



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1190280  
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: \_\_\_\_\_

1190280

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 <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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MDCI  
Walter Bros. #1-6  
340' FNL 530' FWL  
Sec. 6-T1S-R35W  
3229' KB

MDCI  
Walter #3-1  
330' FNL 330' FEL  
Sec. 1-T1S-R36W  
3229' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3165	+64	-11	3157	+72	-3	3154	+75
B/Anhydrite	3190	+39	+3	3192	+37	+1	3193	+36
Neva	3650	-421	-4	3651	-422	-5	3646	-417
Red Eagle	3715	-486	-6	3715	-486	-6	3709	-480
Foraker	3760	-531	-4	3763	-534	-7	3756	-527
Topeka	3970	-741	-6	3971	-742	-7	3964	-735
Oread	4079	-850	-2	4083	-854	-6	4077	-848
Lansing	4184	-955	-5	4187	-958	-8	4179	-950
Stark	4398	-1169	-9	4402	-1173	-13	4391	-1160
BKC	4450	-1221	-6	4455	-1226	-11	4444	-1215
RTD	4550	-1321					4500	-1271
LTD				4555	-1326		4502	-1273

# Robert D. Hendrix

Petroleum Geologist

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Walter Bros 1-6**

FIELD **3307fml & 5307fwi**

LOCATION **6 TWP 1 RGE 35**

COUNTY **Rawlins STATE Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. Rig 2**

SPUD **10/24/2013 COMP 11/1/2013**

RTD **4:30 LTD 4:55**

MUD UP **3195 TYPE MUD Chemical**

SAMPLES SAVED FROM **3540' TO 11D**

DRILLING TIME KEPT FROM **3540' TO 11D**

SAMPLES EXAMINED FROM **3540' TO 11D**

GEOLOGICAL SUPERVISION FROM **3604'**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ANHYDRITE

NEVA

FORAKER

TOPEKA

OREAD

LANSING

STARK

BKC

API# 15-153-20956

ELEVATIONS

KB **3229'**

DF \_\_\_\_\_

GL **3218'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR \_\_\_\_\_

SURFACE **8:58' at 263'**

PRODUCTION **5.12'**

ELECTRICAL SURVEYS

Power Energy Services

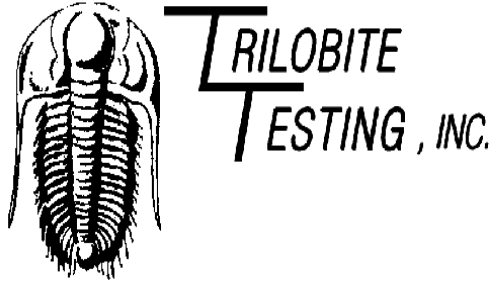
Resistivity/Inductance/Resistivity

REMARKS:

### LEGEND

	Anhydrite		Sandstone		Limestone		Shale		Carb Sh		Cherty LS		Chert		Dolomite
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DEPTH	DRILLING TIME IN MINUTES PER FOOT	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3100				
3164				<b>Anhydrite 3164 (+65)</b>
3192				<b>Base Anhydrite 3192 (+37)</b>
3200				
3250			Shale: red, silty	
3260			Shale: red, white/lt green, soft, sandy, silty	
3270			Shale: red, silty	
3280			Limestone: white, fxn, v-chalky, no vis por	
3290			Shale: red, gray, silty	
3300			Shale: red, silty	Geologist on location 3604' at 1:37 am 10/27/2013
3365			Limestone: white to tan, f-mxn, chaly, oolitic in part, fossiliferous, no vis por	<b>Neva 3650 (-421)</b>
3370			Shale: red, silty, sl sandy	
3380			Sandstone: gray, friable, soft in part, v-fngr, md, well sorted, calcareous cmnt, no vis por	<b>Red Eagle 3715 (-486)</b>
3390			Limestone: gray, fxn, fossiliferous, no vis por	
3400			Shale: red, gray, green, silty	
3450			Limestone: white, f-mn, sl chalky, fossiliferous, no vis por, scattered dark sat stain, nfo, no odor	<b>Foraker 3760 (-531)</b>
3460			Limestone: white, f-mn, sl chalky, fossiliferous, no vis por	
3470			Limestone: white to tan, f-ixn, sl chalky, v-fossiliferous, no vis por	
3480			Siltstone/Shale: gray, blocky, hard, silty, calcareous	
3490			Shale: red, gray, silty	8:00am, 10/27/2013
3500			Limestone: tan to white, fxn, granular, sl fossiliferous, no vis por	
3510			Shale: red, gray, silty	
3520			Shale: red, silty	
3530			Limestone: gray to tan, fxn, chalky, sl fossiliferous, no vis por	wt 8.9, vis. 60, lcm 2# Morgan Mud, Troy Vanpelt
3540			Shale: gray, red, silty	
3550			Shale: red, silty	
3560			Limestone / siltstone: tan to white, f-ixn, silty, hard, no vis por	
3570			Shale: dark gray, green, red	
3580			Limestone: white, f-ixn, v fossiliferous, no vis por	
3590			Shale: gray, green, red, soft, silty	
3600			Limestone: white to gray, f-ixn, no vis por, spotty to sat dark stain, nfo, no odor	
3610			Limestone: tan to white, f-ixn, granular, fossiliferous, no vis por, ns	
3620			Shale: gray, red, silty	
3630			Limestone: tan to white, f-mxn, fossiliferous, pr interxn por, 3 pieces spotty dark stain, nfo, no odor	
3640			Limestone: tan to white, f-mxn, sl chalky, fossiliferous, no vis por	
3650			Limestone: tan to white, fxn, granular in part, sl fossiliferous, sl interxn por, 1 piece dark sat stain, silfo on break, no odor	
3660			Shale: gray, red, silty	
3715			Limestone: tan to white, f-ixn, sl chalky, fossiliferous, no vis por	<b>Topeka 3970 (-741)</b>
3720			Limestone: tan to white, f-ixn, dense, sl cherty, no vis por	
3730			Limestone: white to gray, f-ixn, dense, hard, fossiliferous, no vis por	
3740			Shale: red, gray, silty	
3750			Limestone: gray to brown, f-ixn, silty, sl chalky, no vis por	
3760			Limestone: white to brown, f-ixn, silty, sl chalky, no vis por	
3770			Shale: red, brown, silty	
3780			Shale: red, brown, gray, silty	
3850			Limestone: white, f-mxn, chalky, fossiliferous, pr pp por, 3% sample dark sat stain, frsfo, fair odor	<b>Oread 4079 (-850)</b>
3860			Limestone: white to tan, vf-ixn, chalky, dense, no vis por	
3870			Limestone: white to lt gray, vf-ixn, sl chalky, dense, sl fossiliferous, no vis por	
3880			Limestone: tan to lt gray, vf-ixn, dense, no vis por	
3890			Limestone: lt gray to gray, f-ixn, silty, no vis por	
3900			Shale: gray, green, some red, silty, hard	
3910			Shale: gray, black, red, silty	8:00am, 10/28/2013 rig down three hours swivel repair
3920			Limestone: tan to white, f-ixn, sl chalky, no vis por	
3930			Shale: gray, red, silty, pyritic	<b>DST #1 MIS-RUN 4198-4243</b> Hit bridge near bottom tool stacked out and opened and blew water out of bucket. Slid 15' to bottom when on bottom there was no blow. roughly open 27 min. rec 1100' mud, ff: 633-634 psi pulled tool
3940			Limestone: tan, f-ixn, dense, sl fossiliferous, no vis por, 3 pieces dark tarry stain, nfo, no odor	<b>Lansing 4184 (-955)</b>
3950			Limestone: tan, f-ixn, dense, sl fossiliferous, sl vug por, 1% sample dark tarry stain, nfo, no odor	wt 8.7, vis. 47, lcm 3# Morgan Mud, Troy Vanpelt
3960			Sandstone: tan to red, soft, very shaly, fngm, md, mod sorted, no vis por, ns	
3970			Shale: red, gray, silty	
3980			Limestone: tan to white, f-mxn, sl chalky, fossiliferous, fr interxn por, dark sat stain, frsfo, fair odor	8:00am, 10/29/2013
3990			Shale: gray, black, red	Strap 1.01' long to board wt 9.1, vis. 43, lcm 2# Morgan Mud, Troy Vanpelt
4000			Limestone: white, f-ixn, sl chalky, pyritic, fossiliferous, no vis por, lt spotty stain, nfo, no odor	<b>DST #2 4297-4364</b> 30-60-60-90 1st open: bob 5 min 1st close: return built to 1 1/2" 2nd open: fair blow built to 9" 2nd close: wk surface return Rec: 114' osmw spots/50/50 124' osmw spots/10/90 124' mw 10/90 235' mw 5/95 5' heavy mud hydro: 2058-2012 psi ff: 25-257 psi ff: 259-294 psi sip: 294-294 psi bht: 126° F chl: 65000 ppm api rw: 0.142 @ 57°F
4010			Shale: red, brown, gray, silty	
4020			Shale: gray, red, silty, sandy	
4030			Limestone: tan to gray, f-mxn, oolitic in part, fossiliferous, no vis por, 2 pieces black tarry stain, nfo, no odor	<b>DST #3 4297-4364</b> 30-60-30-60 1st open: wk blow built to 1/4" to 1/2" in 21 min 2nd open: no blow Rec: 5' mud hydro: 2181-2108 psi ff: 33-34 psi ff: 36-37 psi sip: 192-109 psi bht: 124° F
4040			Limestone: tan to green to purple, f-ixn, dense, no vis por, ns	
4050			Shale: gray, brown, purple, red, silty, blocky	
4060			Shale: gray, black	
4070			Limestone: tan, f-mxn, sl chalky, oolitic in part, fossiliferous, no vis por, 1% sample dark tarry stain, nfo, no odor	8:00am, 10/30/2013
4080			Shale: gray, black, red, silty	wt 9.1, vis. 55, lcm 2# Morgan Mud, Troy Vanpelt
4090			Limestone: white to tan, f-ixn, oolitic, sl fossiliferous, no vis por, ns	<b>Stark 4398 (-1169)</b>
4100			Shale: gray, dark gray, red, silty	8:00am, 10/31/2013 wt 9.4, vis. 47, lcm 3# Morgan Mud, Troy Vanpelt
4110			Shale: gray, dark gray, red, silty	<b>DST #4 4361-4398</b> 30-60-30-60 1st open: wk blow built to 1/4" to 1/2" in 10 min 2nd open: no blow Rec: 1' mud -w- oil spots hydro: 2133-2124 psi ff: 16-17 psi ff: 18-19 psi sip: 119-52 psi bht: 123° F
4120			Limestone: white to tan, f-ixn, chalky, sl fossiliferous, no vis por	
4130			Shale: red, gray, sandy, silty	
4140			Limestone: tan, f-mxn, chalky, fossiliferous, no vis por	
4150			Shale: red, gray, silty	
4160			Limestone: tan to gray, f-mxn, chalky, fossiliferous, no vis por	
4170			Limestone: tan to gray, f-ixn, chalky, sl fossiliferous, no vis por	
4180			Shale: red, gray, silty	
4190			Shale: gray, red, brown, silty	
4200			Limestone: white to lt gray, vf-ixn, sl chalky, dense, fossiliferous, no vis por	<b>BKC 4450 (-1221)</b>
4210			Limestone: white to tan, f-ixn, oolitic in part, sl fossiliferous, pr interxn por	
4220			Shale: red, gray, sandy, silty	
4230			Limestone: tan, f-mxn, chalky, fossiliferous, no vis por	
4240			Shale: red, gray, silty	
4250			Limestone: tan to gray, f-mxn, chalky, fossiliferous, no vis por	
4260			Limestone: tan to gray, f-ixn, chalky, sl fossiliferous, no vis por	
4270			Shale: red, gray, silty	
4280			Shale: gray, red, brown, silty	
4290			Limestone: white to lt gray, vf-ixn, sl chalky, dense, fossiliferous, no vis por	<b>RTD 4550 (-1321)</b>
4300				8:00am, 11/1/2013 Geologist off location at 6:30am, 11/1/2013



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Walter Bros. #1-6**

**6-1s-35w Rawlins KS**

Start Date: 2013.10.28 @ 22:10:00

End Date: 2013.10.29 @ 04:26:00

Job Ticket #: 55188                      DST #: 1

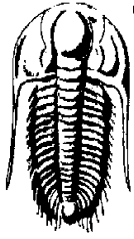
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.31 @ 14:00:51

Murfin Drilling Co. 6-1s-35w Rawlins KS Walter Bros. #1-6 DST # 1 LKC "D" 2013.10.28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Robert Hendrix

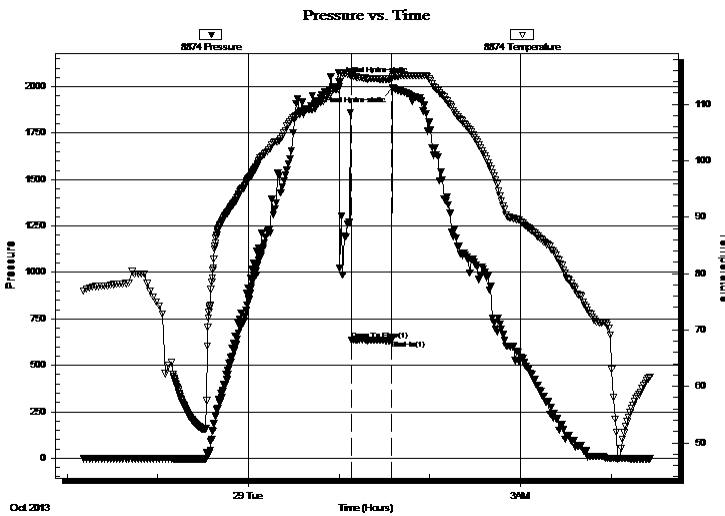
**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
Job Ticket: 55188 **DST#: 1**  
Test Start: 2013.10.28 @ 22:10:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:08:00  
Time Test Ended: 04:26:00  
Interval: **4198.00 ft (KB) To 4243.00 ft (KB) (TVD)**  
Total Depth: 4243.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Kevin Mack  
Unit No: 66  
Reference Elevations: 3229.00 ft (KB)  
3218.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8874** **Inside**  
Press @ RunDepth: psig @ 4199.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.10.28 End Date: 2013.10.29 Last Calib.: 2013.10.29  
Start Time: 22:11:00 End Time: 04:26:00 Time On Btm: 2013.10.29 @ 01:00:00  
Time Off Btm: 2013.10.29 @ 01:35:30

TEST COMMENT: IF - No Blow - Pulled tools to condition hole.



## PRESSURE SUMMARY

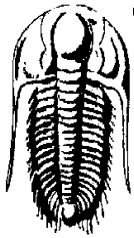
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.31	113.13	Initial Hydro-static
8	633.81	114.93	Open To Flow (1)
35	634.42	114.46	Shut-In(1)
36	1992.99	114.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Mud 100M	13.23

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

**6-1s-35w Rawlins KS**

**Walter Bros. #1-6**

Job Ticket: 55188

**DST#: 1**

Test Start: 2013.10.28 @ 22:10:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:08:00

Time Test Ended: 04:26:00

**Interval: 4198.00 ft (KB) To 4243.00 ft (KB) (TVD)**

Total Depth: 4243.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Reference Elevations: 3229.00 ft (KB)

3218.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8653** **Outside**

Press @ RunDepth: psig @ 4199.00 ft (KB)

Start Date: 2013.10.28

End Date:

2013.10.29

Start Time: 22:11:00

End Time:

04:24:30

Capacity: 8000.00 psig

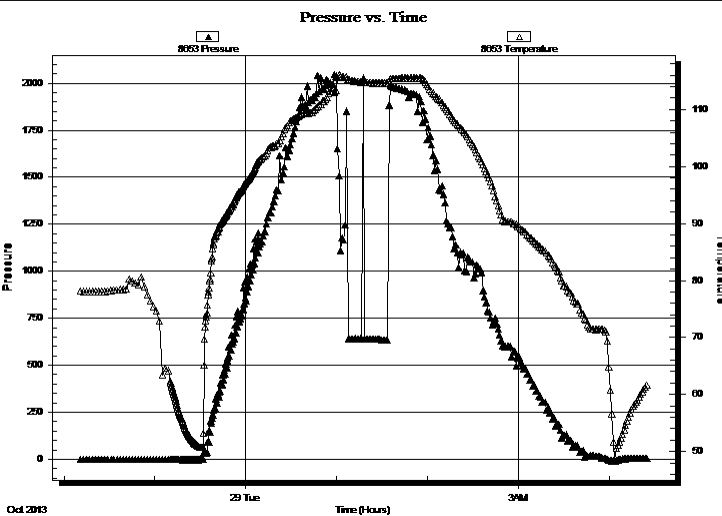
Last Calib.:

2013.10.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - No Blow - Pulled tools to condition hole.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Mud 100M	13.23

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 55188

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2013.10.28 @ 22:10:00

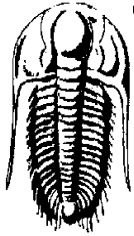
## Tool Information

Drill Pipe:	Length: 3962.00 ft	Diameter: 3.80 inches	Volume: 55.58 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 56.77 bbl	Tool Chased 15.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4198.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments: Hit bridge approx 15' above bottom. Chased tool to bottom and added a single joint of pipe to make bottom... Opened tool - no bow - pulled tool to condition hole.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4171.00	
Shut In Tool	5.00			4176.00	
Hydraulic tool	5.00			4181.00	
Jars	5.00			4186.00	
Safety Joint	3.00			4189.00	
Packer	5.00			4194.00	28.00 Bottom Of Top Packer
Packer	4.00			4198.00	
Stubb	1.00			4199.00	
Recorder	0.00	8653	Outside	4199.00	
Recorder	0.00	8874	Inside	4199.00	
Perforations	6.00			4205.00	
Change Over Sub	1.00			4206.00	
Drill Pipe	31.00			4237.00	
Change Over Sub	1.00			4238.00	
Bullnose	5.00			4243.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 55188

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2013.10.28 @ 22:10:00

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.58 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 bbl
1100.00	Mud 100M	13.226

Total Length: 1100.00 ft      Total Volume: 13.226 bbl

Num Fluid Samples: 0

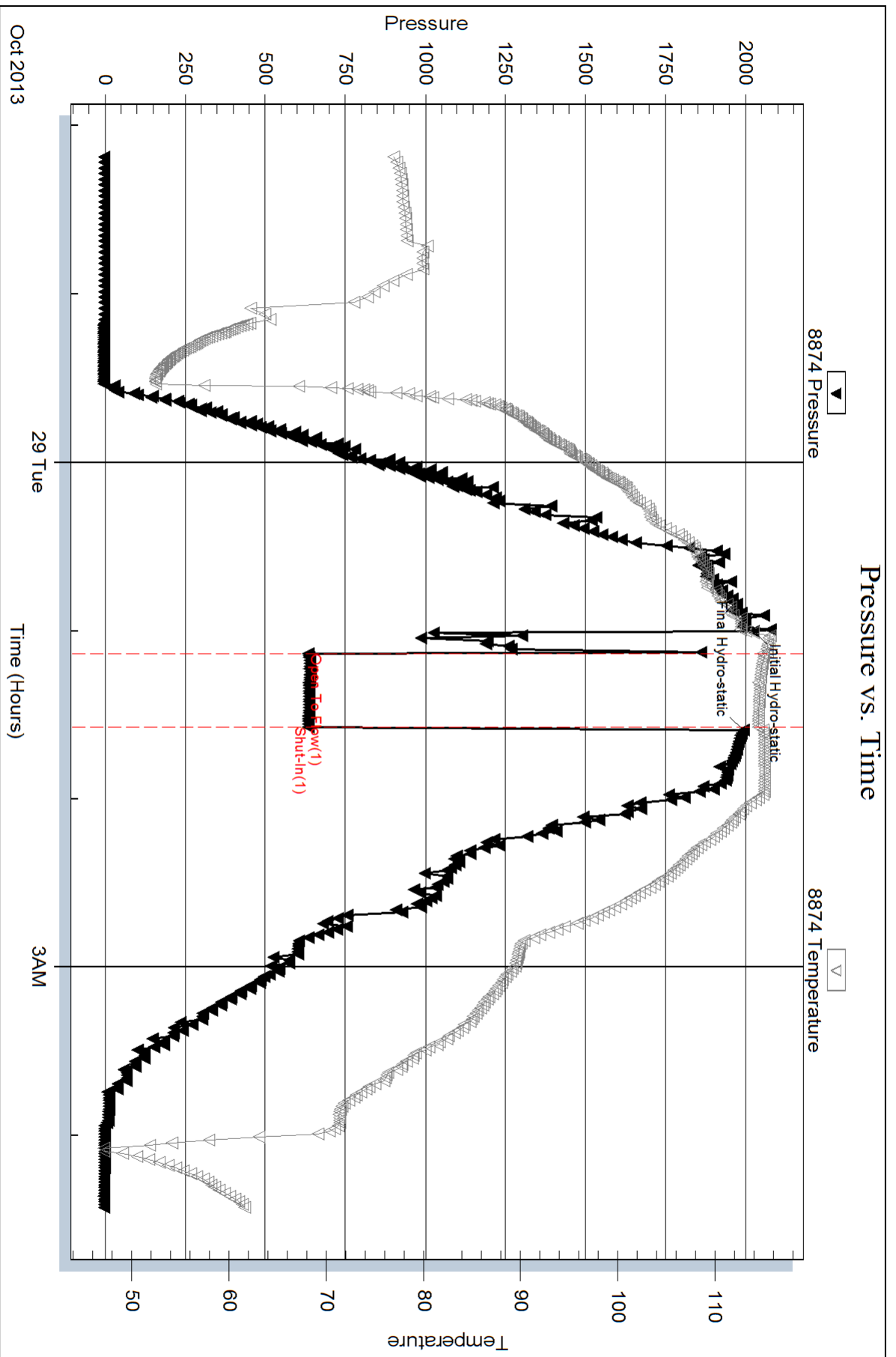
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

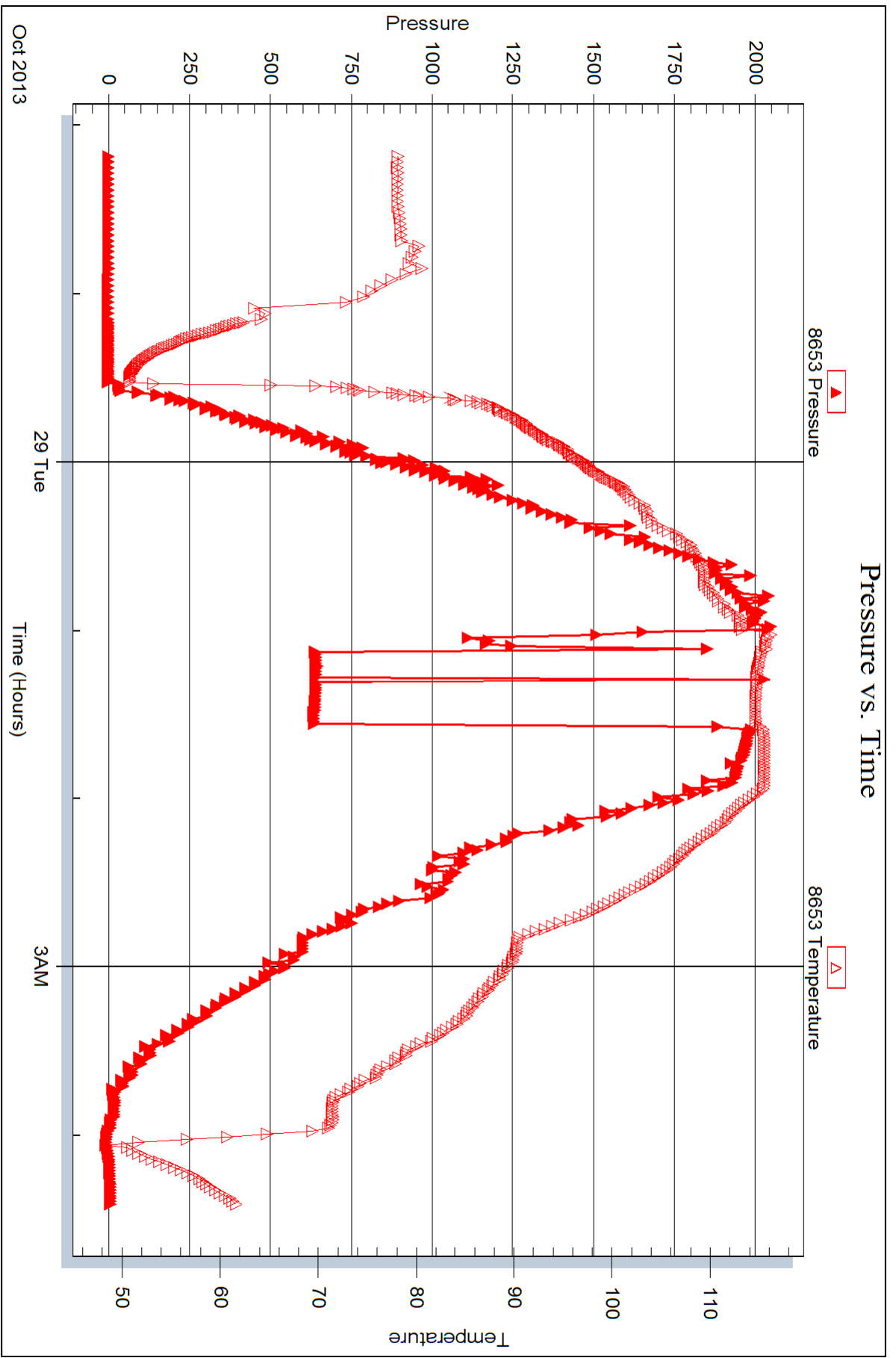


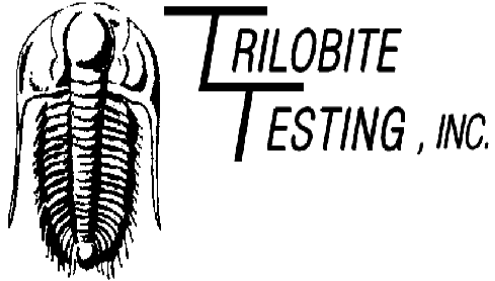
Serial #: 8653

Outside Murfin Drilling Co.

Walter Bros. #1-6

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Walter Bros. #1-6**

**6-1s-35w Rawlins KS**

Start Date: 2013.10.29 @ 09:56:00

End Date: 2013.10.29 @ 17:51:30

Job Ticket #: 55189                      DST #: 2

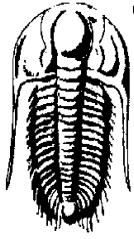
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.31 @ 14:00:23

Murfin Drilling Co. 6-1s-35w Rawlins KS Walter Bros. #1-6 DST # 2 LKC "D" 2013.10.29



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Robert Hendrix

**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
 Job Ticket: 55189 **DST#: 2**  
 Test Start: 2013.10.29 @ 09:56:00

## GENERAL INFORMATION:

Formation: **LKC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:44:30  
 Time Test Ended: 17:51:30  
 Interval: **4189.00 ft (KB) To 4243.00 ft (KB) (TVD)**  
 Total Depth: 4243.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 66  
 Reference Elevations: 3229.00 ft (KB)  
 3218.00 ft (CF)  
 KB to GR/CF: 11.00 ft

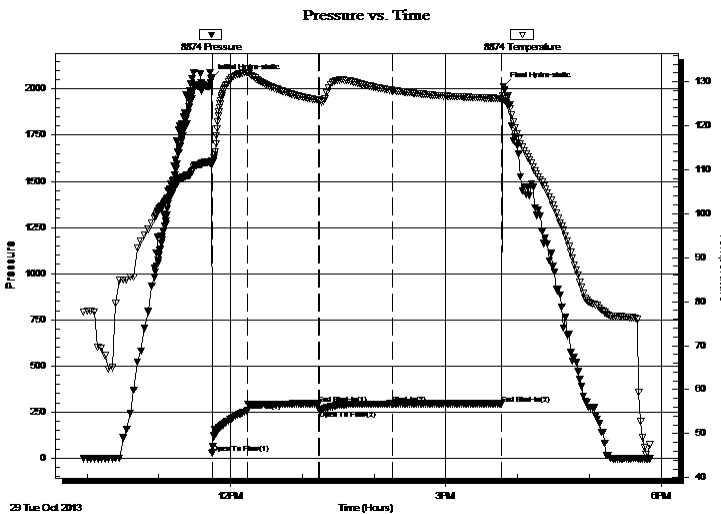
## Serial #: 8874

Inside

Press @ Run Depth: 294.67 psig @ 4199.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.29 End Date: 2013.10.29 Last Calib.: 2013.10.29  
 Start Time: 09:57:00 End Time: 17:51:30 Time On Btm: 2013.10.29 @ 11:44:10  
 Time Off Btm: 2013.10.29 @ 15:48:00

TEST COMMENT: 30 - IF- BoB in 5 min.  
 60 - IS- Weak Surface Return built to 1 1/2"  
 60 - FF- Surface Blow built to 9"  
 90 - FS- Weak surface Return did not build or die.

## PRESSURE SUMMARY



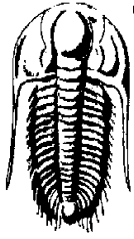
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.46	111.97	Initial Hydro-static
1	25.42	111.61	Open To Flow (1)
30	257.02	132.09	Shut-In(1)
90	294.81	125.78	End Shut-In(1)
91	259.09	125.68	Open To Flow (2)
151	294.67	128.01	Shut-In(2)
243	294.91	126.21	End Shut-In(2)
244	2012.39	126.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
235.00	MW 5M 95W	1.16
124.00	MW 10M 90W	1.72
124.00	OSMW 10M 90W (oil spots)	1.74
114.00	OSMW 50M 50W (oil spots)	1.60
0.00	30' GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Robert Hendrix

**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
Job Ticket: 55189 **DST#: 2**  
Test Start: 2013.10.29 @ 09:56:00

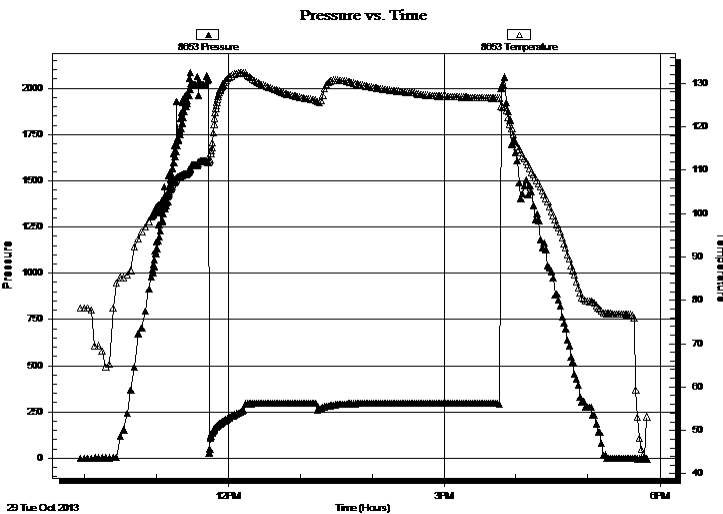
### GENERAL INFORMATION:

Formation: <b>LKC "D"</b>		
Deviated: <b>No Whipstock:</b>	<b>ft (KB)</b>	Test Type: <b>Conventional Bottom Hole (Initial)</b>
Time Tool Opened: <b>11:44:30</b>		Tester: <b>Kevin Mack</b>
Time Test Ended: <b>17:51:30</b>		Unit No: <b>66</b>
<b>Interval: 4189.00 ft (KB) To 4243.00 ft (KB) (TVD)</b>		Reference Elevations: <b>3229.00 ft (KB)</b>
Total Depth: <b>4243.00 ft (KB) (TVD)</b>		<b>3218.00 ft (CF)</b>
Hole Diameter: <b>7.88 inches</b>	Hole Condition: <b>Good</b>	KB to GR/CF: <b>11.00 ft</b>

### Serial #: 8653 Outside

Press @ Run Depth: <b>psig @ 4199.00 ft (KB)</b>	Capacity: <b>8000.00 psig</b>
Start Date: <b>2013.10.29</b>	End Date: <b>2013.10.29</b>
Start Time: <b>09:57:00</b>	End Time: <b>17:50:00</b>
	Last Calib.: <b>2013.10.29</b>
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 5 min.  
60 - IS- Weak Surface Return built to 1 1/2"  
60 - FF- Surface Blow built to 9"  
90 - FS- Weak surface Return did not build or die.



### PRESSURE SUMMARY

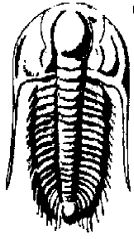
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
235.00	MW 5M 95W	1.16
124.00	MW 10M 90W	1.72
124.00	OSMW 10M 90W (oil spots)	1.74
114.00	OSMW 50M 50W (oil spots)	1.60
0.00	30' GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 55189

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2013.10.29 @ 09:56:00

## Tool Information

Drill Pipe:	Length: 3962.00 ft	Diameter: 3.80 inches	Volume: 55.58 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.77 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4198.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 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			4171.00	
Shut In Tool	5.00			4176.00	
Hydraulic tool	5.00			4181.00	
Jars	5.00			4186.00	
Safety Joint	3.00			4189.00	
Packer	5.00			4194.00	28.00 Bottom Of Top Packer
Packer	4.00			4198.00	
Stubb	1.00			4199.00	
Recorder	0.00	8653	Outside	4199.00	
Recorder	0.00	8874	Inside	4199.00	
Perforations	6.00			4205.00	
Change Over Sub	1.00			4206.00	
Drill Pipe	31.00			4237.00	
Change Over Sub	1.00			4238.00	
Bullnose	5.00			4243.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 55189

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2013.10.29 @ 09:56:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 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
5.00	Mud (heavy) 100M	0.025
235.00	MW 5M 95W	1.156
124.00	MW 10M 90W	1.721
124.00	OSMW 10M 90W (oil spots)	1.739
114.00	OSMW 50M 50W (oil spots)	1.599
0.00	30' GIP	0.000

Total Length: 602.00 ft

Total Volume:

6.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .142 @ 57 deg = 65000ppm

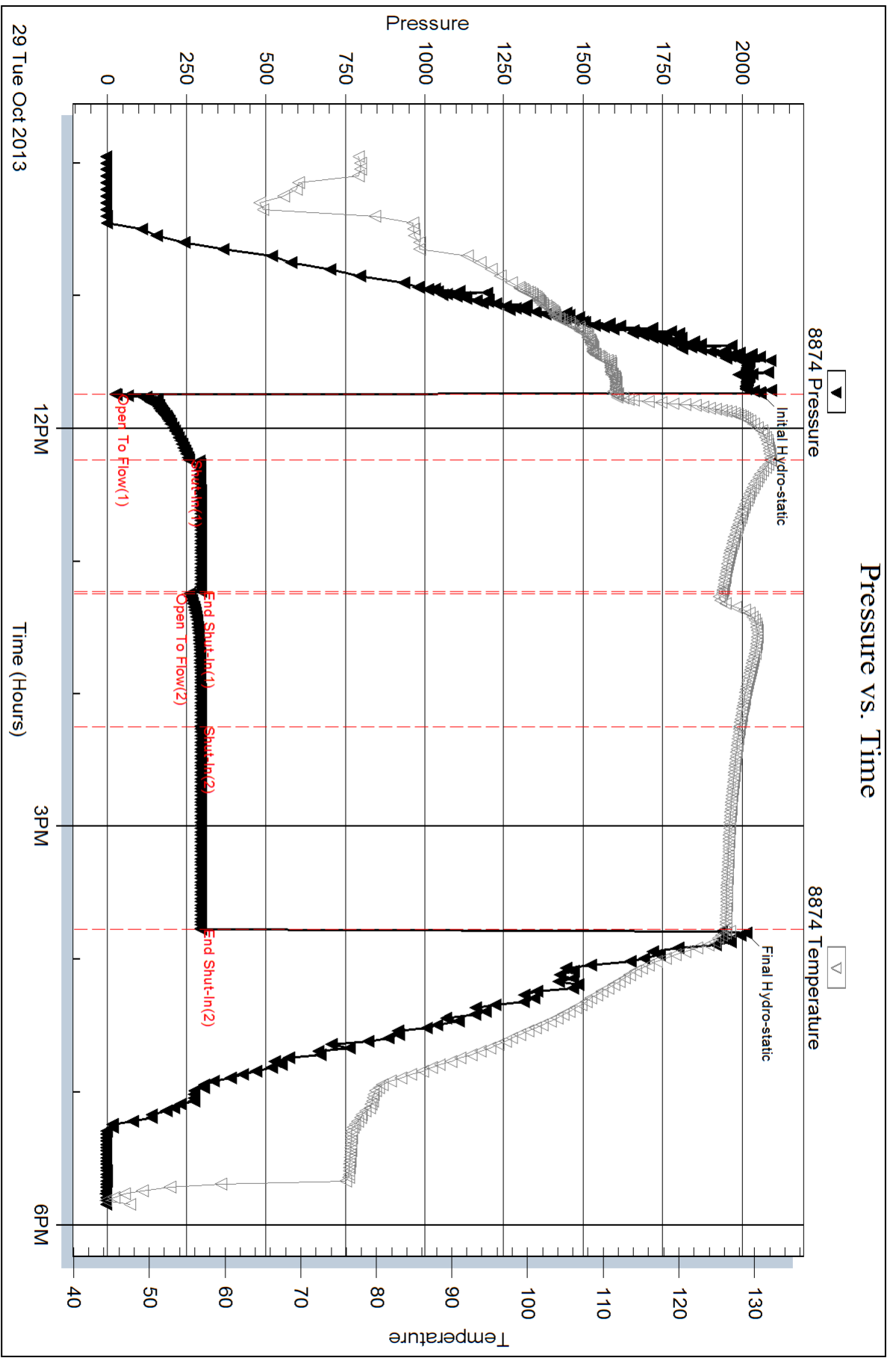
Serial #: 8874

Inside

Murfin Drilling Co.

Walter Bros. #1-6

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 55189

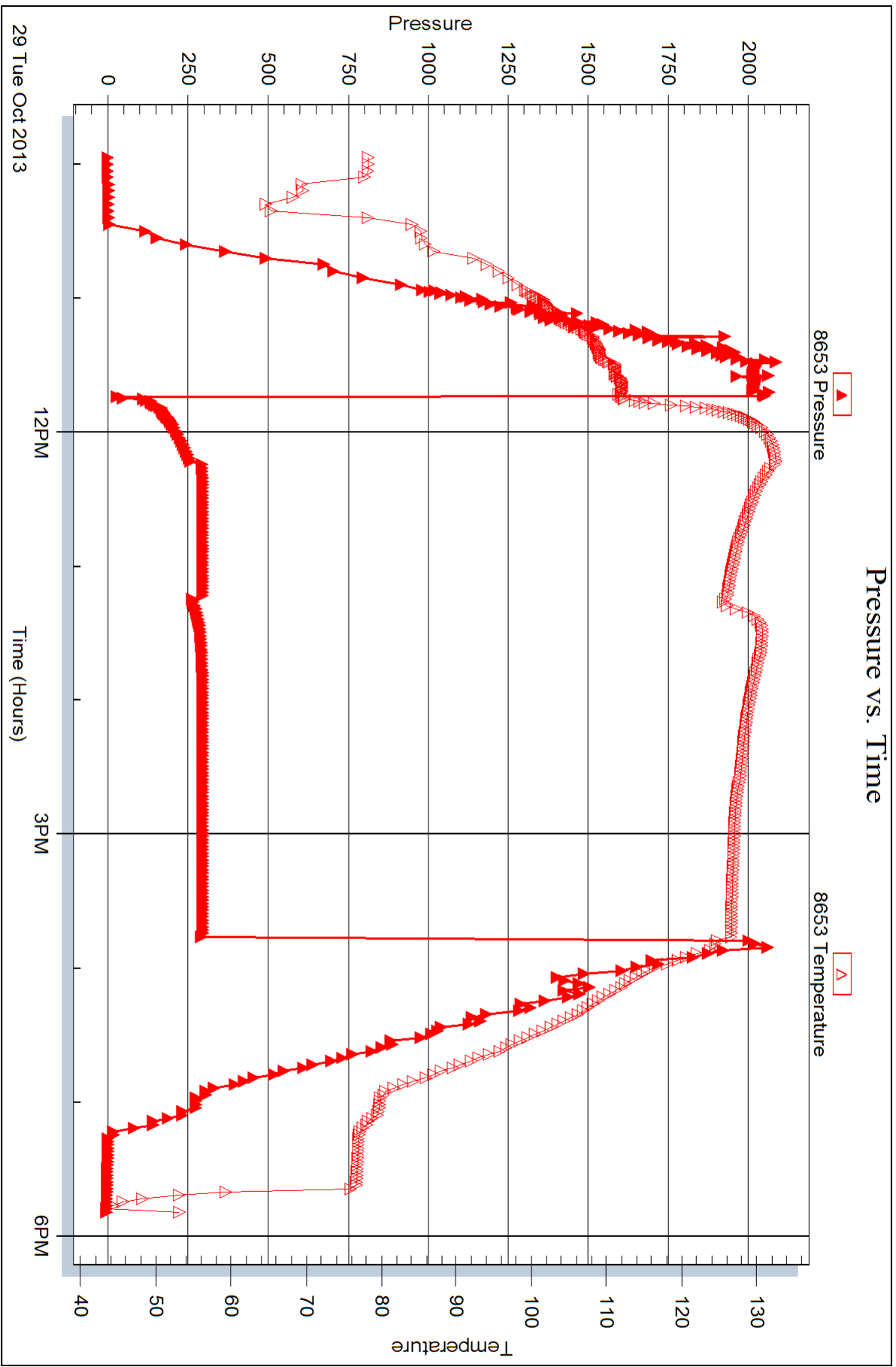
Printed: 2013.10.31 @ 14:00:24

Serial #: 8653

Outside Murfin Drilling Co.

Walter Bros. #1-6

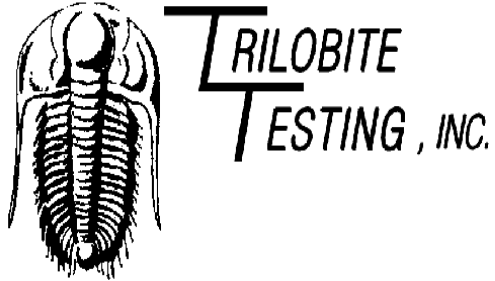
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55189

Printed: 2013.10.31 @ 14:00:25



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Walter Bros. #1-6**

**6-1s-35w Rawlins KS**

Start Date: 2013.10.30 @ 22:33:00

End Date: 2013.10.31 @ 05:36:30

Job Ticket #: 54873                      DST #: 3

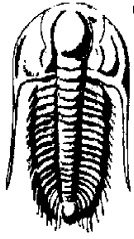
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.31 @ 13:59:44

Murfin Drilling Co. 6-1s-35w Rawlins KS Walter Bros. #1-6 DST # 3 LKC "H - I" 2013.10.30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Robert Hendrix

**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
 Job Ticket: 54873      **DST#: 3**  
 Test Start: 2013.10.30 @ 22:33:00

## GENERAL INFORMATION:

Formation: **LKC "H - I"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:29:10      Tester: Bob Hamel  
 Time Test Ended: 05:36:30      Unit No: 66  
 Interval: **4297.00 ft (KB) To 4364.00 ft (KB) (TVD)**      Reference Elevations: 3229.00 ft (KB)  
 Total Depth: 4243.00 ft (KB) (TVD)      3218.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 11.00 ft

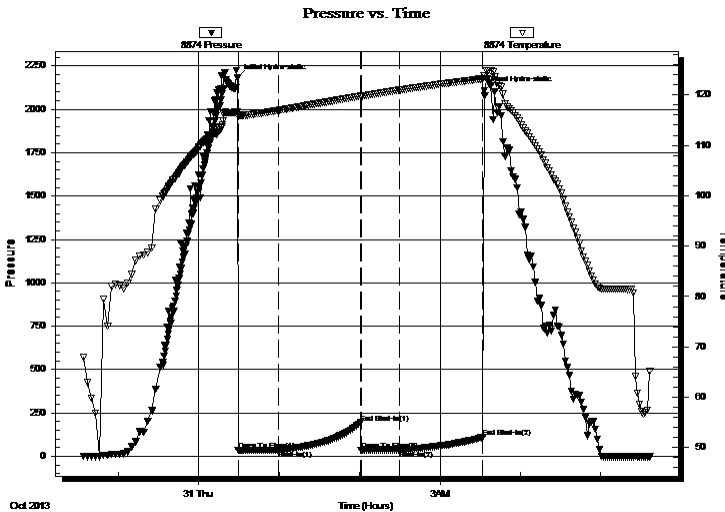
## Serial #: 8874

Inside

Press @ Run Depth: 36.62 psig @ 4301.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.30      End Date: 2013.10.31      Last Calib.: 2013.10.30  
 Start Time: 22:34:00      End Time: 05:36:30      Time On Btm: 2013.10.31 @ 00:28:50  
 Time Off Btm: 2013.10.31 @ 03:33:00

TEST COMMENT: IF - 30 - 1/4" Initial blow died in 21 min  
 ISI - 60 - No blow back  
 FF - 30 - No blow  
 FSI - 60 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.74	116.72	Initial Hydro-static
1	33.13	115.72	Open To Flow (1)
31	34.25	116.91	Shut-In(1)
92	192.29	119.78	End Shut-In(1)
93	35.75	119.72	Open To Flow (2)
122	36.62	120.96	Shut-In(2)
184	109.33	123.21	End Shut-In(2)
185	2107.70	123.77	Final Hydro-static

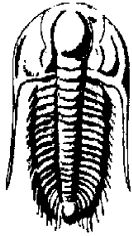
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	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.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

ATTN: Robert Hendrix

Job Ticket: 54873

**DST#: 3**

Test Start: 2013.10.30 @ 22:33:00

## GENERAL INFORMATION:

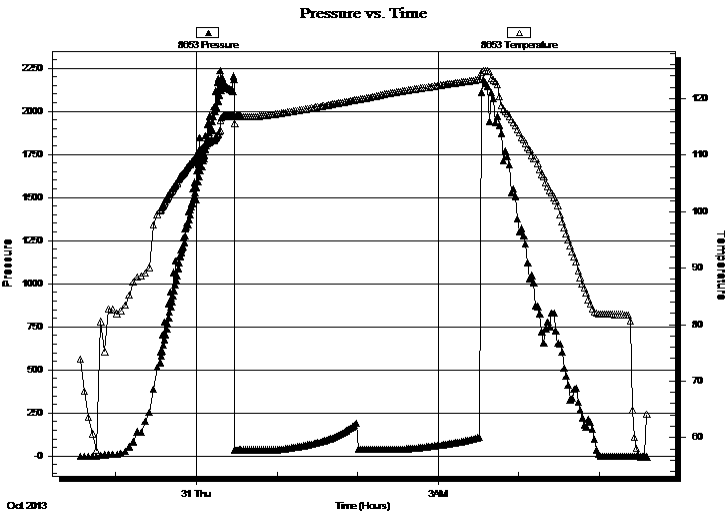
**Formation:** LKC "H - I"  
**Deviated:** No **Whipstock:** ft (KB) **Test Type:** Conventional Bottom Hole (Reset)  
**Time Tool Opened:** 00:29:10 **Tester:** Bob Hamel  
**Time Test Ended:** 05:36:30 **Unit No:** 66

**Interval:** **4297.00 ft (KB) To 4364.00 ft (KB) (TVD)** **Reference Elevations:** 3229.00 ft (KB)  
**Total Depth:** 4243.00 ft (KB) (TVD) **3218.00 ft (CF)**  
**Hole Diameter:** 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 11.00 ft

**Serial #: 8653** **Outside**

**Press @ Run Depth:** psig @ 4301.00 ft (KB) **Capacity:** 8000.00 psig  
**Start Date:** 2013.10.30 **End Date:** 2013.10.31 **Last Calib.:** 2013.10.30  
**Start Time:** 22:34:00 **End Time:** 05:35:30 **Time On Btm:**  
**Time Off Btm:**

**TEST COMMENT:** IF - 30 - 1/4" Initial blow died in 21 min  
 ISI - 60 - No blow back  
 FF - 30 - No blow  
 FSI - 60 - No blow back



## PRESSURE SUMMARY

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

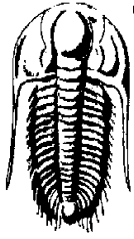
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.02

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 54873

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2013.10.30 @ 22:33:00

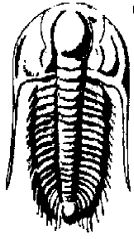
## Tool Information

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.03 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4297.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 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			4270.00	
Shut In Tool	5.00			4275.00	
Hydraulic tool	5.00			4280.00	
Jars	5.00			4285.00	
Safety Joint	3.00			4288.00	
Packer	5.00			4293.00	28.00 Bottom Of Top Packer
Packer	4.00			4297.00	
Stubb	1.00			4298.00	
Perforations	2.00			4300.00	
Change Over Sub	1.00			4301.00	
Recorder	0.00	8653	Outside	4301.00	
Recorder	0.00	8874	Inside	4301.00	
Drill Pipe	32.00			4333.00	
Change Over Sub	1.00			4334.00	
Perforations	25.00			4359.00	
Bullnose	5.00			4364.00	67.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 54873

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2013.10.30 @ 22:33:00

## 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: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%	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:



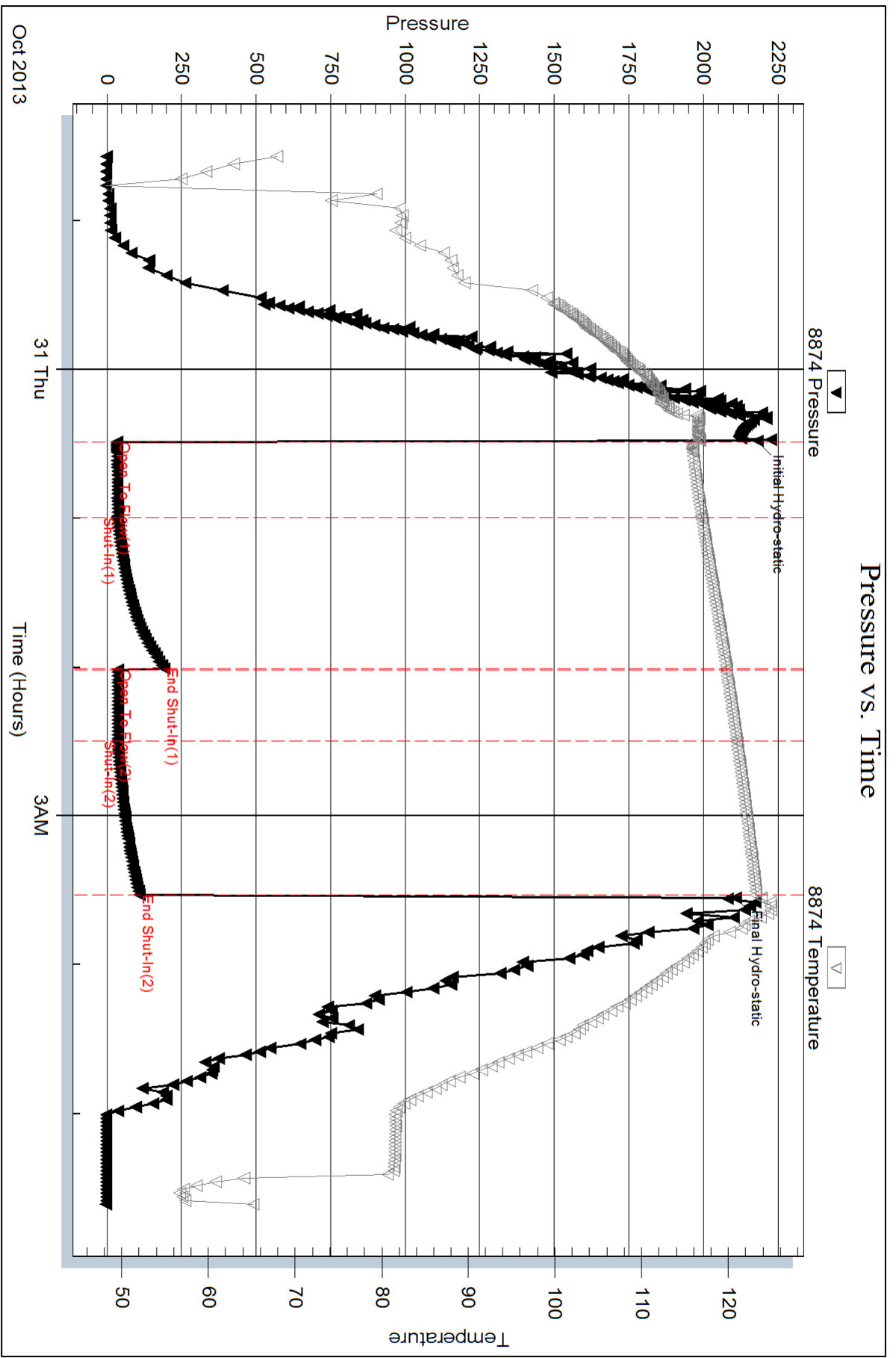
Serial #: 8874

Inside

Murfin Drilling Co.

Walter Bros. #1-6

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54873

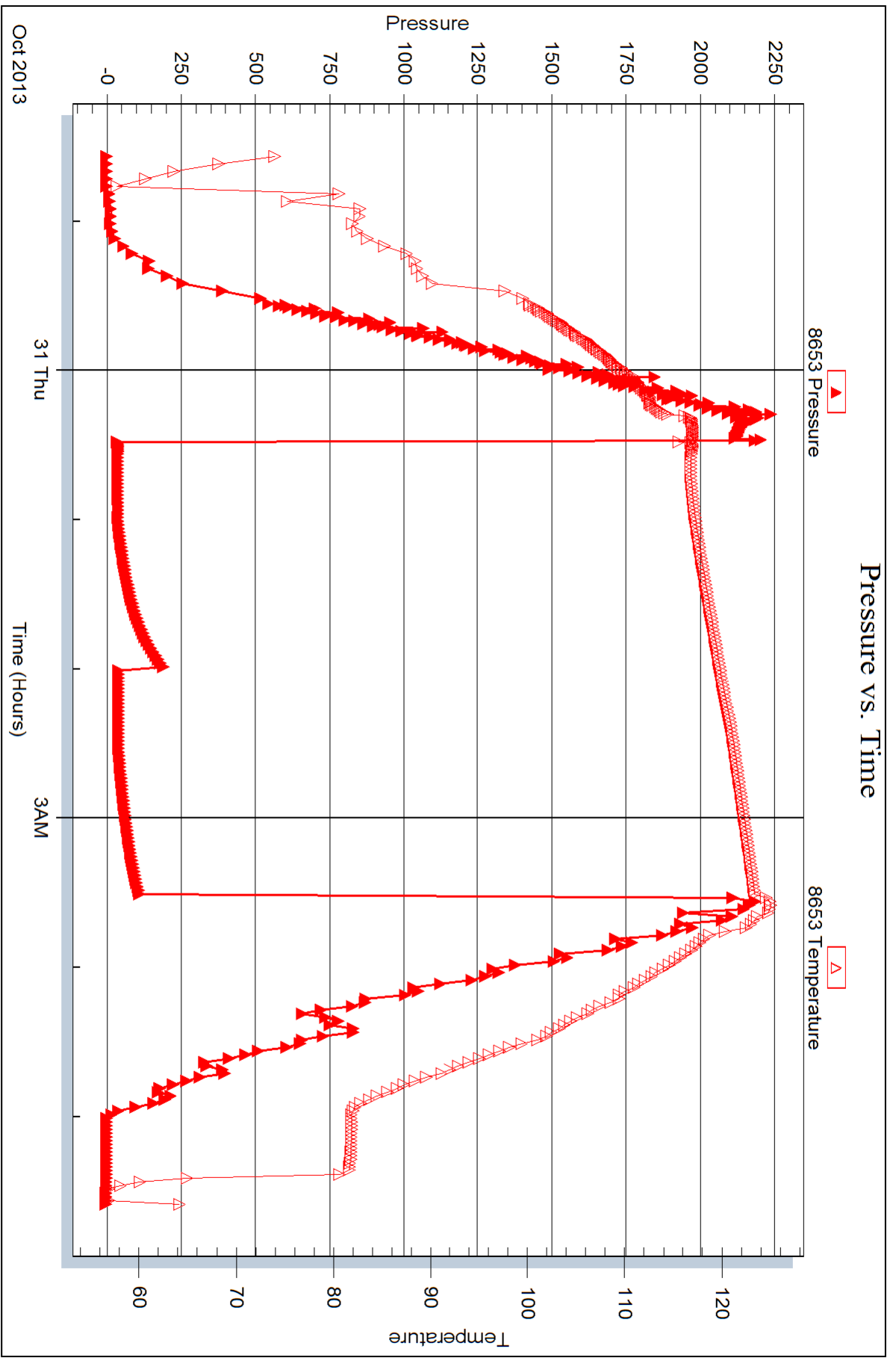
Printed: 2013.10.31 @ 13:59:46

Serial #: 8653

Outside Murfin Drilling Co.

Walter Bros. #1-6

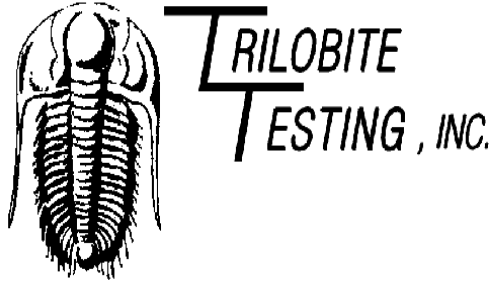
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54873

Printed: 2013.10.31 @ 13:59:46



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

**Walter Bros. #1-6**

**6-1s-35w Rawlins KS**

Start Date: 2013.10.31 @ 01:20:00

End Date: 2013.10.31 @ 08:32:00

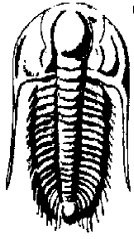
Job Ticket #: 54874                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.31 @ 13:59:09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Robert Hendrix

**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
 Job Ticket: 54874      **DST#: 4**  
 Test Start: 2013.10.31 @ 01:20:00

## GENERAL INFORMATION:

Formation: **L.K.C. " J "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:41:30  
 Time Test Ended: 08:32:00  
 Interval: **4361.00 ft (KB) To 4398.00 ft (KB) (TVD)**  
 Total Depth: 4243.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bob Hamel  
 Unit No: 66  
 Reference Elevations: 3229.00 ft (KB)  
 3218.00 ft (CF)  
 KB to GR/CF: 11.00 ft

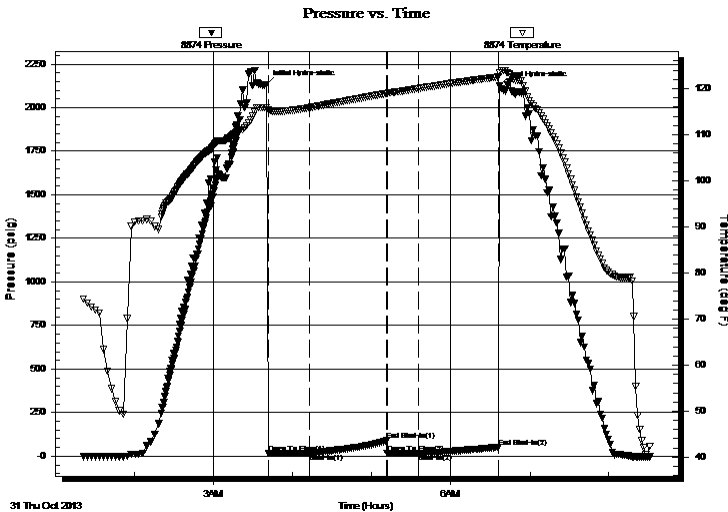
## Serial #: 8874

Inside

Press @ Run Depth: 18.65 psig @ 4364.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.31 End Date: 2013.10.31 Last Calib.: 2013.10.31  
 Start Time: 01:21:00 End Time: 08:32:00 Time On Btm: 2013.10.31 @ 03:40:00  
 Time Off Btm: 2013.10.31 @ 06:37:00

TEST COMMENT: IF - 30 - 1/4" Initial blow died in 10 min  
 ISI - 60 - No blow back  
 FF - 30 - No blow  
 FSI - 60 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.63	115.85	Initial Hydro-static
2	16.23	115.34	Open To Flow (1)
33	17.42	115.87	Shut-In(1)
91	89.90	118.95	End Shut-In(1)
92	17.75	118.93	Open To Flow (2)
116	18.65	120.04	Shut-In(2)
176	51.97	122.55	End Shut-In(2)
177	2123.78	123.52	Final Hydro-static

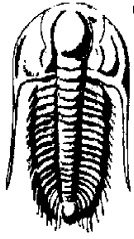
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100% / W FEW OIL SPECS	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Robert Hendrix

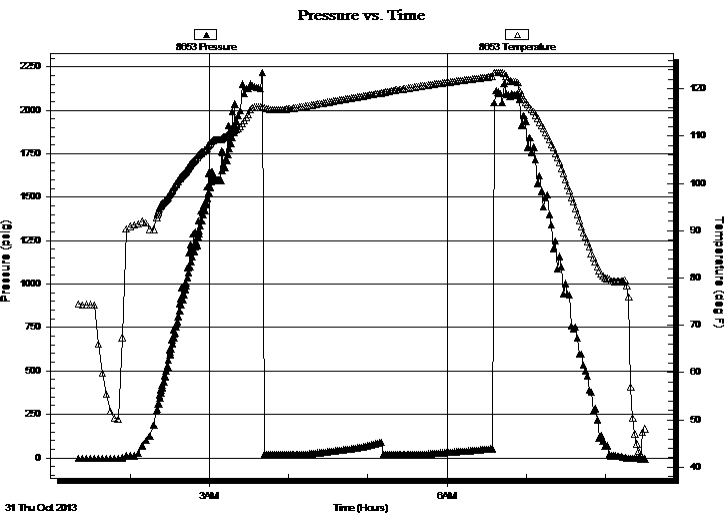
**6-1s-35w Rawlins KS**  
**Walter Bros. #1-6**  
 Job Ticket: 54874      **DST#: 4**  
 Test Start: 2013.10.31 @ 01:20:00

## GENERAL INFORMATION:

Formation: **L.K.C. " J "**  
 Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 03:41:30      Tester: Bob Hamel  
 Time Test Ended: 08:32:00      Unit No: 66  
 Interval: **4361.00 ft (KB) To 4398.00 ft (KB) (TVD)**      Reference Elevations: 3229.00 ft (KB)  
 Total Depth: 4243.00 ft (KB) (TVD)      3218.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 11.00 ft

**Serial #: 8653      Outside**  
 Press @ RunDepth: psig @ 4364.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.31      End Date: 2013.10.31      Last Calib.: 2013.10.31  
 Start Time: 01:21:00      End Time: 08:30:30      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF - 30 - 1/4" Initial blow died in 10 min  
 ISI - 60 - No blow back  
 FF - 30 - No blow  
 FSI - 60 - No blow back



## PRESSURE SUMMARY

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

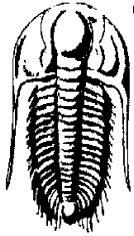
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100% / W FEW OIL SPECS	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 54874

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2013.10.31 @ 01:20:00

## Tool Information

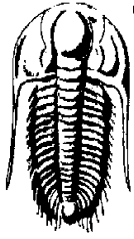
Drill Pipe:	Length: 4122.00 ft	Diameter: 3.80 inches	Volume: 57.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.01 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4361.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 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			4334.00	
Shut In Tool	5.00			4339.00	
Hydraulic tool	5.00			4344.00	
Jars	5.00			4349.00	
Safety Joint	3.00			4352.00	
Packer	5.00			4357.00	28.00 Bottom Of Top Packer
Packer	4.00			4361.00	
Stubb	1.00			4362.00	
Perforations	2.00			4364.00	
Recorder	0.00	8653	Outside	4364.00	
Recorder	0.00	8874	Inside	4364.00	
Perforations	29.00			4393.00	
Bullnose	5.00			4398.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**6-1s-35w Rawlins KS**

250 N Water STE #300  
Wichita, KS 67202

**Walter Bros. #1-6**

Job Ticket: 54874

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2013.10.31 @ 01:20:00

## 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: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD 100% / W FEW OIL SPECS	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

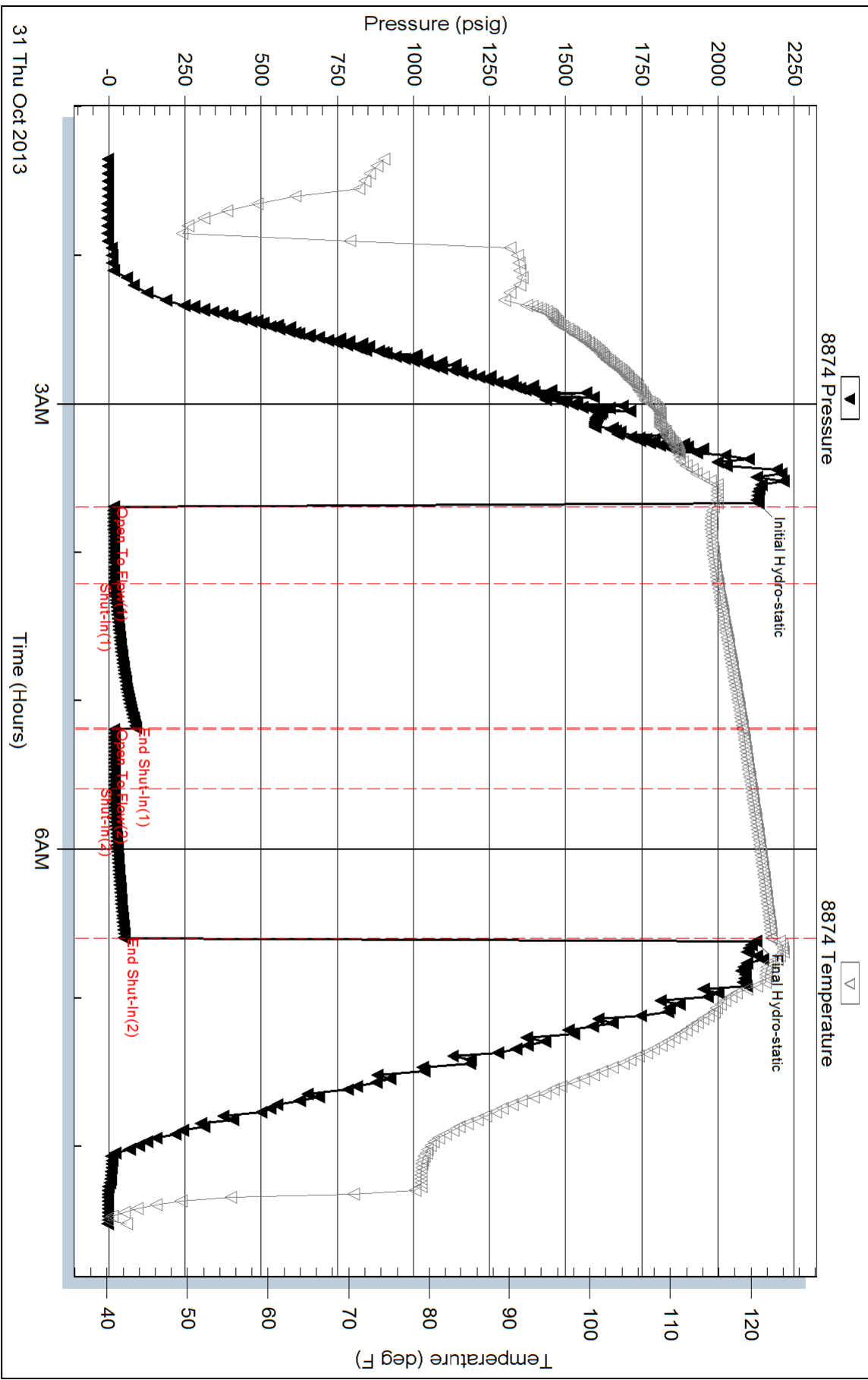
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



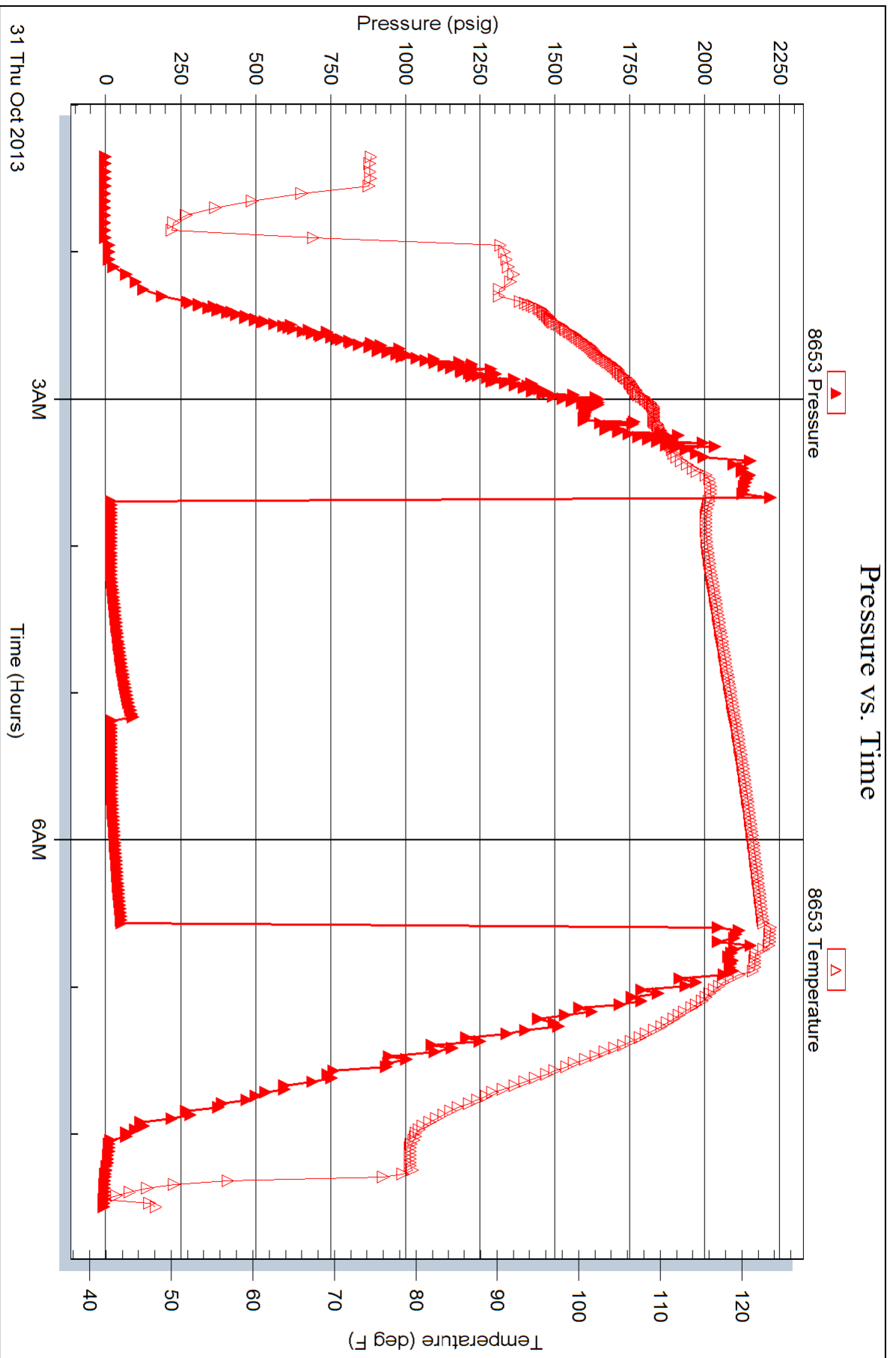


Serial #: 8653

Outside Murfin Drilling Co.

Walter Bros. #1-6

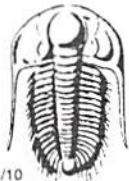
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 54874

Printed: 2013.10.31 @ 13:59:12



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55188

Well Name & No. Walter Brus # 1-6 Test No. 1 Date 10-28-13  
 Company Murfin Drilling Co. Elevation 3229 KB 3218 GL  
 Address 250 N Water STE # 300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 6 Twp. 1S Rge. 35 W Co. Rawlins State KS

Interval Tested 4198-4243 Zone Tested LKC "D"  
 Anchor Length 45' Drill Pipe Run 3962' ~~2000'~~ Mud Wt. 8.7  
 Top Packer Depth 4194 Drill Collars Run 242' Vis 47  
 Bottom Packer Depth 4192 Wt. Pipe Run 0 WL 6.6  
 Total Depth 4243 Chlorides 500 ppm System LCM 3#

Blow Description IF- Pulled tool to recompression hole.  
ISI-  
FF-  
FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>1000</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 1000 BHT 115 Gravity - API RW - @ - ° F Chlorides - ppm

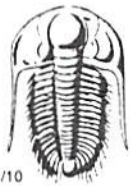
(A) Initial Hydrostatic 2025  Test 1050 T-On Location 7:50 PM  
 (B) First Initial Flow 633  Jars 250 T-Started 10:10 PM  
 (C) First Final Flow 634  Safety Joint 75 T-Open 1:00 AM  
 (D) Initial Shut-In -  Circ Sub N/C T-Pulled 1:30 AM  
 (E) Second Initial Flow -  Hourly Standby T-Out 4:26 AM  
 (F) Second Final Flow -  Mileage 114 RT 176.70  
 (G) Final Shut-In -  Sampler  
 (H) Final Hydrostatic 1992  Straddle  
 Shale Packer  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies

Comments tool had to be  
chased approx 15' to bottom  
had to pick up an extra Jnt to  
make bottom.

Initial Open -  Extra Packer  
 Initial Shut-In -  Extra Recorder  
 Final Flow -  Day Standby  
 Final Shut-In -  Accessibility  
 Sub Total 1551.70  
 Total 1551.70  
 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. 55189

Well Name & No. Walter Bros. #1-6 Test No. 2 Date 10-29-13  
 Company Murkin Drilling Co. Elevation 3229 KB 3218 GL  
 Address 258 N Water STE # 300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murkin #2  
 Location: Sec. 6 Twp. 15 Rge. 35W Co. Rawlins State KS

Interval Tested 4198-4243 Zone Tested LKC "D"  
 Anchor Length 45' Drill Pipe Run 362 Mud Wt. 8.7  
 Top Packer Depth 4194 Drill Collars Run 242 Vis 47  
 Bottom Packer Depth 4198 Wt. Pipe Run 0 WL 6.6  
 Total Depth 4243 Chlorides 500 ppm System LCM 3#

Blow Description IF-BOB in 5 min.  
ISL-Weak Surface Return built to 1 1/2"  
FF-Surface Blow built to 9"  
FSL-Weak Surface Return did not build or die.

Rec	Feet of	%gas	Spots	%oil	%water	%mud
114	OSMW			50	50	
124	OSMW			90	10	
124	MW			90	10	
235	MW			95	5	
5	Mud (heavy)				1000	

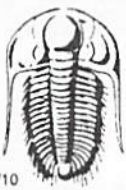
Rec Total 602 BHT 126 Gravity - API RW 0.142 @ 57 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic 2058  Test 1250 T-On Location 7:50 PM 10-28-13  
 (B) First Initial Flow 25  Jars 250 T-Started 9:56 AM 10-29-13  
 (C) First Final Flow 257  Safety Joint 75 T-Open 11:45 AM  
 (D) Initial Shut-In 294  Circ Sub N/C T-Pulled 3:45 PM  
 (E) Second Initial Flow 259  Hourly Standby T-Out 5:55 PM  
 (F) Second Final Flow 294  Mileage Comments 30' GIP  
 (G) Final Shut-In 294  Sampler  
 (H) Final Hydrostatic 2012  Straddle  Ruined Shale Packer

Initial Open 30  Shale Packer  Ruined Packer  
 Initial Shut-In 60  Extra Packer  Extra Copies  
 Final Flow 60  Extra Recorder Sub Total 0  
 Final Shut-In 90  Day Standby Total 1575  
 Accessibility MP/DST Disc't  
 Sub Total 1575

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54873**

Well Name & No. Walter Boos #1-16 Test No. 3 Date 10-30-17  
 Company Murfin Drilling Co. Elevation 3,229 KB 3,218 GL  
 Address 250 N. Water Suite 250 Wichita KS. 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 6 Twp. 15 Rge. 35 W Co. Rawlins State KS.

Interval Tested 4,297 - 4,364 Zone Tested hans. "H-I"  
 Anchor Length 67 Drill Pipe Run 4,052 Mud Wt. 9.0  
 Top Packer Depth 4,292 Drill Collars Run 242 Vis SS  
 Bottom Packer Depth 4,297 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 4,364 Chlorides 600 ppm System LCM 2.0

Blow Description I-F; 30-1/4 INT. Blow Died in 21 min.  
I.S.I-60-No B.B.  
F.F-3; No Blow  
F.S.I-60-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	

Rec Total 5 BHT 124 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,181  Test 1250 T-On Location 10:05:00  
 (B) First Initial Flow 33  Jars 250 T-Started 10:33:00  
 (C) First Final Flow 34  Safety Joint 75 T-Open 12:35:00  
 (D) Initial Shut-In 192  Circ Sub \_\_\_\_\_ T-Pulled 15:35:00  
 (E) Second Initial Flow 36  Hourly Standby \_\_\_\_\_ T-Out 17:40:00  
 (F) Second Final Flow 37  Mileage 114 176.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 109  Sampler \_\_\_\_\_ thank-You  
 (H) Final Hydrostatic 2,108  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1751.70  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1751.70

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54874**

4/10

Well Name & No. Walter Bros. #1-16 Test No. 4 Date 10-31-13  
 Company Murfin Drilling Co. Elevation 3229 KB 3,218 GL  
 Address 250 N. Water Suite 300 Wichita KS. 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 6 Twp. 1 S. Rge. 35 W Co. Rawlins State KS.

Interval Tested 4361-4398 Zone Tested A.K.C. "J"  
 Anchor Length 37 Drill Pipe Run 4,122 Mud Wt. 9.0  
 Top Packer Depth 4356 Drill Collars Run 242 Vis SS  
 Bottom Packer Depth 4361 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 4398 Chlorides 600 ppm System LCM 2.0

Blow Description I.F.-30-1/4 INT. Blow Dies in 10min  
I.S.I-60-No B.B.  
F.F.-30-No Blow  
F.S.I-60-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>mud / w few oil specs</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 1 BHT 123 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2,133</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>01:00:00</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>01:20:00</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>03:45:00</u>
(D) Initial Shut-In <u>119</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:45:00</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:33:00</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>114 R.T</u> 176.70	Comments <u>Thank-you</u>
(G) Final Shut-In <u>52</u>	<input type="checkbox"/> Sampler	<u>Loaded tool 10:00AM</u>
(H) Final Hydrostatic <u>2,124</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1751.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1751.70</u>	

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

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acct.  
Prod - LH

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139401  
Invoice Date: Oct 24, 2013  
Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61403	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 24, 2013	11/23/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Walter Bros #1-6		
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	EQUIPMENT OPERATOR	Talon Jones		

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

ONLY IF PAID ON OR BEFORE

Nov 18, 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>

# ALLIED OIL & GAS SERVICES, LLC 061403

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

OKLSX

DATE <u>10-24-13</u>	SEC. <u>6</u>	TWP. <u>1s</u>	RANGE <u>35 W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:22 PM</u>	JOB FINISH <u>10:38 PM</u>
LEASE <u>Walter Bros</u>	WELL # <u>1-6</u>	LOCATION <u>Beardsley N to state line</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>(N)</u>		3W <u>WINTO</u>					

CONTRACTOR Murfin 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 265'

CASING SIZE 8 7/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15,920 BBL

OWNER Same

CEMENT AMOUNT ORDERED 245,565 COM

39500

COMMON 245,565 @ 12.90 4385.50

POZMIX @

GEL @

CHLORIDE 9,565 @ 64.00 576.00

ASC @

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING 257.25 c/yft @ 2.48 637.98

MILEAGE 2.62707/mile 1186.72 246.88

TOTAL 8066.36

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Perland

# 422 HELPER Ferry Heinrich

BULK TRUCK DRIVER Talon Jones

# 341

BULK TRUCK DRIVER

#

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Murfin

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB 265'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 80 miles @ 7.20 576.00

MANIFOLD head @ 225.00

Light vehicle @ 4.40 352.00

TOTAL 2755.25

PLUG & FLOAT EQUIPMENT

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

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

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

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

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

TOTAL \_\_\_\_\_

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

PRINTED NAME Arno Cabezas

SIGNATURE Arno Cabezas

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

TOTAL CHARGES 10,821.61

DISCOUNT 3,787.56 IF PAID IN 30 DAYS

7,034.04 Net.



**CONSOLIDATED**  
Oil Well Services, LLC

*Accto*  
*cc: WF*  
*cc: LK*  
*cc: LK*

**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 # 263703

Invoice Date: 11/11/2013 Terms: 10/10/30, n/30

Page 1

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

*Bras*  
WALTERS 1-6  
44479  
1-15-35W  
11-01-2013  
KS

USED FOR IC-103  
APPROVED JR

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
1101	CAL SEAL	564.00	.5200	293.28
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
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
4136	TURBOLIZER 5 1/2"	14.00	75.7500	1060.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	318.2500	318.25
4310	ROTATING HEAD	1.00	150.0000	150.00
4315	ROTATING SCRATCHERS	10.00	94.5000	945.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1719.72
9995-130	CEMENT EQUIPMENT DISCOUNT	-665.35

Description	Hours	Unit Price	Total
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
T-127 TON MILEAGE DELIVERY	1.00	1542.38	1542.38
566 TON MILEAGE DELIVERY	1.00	1542.37	1542.37

Amount Due 25209.28 if paid after 12/11/2013

Parts:	17197.20	Freight:	.00	Tax:	1222.72	AR	22688.35
Labor:	.00	Misc:	.00	Total:	22688.35		
Sublt:	-2385.07	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_





263703

TICKET NUMBER 44479

LOCATION Oakley, MS

FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-1-13	S406	Walters #1-6	1	15	55N	Rehlers
CUSTOMER <u>Martin Drilling</u>			Bands/legs 10 to state Long 3W 10.00			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			530718	Dene R		
STATE			519127	Cody R		
ZIP CODE			500	Jeremy S		

JOB TYPE long string HOLE SIZE 7 7/8" HOLE DEPTH 4550 CASING SIZE & WEIGHT 5 1/2" 15.25#  
 CASING DEPTH 4528.50 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 11#/14# SLURRY VOL 2.9/1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 21.13'  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on Martin Drilling rig #2. Flat cement  
 Turbulizers on seats # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 33, 51 Baskets on seats # 11, 34, 52  
 Run casing to bottom circulate casing. Circ. Pump. Spillwater mud flush 500 sacks  
 mix 2000 lbs multi-dense cement + tailored with 2000 lbs cure with 5" Redwood shubalane  
 Chopped pump + lines released plug dis placed 107 7.641's water with 1400 lit) pres  
 and plug with 1900 lbs. plus hold cement did circulate 200 lbs to pit  
 mix 30525 RH 20500 MH

Thanks Miles & 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	23.5 tons	Ton mileage delivery	1.75	411.25
11045	300 Sks	Class A cement	18.55	5565.00
1126	200 Sks	Circ. Cement	23.70	4740.00
1110A	1000 #	Wal Seal	1.56	1560.00
1107	150 #	Flu Seal	2.97	445.50
1101	564 #	Cal Seal	1.52	293.28
1102	564 #	Calcium chlorate	1.94	530.16
1111A	564 #	mesasiliate	2.52	1421.28
1110B	564 #	Bentonite gel	27	152.28
1142A	2 gal	KCL	41.10	82.20
1144G	30 gal	Mud Flush	1.00	300.00
9130	14	Turbulizers 5 1/2"	75.75	1060.50
4159	1	Fleet Shaw	433.75	433.75
4454	1	5 1/2" latch load plug	318.25	318.25
4310	1	Rotating head	150.00	150.00
4315	10	Rotating scratches	94.50	945.00
Sub total	23850.70	1055/08 discount	2385.07	21465.63
			7.9	SALES TAX 1222.72
				ESTIMATED TOTAL 22688.35

AUTHORIZATION Buck Selas TITLE \_\_\_\_\_ 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.