



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1157825  
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: \_\_\_\_\_



1157825

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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> _____ <i>(Submit ACO-4)</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 09, 2013

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

Re: ACO1  
API 15-039-21176-00-00  
Kathka Farms 1-2  
SE/4 Sec.02-02S-29W  
Decatur County, Kansas

Dear Production Department:

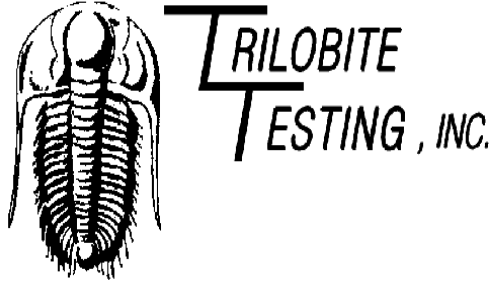
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

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

Respectfully,  
Leon Rodak

MDCI Kathka Farms #1-2 1050' FSL 2600' FEL Sec. 2-T2S-R29W 2725' KB							MDCI DCFY Unit #1-11 2450' FNL 2150' FEL Sec. 11-T2S-R29W 2719' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2426	+299	+17	2427	+298	+16	2437	+282
B/Anhydrite	2458	+267	+18	2458	+267	+18	2470	+249
Neva	3109	-384	+13	3109	-384	+13	3116	-397
Topeka	3493	-768	+14	3492	-767	+13	3501	-782
Heebner	3649	-924	+18	3650	-925	+17	3661	-942
Lansing	3694	-969	+16	3695	-970	+15	3704	-985
Stark	3859	-1134	+15	3866	-1141	+8	3868	-1149
BKC	3914	-1189	+11	3914	-1189	+11	3919	-1200
RTD	4000						4025	
LTD				4001			4022	





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300  
Wichita KS 67202

ATTN: Bob Stozle

### **Kathka Farms #1-2**

### **2-2s-29w Decatur,KS**

Start Date: 2013.05.19 @ 03:00:00

End Date: 2013.05.19 @ 10:09:30

Job Ticket #: 52592                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.28 @ 12:00:59



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE 300  
 Wichita KS 67202  
 ATTN: Bob Stozle

**2-2s-29w Decatur, KS**  
**Kathka Farms #1-2**  
 Job Ticket: 52592 **DST#: 1**  
 Test Start: 2013.05.19 @ 03:00:00

## GENERAL INFORMATION:

Formation: **Lan A-D**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 05:19:30 Tester: Wilbur Steinbeck  
 Time Test Ended: 10:09:30 Unit No: 44  
 Interval: **3653.00 ft (KB) To 3760.00 ft (KB) (TVD)** Reference Elevations: 2725.00 ft (KB)  
 Total Depth: 3760.00 ft (KB) (TVD) 2720.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

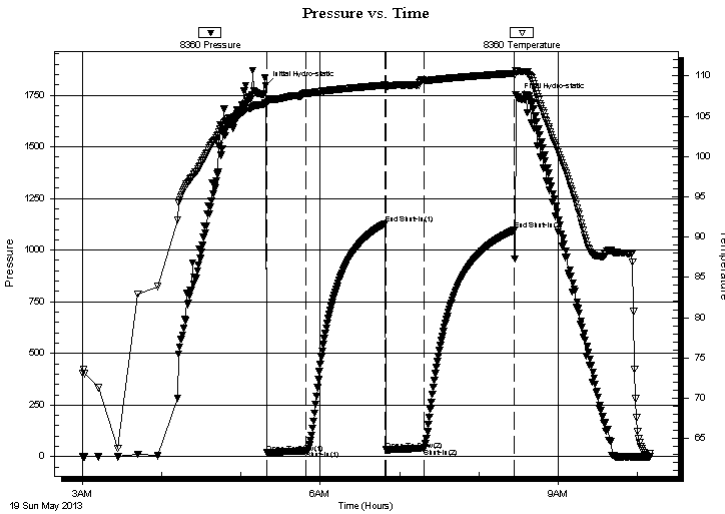
## Serial #: 8360

Inside

Press @ Run Depth: 41.44 psig @ 3654.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.19 End Date: 2013.05.19 Last Calib.: 2013.05.19  
 Start Time: 03:00:15 End Time: 10:09:30 Time On Btm: 2013.05.19 @ 05:18:30  
 Time Off Btm: 2013.05.19 @ 08:28:30

TEST COMMENT: 30 IF; Built to 1 1/4"  
 60 ISI; No Blow  
 30 FF; No Blow  
 60 FSI; No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.68	106.67	Initial Hydro-static
1	18.14	106.54	Open To Flow (1)
31	29.61	107.84	Shut-In(1)
91	1129.60	108.87	End Shut-In(1)
91	32.53	108.50	Open To Flow (2)
120	41.44	109.47	Shut-In(2)
188	1096.56	110.33	End Shut-In(2)
190	1740.54	110.61	Final Hydro-static

## Recovery

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

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**2-2s-29w Decatur, KS**

250 N Water STE 300  
Wichita KS 67202

**Kathka Farms #1-2**

Job Ticket: 52592

**DST#: 1**

ATTN: Bob Stozle

Test Start: 2013.05.19 @ 03:00:00

## Tool Information

Drill Pipe:	Length: 3477.00 ft	Diameter: 3.80 inches	Volume: 48.77 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.66 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3653.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	134.00 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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Shut In Tool	5.00			3631.00	
Hydraulic tool jars	5.00			3636.00	
safety Joint	3.00			3641.00	
Packer	5.00			3649.00	27.00 Bottom Of Top Packer
Packer	4.00			3653.00	
Stubb	1.00			3654.00	
Recorder	0.00	8360	Inside	3654.00	
Recorder	0.00	8353	Outside	3654.00	
Perforations	7.00			3661.00	
Change Over Sub	1.00			3662.00	
Blank Spacing	94.00			3756.00	
Change Over Sub	1.00			3757.00	
Bullnose	3.00			3760.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co.

**2-2s-29w Decatur, KS**

250 N Water STE 300  
Wichita KS 67202

**Kathka Farms #1-2**

Job Ticket: 52592

**DST#: 1**

ATTN: Bob Stozle

Test Start: 2013.05.19 @ 03:00:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

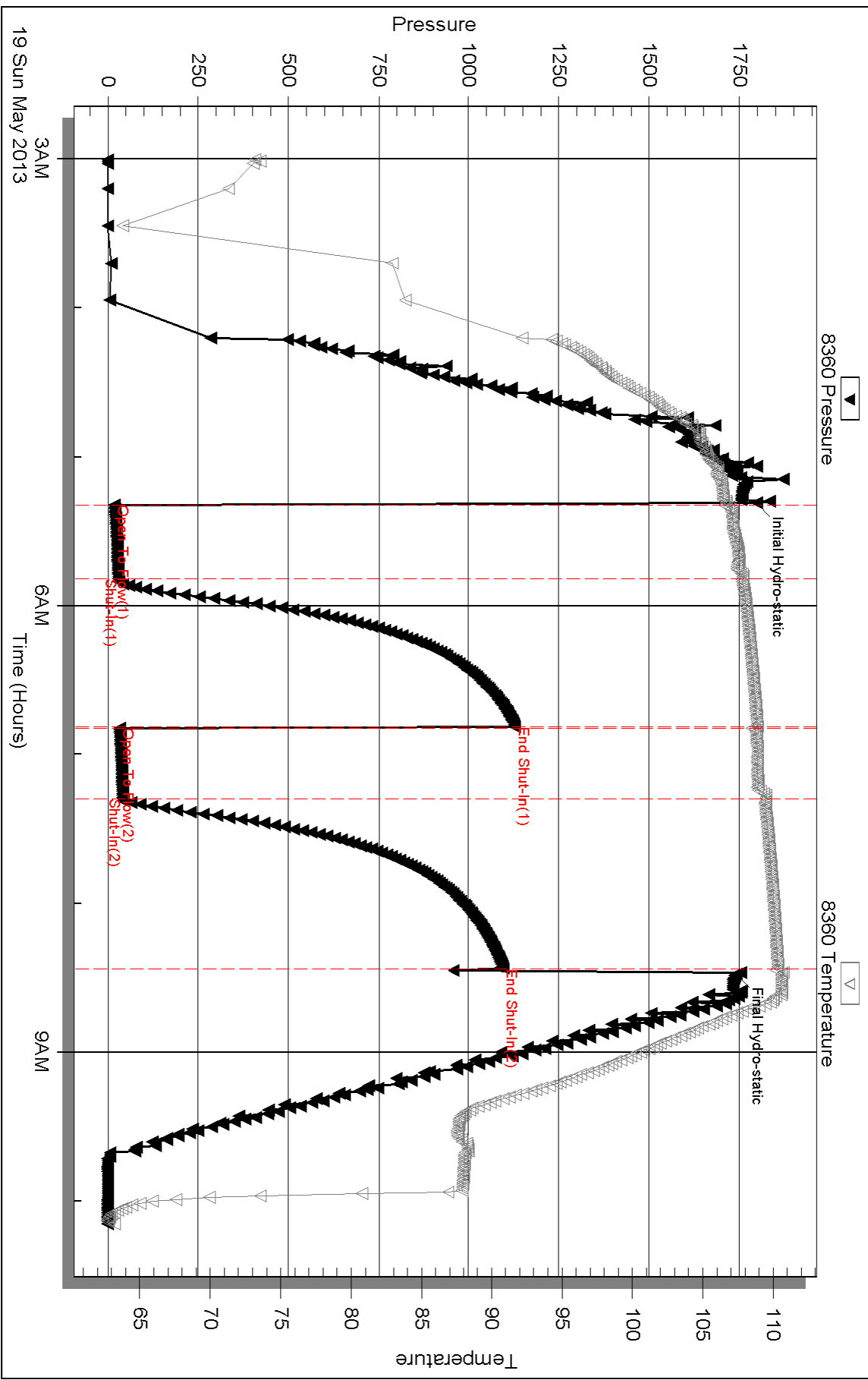
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

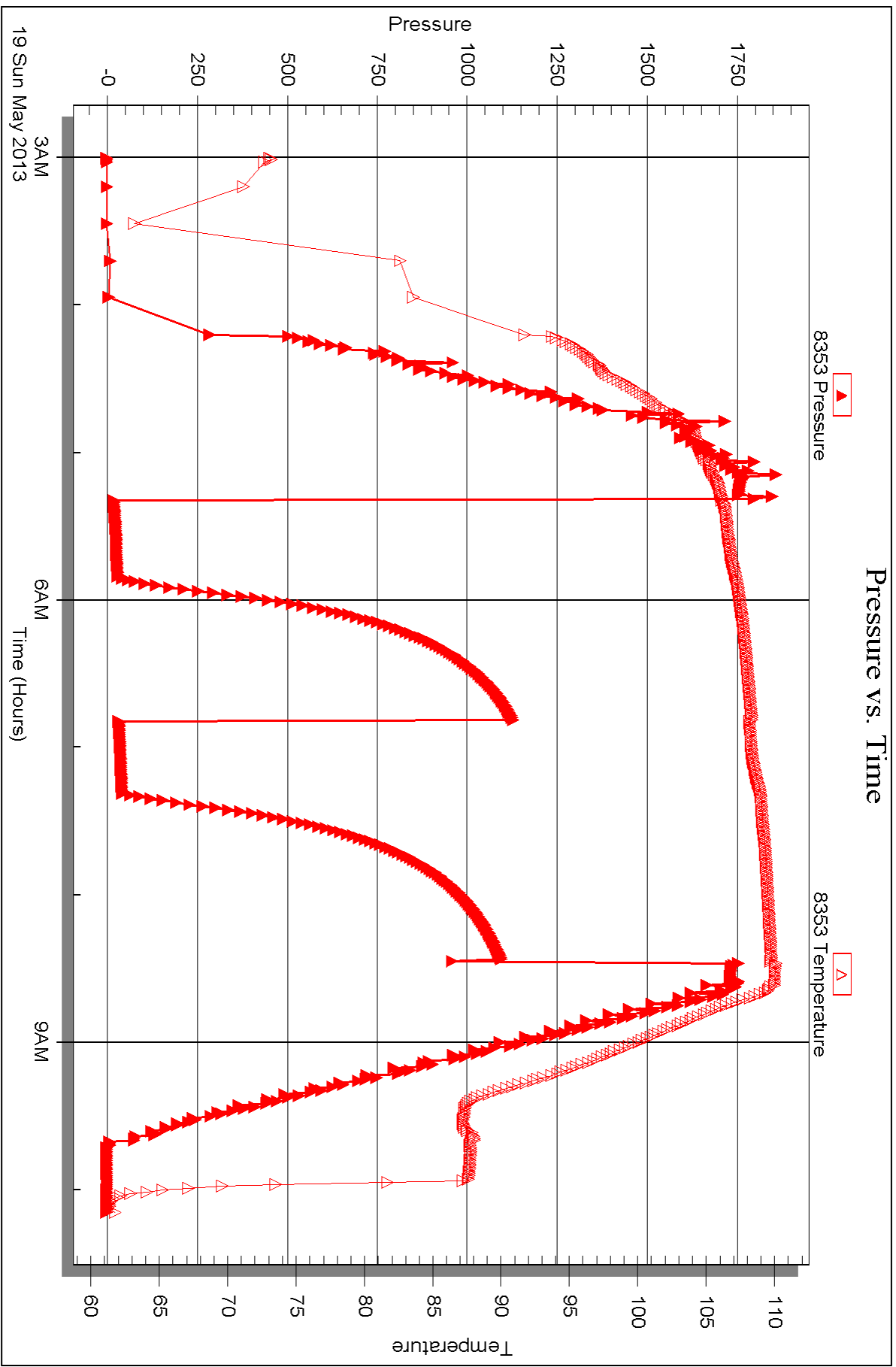


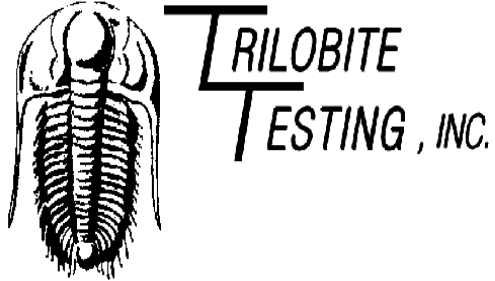
Serial #: 8353

Outside Murfin Drilling Co.

Kathka Farms #1-2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300  
Wichita KS 67202

ATTN: Bob Stozle

### **Kathka Farms #1-2**

### **2-2s-29w Decatur,KS**

Start Date: 2013.05.19 @ 22:27:00

End Date: 2013.05.20 @ 05:17:45

Job Ticket #: 52593                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.28 @ 12:00:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE 300  
 Wichita KS 67202  
 ATTN: Bob Stozle

**2-2s-29w Decatur, KS**  
**Kathka Farms #1-2**  
 Job Ticket: 52593 **DST#: 2**  
 Test Start: 2013.05.19 @ 22:27:00

## GENERAL INFORMATION:

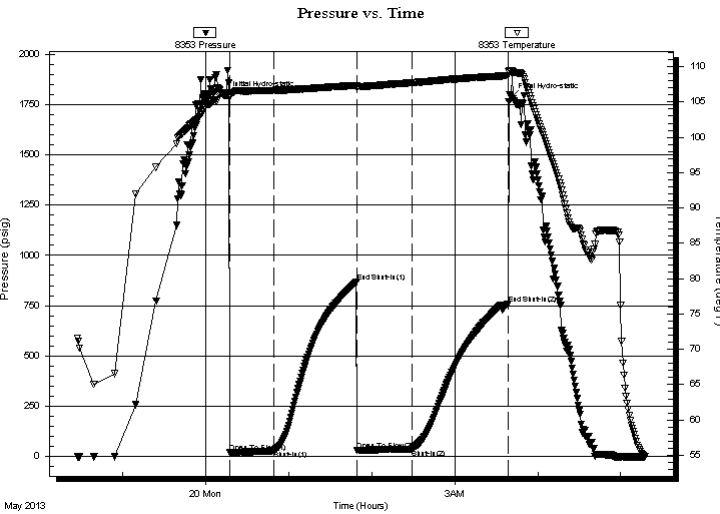
Formation: **LKC G-J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:17:00 Tester: Wilbur Steinbeck  
 Time Test Ended: 05:17:45 Unit No: 44  
 Interval: **3752.00 ft (KB) To 3855.00 ft (KB) (TVD)** Reference Elevations: 2725.00 ft (KB)  
 Total Depth: 3855.00 ft (KB) (TVD) 2720.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 8353

Outside

Press @ Run Depth: 37.50 psig @ 3753.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.19 End Date: 2013.05.20 Last Calib.: 2013.05.20  
 Start Time: 22:27:15 End Time: 05:17:45 Time On Btm: 2013.05.20 @ 00:14:30  
 Time Off Btm: 2013.05.20 @ 03:40:30

TEST COMMENT: 30 IF; Built to 1 1/4"  
 60 IS; No Blow  
 30 FF; Surface blow died in 10 min  
 60 FS; No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.00	106.35	Initial Hydro-static
3	18.70	105.58	Open To Flow (1)
35	28.37	106.65	Shut-In(1)
95	868.55	107.37	End Shut-In(1)
95	31.47	107.04	Open To Flow (2)
135	37.50	107.74	Shut-In(2)
204	758.89	108.73	End Shut-In(2)
206	1782.78	109.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 1%O 99%M	0.05

\* 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.

**2-2s-29w Decatur, KS**

250 N Water STE 300  
Wichita KS 67202

**Kathka Farms #1-2**

Job Ticket: 52593

**DST#: 2**

ATTN: Bob Stozle

Test Start: 2013.05.19 @ 22:27:00

## Tool Information

Drill Pipe:	Length: 3578.00 ft	Diameter: 3.80 inches	Volume: 50.19 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.08 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3752.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	130.00 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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Shut In Tool	5.00			3730.00	
Hydraulic tool jars	5.00			3735.00	
safety Joint	3.00			3740.00	
Packer	5.00			3748.00	27.00 Bottom Of Top Packer
Packer	4.00			3752.00	
Stubb	1.00			3753.00	
Recorder	0.00	8360	Inside	3753.00	
Recorder	0.00	8353	Outside	3753.00	
Perforations	5.00			3758.00	
Change Over Sub	1.00			3759.00	
Blank Spacing	92.00			3851.00	
Change Over Sub	1.00			3852.00	
Bullnose	3.00			3855.00	103.00 Bottom Packers & Anchor

**Total Tool Length: 130.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**2-2s-29w Decatur, KS**

250 N Water STE 300  
Wichita KS 67202

**Kathka Farms #1-2**

Job Ticket: 52593

**DST#: 2**

ATTN: Bob Stozle

Test Start: 2013.05.19 @ 22:27:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 1%O 99%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

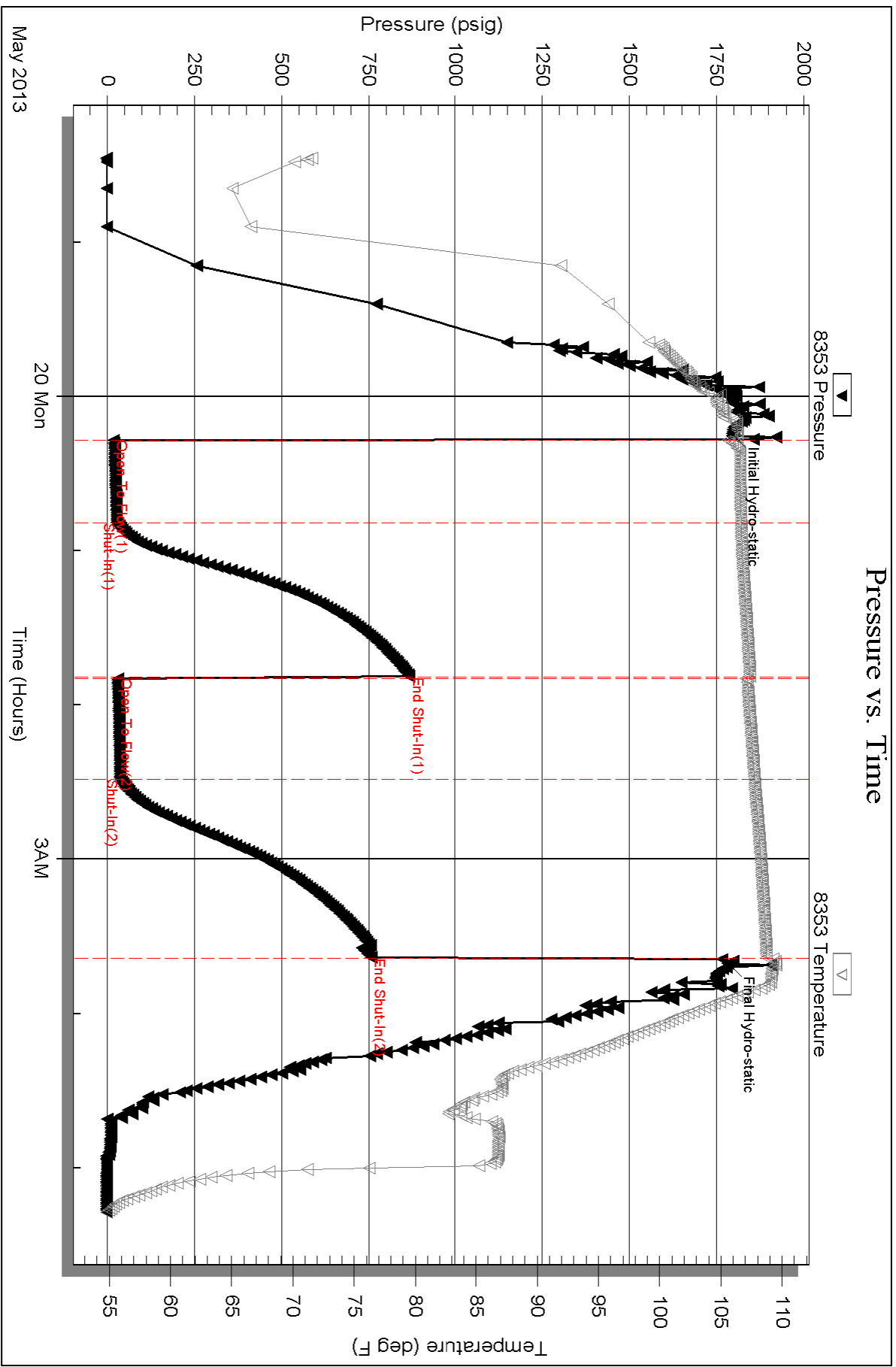
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



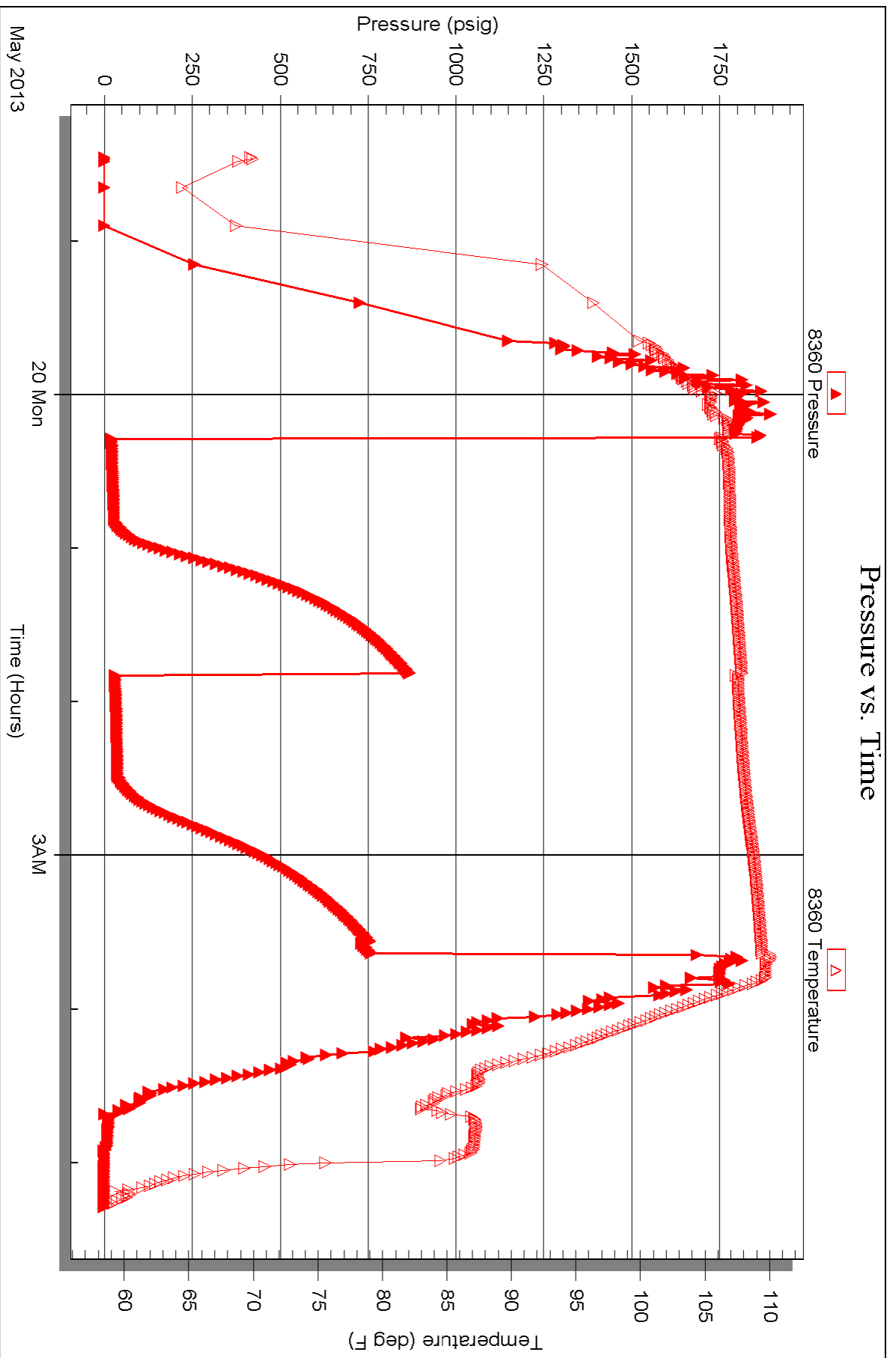
Serial #: 8360

Inside

Murfin Drilling Co.

Kathka Farms #1-2

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52592

4/10

Well Name & No. Kathka Farms 1-2 Test No. 1 Date 5-19-13  
 Company Murkin Drilling Co. Elevation 2725 KB 2720 GL  
 Address 250 N Water St E 300 Wichita KS 67202  
 Co. Rep / Geo. Bob Stalc Rig Murkin 8  
 Location: Sec. 2 Twp. 2s Rge. 29w Co. Dicador State Ks

Interval Tested 3653 3760 Zone Tested lan A-D  
 Anchor Length 107 Drill Pipe Run 3477 Mud Wt. 8.9  
 Top Packer Depth 3648 Drill Collars Run 180 Vis 56  
 Bottom Packer Depth 3653 Wt. Pipe Run 0 WL 5-6  
 Total Depth 3760 Chlorides 1,000 ppm System LCM 6

Blow Description IF: Bault to 1'4"  
IS: No blow  
FP: No blow  
BS: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mod</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 111° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,797  Test 1150 T-On Location 1:30  
 (B) First Initial Flow 18  Jars 250 T-Started 3:00  
 (C) First Final Flow 30  Safety Joint 75 T-Open 5:20  
 (D) Initial Shut-In 11:30  Circ Sub NA T-Pulled 8:20  
 (E) Second Initial Flow 33  Hourly Standby T-Out 10:10  
 (F) Second Final Flow 41  Mileage 12 RT 18.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1097  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1741  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 1493.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1493.60

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. 52593

4/10

Well Name & No. Kathka Farm #1-2 Test No. 2 Date 5-19-13  
 Company Morfin Drilling Co Elevation 2725 KB 2720 GL  
 Address 250 N. Water Ste 300 Wichita Ks 67202  
 Co. Rep / Geo. Bob Stolzle Rig Morfin 8  
 Location: Sec. 2 Twp. 27 Rge. 29a Co. Decatur State Ks

Interval Tested 3752 - 3855 Zone Tested LKC GH+J  
 Anchor Length 103 Drill Pipe Run ~~3578~~ 3578 Mud Wt. 9.0  
 Top Packer Depth 3747 Drill Collars Run 180 Vis 54  
 Bottom Packer Depth 3752 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3855 Chlorides 1,400 ppm System LCM 6

Blow Description IF Built to 1 1/4"  
ISL No blow  
FF Surface blow Dried on 10 min  
ISL No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OSM</u>		<u>1</u>	<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 1090 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,795  Test 1150 T-On Location 22:00  
 (B) First Initial Flow 19  Jars 250 T-Started 22:27  
 (C) First Final Flow 28  Safety Joint NA 75 T-Open 12:20  
 (D) Initial Shut-In 869  Circ Sub \_\_\_\_\_ T-Pulled 3:20  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 5:15  
 (F) Second Final Flow 38  Mileage 12 RT X 2 37.20 Comments Loaded 5-21-13  
 (G) Final Shut-In 759  Sampler \_\_\_\_\_ @ 4:00 AM  
 (H) Final Hydrostatic 1,783  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 1512.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1512.20

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.



PO Box 93999  
Southlake, TX 76092

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

*acet  
Prod-LH*

# INVOICE

Invoice Number: 136444

Invoice Date: May 21, 2013

Page: 1

Now Includes:



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

Customer ID	Field Ticket #	Payment Terms	
Murfin	60778	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	May 21, 2013	6/20/13

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Kathka Farms #1-2 Class A Common	17.90	2,362.80
88.00	MAT	Pozmix	9.35	822.80
8.00	MAT	Gel	23.40	187.20
55.00	MAT	Flo Seal	2.97	163.35
233.24	SER	Cubic Feet	2.48	578.46
591.96	SER	Ton Mileage	2.60	1,539.10
1.00	SER	Rotary Plug	2,483.59	2,483.59
60.00	SER	Pump Truck Mileage	7.70	462.00
60.00	SER	Light Vehicle Mileage	4.40	264.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	David Scariano		

*OKD*

Subtotal	8,970.94
Sales Tax	654.88
Total Invoice Amount	9,625.82
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,625.82</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF *7/6*

\$ 3,139.82 *mw*

ONLY IF PAID ON OR BEFORE  
Jun 15, 2013

*- 3139.82*  
*6,486.00*

# ALLIED OIL & GAS SERVICES, LLC 060778

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dakley, K

DATE <u>5/21/13</u>	SEC. <u>2</u>	TWP. <u>2</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30am</u>	JOB FINISH <u>9:30pm</u>
LEASE <u>Kathka Fawell #</u>	<u>1-2</u>	LOCATION <u>Okla in 5 N 1/2 W Ninto</u>			COUNTY <u>Decker</u>	STATE <u>Ky</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murphy & P  
 TYPE OF JOB PTA Rotary  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER Same  
 CEMENT AMOUNT ORDERED 220 60/40 479 gal  
114 PLO

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan  
 # 402 HELPER Wayne Mabighy  
 BULK TRUCK DRIVER David Scariano  
 # 510  
 BULK TRUCK DRIVER \_\_\_\_\_  
 # \_\_\_\_\_

COMMON	<u>132</u>	@ <u>17.20</u>	<u>2362.80</u>
POZMIX	<u>80</u>	@ <u>3.25</u>	<u>262.00</u>
GEL	<u>8</u>	@ <u>23.20</u>	<u>185.60</u>
CHLORIDE		@	
ASC		@	
	<u>PLO Seal 55 lb</u>	@ <u>2.97</u>	<u>163.35</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>233,249 CF</u>	@ <u>2.48</u>	<u>578.46</u>
MILEAGE	<u>227 mi/mile 9.866</u>	<u>700</u>	<u>1539.10</u>
			TOTAL <u>5765.31</u>

REMARKS:  
25 sil @ 17.20  
20 sil @ 17.20  
40 sil @ 3.00  
60 sil @ 4.00  
30 sil Rot Hole  
15 sil Mercal Hole

SERVICE

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE 2483.37  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 60 miles @ 7.70 462.00  
 MANIFOLD @ \_\_\_\_\_  
470 vehicle 60 miles @ 4.40 264.00  
 @ \_\_\_\_\_

TOTAL 3209.59

CHARGE TO: Murphy Drilling  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

8" Wood Plug @ 107.64  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_

TOTAL 107.64

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 8,970.94  
 DISCOUNT 3,139.82 IF PAID IN 30 DAYS  
5,831.11 Net.

PRINTED NAME Radney Fawell  
 SIGNATURE Radney Fawell



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 136313  
Invoice Date: May 15, 2013  
Page: 1

**PROD COPY**

Now Includes:



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

Customer ID	Field Ticket #	Payment Terms	
Murfin	60294	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 15, 2013	6/14/13

Quantity	Item	Description	Unit Price	Amount
210.00	MAT	Kathka Farms #1-2		
7.00	MAT	Class A Common	17.90	3,759.00
220.49	SER	Chloride	64.00	448.00
610.20	SER	Cubic Feet	2.48	546.82
1.00	SER	Ton Mileage	2.60	1,586.52
60.00	SER	Surface	1,512.25	1,512.25
1.00	SER	Pump Truck Mileage	7.70	462.00
1.00	SER	Swedge Manifold Rental	275.00	275.00
60.00	SER	Light Vehicle Mileage	4.40	264.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Chris Helpingstine		

Account	Unit Rig	W L	No	Amount	Description
ED203				6061.77	Cement S. G. #1-2
3.				4239.0001	

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

**\$ 3,098.93**

ONLY IF PAID ON OR BEFORE  
**Jun 9, 2013**

Subtotal	8,853.59
Sales Tax	307.11
Total Invoice Amount	9,160.70
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,160.70</b>

*PK11*

*(3098.93)*  
*6061.77*



# ALLIED OIL & GAS SERVICES, LLC 060294

Federal Tax I.D. # 20-8651475

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

SERVICE POINT  
*Oakley*

DATE <i>5/15/13</i>	SEC. <i>2</i>	TWP. <i>2</i>	RANGE <i>29</i>	CALLED OUT	ON LOCATION	JOB START <i>9:45 PM</i>	JOB FINISH <i>4:45 PM</i>
LEASE <i>Kathka Farms</i>	WELL # <i>1-2</i>	LOCATION <i>Oberlin 5N-1/2W-Ninto</i>	COUNTY <i>Deatur</i>	STATE <i>Ks</i>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Murfin #8* OWNER *Same*

TYPE OF JOB *Surface*  
HOLE SIZE *12 1/4* T.D. *249.57'*  
CASING SIZE *8 5/8* DEPTH *249.57'*  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT

CEMENT AMOUNT ORDERED *210 SKs Com 39600*  
COMMON *210 SKs @ \$17.20 \$3759.00*  
POZMIX @  
GEL @  
CHLORIDE *7 SKs @ \$64.00 \$448.00*  
ASC @

CEMENT LEFT IN CSG. *15'*  
PERFS.  
DISPLACEMENT *14.87*  
EQUIPMENT  
PUMP TRUCK CEMENTER *Darren Racotte*  
# *120* HELPER *Tyler Flipse*  
BULK TRUCK # *373-308* DRIVER *Chris Helpingstine*  
BULK TRUCK # DRIVER

HANDLING *220.49* @ *\$2.48* *\$546.82*  
MILEAGE *10.17 X 60 X* @ *\$2.60* *\$1586.53*  
TOTAL *\$6340.34*

REMARKS:  
*mix 210 SKs Cement*  
*Displace with water*  
*Cement did circulate*

SERVICE  
DEPTH OF JOB  
PUMP TRUCK CHARGE *\$1512.35*  
EXTRA FOOTAGE @  
MILEAGE *60* @ *\$7.70* *\$462.00*  
MANIFOLD *Sledge* @ *\$375.00*  
*LV mileage* @ *4.40* *\$264.00*

CHARGE TO: *Murfin*  
STREET  
CITY STATE ZIP  
TOTAL *\$2513.75*

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.

PRINTED NAME *Robert J. ...*  
SIGNATURE *Robert J. ...*  
TOTAL

SALES TAX (If Any)  
TOTAL CHARGES *8,854.09*  
DISCOUNT *3,098.93* IF PAID IN 30 DAYS  
*5,755.15 Net.*