FHP: 1832  
ISIP: 1028 FSP: 55-91  
ISIP: 1109 FSP: 1055  
BHT: 107°F

DST #3: 3725-3800 (LKC H,I,K)  
Times: 30-60-30-60  
Initial Blow: V Wk, built to 0.5' l.b.  
Final Blow: None  
Rec: 05 mud  
IHP: 1869 FHP: 1835  
ISIP: 1028 FSP: 29-38  
ISIP: 1109 FSP: 1055  
BHT: 107°F

7:00 AM, June 15, 2013

Mudcheck, drlg @ 3824:  
Vis Wt WL LCM PV YP  
68 82 72 4 26 19  
Cht Hd pH Solids  
2300 10 10.0 6.4

RTD 3820 Fl. @ 5:20 PM,  
June 16, 2013

D  
S  
T  
2



3824 (-1267)

\*\*\* RTD 3820 Fl. \*\*\*  
LTD 3820

ROF (ohm-ft)

RTD 3820 Fl. @ 5:20 PM,  
June 16, 2013



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste300  
Wichita KS 67206

ATTN: Brad Rine

**Dwyer-Simoneau #1-27**

**27-5s-26w Decatur,KS**

Start Date: 2013.06.14 @ 19:00:00

End Date: 2013.06.15 @ 02:59:45

Job Ticket #: 50684                      DST #: 1

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

Printed: 2013.06.18 @ 11:10:59



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water Ste300  
Wichita KS 67206  
ATTN: Brad Rine

**27-5s-26w Decatur, KS**  
**Dwyer-Simoneau #1-27**  
Job Ticket: 50684      **DST#: 1**  
Test Start: 2013.06.14 @ 19:00:00

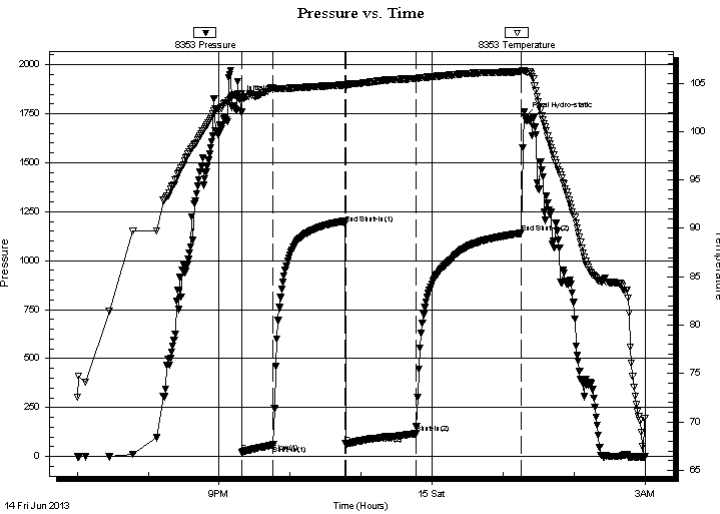
## GENERAL INFORMATION:

Formation: <b>LKC A-D</b>			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 21:19:15		Tester: Wilbur Steinbeck	
Time Test Ended: 02:59:45		Unit No: 68	
<b>Interval: 3621.00 ft (KB) To 3687.00 ft (KB) (TVD)</b>		Reference Elevations: 2557.00 ft (KB)	
Total Depth: 3687.00 ft (KB) (TVD)		2546.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 11.00 ft	

## Serial #: 8353      Outside

Press @ Run Depth: 116.53 psig @ 3622.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.06.14      End Date: 2013.06.15	Last Calib.: 2013.06.15
Start Time: 19:00:15      End Time: 02:59:45	Time On Btm: 2013.06.14 @ 21:17:00
	Time Off Btm: 2013.06.15 @ 01:18:30

**TEST COMMENT:** 30 IF; Built to 2"  
60 ISI; No Blow  
60 FF; Built to 3"  
90 FSI; No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.91	103.87	Initial Hydro-static
3	22.69	103.54	Open To Flow (1)
29	58.67	104.51	Shut-In(1)
90	1189.27	104.82	End Shut-In(1)
90	63.59	104.73	Open To Flow (2)
150	116.53	105.48	Shut-In(2)
239	1140.65	106.18	End Shut-In(2)
242	1735.00	106.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	Mud	1.03

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water Ste300  
 Wichita KS 67206  
 ATTN: Brad Rine

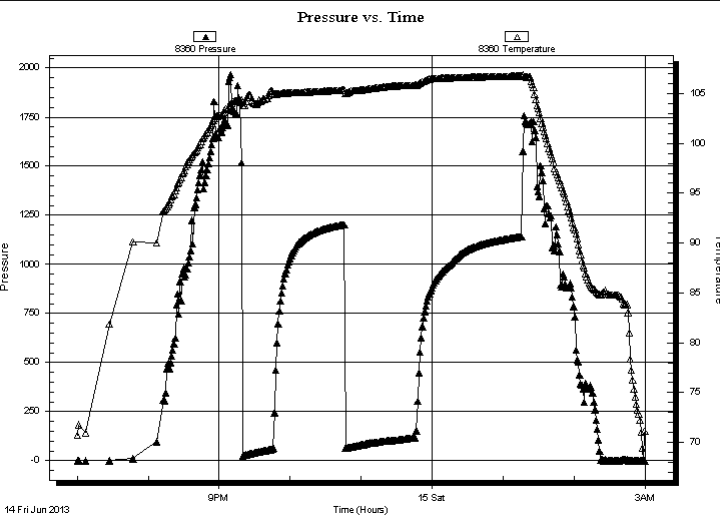
**27-5s-26w Decatur,KS**  
**Dwyer-Simoneau #1-27**  
 Job Ticket: 50684      **DST#: 1**  
 Test Start: 2013.06.14 @ 19:00:00

**GENERAL INFORMATION:**

Formation: **LKC A-D**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:19:15 Tester: Wilbur Steinbeck  
 Time Test Ended: 02:59:45 Unit No: 68  
 Interval: **3621.00 ft (KB) To 3687.00 ft (KB) (TVD)** Reference Elevations: 2557.00 ft (KB)  
 Total Depth: 3687.00 ft (KB) (TVD) 2546.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8360 Inside**  
 Press @ Run Depth: psig @ 3622.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.14 End Date: 2013.06.15 Last Calib.: 2013.06.15  
 Start Time: 19:00:15 End Time: 02:59:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 IF; Built to 2"  
 60 IS; No Blow  
 60 FF; Built to 3"  
 90 FS; No Blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
210.00	Mud	1.03

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50684

**DST#: 1**

ATTN: Brad Rine

Test Start: 2013.06.14 @ 19:00:00

## Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.46 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3621.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	95.00 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			3593.00	
Shut In Tool	5.00			3598.00	
Hydraulic tool	5.00			3603.00	
Jars	5.00			3608.00	
Safety Joint	3.00			3611.00	
Packer	5.00			3616.00	29.00 Bottom Of Top Packer
Packer	5.00			3621.00	
Shale	0.00			3621.00	
Stubb	1.00			3622.00	
Recorder	0.00	8360	Inside	3622.00	
Recorder	0.00	8353	Outside	3622.00	
Perforations	28.00			3650.00	
change Over Sub	1.00			3651.00	
blank spacing	32.00			3683.00	
change Over Sub	1.00			3684.00	
Bullnose	3.00			3687.00	66.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50684

**DST#: 1**

ATTN: Brad Rine

Test Start: 2013.06.14 @ 19:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Mud	1.033

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

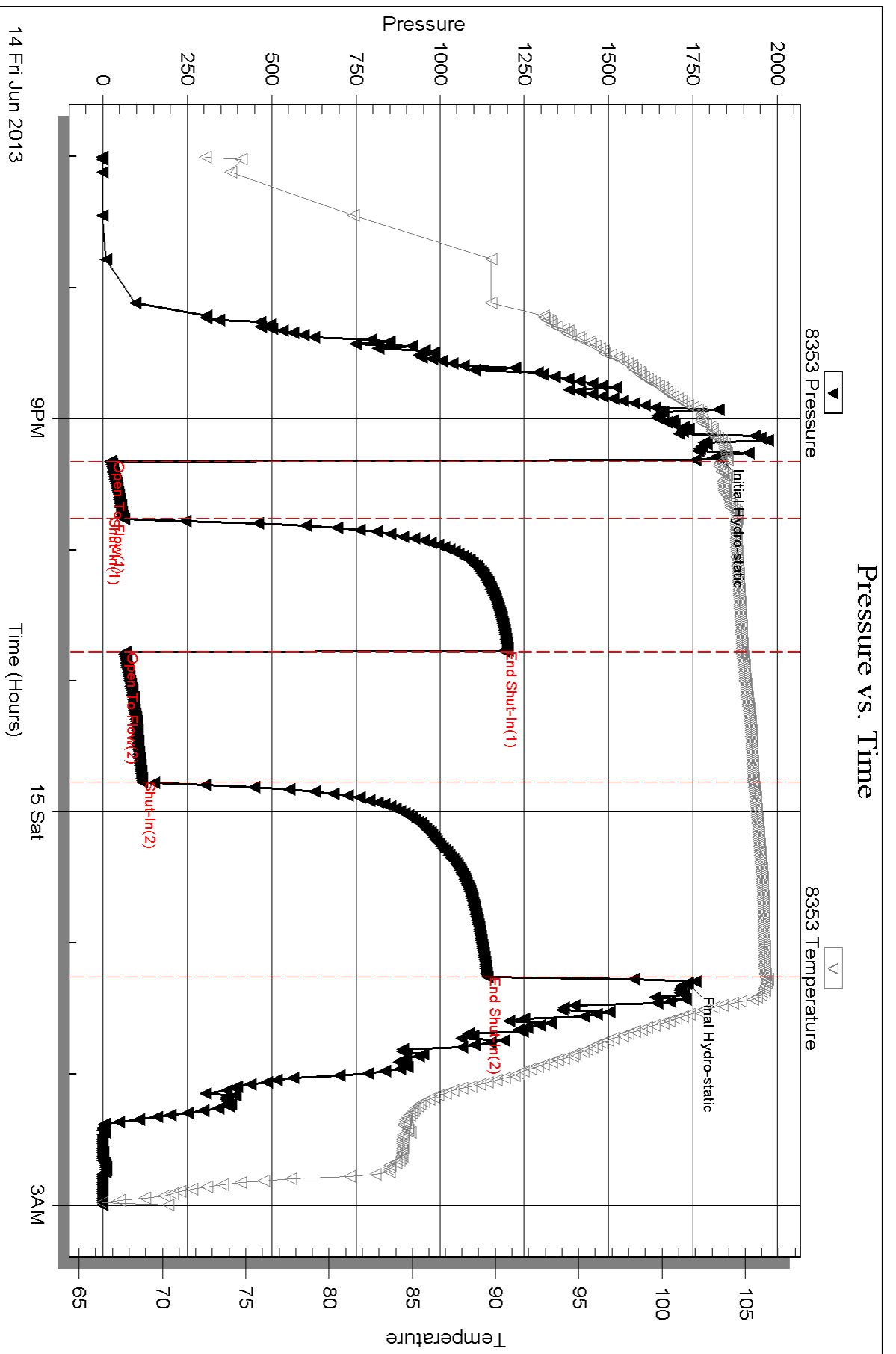
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



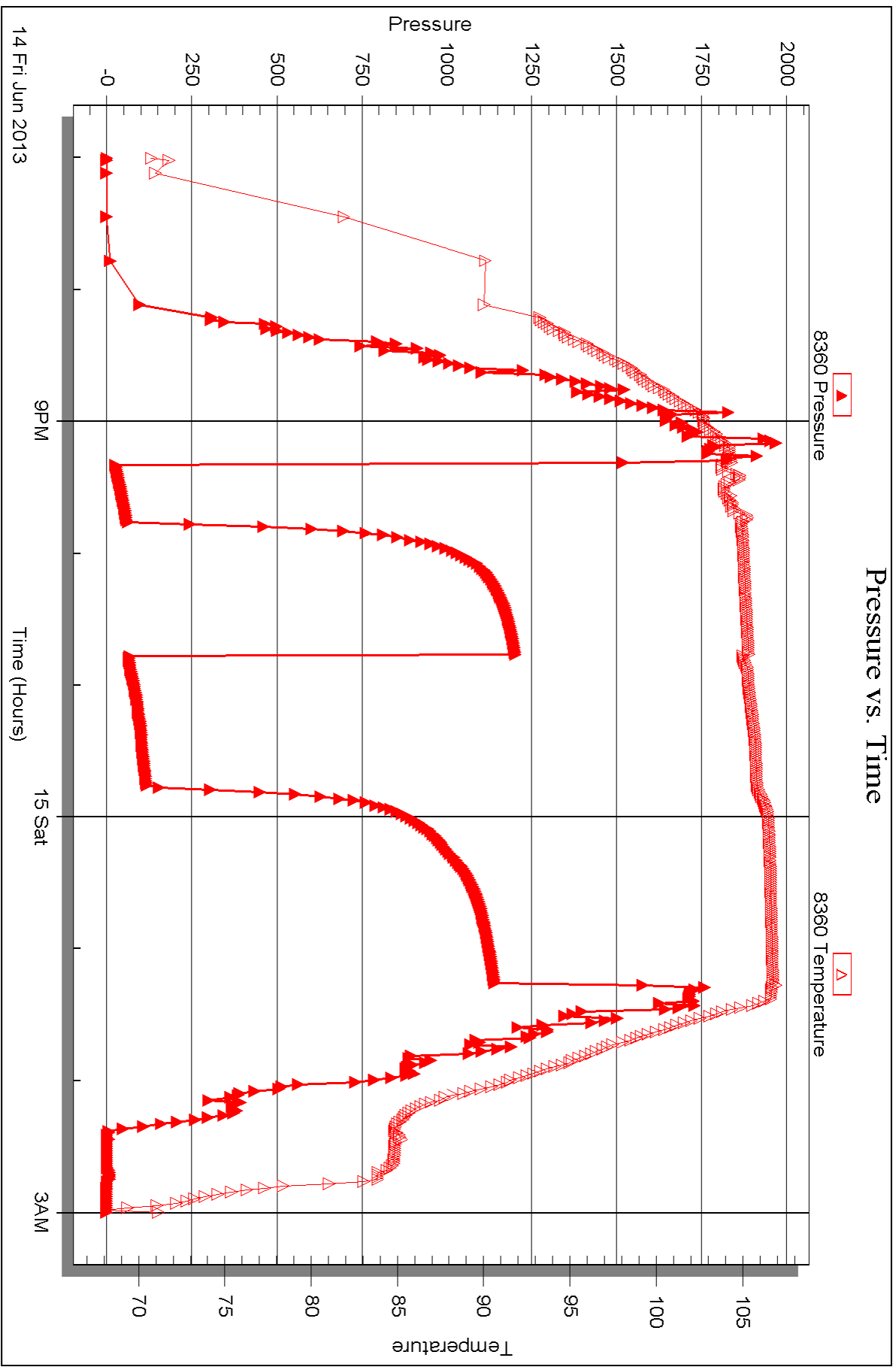
Serial #: 8360

Inside

Murfin Drilling Co.

Dwyer-Simoneau #1-27

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50684

Printed: 2013.06.18 @ 11:11:03



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste300  
Wichita KS 67206

ATTN: Brad Rine

**Dwyer-Simoneau #1-27**

**27-5s-26w Decatur,KS**

Start Date: 2013.06.15 @ 10:48:00

End Date: 2013.06.15 @ 18:20:30

Job Ticket #: 50685                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.18 @ 11:08:48

Murfin Drilling Co.

27-5s-26w Decatur,KS

Dwyer-Simoneau #1-27

DST # 2

LKC F-G

2013.06.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water Ste300  
 Wichita KS 67206  
 ATTN: Brad Rine

**27-5s-26w Decatur, KS**  
**Dwyer-Simoneau #1-27**  
 Job Ticket: 50685      **DST#: 2**  
 Test Start: 2013.06.15 @ 10:48:00

## GENERAL INFORMATION:

Formation: **LKC F-G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 12:53:45  
 Tester: Wilbur Steinbeck  
 Time Test Ended: 18:20:30  
 Unit No: 68  
**Interval: 3677.00 ft (KB) To 3718.00 ft (KB) (TVD)**  
 Reference Elevations: 2557.00 ft (KB)  
 Total Depth: 3718.00 ft (KB) (TVD)  
 2546.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 11.00 ft

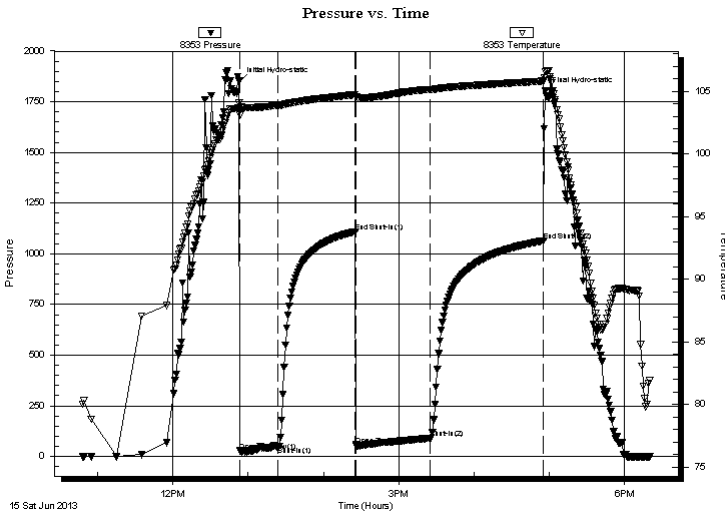
## Serial #: 8353

**Outside**

Press @ Run Depth: 90.55 psig @ 3678.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.06.15      End Date: 2013.06.15      Last Calib.: 2013.06.15  
 Start Time: 10:48:15      End Time: 18:20:30      Time On Btm: 2013.06.15 @ 12:53:00  
 Time Off Btm: 2013.06.15 @ 16:56:45

**TEST COMMENT:** 30 IF; Built to 2 1/2"  
 60 ISF; No Blow  
 60 FF; Built to 2"  
 90 FSI; No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.85	104.07	Initial Hydro-static
1	27.35	103.09	Open To Flow (1)
31	48.38	103.88	Shut-In(1)
93	1109.45	104.74	End Shut-In(1)
93	54.79	104.59	Open To Flow (2)
153	90.55	105.14	Shut-In(2)
243	1064.51	105.81	End Shut-In(2)
244	1801.94	106.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW 35%M 65%W	0.74

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water Ste300  
 Wichita KS 67206  
 ATTN: Brad Rine

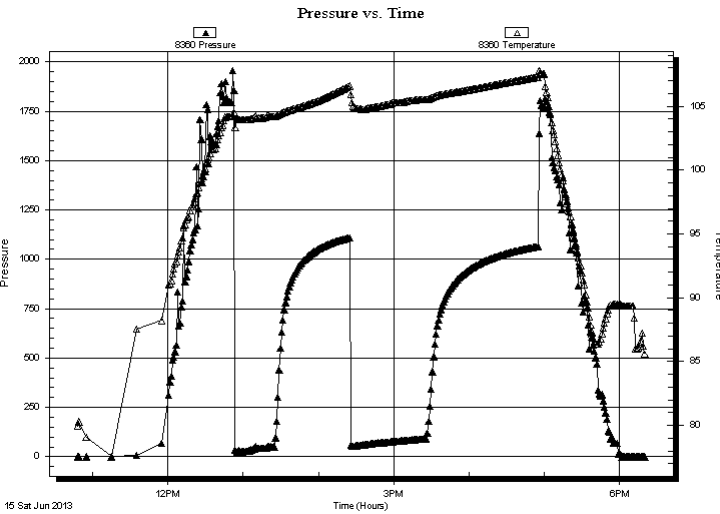
**27-5s-26w Decatur,KS**  
**Dwyer-Simoneau #1-27**  
 Job Ticket: 50685 **DST#: 2**  
 Test Start: 2013.06.15 @ 10:48:00

## GENERAL INFORMATION:

Formation: **LKC F-G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 12:53:45 Tester: Wilbur Steinbeck  
 Time Test Ended: 18:20:30 Unit No: 68  
 Interval: **3677.00 ft (KB) To 3718.00 ft (KB) (TVD)** Reference Elevations: 2557.00 ft (KB)  
 Total Depth: 3718.00 ft (KB) (TVD) 2546.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8360 Inside**  
 Press @ Run Depth: psig @ 3678.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.15 End Date: 2013.06.15 Last Calib.: 2013.06.15  
 Start Time: 10:48:15 End Time: 18:20:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 IF; Built to 2 1/2"  
 60 ISF; No Blow  
 60 FF; Built to 2"  
 90 FSI; No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW 35%M 65%W	0.74

\* 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.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50685

**DST#: 2**

ATTN: Brad Rine

Test Start: 2013.06.15 @ 10:48:00

## Tool Information

Drill Pipe:	Length: 3434.00 ft	Diameter: 3.80 inches	Volume: 48.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 49.32 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3677.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	70.00 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			3649.00	
Shut In Tool	5.00			3654.00	
Hydraulic tool	5.00			3659.00	
Jars	5.00			3664.00	
Safety Joint	3.00			3667.00	
Packer	5.00			3672.00	29.00 Bottom Of Top Packer
Packer	5.00			3677.00	
Stubb	1.00			3678.00	
Recorder	0.00	8360	Inside	3678.00	
Recorder	0.00	8353	Outside	3678.00	
Perforations	37.00			3715.00	
Bullnose	3.00			3718.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50685

**DST#: 2**

ATTN: Brad Rine

Test Start: 2013.06.15 @ 10:48:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MCW 35%M 65%W	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

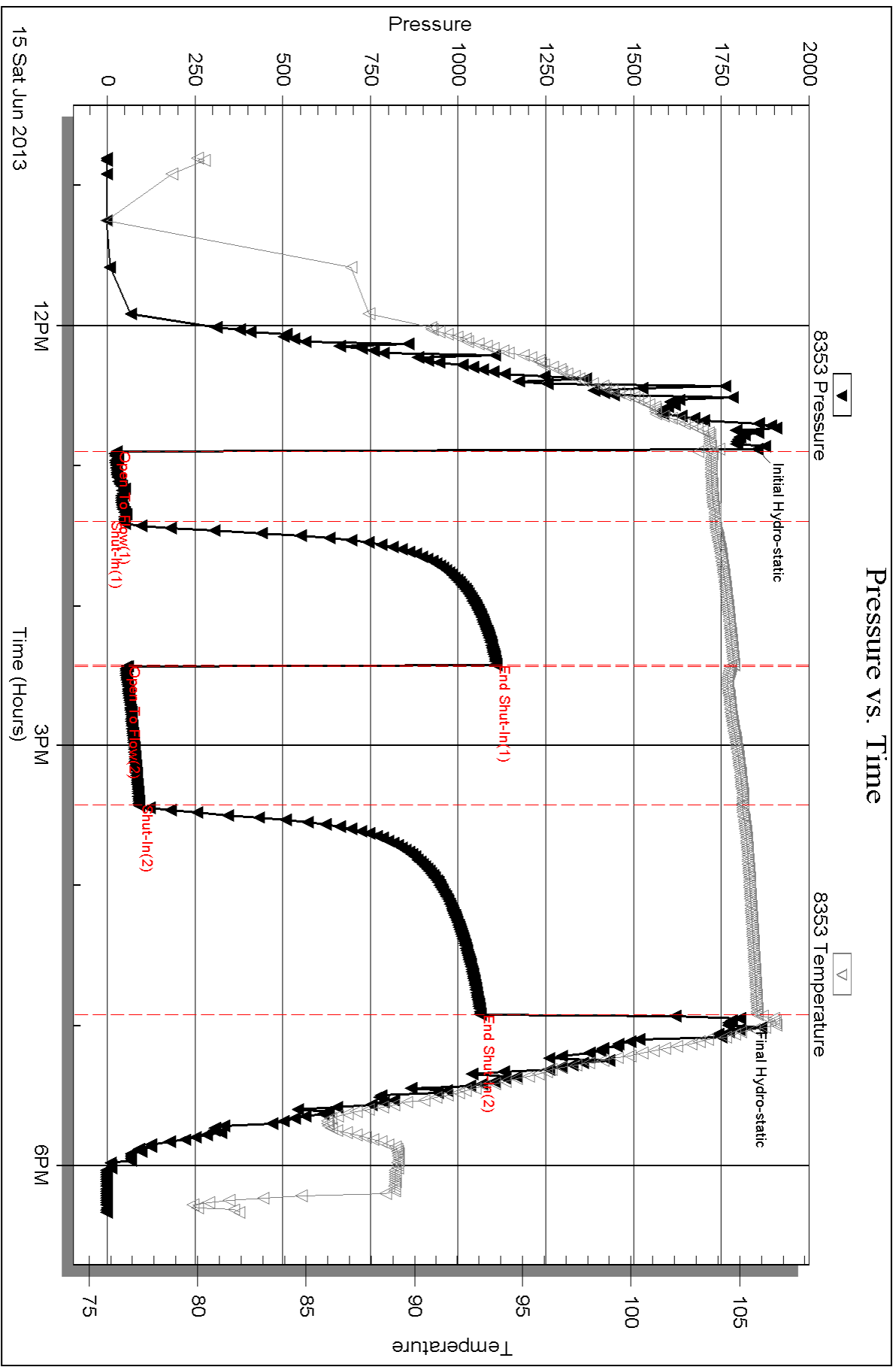
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .701@94.6=6000



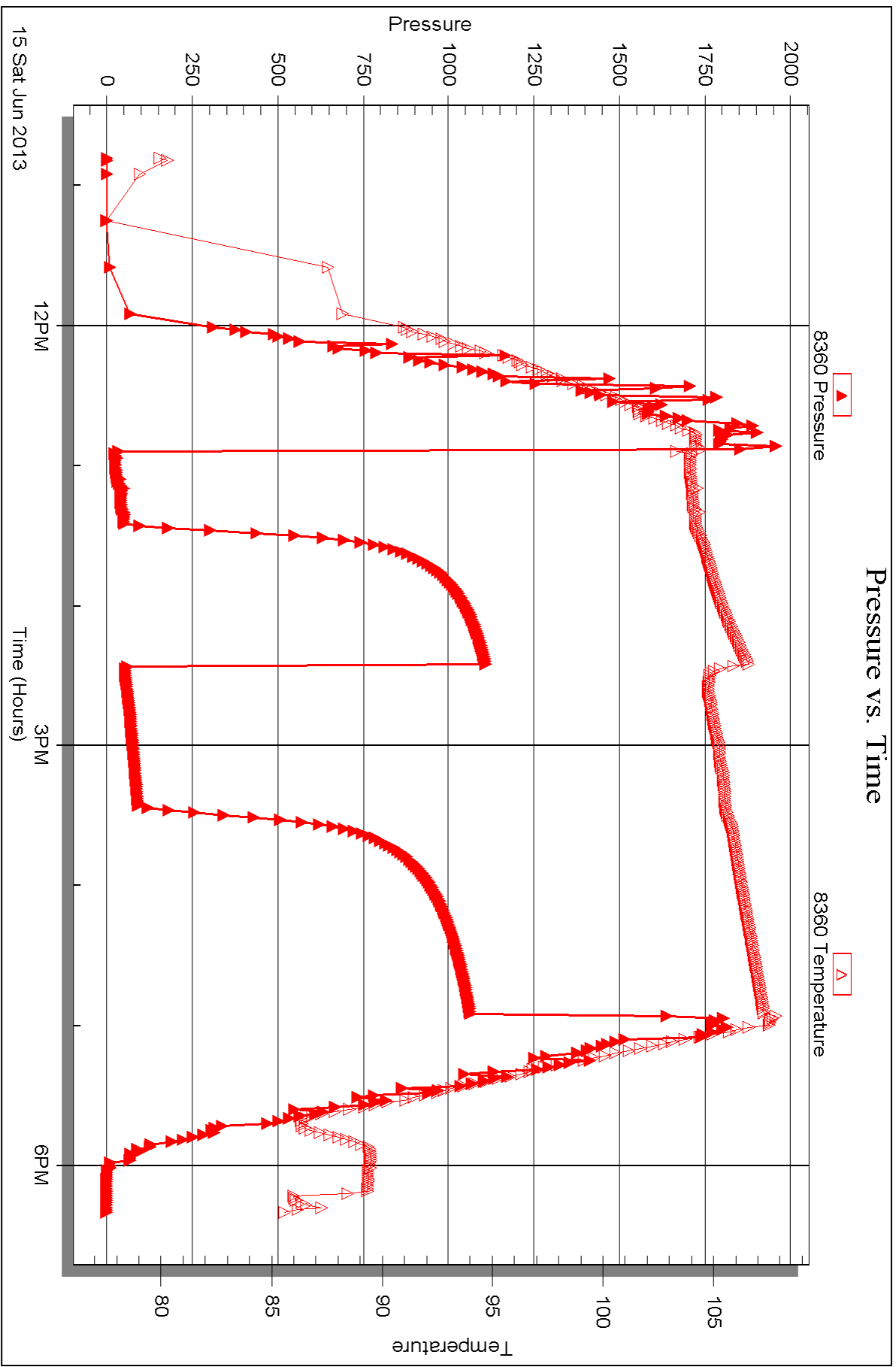
Serial #: 8360

Inside

Murfin Drilling Co.

Dwyer-Simoneau #1-27

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste300  
Wichita KS 67206

ATTN: Brad Rine

**Dwyer-Simoneau #1-27**

**27-5s-26w Decatur,KS**

Start Date: 2013.06.16 @ 04:00:00

End Date: 2013.06.16 @ 10:54:30

Job Ticket #: 50686                      DST #: 3

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

Printed: 2013.06.18 @ 11:06:39



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water Ste300  
 Wichita KS 67206  
 ATTN: Brad Rine

**27-5s-26w Decatur, KS**  
**Dwyer-Simoneau #1-27**  
 Job Ticket: 50686 **DST#: 3**  
 Test Start: 2013.06.16 @ 04:00:00

## GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:11:00 Tester: Wilbur Steinbeck  
 Time Test Ended: 10:54:30 Unit No: 68  
 Interval: **3725.00 ft (KB) To 3800.00 ft (KB) (TVD)** Reference Elevations: 2557.00 ft (KB)  
 Total Depth: 3800.00 ft (KB) (TVD) 2546.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

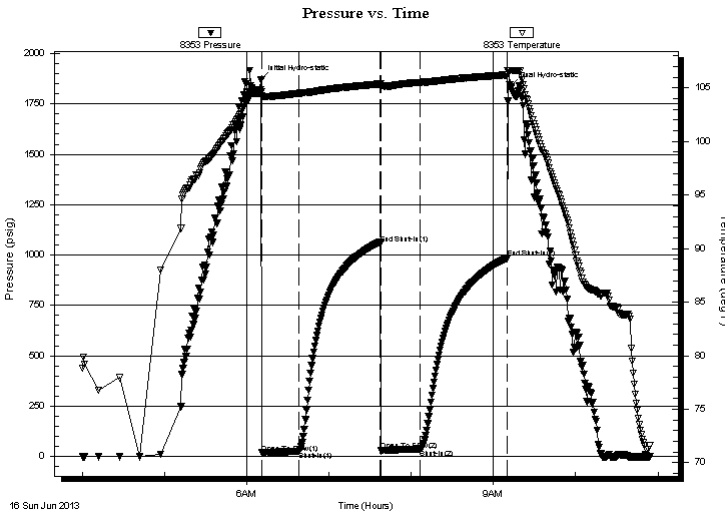
## Serial #: 8353

Outside

Press @ Run Depth: 37.83 psig @ 3726.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.16 End Date: 2013.06.16 Last Calib.: 2013.06.16  
 Start Time: 04:00:15 End Time: 10:54:30 Time On Btm: 2013.06.16 @ 06:10:30  
 Time Off Btm: 2013.06.16 @ 09:12:30

TEST COMMENT: 30 IF; Built to 3/4"  
 60 ISI; No Blow  
 30 FF; No Blow  
 60 FSI; No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.16	104.64	Initial Hydro-static
1	17.43	104.27	Open To Flow (1)
28	26.03	104.49	Shut-In(1)
87	1057.74	105.37	End Shut-In(1)
88	28.89	105.22	Open To Flow (2)
116	37.83	105.53	Shut-In(2)
180	984.62	106.22	End Shut-In(2)
182	1834.83	106.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N. Water Ste300  
 Wichita KS 67206  
 ATTN: Brad Rine

**27-5s-26w Decatur, KS**  
**Dwyer-Simoneau #1-27**  
 Job Ticket: 50686 **DST#: 3**  
 Test Start: 2013.06.16 @ 04:00:00

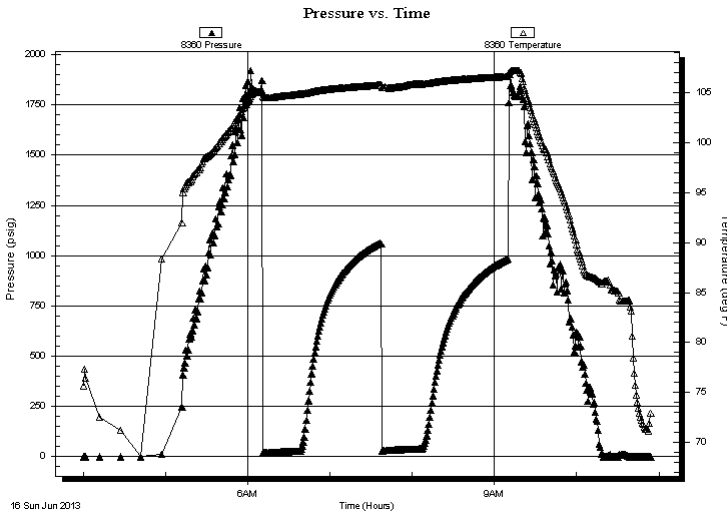
### GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:11:00 Tester: Wilbur Steinbeck  
 Time Test Ended: 10:54:30 Unit No: 68  
**Interval: 3725.00 ft (KB) To 3800.00 ft (KB) (TVD)**  
 Reference Elevations: 2557.00 ft (KB)  
 Total Depth: 3800.00 ft (KB) (TVD) 2546.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8360** **Inside**  
 Press @ Run Depth: psig @ 3726.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.16 End Date: 2013.06.16 Last Calib.: 2013.06.16  
 Start Time: 04:00:15 End Time: 10:54:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 IF; Built to 3/4"  
 60 IS; No Blow  
 30 FF; No Blow  
 60 FS; No Blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* 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.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50686

**DST#: 3**

ATTN: Brad Rine

Test Start: 2013.06.16 @ 04:00:00

## Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.80 inches	Volume: 49.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.15 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3725.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3697.00	
Shut In Tool	5.00			3702.00	
Hydraulic tool	5.00			3707.00	
Jars	5.00			3712.00	
Safety Joint	3.00			3715.00	
Packer	5.00			3720.00	29.00 Bottom Of Top Packer
Packer	5.00			3725.00	
Stubb	1.00			3726.00	
Recorder	0.00	8360	Inside	3726.00	
Recorder	0.00	8353	Outside	3726.00	
Perforations	37.00			3763.00	
change Over Sub	1.00			3764.00	
blank spacing	32.00			3796.00	
change Over Sub	1.00			3797.00	
Bullnose	3.00			3800.00	75.00 Bottom Packers & Anchor

**Total Tool Length: 104.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**27-5s-26w Decatur,KS**

250 N. Water Ste300  
Wichita KS 67206

**Dwyer-Simoneau #1-27**

Job Ticket: 50686

**DST#: 3**

ATTN: Brad Rine

Test Start: 2013.06.16 @ 04:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 75.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

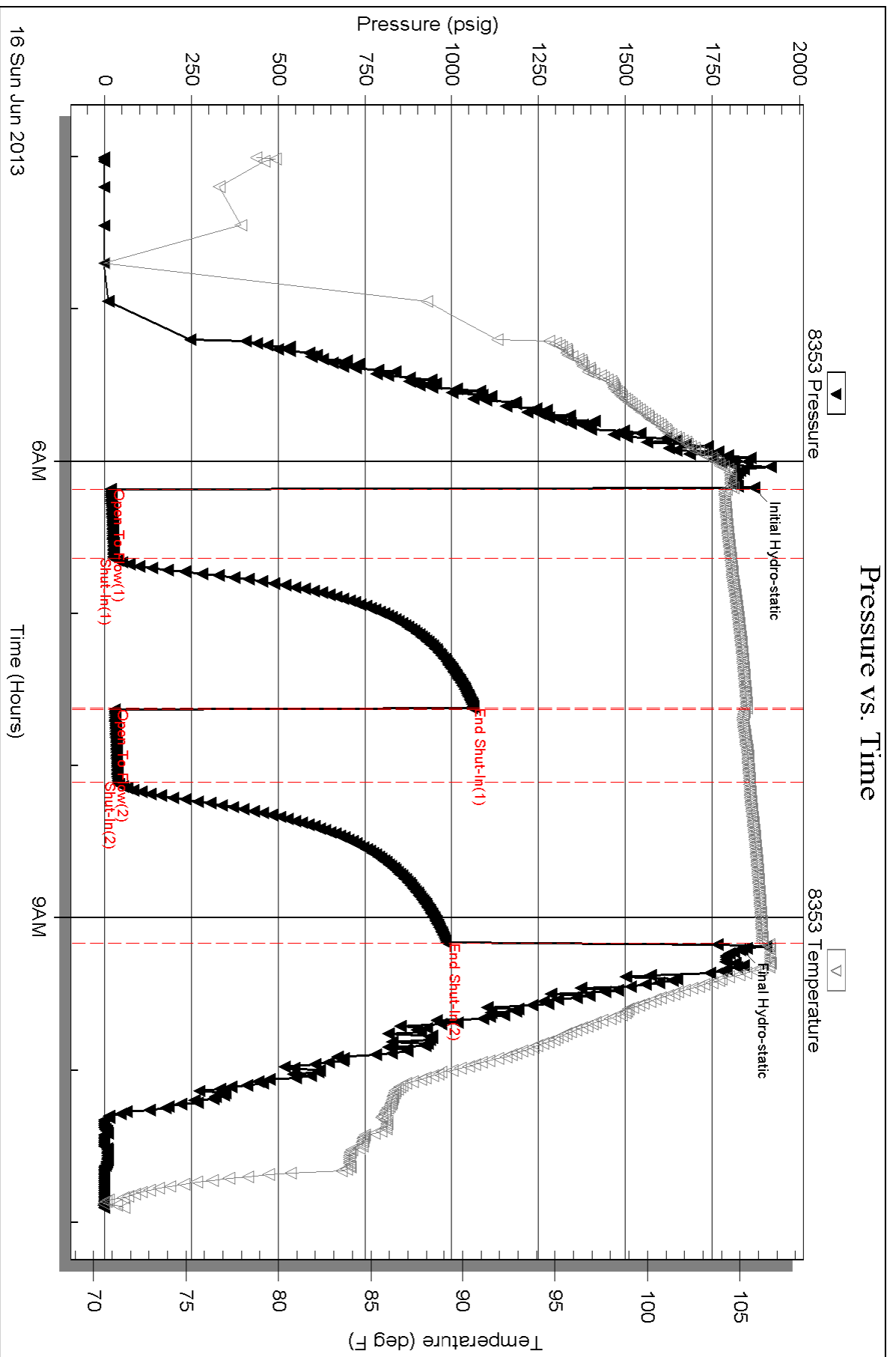
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



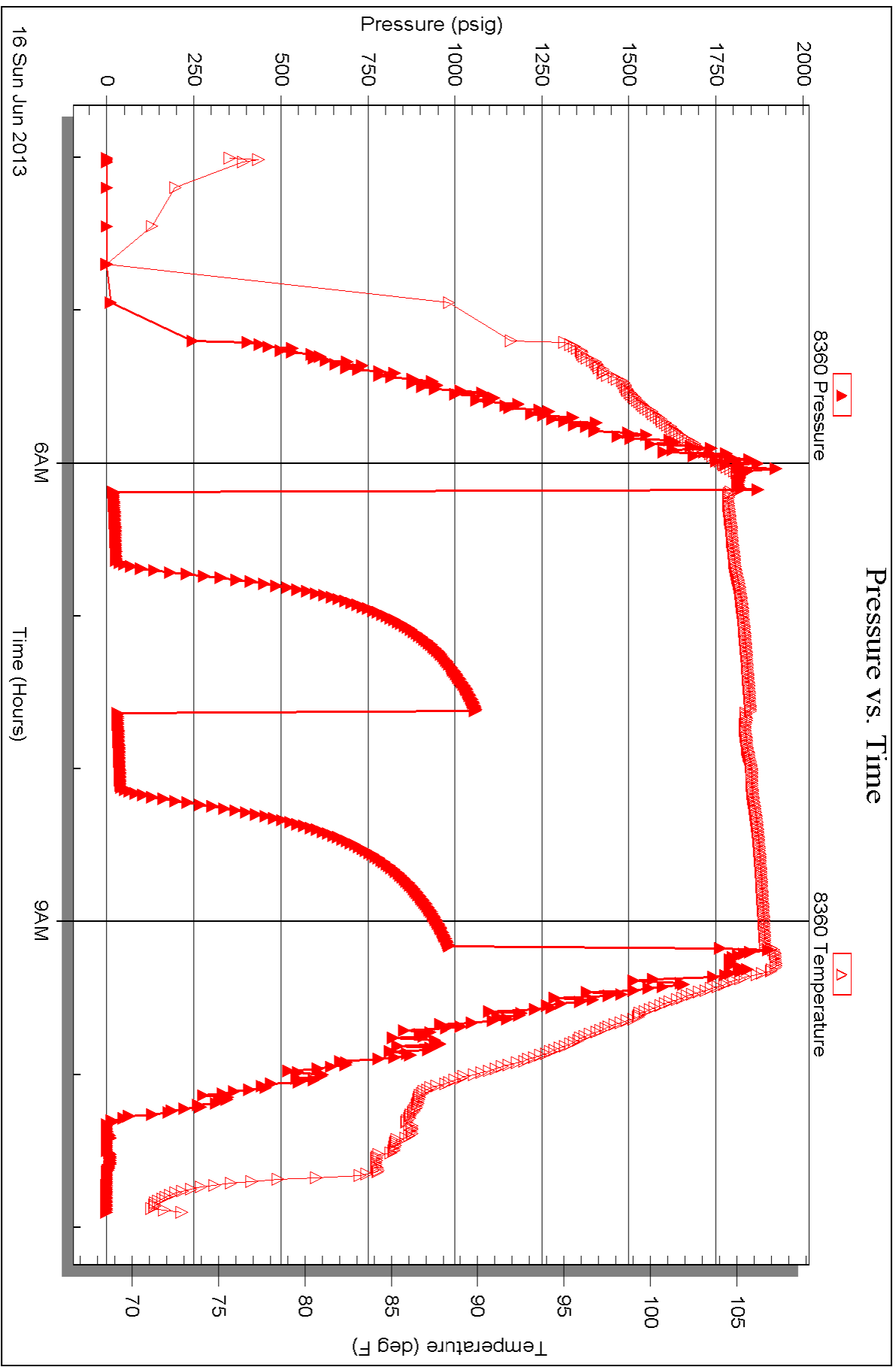
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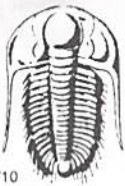
Inside

Murfin Drilling Co.

Dwyer-Simoneau #1-27

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50684

Well Name & No. Dwyer-Simoncau # 1-27 Test No. 2 Date 6-14-13  
 Company Murfin Drilling Co Elevation 2557 KB 2546 GL  
 Address 250 N Water St 300 Wichita Ks 67206  
 Co. Rep / Geo. Brad Rinc Rig Murfin 2  
 Location: Sec. 27 Twp. 5s Rge. 26w Co. Dreator State Ks

Interval Tested 3621 3687 Zone Tested Lan A, B, D  
 Anchor Length 66' Drill Pipe Run 3373 Mud Wt. 9.2  
 Top Packer Depth 3616 Drill Collars Run 234 Vis 65  
 Bottom Packer Depth 3621 Wt. Pipe Run 0 WL \_\_\_\_\_  
 Total Depth 3687 Chlorides 900 ppm System LCM 5

Blow Description 1F; Built to 2"  
151; No blow  
FF; Built to 3 1/2"  
PSI; No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

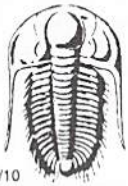
Rec Total 210 BHT 106° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,824  Test 1150 T-On Location 17:25  
 (B) First Initial Flow 23  Jars 250 T-Started 19:00  
 (C) First Final Flow 59  Safety Joint 75 T-Open 21:15  
 (D) Initial Shut-In 1,189  Circ Sub NA T-Pulled 1:15  
 (E) Second Initial Flow 64  Hourly Standby T-Out 3:00  
 (F) Second Final Flow 117  Mileage 80 RT 124 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,141  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,735  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1849  
 Sub Total 1849  MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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. 50685

4/10

Well Name & No. Puyru - Simonsen #1-27 Test No. 2 Date 6-15-13  
 Company Murfin Drilling Co. Elevation 2557 KB 2546 GL  
 Address 250 N. Water Ste 300 Wichita Ks 67206  
 Co. Rep / Geo. Brad Rine Rig Murfin 2  
 Location: Sec. 27 Twp. S5 Rge. 26W Co. Decatur State Ks

Interval Tested 3677 3718 Zone Tested Lon F, G  
 Anchor Length 41 Drill Pipe Run 3434 Mud Wt. 8.9  
 Top Packer Depth 3672 Drill Collars Run 234 Vis 70  
 Bottom Packer Depth 3677 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3718 Chlorides 900 ppm System LCM 6

Blow Description IF; Built to 2' 1/2"  
1st; No Blow  
FF; Built to 2"  
FSI; No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>MCW</u>		<u>65</u>	<u>35</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 150 BHT 1070 Gravity \_\_\_\_\_ API RW .701 @ 94.6 °F Chlorides 6000 ppm

(A) Initial Hydrostatic 1,851  Test 1150 T-On Location 10:20  
 (B) First Initial Flow 27  Jars 250 T-Started 10:48  
 (C) First Final Flow 48  Safety Joint 75 T-Open 12:55  
 (D) Initial Shut-In 1,109  Circ Sub NA T-Pulled 18:55  
 (E) Second Initial Flow 55  Hourly Standby \_\_\_\_\_ T-Out 18:20  
 (F) Second Final Flow 91  Mileage 80 RT <sub>124</sub> Comments \_\_\_\_\_  
 (G) Final Shut-In 1,065  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,802  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1599  
 Sub Total 1599  MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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. 50686

4/10

Well Name & No. Pwyer - Simonau #1-27 Test No. 3 Date 6-16-13  
 Company Murfin Drilling Co. Elevation 2557 KB 2546 GL  
 Address 250 N Water Stc 300 Wichita Ks 67206  
 Co. Rep / Geo. Brad Rine Rig Murfin 2  
 Location: Sec. 27 Twp. S5 Rge. 26W Co. Decatur State Ks

Interval Tested 3725 3800 Zone Tested Lgn H, I, J, K  
 Anchor Length 75 Drill Pipe Run 3493 Mud Wt. 9.2  
 Top Packer Depth 3720 Drill Collars Run 234 Vis 72  
 Bottom Packer Depth 3725 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3800 Chlorides 1,300 ppm System LCM 5

Blow Description 1F; Built to 3/4"  
1st; No Blow  
2F; No Blow  
3rd; No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 5 BHT 107° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,869</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:40</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:00</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:10</u>
(D) Initial Shut-In <u>1,058</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>9:10</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:55</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>80 RT</u> <u>124</u>	Comments <u>Loaded Tools</u>
(G) Final Shut-In <u>985</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,835</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

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1599

Total 1599  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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.

Acct  
Lit

# ALLIED

OIL & GAS SERVICES, LLC

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 136777

Invoice Date: Jun 11, 2013

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Now Includes:



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

Customer ID	Field Ticket #	Payment Terms	
Murfin	60311	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 11, 2013	7/11/13

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Dwyer-Simones #1-27		
		Class A Common	17.90	2,953.50
6.00	MAT	Chloride	64.00	384.00
173.25	SER	Cubic Feet	2.48	429.66
487.38	SER	Ton Mileage	2.60	1,267.21
1.00	SER	Surface	1,512.25	1,512.25
61.00	SER	Pump Truck Mileage	7.70	469.70
1.00	SER	Swedge Manifold Rental	275.00	275.00
61.00	SER	Light Vehicle Mileage	4.40	268.40
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Chris Helpingstine		

Account	Unit Rig	W	No.	Amount	Description
ED 203	3.		1822.0001	5159.46	Cement S. Csg. ~ 1-27

Subtotal	7,559.72
Sales Tax	243.64
Total Invoice Amount	7,803.36
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,803.36</b>

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

\$ 2,645.90

ONLY IF PAID ON OR BEFORE

Jul 6, 2013

12 (2645.90)  
5159.46

# ALLIED OIL & GAS SERVICES, LLC 060311

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley

DATE <u>6-11-13</u>	SEC. <u>27</u>	TWP. <u>5</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 Am</u>	JOB FINISH <u>9:30 Am</u>
Dwyer-Simons LEASE		WELL # <u>1-27</u>		LOCATION <u>Allison 2E - N + W into</u>		COUNTY <u>Deatur</u>	STATE <u>Ks.</u>
OLD OR NEW (Circle one) <input checked="" type="checkbox"/> OLD <input type="checkbox"/> NEW							

CONTRACTOR Mucin #2 OWNER Same

TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 225'  
 CASING SIZE 8 7/8 DEPTH 222'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH

CEMENT AMOUNT ORDERED 165 SKs Com 3%CC  
 COMMON 165 SKs @ \$17.92 \$2953.20  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC 6 SKs @ \$64.00 \$384.00

PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 13.24

EQUIPMENT  
 PUMP TRUCK CEMENTER Darren Cabeza  
 # 422 HELPER Tyler Ellipse  
 BULK TRUCK  
 # 396-306 DRIVER Chris Halpingstine  
 BULK TRUCK DRIVER

HANDLING 173.25 of x @ \$2.48 \$429.65  
 MILEAGE 2.82 x 61 @ \$2.60 \$1267.21  
 TOTAL \$5034.32

REMARKS:  
mix 165 SKs Cement  
Displace with water  
Cement Did Circulate

SERVICE  
 DEPTH OF JOB 222'  
 PUMP TRUCK CHARGE @ \$1312.25  
 EXTRA FOOTAGE @  
 MILEAGE 61 @ \$7.70 \$469.70  
 MANIFOLD Swedge @ \$275.00  
LW mileage @ \$4.40 \$268.40

CHARGE TO: Mucin  
 STREET  
 CITY STATE ZIP

TOTAL \$2525.35  
 PLUG & FLOAT EQUIPMENT

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 7,559.72  
 DISCOUNT 2,645.90 IF PAID IN 30 DAYS  
4,913.81 Net.

PRINTED NAME Arnico Cabezas  
 SIGNATURE Arnico Cabezas



# ALLIED OIL & GAS SERVICES, LLC

PO Box 93999  
Southlake, TX 76092

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

# INVOICE

*acct. Prod-24*

Invoice Number: 136901  
Invoice Date: Jun 16, 2013  
Page: 1

Now Includes:



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

Customer ID	Field Ticket #	Payment Terms	
Murfin	60330	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jun 16, 2013	7/16/13

Quantity	Item	Description	Unit Price	Amount
135.00	MAT	Dwyer Simoneau #1-27	17.90	2,416.50
90.00	MAT	Class A Common	9.35	841.50
8.00	MAT	Pozmix	23.40	187.20
56.00	MAT	Gel	2.97	166.32
236.65	SER	Flo Seal	2.48	586.89
615.48	SER	Cubic Feet	2.60	1,600.27
1.00	SER	Ton Mileage	2,483.59	2,483.59
61.00	SER	Plug to Abandon	7.70	469.70
61.00	SER	Pump Truck Mileage	4.40	268.40
1.00	EQP	Light Vehicle Mileage	107.64	107.64
1.00	CEMENTER	8.5/8 Wooden Plug		
1.00	EQUIP OPER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
		David Scariano		
<i>ID203 3. 1822.0001</i>			<i>6599.55</i>	<i>PTA # 1-27</i>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF *3%*

\$ 3,194.80 *ok*

ONLY IF PAID ON OR BEFORE Jul 11, 2013

Subtotal	9,128.01
Sales Tax	666.34
Total Invoice Amount	9,794.35
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,794.35</b>

*-3194.80*

*6599.55*

*SR*

# ALLIED OIL & GAS SERVICES, LLC 060330

Federal Tax I.D. # 20-8661476

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Oakley, KS

DATE <u>6-16-13</u>	SEC. <u>27</u>	TWR. <u>5</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION <u>4:30 am</u>	JOB START <u>7:00 am</u>	JOB FINISH <u>7:00 am</u>
LEASE <u>Sitona</u>	WELL # <u>1-27</u>	LOCATION <u>Allison 2E, nd winto</u>			COUNTY <u>Decatur</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Merfin #2

TYPE OF JOB PYA

HOLE SIZE 7 7/8 T.D. 3220'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

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

DRILL PIPE 1 1/2 DEPTH 2200'

COLL \_\_\_\_\_ DEPTH \_\_\_\_\_

RES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

WEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

EMENT LEFT IN CSG. \_\_\_\_\_

ERFS. \_\_\_\_\_

ISPLACEMENT 27.73 bbl

EQUIPMENT \_\_\_\_\_

UMP TRUCK CEMENTER Lafana S. Zebate

423/281 HELPER Paul Beaver

ULK TRUCK \_\_\_\_\_

347 DRIVER David Scariano

JLK TRUCK \_\_\_\_\_

DRIVER \_\_\_\_\_

OWNER Same.

CEMENT AMOUNT ORDERED 225 sks 60/40 4%  
1/4 # flo-seal.

COMMON	<u>135 sks @ 12.70</u>	<u>2416.50</u>
POZMIX	<u>90 sks @ 9.35</u>	<u>841.50</u>
GEL	<u>87 lbs @ 23.90</u>	<u>1879.20</u>
CHLORIDE	@	
ASC	@	
<u>Flo-seal</u>	<u>56 # @ 2.97</u>	<u>166.32</u>
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>23665 ft @ 2.48</u>	<u>586.89</u>
MILEAGE	<u>10.27 hrs @ 61 X 2.60</u>	<u>1600.27</u>
TOTAL		<u>5298.68</u>

REMARKS:

21X 25 sks 2200'

21X 100 sks 1375'

4X 40 sks 275'

2X 105 sks w/ plug 40'

Log 24th 205 sks

Log RA-305 sks

Thank you

ARGE TO: Merfin Drilling

EET \_\_\_\_\_

Y \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>2200'</u>	
PUMP TRUCK CHARGE		<u>2988.59</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MTH</u>	<u>61 @ 7.70</u>	<u>469.70</u>
MANIFOLD	@	
<u>MTH</u>	<u>61 @ 9.90</u>	<u>2684.00</u>
	@	
TOTAL		<u>3221.69</u>

PLUG & FLOAT EQUIPMENT

<u>Wooden plug</u>	@	<u>102.64</u>
	@	
	@	
	@	
	@	
TOTAL		<u>102.64</u>

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

ED NAME Arria Cabezas

ATURE Arria Cabezas

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 9,128.01

DISCOUNT 3,194.80 IF PAID IN 30 DAYS

5,933.20 Net.