



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1197818  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1197818

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Walter 4-1
Doc ID	1197818

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated

MDCI Walter #4-1 765' FNL 1860' FEL Sec. 1-T1S-R36W 3136' KB							MDCI Walter #2-1 330' FNL 1360' FEL Sec. 1-T1S-R36W 3117' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3066	+70	Flat	3063	+73	+3	3047	+70
B/Anhydrite	3085	+51	+16	3101	+35	Flat	3082	+35
Neva	3546	-410	+8	3547	-411	+7	3535	-418
Red Eagle	3608	-472	+8	3609	-473	+7	3597	-480
Foraker	3654	-518	+9	3655	-519	+8	3644	-527
Topeka	3863	-727	+8	3863	-727	+8	3852	-735
Oread	3971	-835	+10	3975	-839	+6	3962	-845
Lansing	4077	-941	+8	4080	-944	+5	4066	-949
Stark	4289	-1153	+7	4293	-1157	+3	4277	-1160
BKC	4340	-1204	+10	4344	-1208	+6	4331	-1214
Pawnee							DNR	
Cherokee							DNR	
RTD	4440						4432	-1315
LTD				4441			4430	-1313



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Walter #4-1**

### **1-1s-36w Rawlins,KS**

Start Date: 2013.11.10 @ 19:35:00

End Date: 2013.11.11 @ 03:57:30

Job Ticket #: 55192                      DST #: 1

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

Printed: 2013.11.15 @ 16:27:15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55192

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2013.11.10 @ 19:35:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:30

Time Test Ended: 03:57:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4096.00 ft (KB) To 4137.00 ft (KB) (TVD)**

Total Depth: 4137.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3136.00 ft (KB)

3125.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: 261.42 psig @ 4097.00 ft (KB)

Start Date: 2013.11.10

End Date:

2013.11.11

Start Time: 19:36:00

End Time:

03:57:30

Capacity: 8000.00 psig

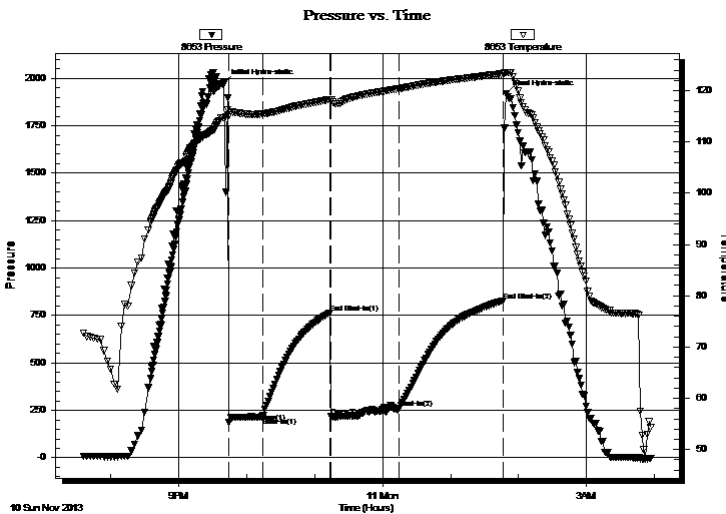
Last Calib.: 2013.11.11

Time On Btm: 2013.11.10 @ 21:40:00

Time Off Btm: 2013.11.11 @ 01:49:00

**TEST COMMENT:** 30 - IF- 1/2" Blow built to 1"  
60 - IS- No Return  
60 - FF- Surface Blow started at 5 min. Built to 1 1/4"  
90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.13	114.68	Initial Hydro-static
5	185.92	115.23	Open To Flow (1)
34	213.64	115.46	Shut-In(1)
93	761.14	118.30	End Shut-In(1)
95	216.77	118.13	Open To Flow (2)
155	261.42	120.39	Shut-In(2)
246	827.78	123.28	End Shut-In(2)
249	1916.37	123.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
405.00	Mud 100M	3.57

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55192

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2013.11.10 @ 19:35:00

## Tool Information

Drill Pipe:	Length: 3847.00 ft	Diameter: 3.80 inches	Volume: 53.96 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: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 55.10 bbl</u>	Tool Chased	15.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4096.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: tool had to be chased approx 15' to bottom

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4069.00	
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Jars	5.00			4084.00	
Safety Joint	3.00			4087.00	
Packer	5.00			4092.00	28.00 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Recorder	0.00	8653	Outside	4097.00	
Recorder	0.00	8874	Inside	4097.00	
Perforations	1.00			4098.00	
Change Over Sub	1.00			4099.00	
Drill Pipe	32.00			4131.00	
Change Over Sub	1.00			4132.00	
Bullnose	5.00			4137.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55192

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2013.11.10 @ 19:35:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
405.00	Mud 100M	3.568

Total Length: 405.00 ft      Total Volume: 3.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

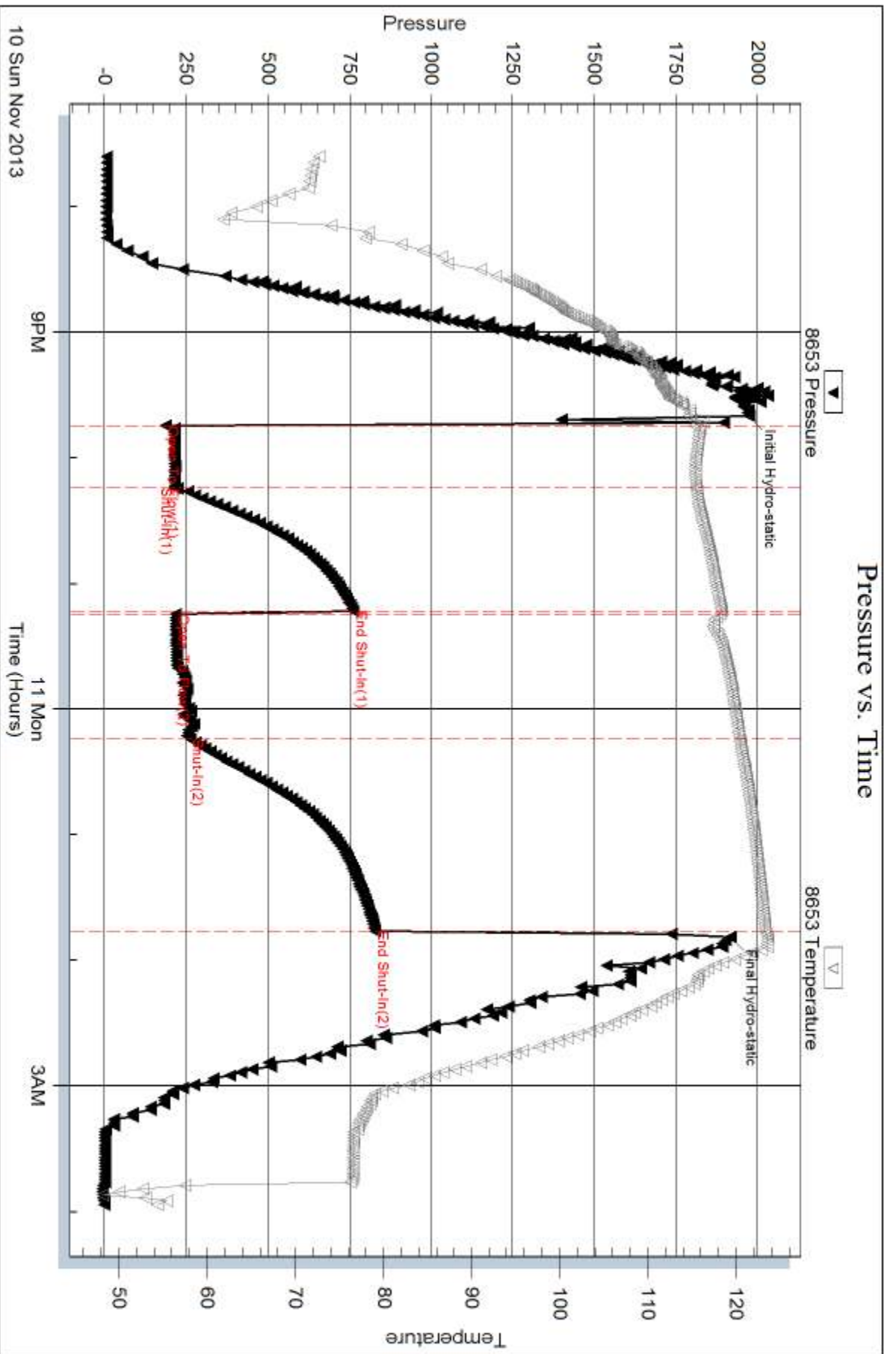
Recovery Comments:

Serial #: 8653

Outside Murfin Drilling Co.

Walter #4-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55192

Printed: 2013.11.15 @ 16:27:18

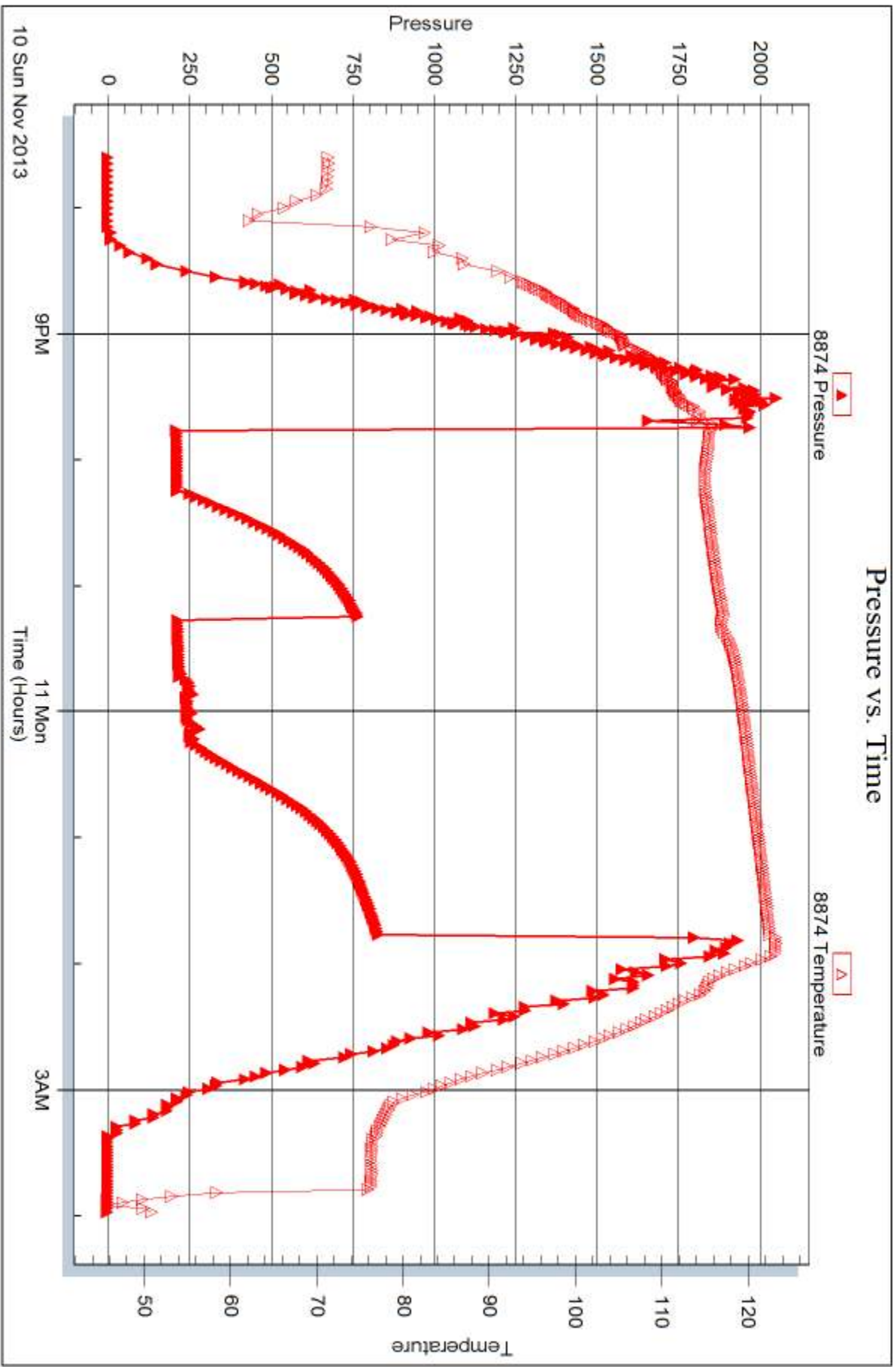
Serial #: 8874

Inside

Murfin Drilling Co.

Walter #4-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55192

Printed: 2013.11.15 @ 16:27:18



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Walter #4-1**

### **1-1s-36w Rawlins,KS**

Start Date: 2013.11.11 @ 22:43:00

End Date: 2013.11.12 @ 07:32:00

Job Ticket #: 55193                      DST #: 2

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

Printed: 2013.11.15 @ 16:26:03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55193

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2013.11.11 @ 22:43:00

## GENERAL INFORMATION:

Formation: **LKC "I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:38:10

Time Test Ended: 07:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4243.00 ft (KB) To 4286.00 ft (KB) (TVD)**

Reference Elevations: 3136.00 ft (KB)

Total Depth: 4286.00 ft (KB) (TVD)

3125.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 283.46 psig @ 4244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.11

End Date:

2013.11.12

Last Calib.:

2013.11.12

Start Time: 22:44:00

End Time:

07:32:00

Time On Btm:

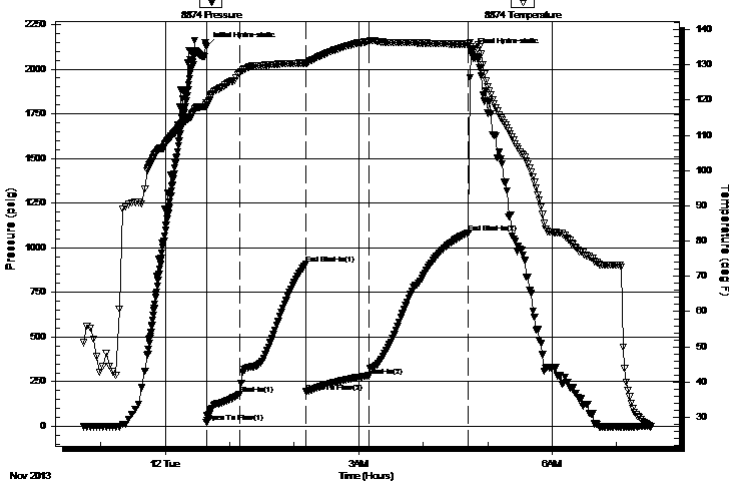
2013.11.12 @ 00:38:00

Time Off Btm:

2013.11.12 @ 04:44:30

**TEST COMMENT:** 30 - IF- BoB in 7 min.  
60 - IS- BoB in 8 min  
60 - FF- BoB in 8 min  
90 - FS- BoB in 12 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.08	119.26	Initial Hydro-static
1	21.38	118.17	Open To Flow (1)
31	177.75	127.60	Shut-In(1)
93	908.15	130.53	End Shut-In(1)
93	193.23	130.27	Open To Flow (2)
151	283.46	136.53	Shut-In(2)
244	1084.32	135.84	End Shut-In(2)
247	2090.87	135.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GMCO 20G 50o 30M	0.89
186.00	GMCO 20G 70o 10M	2.14
320.00	Clean Gassy Oil 20G 80o	4.49
0.00	2045' GIP 100G	0.00

Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55193

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2013.11.11 @ 22:43:00

## Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 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: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4243.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	3.00			4234.00	
Packer	5.00			4239.00	28.00 Bottom Of Top Packer
Packer	4.00			4243.00	
Stubb	1.00			4244.00	
Recorder	0.00	8653	Outside	4244.00	
Recorder	0.00	8874	Inside	4244.00	
Perforations	3.00			4247.00	
Change Over Sub	1.00			4248.00	
Drill Pipe	32.00			4280.00	
Change Over Sub	1.00			4281.00	
Bullnose	5.00			4286.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**1-1s-36w Rawlins,KS**

250 N. Water STE #300  
Wichita, KS 67202

**Walter #4-1**

Job Ticket: 55193

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2013.11.11 @ 22:43:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	GMCO 20G 50o 30M	0.885
186.00	GMCO 20G 70o 10M	2.135
320.00	Clean Gassy Oil 20G 80o	4.489
0.00	2045' GIP 100G	0.000

Total Length: 686.00 ft      Total Volume: 7.509 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

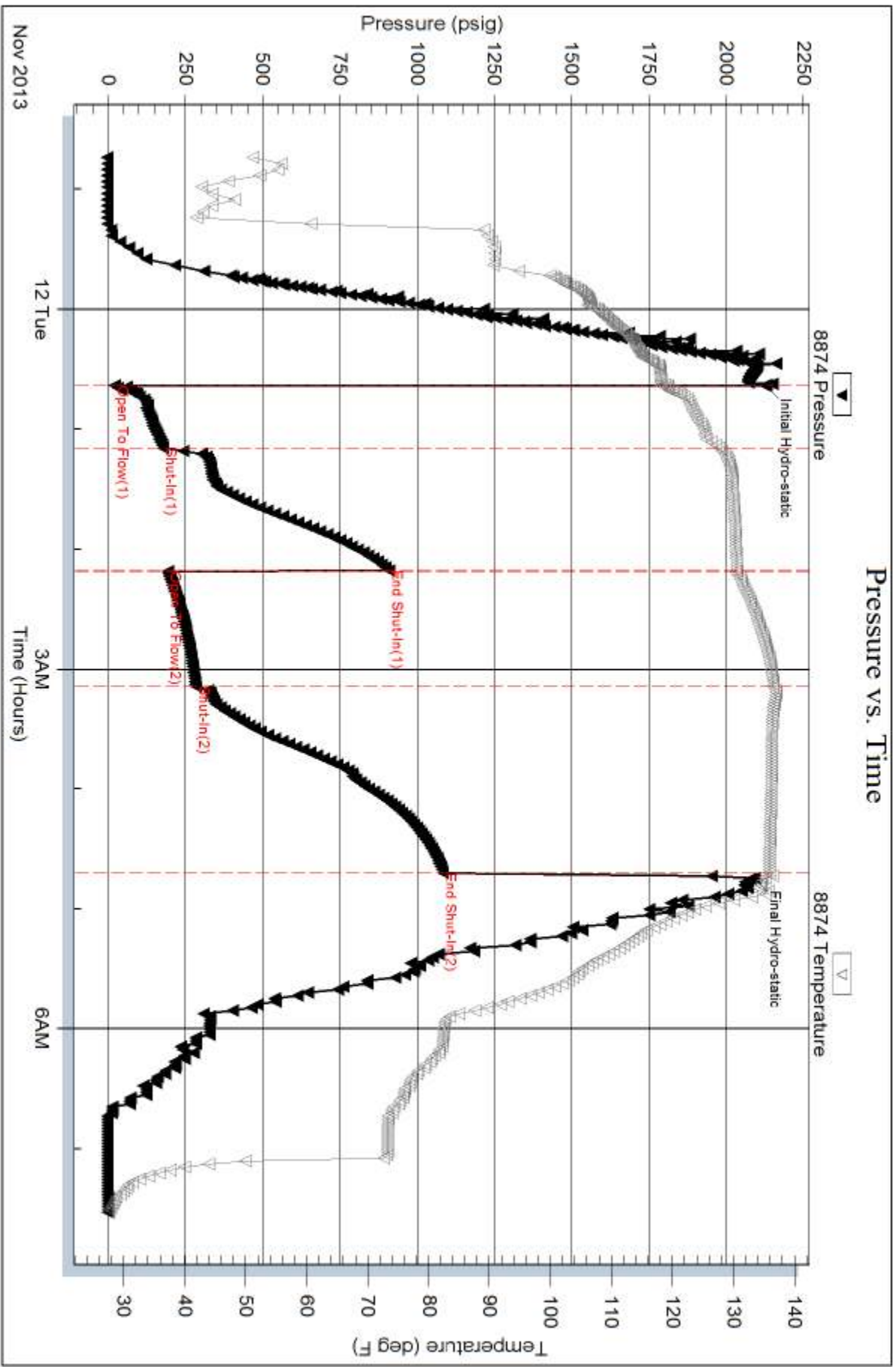
Serial #:

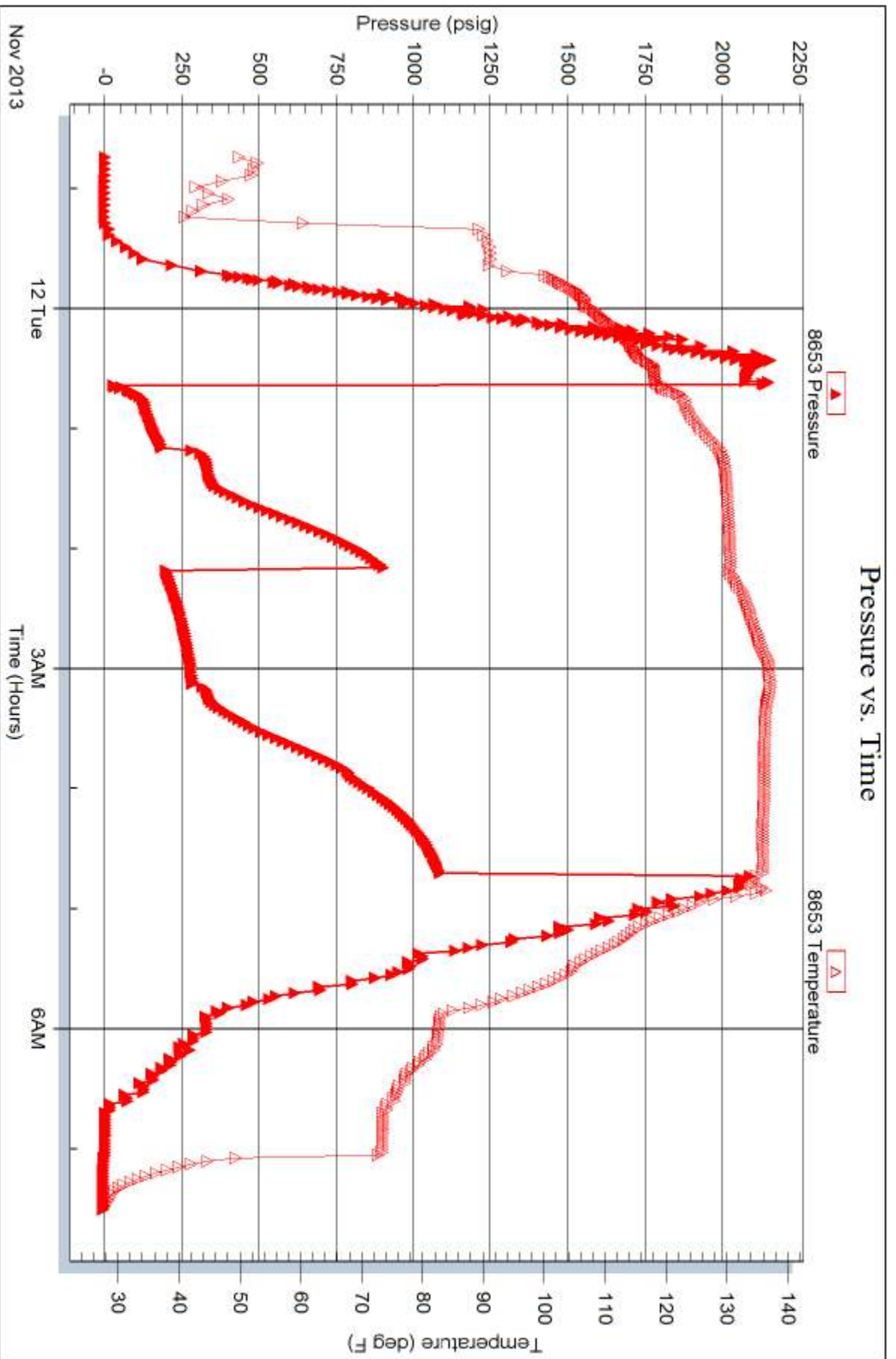
Laboratory Name:

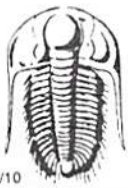
Laboratory Location:

Recovery Comments: Oil API 37 @ 70 deg. = 36 corrected









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55192

Well Name & No. Walter #4-1 Test No. 1 Date 11-10-13  
 Company Murfin Drilling Co. Elevation 3136 KB 3125 GL  
 Address 250 N Water STE #3008 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 1 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4096-4137 Zone Tested LKC"D"  
 Anchor Length 41' Drill Pipe Run 3847' Mud Wt. 9.3  
 Top Packer Depth 4092 Drill Collars Run 232' Vis 55  
 Bottom Packer Depth 4096 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4137 Chlorides 6000 ppm System LCM 3#

Blow Description IF - 1/2" Blow built to 1"  
ISI - NO Return  
FF - Surface Blow started at 5 min. Built to 1 1/4"  
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>405</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 405 BHT 123 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1974</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:15 PM</u>
(B) First Initial Flow <u>185</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:35 PM</u>
(C) First Final Flow <u>213</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:45 PM</u>
(D) Initial Shut-In <u>761</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>1:45 AM</u>
(E) Second Initial Flow <u>216</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:00 AM</u>
(F) Second Final Flow <u>261</u>	<input checked="" type="checkbox"/> Mileage <u>181.35</u>	Comments <u>Chased tool 15' to Bottom</u>
(G) Final Shut-In <u>827</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1916</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>300</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>600</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>600</u>	<input type="checkbox"/> Extra Recorder	Total <u>1756.35</u>
Final Shut-In <u>900</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1756.35</u>	

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. 55193

Well Name & No. Walter #4-1 Test No. 2 Date 11-1-13  
 Company Murfin Drilling Co. Elevation 3136 KB 3125 GL  
 Address 2538 N Walter STE # 3000 Wichita, KS 67202  
 Co. Rep / Geo. Robert Henarix Rig Murfin #2  
 Location: Sec. 1 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4243-4286 Zone Tested LKC "I, J"  
 Anchor Length 43' Drill Pipe Run 4003' Mud Wt. 9.3  
 Top Packer Depth 4239 Drill Collars Run 232 Vis 50  
 Bottom Packer Depth 4243 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4286 Chlorides 500 ppm System LCM 2#

Blow Description IF - BoB in 7 min.  
ISL - BoB in 8 min  
FF - BoB in 8 min  
FSL - BoB in 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>320</u>	<u>Clean Gassy Oil</u>	<u>20</u>	<u>80</u>		
<u>186</u>	<u>GMCO</u>	<u>20</u>	<u>70</u>	<u>10</u>	
<u>180</u>	<u>GMCO</u>	<u>20</u>	<u>50</u>	<u>30</u>	
	<u>2045' GIP</u>	<u>100</u>			

Rec Total 686 BHT 136 Gravity 36 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2125  Test 1250 T-On Location 10:15 PM  
 (B) First Initial Flow 21  Jars 250 T-Started 10:43 PM  
 (C) First Final Flow 177  Safety Joint 75 T-Open 12:40 AM  
 (D) Initial Shut-In 908  Circ Sub N/C T-Pulled 4:40 AM  
 (E) Second Initial Flow 193  Hourly Standby \_\_\_\_\_ T-Out 7:30 AM  
 (F) Second Final Flow 283  Mileage 117 RT 181.35  
 (G) Final Shut-In 1084  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2090  Straddle \_\_\_\_\_

Initial Open 300  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 1756.35  
 Sub Total 1756.35 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.



# Robert D. Hendrix

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Walter #4-1**

FIELD **KB 3136'**

LOCATION **765'nl & 1860'tel**

SEC **1** TWPSP **1S** RGE **36W**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. rig #2**

SPUD **11/6/2013** COMP **11/13/2013**

RTD **4440'** LTD **4441'**

MUD UP **3179'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3450' TO 3450' TO TD**

DRILLING TIME KEPT FROM **3450' TO TD**

SAMPLES EXAMINED FROM **3450' TO TD**

GEOLOGICAL SUPERVISION FROM **3622'**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ELECTRIC LOG

ANYHYDRITE

NEVA

FORAKER

TOPEKA

OREAD

LANSING

STARK SHALE

BKC

ELEVATIONS

KB 3136'

DF

GL 3125'

Measurements Are All From Kelly Building

CASING

CONDUCTOR

SURFACE 8-5/8" @ 271'

PRODUCTION 5 1/2" @ 4433'

ELECTRICAL SURVEYS

Possible/Undetected/Micro/Some

Promer Energy Services

Robert D. Hendrix

3053 (+83)

3546 (+10)

3655 (+518)

3863 (+27)

3974 (+838)

4077 (+941)

4294 (+1158)

4334 (+1208)

4340 (+1204)

AP# 15-153-20960

REMARKS:

### LEGEND

	Anhydrite		Sandstone		Limestone		Shale		Carb Sh		Cherty LS		Chert		Dolomite
--	-----------	--	-----------	--	-----------	--	-------	--	---------	--	-----------	--	-------	--	----------

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3050			<b>Anhydrite 3053 (+83)</b>
3100			<b>Base Anhydrite 3085 (+51)</b>
3400			TOH for change from PDC bit to Button bit.
3500		Shale: red, silty	
3500		Shale: gray, red, silty, pyritic	
3500		Shale: red, silty, sandy	8:00am, 11/9/2013
3500		Shale: red, silty, sandy	
3600		Limestone: white, f-mxn, chalky, oolitic in part, fossiliferous, no vis por, ns	<b>Neva 3546 (-410)</b>
3600		Shale: red, gray silty	
3600		Shale: red, silty, sandy	
3600		Shale: red, gray silty	
3600		Limestone: tan to white, f-mxn, chalky, silty, fossiliferous, no vis por, ns	<b>Red Eagle 3608 (-472)</b>
3600		Limestone: tan to gray, f-mxn, chalky, silty, oolitic in part, silty, fossiliferous, no vis por, ns	Geologist on location 3622' at 10:33 am 11/9/2013 wt 8.8, vis. 65, lcm 3# Morgan Mud, Troy Vanpelt
3600		Limestone: brown to gray, f-mxn, chalky, fossiliferous, no vis por, ns	
3600		Shale: red, silty	
3600		Shale: red, gray silty	
3600		Limestone: white, f-mxn, silty, fossiliferous, no vis por, ns	<b>Foraker 3654 (-518)</b>
3600		Limestone: tan to gray, f-mxn, granular, fossiliferous, no vis por, ns	
3600		Shale/Siltstone: gray, silty, hard	
3600		Limestone: tan to gray, f-mxn, silty, fossiliferous, no vis por	
3600		Shale: red, brown, gray, silty	
3600		Shale: red, gray, silty	
3600		Limestone: gray, f-mxn, silty, fossiliferous, no vis por, dark tarry stain, nfo, no odor	
3600		Limestone: tan to white, f-mxn, chalky, no vis por	
3600		Shale: red, gray, silty	
3600		Limestone: gray to tan, f-mxn, chalky, silty, no vis por	
3600		Shale: red, gray, silty	
3600		Shale: red, gray, silty	
3600		Limestone: tan, f-mxn, chalky, silty, fossiliferous, no vis por, few pieces dark tarry stain, nfo	
3600		Limestone: tan to white, f-mxn, oolitic, fossiliferous, silty, dark tarry stain, nfo, no odor	
3600		Shale: gray, red	
3600		Limestone: tan to white, f-mxn, v-chalky, silty, fossiliferous, no vis por, ns	
3600		Shale: gray, red	
3600		Limestone: white to tan, f-mxn, chalky, fossiliferous, pr vug por, 10% sample black tarry stain, silty, faint odor	
3600		Limestone: tan, f-mxn, fossiliferous, no vis por	
3600		Shale: red, gray, silty	
3600		Limestone: white to tan, f-mxn, silty, fossiliferous, no vis por	
3600		Shale: red, gray, green	
3600		Shale: red, gray, green	
3600		Limestone: white, f-mxn, silty, chalky, v-fossiliferous, no vis por, ns	
3600		Shale: red, gray, silty	
3600		Limestone: white to tan, f-mxn, dense, fossiliferous, no vis por	<b>Topeka 3863 (-727)</b>
3600		Shale: red, gray, silty	
3600		Limestone: white, f-mxn, v-chalky, fossiliferous, no vis por, spotty black stain, nfo, no odor	
3600		Shale: red, gray, silty	
3600		Limestone: white to gray, f-mxn, chalky, dense, silty, fossiliferous, no vis por	
3600		Shale: red, silty	
3600		Shale: red, silty	
3600		Limestone: white, f-mxn, oolitic in part, fossiliferous, fr oolitic por, gd dark sat stain, frsfo, fr odor	<b>Oread 3971 (-835)</b>
3600		Limestone: white to tan, f-mxn, silty, mostly dense, no vis por	
3600		Limestone: white to tan, f-mxn, chalky, silty, fossiliferous, no vis por	
3600		Limestone/siltstone: gray, f-mxn, soft in part, no vis por	
3600		Shale: gray, black, red	
3600		Limestone: gray to white, f-mxn, silty, fossiliferous, no vis por	
3600		Shale: gray, brown, red, blocky	
3600		Shale: gray, red, silty	
3600		Limestone: tan, f-mxn, mostly dense, 5% sample pr vug por, dark spotty stain, silty, faint odor	<b>Lansing 4077 (-941)</b>
3600		Limestone: tan to white, f-mxn, silty, fossiliferous, 1% sample silty, silty, dark spotty stain, nfo, no odor	8:00am, 11/10/2013 wt 9.3, vis. 55, lcm 3# Morgan Mud, Troy Vanpelt
3600		Limestone: tan, f-mxn, silty, chalky, 10% sample, fr vug por, gd dark sat stain, frsfo, fair odor	
3600		Shale: gray, green, silty, silty	
3600		Limestone: white to tan, f-mxn, silty, pyritic, fossiliferous, silty, vug por, 1% sample, silty, sat stain, silty, faint odor	
3600		Shale: red, gray, silty	
3600		Shale: red, gray, silty	
3600		Limestone: tan to white, f-mxn, silty, oolitic in part, silty, fossiliferous, gd vug por, gd silty sat stain, silty, faint odor	<b>Pipe strap 0.88' short to board</b>
3600		Limestone: white, f-mxn, silty, fossiliferous, 10% sample silty, silty, vug por, fr sat it to dark stain, silty, faint odor	8:00am, 11/11/2013
3600		Shale: red, gray, silty	
3600		Limestone: tan, f-mxn, fossiliferous, fr interxn por, it to dark spotty stain, prsfo, gd odor	
3600		Shale: red, gray, brown, silty	
3600		Limestone: white, f-mxn, chalky, no vis por, it to dark spotty stain, nfo, no odor	
3600		Limestone: white to tan, f-mxn, chalky, no vis por, it to dark spotty stain, nfo, no odor	wt 9.3, vis. 50, lcm 2# Morgan Mud, Troy Vanpelt
3600		Shale: red, brown, gray, silty	
3600		Limestone: tan, f-mxn, silty, fossiliferous, gd vug por, black sat stain, frsfo, gd odor	
3600		Shale: red, brown, gray, silty	
3600		Limestone: white to tan, f-mxn, silty, chalky, granular, silty, vug por, dark spotty to sat stain, silty, faint odor	
3600		Limestone: white to tan, f-mxn, silty, chalky, silty, fossiliferous, no vis por	
3600		Shale: red, gray, silty	
3600		Limestone: white, f-mxn, fossiliferous, fr pp to vug por, 20% sample black spotty to sat stain, frsfo, gd odor	
3600		Shale: red, gray, silty	
3600		Limestone: white, f-mxn, silty, chalky, fossiliferous, no vis por, it to dark sat stain, silty, faint odor	
3600		Limestone: tan to white, f-mxn, chalky, fossiliferous, fr interxn por, 3% sample dark sat stain, silty	<b>Stark Shale 4289 (-1153)</b>
3600		Shale: red, black, gray, brown	
3600		Shale: red, gray, brown, silty, sandy	
3600		Limestone: white, f-mxn, chalky, silty, fossiliferous, no vis por, 3 pieces black stain, nfo, faint odor	wt 9.0, vis. 62, lcm 4# Morgan Mud, Troy Vanpelt
3600		Shale: gray, red, brown	
3600		Limestone: white, f-mxn, silty, chalky, fossiliferous, no vis por	
3600		Shale: red, gray, silty	
3600		Limestone: white to tan, f-mxn, chalky, fossiliferous, no vis por, ns	<b>BKC 4340 (-1204)</b>
3600		Shale: red, gray, brown, silty	
3600		Limestone: white to tan, f-mxn, chalky, fossiliferous, no vis por	
3600		Shale: red, gray, brown, silty	
3600		Limestone: tan to tan, f-mxn, silty, chalky, granular, silty, fossiliferous, no vis por, ns	
3600		Shale: red, gray, brown	
3600		Shale: red, sandy, silty	
3600		Limestone: white to tan, f-mxn, v-chalky, silty, fossiliferous, no vis por, ns	
3600		Shale: gray, hard, silty	<b>RTD 4440 (-1304)</b>

**DST #1**  
 tool hit bridge 15' from bottom opened and then slid to bottom.  
 4096-4137  
 30-60-60-90  
 1st open: 1'2" built to 1"  
 2nd open: blow started at 5 min built to 1 1/4"  
 Rec:  
 405' mud  
 hydro: 1974-1916 psi  
 ff: 185-213 psi  
 ff: 216-261 psi  
 sip: 761-827 psi  
 bht: 123°F

**DST #2**  
 4243-4286  
 30-60-60-90  
 1st open: bob in 7 min  
 1st close: bob in 9 min  
 2nd open: bob in 8 min  
 2nd close: bob in 12 min  
 Rec:  
 320' go 20/80  
 186' gmco 10/20/70  
 180' gmco 20/30/50  
 2045' gip  
 hydro: 2125-2090 psi  
 ff: 21-177 psi  
 ff: 193-283 psi  
 sip: 106-1084 psi  
 bht: 136°F  
 gravity: 36°api



PO Box 93999  
Southlake, TX 76092

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

*acct.  
Prod-LH*

# INVOICE

Invoice Number: 139648  
Invoice Date: Nov 6, 2013  
Page: 1

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61409	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 6, 2013	12/6/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Walter #4-1		
245.00	CEMENT MATERIALS	Class A Common	17.90	4,385.50
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
257.25	CEMENT SERVICE	Cubic Feet	2.48	637.98
948.80	CEMENT SERVICE	Ton Mileage	2.60	2,466.88
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Chris Helpingstine		

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

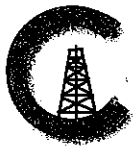
**\$ 3,787.56** *25% off*

ONLY IF PAID ON OR BEFORE  
**Dec 1, 2013**

Subtotal	10,821.61
Sales Tax	391.96
Total Invoice Amount	11,213.57
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,213.57</b>

*- 3787.56*





**CONSOLIDATED**  
Oil Well Services, LLC

*Acctg -  
cc: WFF  
cc: Lin  
cc: L-1*

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 263959

=====  
Invoice Date: 11/18/2013      Terms: 10/10/30,n/30      Page 1  
=====

MURFIN DRILLING  
P.O. BOX 288  
RUSSELL KS 67665  
( ) -

WALTER 4-1  
44467  
1-1-36  
11-13-2013  
KS

USED FOR 1C 103  
APPROVED JR

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
1101	CAL SEAL	564.00	.5200	293.28
1111A	SODIUM METASILICATE	564.00	2.5200	1421.28
1118B	PREMIUM GEL / BENTONITE	564.00	.2700	152.28
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4315	ROTATING SCRATCHERS	15.00	94.5000	1417.50
1111	SODIUM CHLORIDE (GRANULA	2.00	.0000	.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1871.42
9995-130	CEMENT EQUIPMENT DISCOUNT	-678.48

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
460 TON MILEAGE DELIVERY	1.00	1608.00	1608.00
T-127 TON MILEAGE DELIVERY	1.00	1608.00	1608.00

Amount Due 26977.36 if paid after 12/18/2013

Parts:	18714.20	Freight:	.00	Tax:	1330.57	AR	24279.62
Labor:	.00	Misc:	.00	Total:	24279.62		
Sublt:	-2549.90	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_





263959

TICKET NUMBER 44467  
 LOCATION OAKLEY KS.  
 FOREMAN DAMON M.  
WALT

PO Box 884, Chanute, KS 66720  
 820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
 CEMENT

KANSAS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
11-13-13	5406	WATER 4-1	1	1	36	Rawlins	
CUSTOMER		MURFIN DRIG.		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		BEAROSLEY N 40 STATE LINE 3 1/2 W N 16 60		399	JORDON L.		
CITY		STATE	ZIP CODE	529 T-127	STEVEN		
				460	JEREMY R.		

JOB TYPE Long STRING HOLE SIZE 7 7/8 HOLE DEPTH 4440 CASING SIZE & WEIGHT 5 1/2 #15.5  
 CASING DEPTH 4433 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 10.7-13.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING SHOE 21.04  
 DISPLACEMENT 105 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting Rigged up on MURFIN #2 RAN float equipment  
Cent 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 32, 33 BASKETS on Bottom of  
17, 33, 34 CIRC on Joint #60 for 1/2 Hour RAN rest of JOINTS  
CIRCULATED on Bottom for 1 HR. Pump 5 BBL of H2O 500 GAL of MUD  
FLUSH THEN 5 BBL of H2O mix 250 SKS CMC #1/2 FLOSEAL TAILING  
WITH 200 SKS OWC #5 KOLSEAL CLEAR PUMP AND LINES, RELEASE PLUG  
AND DISPLACED 105 BBL of H2O #1250 LIFT LANDED PLUG @ #1750 RELEASED  
PRESSURE float HOLD WASHED UP AND RIGGED DOWN. CEMENT DID NOT CIRCULATE  
MIXED 20 SKS MH  
MIXED 30 SKS RA  
 THANK YOU DAMON WALT & CREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	7.5	MILEAGE	5.25	393.75
5407A	24.5	LOW MILEAGE DELIVERY	1.75	3216.00
1126	200 SKS	OWC	23.70	4740.00
1110A	1000 #	KOLSEAL	.156	560.00
1104S	300 SKS	CLASS A CEMENT	18.55	5565.00
1102	564 #	CALCIUM CHLORIDE	.94	530.16
1101	564 #	CAL SEAL	.52	293.28
1111A	564 #	METALICATE	2.52	1421.28
1118B	564 #	BETONITE	.27	152.28
1142A	2	KCL	41.10	82.20
1144B	500 GAL	MUD FLUSH	1.00	500.00
1107	150 #	FLOSEAL	2.97	445.50
4159	1	5 1/2 AFU FLOAT SHOE (W)	433.75	433.75
4454	1	5 1/2 LATCHDOWN PLUG	567.00	567.00
4176	15	TURBOLIZERS	75.25	1136.25
4104	3	8 1/2 BASKETS	290.00	870.00
4315	15	5' SCRATCHERS	94.50	1417.50
1111	2	SALT	7.9	1330.57

SALES TAX ESTIMATED TOTAL 1330.57  
 SUBTOTAL = 25,498.95 LESS 10% 2549.90  
 TITLE TOTAL = 22949.05  
 AUTHORIZATION Alan Nehman DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.