



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1173652
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: _____



1173652

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 |
|--|---|

| 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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

MDCI
Walter #1-1
330' FNL 2360' FEL
Sec. 1-T1S-R36W
3195' KB

Berexco
Cheryl #16-31
660' FSL 760' FEL
Sec. 31-T1N-R31W
3078' KB

| Formation | Sample top | Datum | Ref | Log Top | Datum | Ref | Log Top | Datum |
|-------------|------------|-------|------|---------|-------|------|---------|-------|
| Anhydrite | 3131 | +64 | -5 | 3127 | +68 | -1 | 3009 | +69 |
| B/Anhydrite | 3161 | +34 | +1 | 3159 | +36 | +3 | 3045 | +33 |
| Neva | 3609 | -414 | -2 | 3605 | -410 | +2 | 3490 | -412 |
| Red Eagle | 3671 | -476 | -1 | 3668 | -473 | +2 | 3553 | -475 |
| Foraker | 3717 | -522 | -1 | 3713 | -518 | +3 | 3599 | -521 |
| Topeka | 3923 | -728 | -1 | 3920 | -725 | +2 | 3805 | -727 |
| Oread | 4037 | -842 | -2 | 4034 | -839 | +1 | 3918 | -840 |
| Lansing | 4139 | -944 | -1 | 4138 | -943 | Flat | 4021 | -943 |
| Stark | 4354 | -1159 | Flat | 4352 | -1157 | +2 | 4237 | -1159 |
| BKC | 4407 | -1212 | -1 | 4404 | -1209 | +2 | 4289 | -1211 |
| RTD | 4520 | -1325 | | | | | 4585 | -1507 |
| LTD | | | | 4518 | -1323 | | 4587 | -1509 |

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Walter #1-1**

FIELD **KB 3195'**

LOCATION **3307nl & 23607el**

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

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

CONTRACTOR **Murfin Drilling Co. Inc. rig #14**

SPUD **8/22/2013** COMP **8/31/2013**

RTD **4:52⁰⁰** LTD **4:51⁶**

MUD UP **3:33³⁷** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3500** TO **4458'**

DRILLING TIME KEPT FROM **3500** TO **4458'**

SAMPLES EXAMINED FROM **3500** TO **4458'**

GEOLOGICAL SUPERVISION FROM **3549'**

GEOLOGIST ON WELL **Robert D. Hendrix**

Possible/Undetermined/Miscellaneous
Promer Energy Services

MEASUREMENTS ARE ALL FROM **Kelly Busting**

CASING CONDUCTOR SURFACE **8-5/8" @ 3688'** PRODUCTION **5-1/2" @ 4112'**

ELEVATIONS

KB 3195'

DF

GL 3185'

1

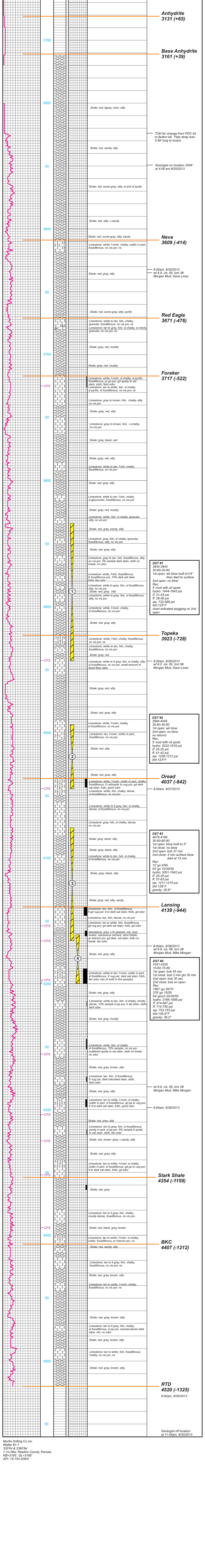
| FORMATION TOPS | ELECTRIC LOG | SAMPLE |
|----------------|--------------|--------------|
| Anhydrite | 3127 (-489) | 3131 (-495) |
| Neva | 3604 (-409) | 3609 (-414) |
| Foraker | 3713 (-518) | 3717 (-522) |
| Topeka | 3920 (-725) | 3923 (-728) |
| Oread | 4033 (-838) | 4037 (-842) |
| Lansing | 4138 (-943) | 4139 (-944) |
| Stark Shale | 4332 (-1157) | 4334 (-1159) |
| BKC | 4404 (-1209) | 4407 (-1212) |



AP# 15-153-20941

REMARKS:

It is recommended that casing be set to further evaluate the Lansing A and D zones after positive DST's. It is also recommended that further evaluation be done on the E, H, I, and J zones in the Lansing.



Murfin Drilling Co Inc
Walter #1-1
3307nl & 23607el
1-1s-36w, Rawlins County, Kansas
KB=3195', GL=3185'
AP# 15-153-20941

Geologist off location at 11:45am, 8/30/2013



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Walter #1-1

1-1s-36w Rawlins KS

Start Date: 2013.08.26 @ 03:58:00

End Date: 2013.08.26 @ 12:02:00

Job Ticket #: 53509 DST #: 1

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

Printed: 2013.09.03 @ 11:22:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

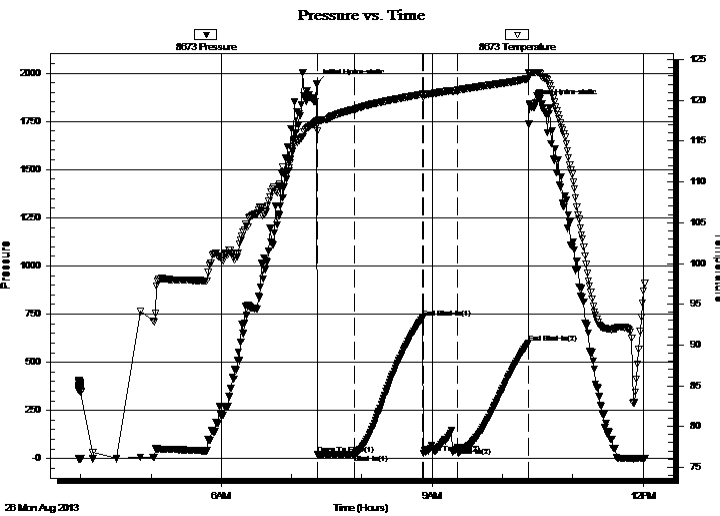
1-1s-36w Rawlins KS
Walter #1-1
 Job Ticket: 53509 **DST#: 1**
 Test Start: 2013.08.26 @ 03:58:00

GENERAL INFORMATION:

Formation: **Stottler - Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:22:00
 Time Test Ended: 12:02:00
 Interval: **3834.00 ft (KB) To 3943.00 ft (KB) (TVD)**
 Total Depth: 3943.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 61
 Reference Elevations: 3195.00 ft (KB)
 3184.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8673 Inside
 Press @ Run Depth: 56.54 psig @ 3835.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.26 End Date: 2013.08.26 Last Calib.: 2013.08.26
 Start Time: 03:58:01 End Time: 12:02:00 Time On Btm: 2013.08.26 @ 07:21:30
 Time Off Btm: 2013.08.26 @ 10:23:00

TEST COMMENT: 30 IF - Surface blow built to 1/4" @ 15 mins died back to surface blow
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1944.03 | 117.45 | Initial Hydro-static |
| 1 | 21.31 | 116.23 | Open To Flow (1) |
| 32 | 24.18 | 118.91 | Shut-In(1) |
| 91 | 732.07 | 120.76 | End Shut-In(1) |
| 91 | 28.42 | 120.34 | Open To Flow (2) |
| 121 | 56.54 | 121.26 | Shut-In(2) |
| 181 | 598.79 | 122.66 | End Shut-In(2) |
| 182 | 1843.16 | 123.31 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 5.00 | Mud w / oil spots - 100%M | 0.02 |
| | | |
| | | |
| | | |
| | | |

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

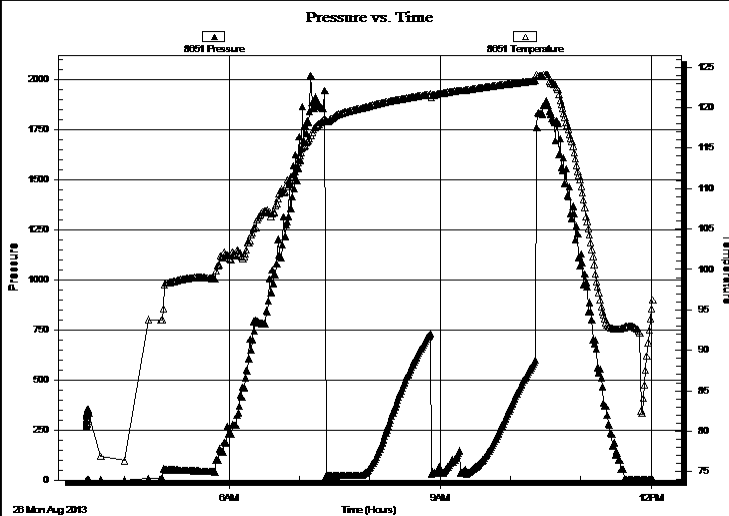
1-1s-36w Rawlins KS
Walter #1-1
 Job Ticket: 53509 **DST#: 1**
 Test Start: 2013.08.26 @ 03:58:00

GENERAL INFORMATION:

Formation: **Stottler - Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:22:00 Tester: Ryan Nichols
 Time Test Ended: 12:02:00 Unit No: 61
 Interval: **3834.00 ft (KB) To 3943.00 ft (KB) (TVD)** Reference Elevations: 3195.00 ft (KB)
 Total Depth: 3943.00 ft (KB) (TVD) 3184.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8651 Outside
 Press @ Run Depth: psig @ 3835.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.26 End Date: 2013.08.26 Last Calib.: 2013.08.26
 Start Time: 03:58:01 End Time: 12:02:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - Surface blow built to 1/4" @ 15 mins died back to surface blow
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



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

| Recovery | | |
|-------------|---------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 5.00 | Mud w / oil spots - 100%M | 0.02 |
| | | |
| | | |
| | | |
| | | |
| | | |

| 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 #1-1

Job Ticket: 53509

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.08.26 @ 03:58:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3301.00 ft | Diameter: 3.88 inches | Volume: 48.27 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: 535.00 ft | Diameter: 2.25 inches | Volume: 2.63 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 50.90 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 30.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 3834.00 ft | | | Final 70000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 109.00 ft | | | |
| Tool Length: | 137.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|-----------------|-------|------|---------|---------|--------------------------------|
| Shut In Tool | 5.00 | | | 3811.00 | |
| Hydraulic tool | 5.00 | | | 3816.00 | |
| Jars | 5.00 | | | 3821.00 | |
| Safety Joint | 3.00 | | | 3824.00 | |
| Packer | 5.00 | | | 3829.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3834.00 | |
| Stubb | 1.00 | | | 3835.00 | |
| Recorder | 0.00 | 8673 | Inside | 3835.00 | |
| Recorder | 0.00 | 8651 | Outside | 3835.00 | |
| Perforations | 10.00 | | | 3845.00 | |
| change Over Sub | 1.00 | | | 3846.00 | |
| Drill Pipe | 93.00 | | | 3939.00 | |
| Change Over Sub | 1.00 | | | 3940.00 | |
| Bullnose | 3.00 | | | 3943.00 | 109.00 Bottom Packers & Anchor |

Total Tool Length: 137.00



**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 #1-1

Job Ticket: 53509

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.08.26 @ 03:58:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 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 w / oil spots - 100%M | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

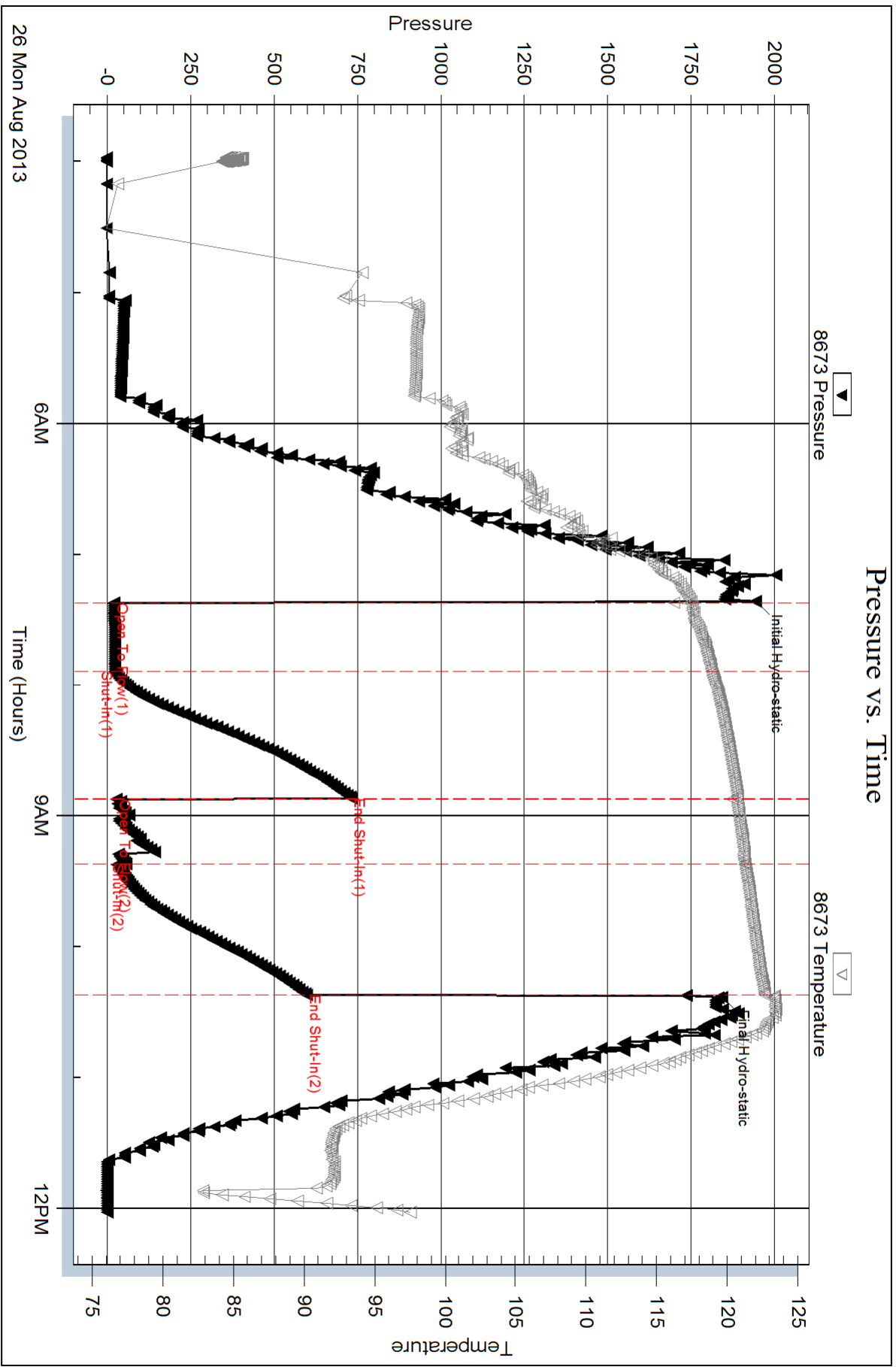
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

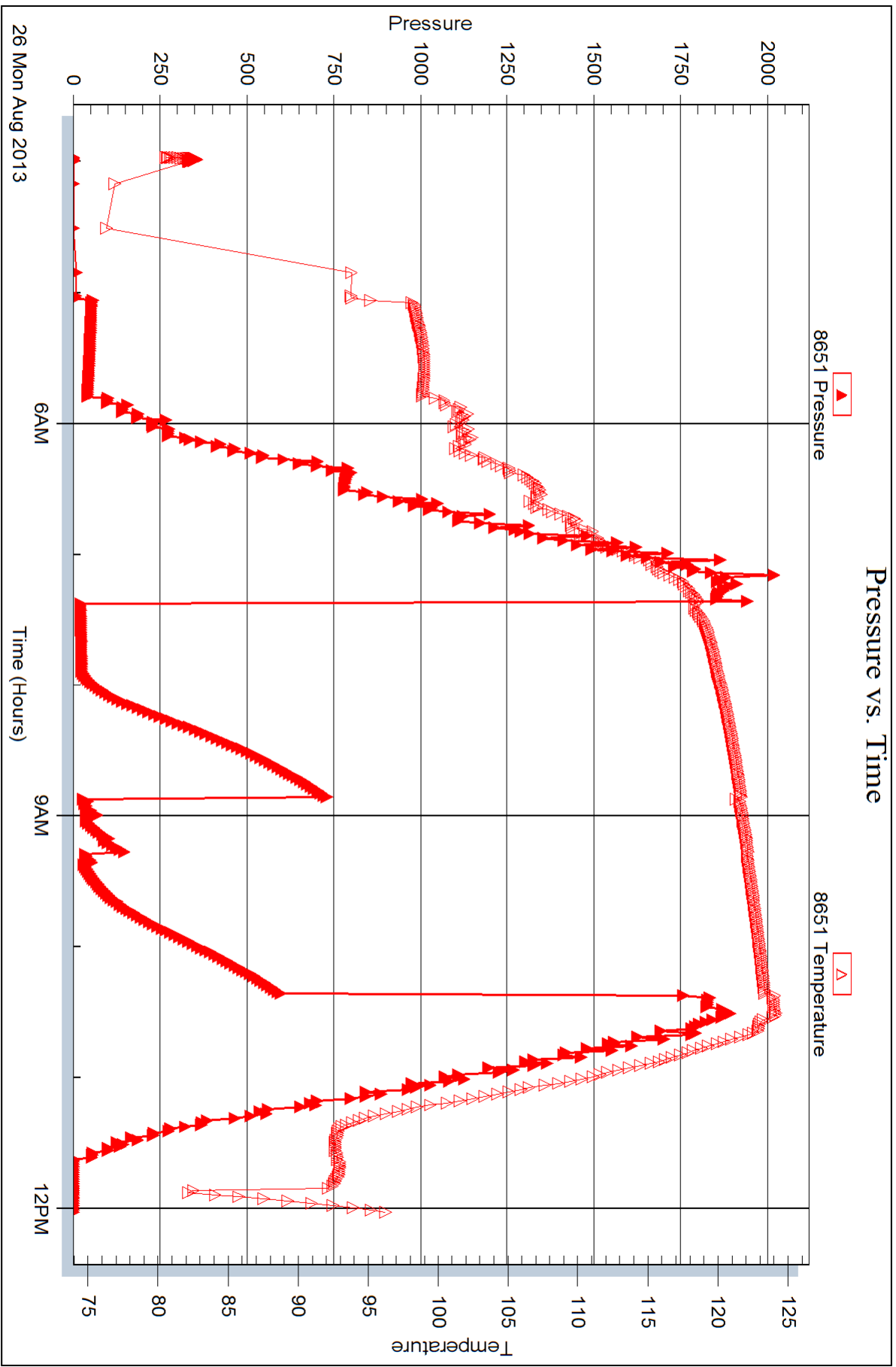


Serial #: 8651

Outside Murfin Drilling Co.

Walter #1-1

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 #1-1

1-1s-36w Rawlins KS

Start Date: 2013.08.26 @ 00:00:41

End Date: 2013.08.26 @ 07:19:41

Job Ticket #: 53510 DST #: 2

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

Printed: 2013.09.03 @ 11:18:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 53510

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.08.26 @ 00:00:41

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:41

Time Test Ended: 07:19:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 61

Interval: 3994.00 ft (KB) To 4045.00 ft (KB) (TVD)

Reference Elevations: 3195.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

3184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 42.11 psig @ 3995.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.26

End Date:

2013.08.26

Last Calib.:

2013.08.27

Start Time: 00:00:42

End Time:

07:19:41

Time On Btm:

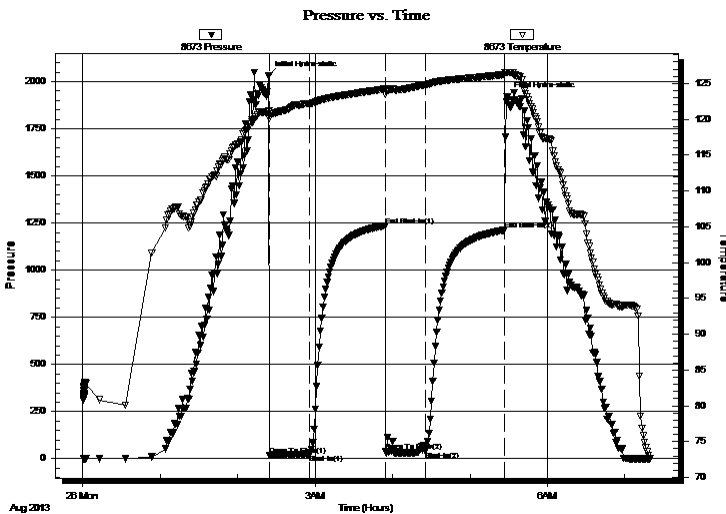
2013.08.26 @ 02:24:11

Time Off Btm:

2013.08.26 @ 05:28:41

TEST COMMENT: 30 IF - Surface blow
60 ISI - No return
30 FF - No blow
60 FSI - No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2031.94 | 121.13 | Initial Hydro-static |
| 1 | 19.76 | 120.09 | Open To Flow (1) |
| 32 | 25.26 | 122.19 | Shut-In(1) |
| 90 | 1236.47 | 124.22 | End Shut-In(1) |
| 91 | 41.19 | 123.40 | Open To Flow (2) |
| 121 | 42.11 | 124.80 | Shut-In(2) |
| 183 | 1212.40 | 126.22 | End Shut-In(2) |
| 185 | 1918.29 | 126.54 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 5.00 | Mud w / oil spots - 100%M | 0.02 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 53510

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.08.26 @ 00:00:41

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3456.00 ft | Diameter: 3.88 inches | Volume: 50.54 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: 535.00 ft | Diameter: 2.25 inches | Volume: 2.63 bbl | Weight to Pull Loose: | 80000.00 lb |
| | | | <u>Total Volume: 53.17 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 25.00 ft | | | String Weight: Initial | 70000.00 lb |
| Depth to Top Packer: | 3994.00 ft | | | Final | 70000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 51.00 ft | | | | |
| Tool Length: | 79.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |
| Tool Comments: | | | | | |

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3971.00 | |
| Hydraulic tool | 5.00 | | | 3976.00 | |
| Jars | 5.00 | | | 3981.00 | |
| Safety Joint | 3.00 | | | 3984.00 | |
| Packer | 5.00 | | | 3989.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3994.00 | |
| Stubb | 1.00 | | | 3995.00 | |
| Recorder | 0.00 | 8673 | Inside | 3995.00 | |
| Recorder | 0.00 | 8651 | Outside | 3995.00 | |
| Perforations | 13.00 | | | 4008.00 | |
| change Over Sub | 1.00 | | | 4009.00 | |
| Drill Pipe | 32.00 | | | 4041.00 | |
| Change Over Sub | 1.00 | | | 4042.00 | |
| Bullnose | 3.00 | | | 4045.00 | 51.00 Bottom Packers & Anchor |

Total Tool Length: 79.00



**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 #1-1

Job Ticket: 53510

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.08.26 @ 00:00:41

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 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 w / oil spots - 100%M | 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:

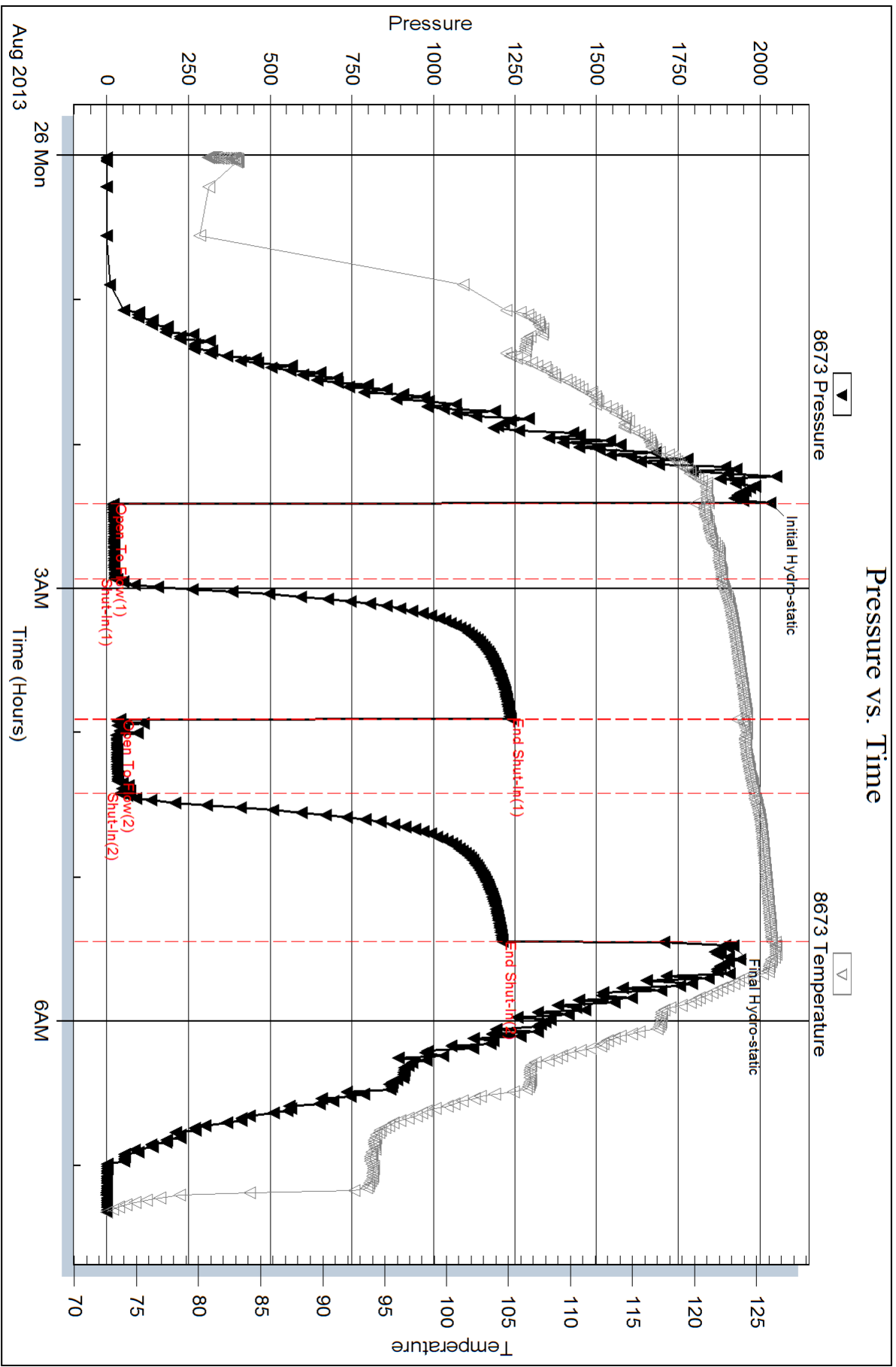
Serial #: 8673

Inside

Murfin Drilling Co.

Walter #1-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Walter #1-1

1-1s-36w Rawlins KS

Start Date: 2013.08.27 @ 20:18:00

End Date: 2013.08.28 @ 04:23:30

Job Ticket #: 53511 DST #: 3

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

Printed: 2013.09.03 @ 11:17:13

Murfin Drilling Co.
1-1s-36w Rawlins KS
Walter #1-1
DST # 3
Lansing " A "
2013.08.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 53511

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.08.27 @ 20:18:00

GENERAL INFORMATION:

Formation: **Lansing " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:36:00

Time Test Ended: 04:23:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 61

Interval: 4076.00 ft (KB) To 4166.00 ft (KB) (TVD)

Reference Elevations: 3195.00 ft (KB)

Total Depth: 4166.00 ft (KB) (TVD)

3184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8673 Inside

Press @ Run Depth: 63.12 psig @ 4077.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.27 End Date: 2013.08.28

Last Calib.: 2013.08.28

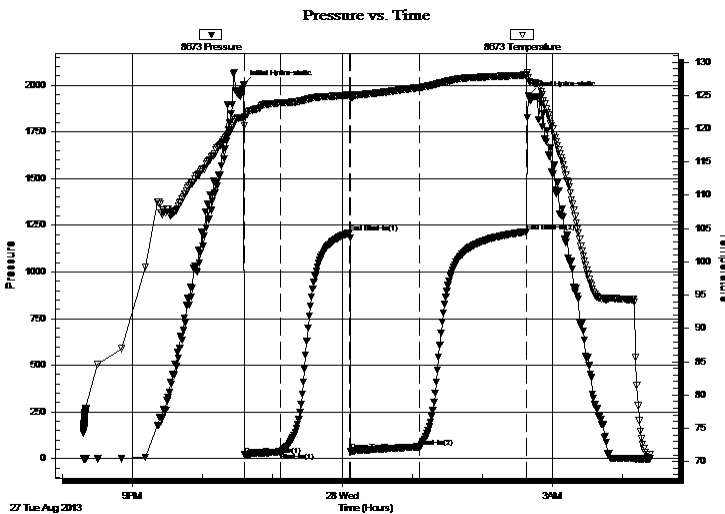
Start Time: 20:18:01 End Time: 04:23:30

Time On Btm: 2013.08.27 @ 22:35:30

Time Off Btm: 2013.08.28 @ 02:39:30

TEST COMMENT: 30 IF - 1/4" blow built to 5"
60 ISI - No return
60 FF - Surface blow built to BoB @ 37 mins
90 FSI - Surface blow @ 5 mins died @ 15 mins

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2000.91 | 121.61 | Initial Hydro-static |
| 1 | 20.08 | 120.48 | Open To Flow (1) |
| 32 | 35.16 | 123.90 | Shut-In(1) |
| 91 | 1210.53 | 125.07 | End Shut-In(1) |
| 92 | 37.41 | 124.68 | Open To Flow (2) |
| 151 | 63.12 | 126.17 | Shut-In(2) |
| 242 | 1215.51 | 128.05 | End Shut-In(2) |
| 244 | 1942.24 | 127.63 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 93.00 | GMCO - 10%G - 35%M - 55%o | 0.46 |
| 15.00 | GO - 5%G - 95%o | 0.07 |
| | | |
| | | |
| | | |

* 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

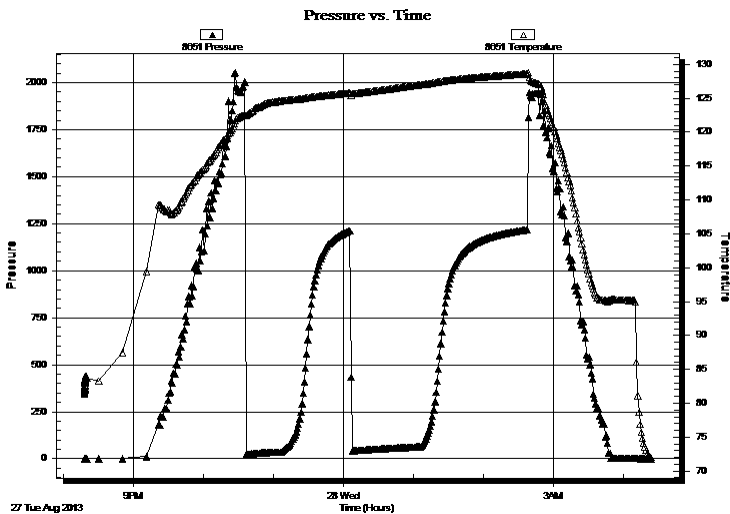
1-1s-36w Rawlins KS
Walter #1-1
Job Ticket: 53511 **DST#: 3**
Test Start: 2013.08.27 @ 20:18:00

GENERAL INFORMATION:

Formation: **Lansing " A "**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:36:00 Tester: Ryan Nichols
 Time Test Ended: 04:23:30 Unit No: 61
Interval: 4076.00 ft (KB) To 4166.00 ft (KB) (TVD) Reference Elevations: 3195.00 ft (KB)
 Total Depth: 4166.00 ft (KB) (TVD) 3184.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8651 Outside
 Press @ Run Depth: psig @ 4077.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.27 End Date: 2013.08.28 Last Calib.: 2013.08.28
 Start Time: 20:18:01 End Time: 04:23:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 5"
 60 ISI - No return
 60 FF - Surface blow built to BoB @ 37 mins
 90 FSI - Surface blow @ 5 mins died @ 15 mins



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 93.00 | GMCO - 10%G - 35%M - 55%o | 0.46 |
| 15.00 | GO - 5%G - 95%o | 0.07 |
| | | |
| | | |
| | | |

* 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.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 53511

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.08.27 @ 20:18:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3520.00 ft | Diameter: 3.88 inches | Volume: 51.48 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: 535.00 ft | Diameter: 2.25 inches | Volume: 2.63 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | <u>Total Volume: 54.11 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial 76000.00 lb |
| Depth to Top Packer: | 4076.00 ft | | | Final 78000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 90.00 ft | | | |
| Tool Length: | 118.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|-----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4053.00 | |
| Hydraulic tool | 5.00 | | | 4058.00 | |
| Jars | 5.00 | | | 4063.00 | |
| Safety Joint | 3.00 | | | 4066.00 | |
| Packer | 5.00 | | | 4071.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4076.00 | |
| Stubb | 1.00 | | | 4077.00 | |
| Recorder | 0.00 | 8673 | Inside | 4077.00 | |
| Recorder | 0.00 | 8651 | Outside | 4077.00 | |
| Perforations | 20.00 | | | 4097.00 | |
| change Over Sub | 1.00 | | | 4098.00 | |
| Drill Pipe | 64.00 | | | 4162.00 | |
| Change Over Sub | 1.00 | | | 4163.00 | |
| Bullnose | 3.00 | | | 4166.00 | 90.00 Bottom Packers & Anchor |

Total Tool Length: 118.00



**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 #1-1

Job Ticket: 53511

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.08.27 @ 20:18:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 6297.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 29.8 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 93.00 | GMCO - 10%G - 35%M - 55%o | 0.457 |
| 15.00 | GO - 5%G - 95%o | 0.074 |

Total Length: 108.00 ft Total Volume: 0.531 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 32 @ 82 DEG F = 29.8 COR 60 DEG F

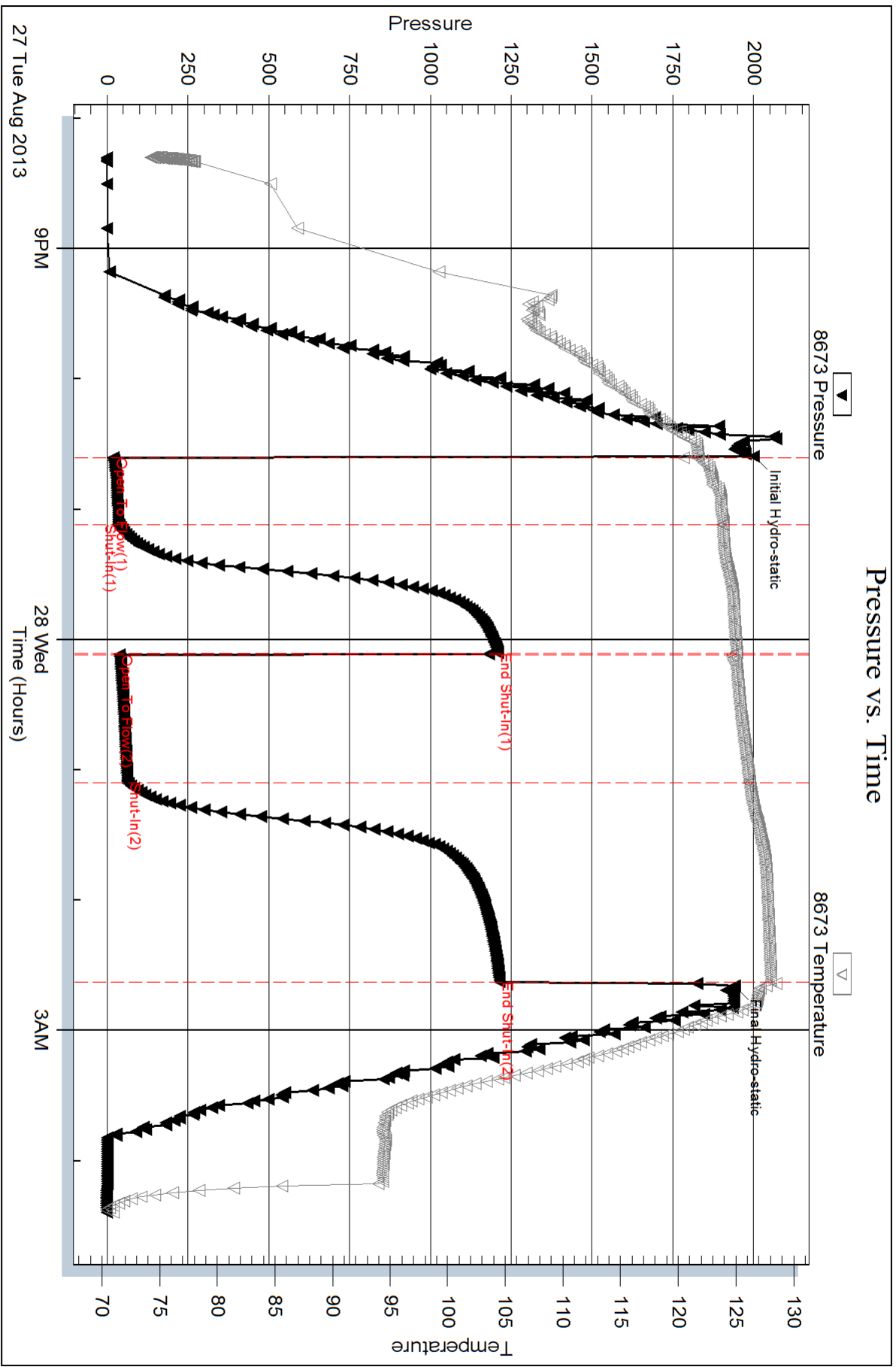
Serial #: 8673

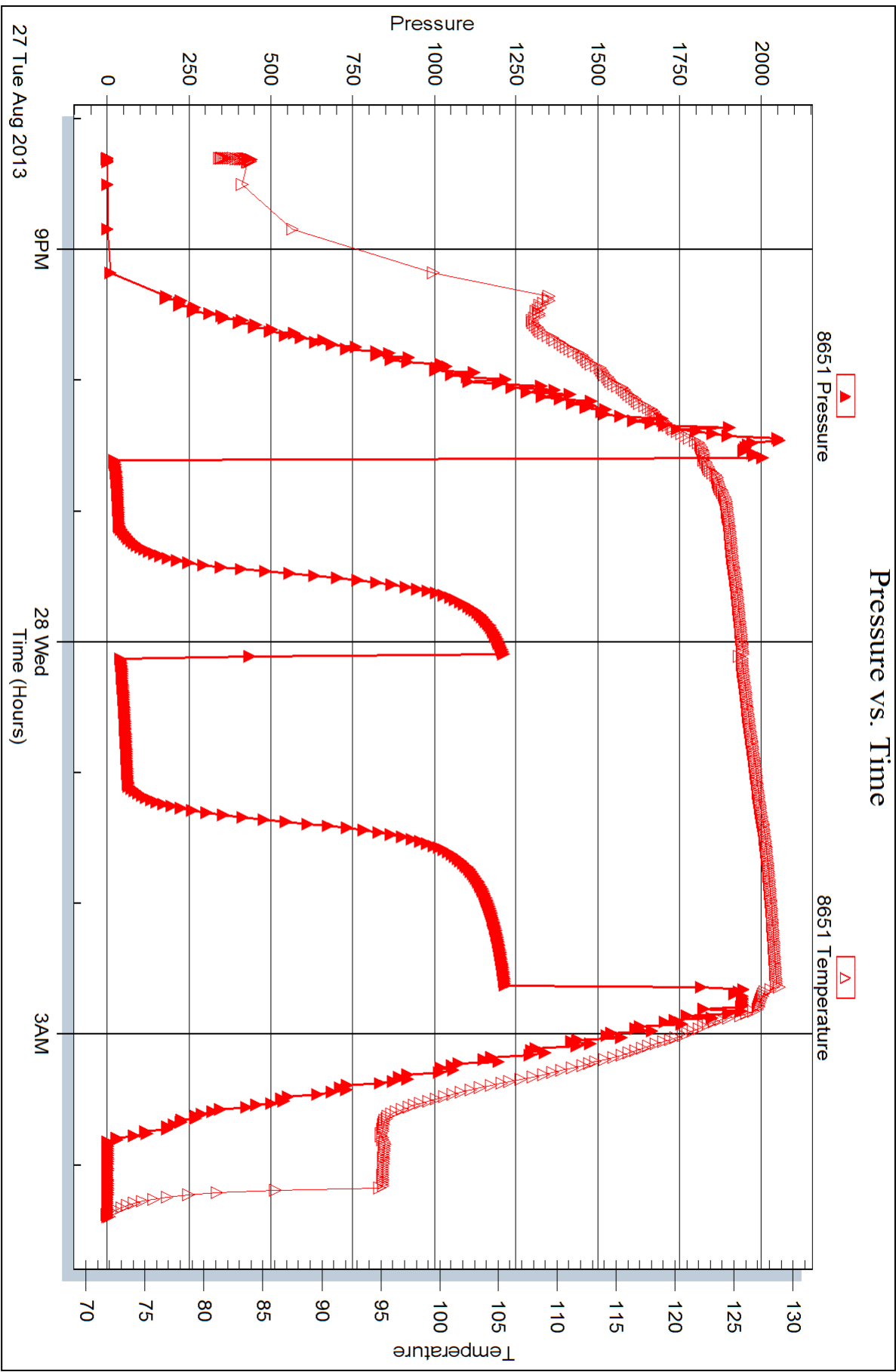
Inside

Murfin Drilling Co.

Walter #1-1

DST Test Number: 3







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Walter #1-1

1-1s-36w Rawlins KS

Start Date: 2013.08.28 @ 12:10:00

End Date: 2013.08.28 @ 20:52:30

Job Ticket #: 52735 DST #: 4

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

Printed: 2013.09.03 @ 11:15:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

ATTN: Robert Hendrix

Job Ticket: 52735

DST#: 4

Test Start: 2013.08.28 @ 12:10:00

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:00

Time Test Ended: 20:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer

Unit No: 61

Interval: 4161.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3195.00 ft (KB)

3184.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8673 Inside

Press @ Run Depth: 750.26 psig @ 4162.00 ft (KB)

Start Date: 2013.08.28

End Date:

2013.08.28

Start Time: 12:10:01

End Time:

20:52:30

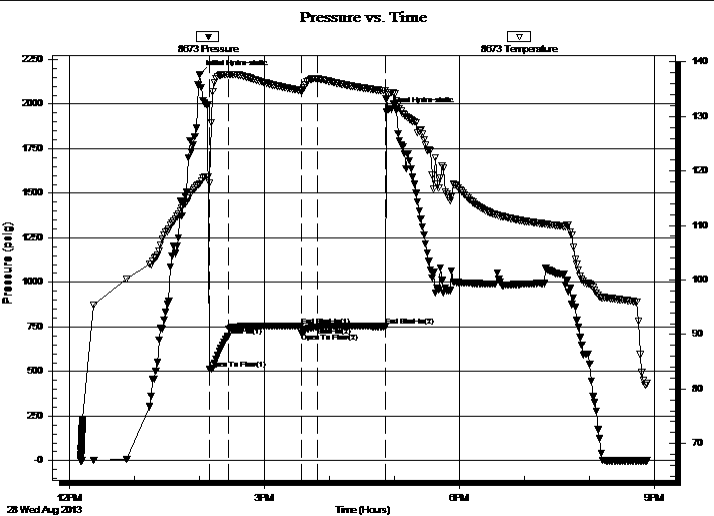
Capacity: 8000.00 psig

Last Calib.: 2013.08.28

Time On Btm: 2013.08.28 @ 14:00:00

Time Off Btm: 2013.08.28 @ 16:52:00

TEST COMMENT: IF: Strong blow, Built to B.O.B in 45 sec.
IS: Blow back after 20 secs. Built to B.O.B in 2 mins. gas to surface in 30 mins.
FF: Strong blow, Built to B.O.B in 30 secs.
FS: Blow back, Built to B.O.B int.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2166.31 | 117.62 | Initial Hydro-static |
| 9 | 514.26 | 117.75 | Open To Flow (1) |
| 26 | 697.13 | 137.66 | Shut-In(1) |
| 94 | 753.08 | 134.78 | End Shut-In(1) |
| 94 | 714.99 | 134.75 | Open To Flow (2) |
| 109 | 750.26 | 136.86 | Shut-In(2) |
| 171 | 753.04 | 134.67 | End Shut-In(2) |
| 172 | 1956.34 | 133.30 | Final Hydro-static |

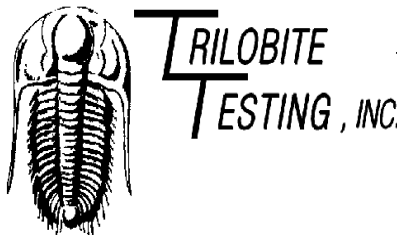
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 94.00 | gocm-30%g20%o50%m | 0.46 |
| 376.00 | go-15%g85%o | 1.85 |
| 1881.00 | go-30%g70%o | 26.88 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Murfin Drilling Co.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 52735

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.08.28 @ 12:10:00

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:09:00

Time Test Ended: 20:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer

Unit No: 61

Interval: 4161.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3195.00 ft (KB)

3184.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8651

Outside

Press @ Run Depth: psig @ 4162.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.28

End Date: 2013.08.28

Last Calib.: 2013.08.28

Start Time: 12:10:01

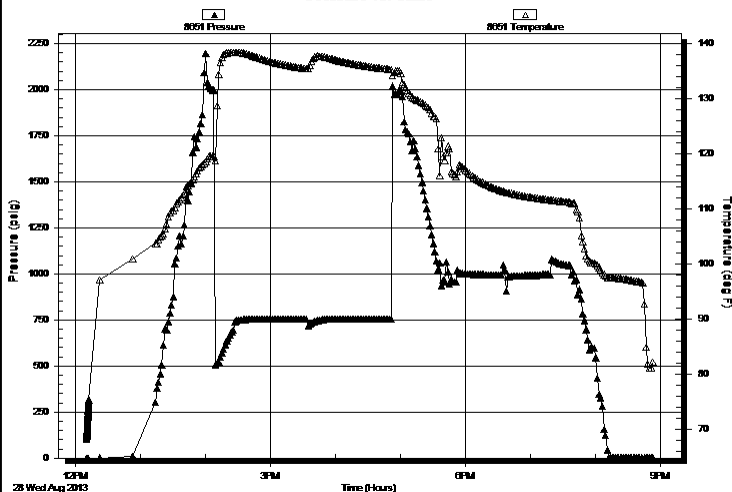
End Time: 20:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow, Built to B.O.B in 45 sec.
IS: Blow back after 20 secs. Built to B.O.B in 2 mins. gas to surface in 30 mins.
FF: Strong blow, Built to B.O.B in 30 secs.
FS: Blow back, Built to B.O.B int.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 94.00 | gocm-30%g20%o50% m | 0.46 |
| 376.00 | go-15%g85%o | 1.85 |
| 1881.00 | go-30%g70%o | 26.88 |
| | | |
| | | |
| | | |

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.

1-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Walter #1-1

Job Ticket: 52735

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.08.28 @ 12:10:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3618.00 ft | Diameter: 3.88 inches | Volume: 52.91 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: 535.00 ft | Diameter: 2.25 inches | Volume: 2.63 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 55.54 bbl</u> | Tool Chased 2.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4161.00 ft | | | Final 80000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 109.00 ft | | | |
| Tool Length: | 137.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Shut In Tool | 5.00 | | | 4138.00 | |
| Hydraulic tool | 5.00 | | | 4143.00 | |
| Jars | 5.00 | | | 4148.00 | |
| Safety Joint | 3.00 | | | 4151.00 | |
| Packer | 5.00 | | | 4156.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4161.00 | |
| Stubb | 1.00 | | | 4162.00 | |
| Recorder | 0.00 | 8673 | Inside | 4162.00 | |
| Recorder | 0.00 | 8651 | Outside | 4162.00 | |
| Perforations | 10.00 | | | 4172.00 | |
| change Over Sub | 1.00 | | | 4173.00 | |
| Drill Pipe | 93.00 | | | 4266.00 | |
| Change Over Sub | 1.00 | | | 4267.00 | |
| Bullnose | 3.00 | | | 4270.00 | 109.00 Bottom Packers & Anchor |

Total Tool Length: 137.00



**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 #1-1

Job Ticket: 52735

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.08.28 @ 12:10:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 550.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 94.00 | gocm-30%g20%o50%m | 0.462 |
| 376.00 | go-15%g85%o | 1.849 |
| 1881.00 | go-30%g70%o | 26.877 |

Total Length: 2351.00 ft Total Volume: 29.188 bbl

Num Fluid Samples: 0

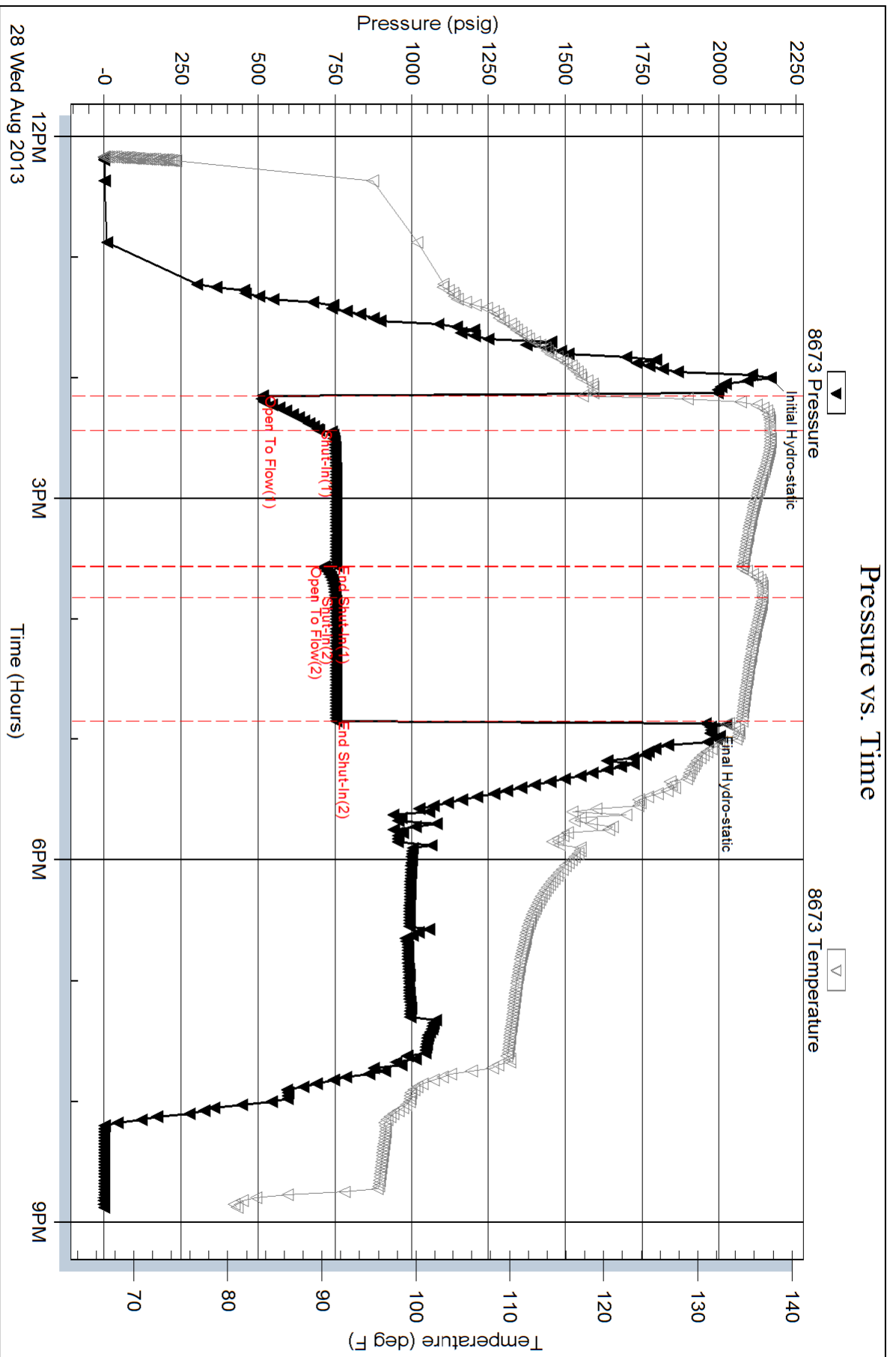
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

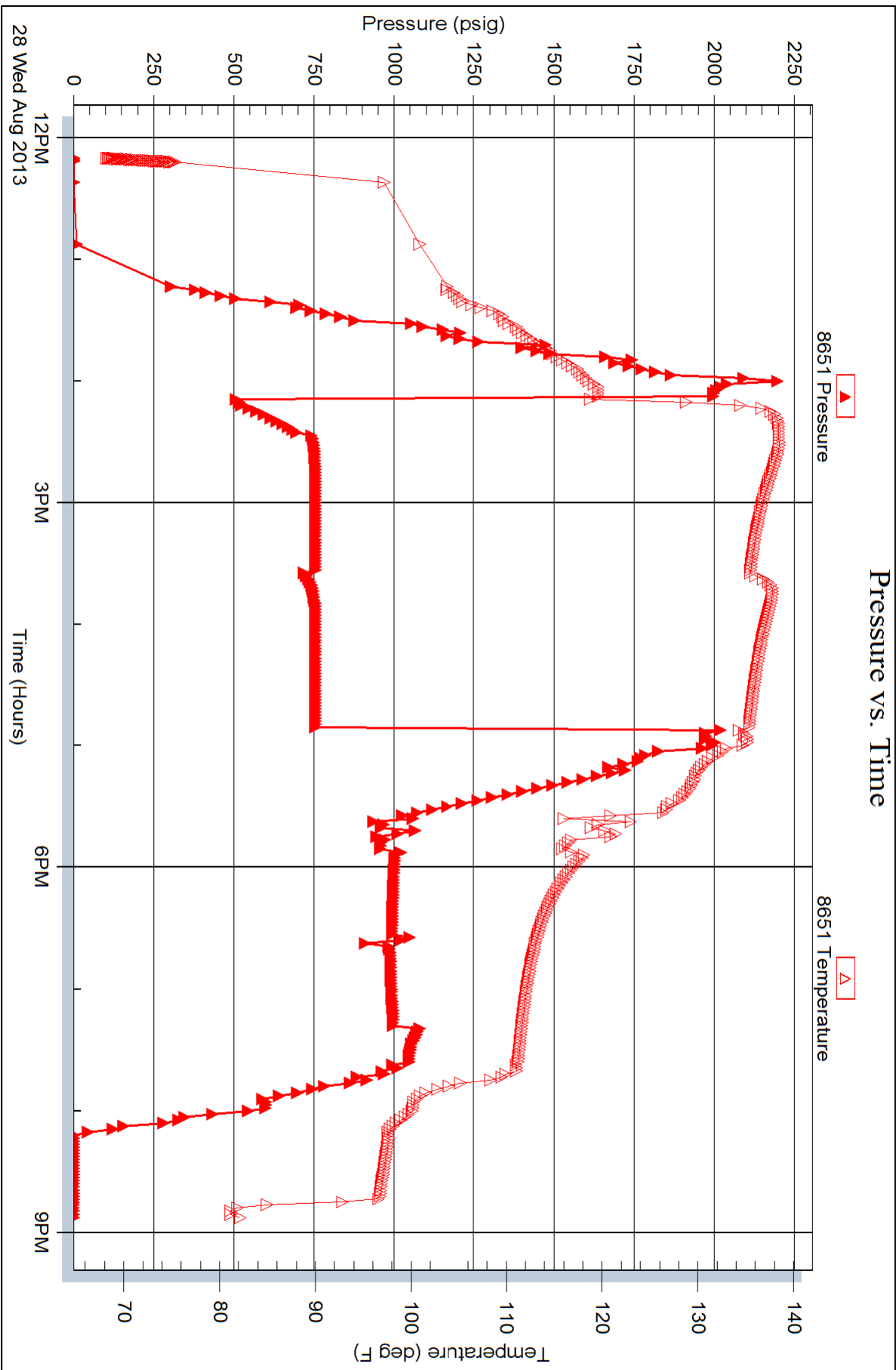


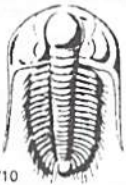
Serial #: 8651

Outside Murfin Drilling Co.

Walter #1-1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53509

Well Name & No. Walter # 1-1 Test No. 1 Date 8/26/13
 Company Martin Drilling Co. Elevation 3195 KB 3184 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Martin #14
 Location: Sec. 1 Twp. 15 Rge. 36 W Co. Rawlins State KS

Interval Tested 3834 - 3943 Zone Tested Stotter - Topoka
 Anchor Length 109' Drill Pipe Run 3301' Mud Wt. 9.2
 Top Packer Depth 3829 Drill Collars Run 535' Vis 62
 Bottom Packer Depth 3834 Wt. Pipe Run 0' WL 6.4
 Total Depth 3943 Chlorides 600 ppm System LCM 5

Blow Description IF - Surface blow built to 1/4" @ 15 mins died back to surface
IST - No return
FF - No blow
FSI - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|------------|------|
| <u>5'</u> | <u>Mud w/oil spots</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 Total 5' BHT 123° Gravity — API RW — @ — ° F Chlorides — ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1944</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>02:00</u> |
| (B) First Initial Flow <u>21</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>03:58</u> |
| (C) First Final Flow <u>24</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>07:22</u> |
| (D) Initial Shut-In <u>732</u> | <input checked="" type="checkbox"/> Circ Sub <u>NC</u> | T-Pulled <u>10:22</u> |
| (E) Second Initial Flow <u>26</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>12:02</u> |
| (F) Second Final Flow <u>56</u> | <input checked="" type="checkbox"/> Mileage <u>114 RT</u> 176.70 | Comments |
| (G) Final Shut-In <u>599</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1843</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |
| | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Packer |
| Initial Open <u>30</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Extra Copies |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Flow <u>30</u> | <input type="checkbox"/> Day Standby | Total <u>1651.70</u> |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1651.70</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. 53510

Well Name & No. Walter #1-T Test No. 2 Date 8/26/13
 Company Martin Drilling Co. Elevation 3195 KB 3184 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Martin #14
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 3994 - 4045 Zone Tested Oread
 Anchor Length 51' Drill Pipe Run 3456' Mud Wt. 9.2
 Top Packer Depth 3989 Drill Collars Run 535' Vis 62
 Bottom Packer Depth 3994 Wt. Pipe Run 0' WL 6.4
 Total Depth 4045 Chlorides 800 ppm System LCM 5

Blow Description IF - Surface blow
ISI - No return
FF - No blow
FSL - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|------------|------|
| <u>5'</u> | <u>Mud w/oil spots</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 5' BHT 126° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2032 Test 1250 T-On Location 23:30
 (B) First Initial Flow 20 Jars 250 T-Started 00:00
 (C) First Final Flow 25 Safety Joint 75 T-Open 02:24
 (D) Initial Shut-In 1236 Circ Sub NC T-Pulled 05:24
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 07:19

(F) Second Final Flow 42 Mileage 114 RT 176.70
 (G) Final Shut-In 1212 Sampler _____
 (H) Final Hydrostatic 1918 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____

Initial Open 30 Day Standby _____
 Initial Shut-In 60 Accessibility _____
 Final Flow 30
 Final Shut-In 60

Sub Total 1751.70

Our Representative [Signature]

Approved By _____
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53511

Well Name & No. Walter #1-1 Test No. 3 Date 8/27/13
 Company Martin Drilling Co. Elevation 3195 KB 3184 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Martin #14
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested @4076-4166 Zone Tested Lansing "A"
 Anchor Length 90' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4071 Drill Collars Run 535' Vis 97
 Bottom Packer Depth 4076 Wt. Pipe Run 0' WL 6.0
 Total Depth 4166 Chlorides 700 ppm System LCM 2

Blow Description IF - 1/4 blow built to 5"
ISI - No return
FF - Surface blow built to BoB @ 37 mins
FSI - Surface blow started @ 5 mins died @ 15 mins

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|---------------|------------|------------|--------------|------------|
| <u>15</u> | <u>60</u> | <u>5</u> | <u>95</u> | | |
| <u>93</u> | <u>GMCO</u> | <u>10</u> | <u>55</u> | | <u>35</u> |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |

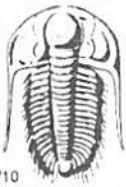
Rec Total 108' BHT 128° Gravity 29.8 API RW _____ @ _____ ° F Chlorides _____ ppm

- (A) Initial Hydrostatic 2001 Test 1250
- (B) First Initial Flow 20 Jars 250
- (C) First Final Flow 35 Safety Joint 75
- (D) Initial Shut-In 1211 Circ Sub NC
- (E) Second Initial Flow 37 Hourly Standby _____
- (F) Second Final Flow 63 Mileage 114 RT 176.70
- (G) Final Shut-In 1215 Sampler _____
- (H) Final Hydrostatic 1942 Straddle _____
- Initial Open _____ Shale Packer _____
- Initial Shut-In _____ Extra Packer _____
- Final Flow _____ Extra Recorder _____
- Final Shut-In _____ Day Standby _____
- Sub Total 1751.70 Accessibility _____

T-On Location 20:00
 T-Started 20:18
 T-Open 22:37
 T-Pulled 02:37
 T-Out 04:23

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1751.70
 MP/DST Disc't _____

Approved By _____ Our Representative _____
 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 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. 52735

4/10

Well Name & No. Walter 1-1 Test No. 4 Date 8-28-13
 Company Murfin Drilling Co. Elevation 3186 KB 3186 GL
 Address 250 N. water st. 300 W. 1st St. Ks. 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #14
 Location: Sec. 1 Twp. 1 Rge. 36 Co. Rawlins State Ks

Interval Tested 4161 4200 Zone Tested LRC-D
 Anchor Length 39 Drill Pipe Run 3618 Mud Wt. 8.9
 Top Packer Depth 4156 Drill Collars Run 538 Vis 66
 Bottom Packer Depth 4161 Wt. Pipe Run -0- WL 6.0
 Total Depth 4200 Chlorides 550 ppm System LCM 2#

Blow Description IF: Strong blow, Built to B.O.B in 45sec.
ISI: Bled off, Blow Back after 20secs. Built to B.O.B in 2mins. Gas to surface 30mins into shut-in
FF: Strong blow, Built to B.O.B in 30sec.
FSI: Blow Back, Built to B.O.B Int.

| Rec | Feet of go | %gas | %oil | %water | %mud |
|-------------|---------------------|-----------|-----------|--------|-----------|
| <u>1881</u> | | <u>30</u> | <u>70</u> | | |
| <u>376</u> | | <u>15</u> | <u>85</u> | | |
| <u>94</u> | <u>Feet of goem</u> | <u>30</u> | <u>30</u> | | <u>50</u> |
| | | | | | |
| | | | | | |

Rec Total 2351 BHT 136.9 Gravity 36.2 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2166 Test 1250 T-On Location 12:10
 (B) First Initial Flow 514 Jars 250 T-Started 12:10
 (C) First Final Flow 697 Safety Joint 75 T-Open 14:09
 (D) Initial Shut-In 753 Circ Sub _____ T-Pulled 16:50
 (E) Second Initial Flow 715 Hourly Standby _____ T-Out 20:52
 (F) Second Final Flow 750 Mileage 57 x 2 = 114 x 1.50 176.70 Comments _____
 (G) Final Shut-In 753 Sampler _____
 (H) Final Hydrostatic 1956 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1751.70
 MP/DST Disc't _____

Sub Total 1751.70

Approved By _____ Our Representative Chuck Hays

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PO Box 93999
Southlake, TX 76092

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

*acct.
Prod-L+1*

INVOICE

Invoice Number: 138185
Invoice Date: Aug 22, 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 | 61252 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | Aug 22, 2013 | 9/21/13 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|-----------------------|------------|----------|
| | | Walter #1-1 | | |
| 225.00 | CEMENT MATERIALS | Class A Common | 17.90 | 4,027.50 |
| 8.00 | CEMENT MATERIALS | Chloride | 64.00 | 512.00 |
| 236.26 | CEMENT SERVICE | Cubic Feet | 2.48 | 585.92 |
| 980.36 | CEMENT SERVICE | Ton Mileage | 2.60 | 2,548.96 |
| 1.00 | CEMENT SERVICE | Surface | 1,512.25 | 1,512.25 |
| 90.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 693.00 |
| 1.00 | CEMENT SERVICE | Manifold Head Rental | 275.00 | 275.00 |
| 90.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 396.00 |
| 1.00 | CEMENT SUPERVISOR | Alan Ryan | | |
| 1.00 | EQUIPMENT OPERATOR | Wayne McGhghy | | |

at 1500

| | |
|------------------------|------------------|
| Subtotal | 10,550.63 |
| Sales Tax | 358.62 |
| Total Invoice Amount | 10,909.25 |
| Payment/Credit Applied | |
| TOTAL | 10,909.25 |

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

\$ 3,692.72

ONLY IF PAID ON OR BEFORE

Sep 16, 2013

ALLIED OIL & GAS SERVICES, LLC 061252

257.95

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Dobbs, TX

| | | | | | | | |
|--------------------------------|------------------|--|-----------------|------------|-----------------------|--------------------------|---------------------------|
| DATE <u>8/22/13</u> | SEC. <u>1</u> | TWP. <u>1</u> | RANGE <u>36</u> | CALLED OUT | ON LOCATION | JOB START <u>2:30 PM</u> | JOB FINISH <u>3:30 PM</u> |
| LEASE <u>Walter</u> | WELL# <u>1-1</u> | LOCATION <u>Beardley NW 30 1N W 30</u> | | | COUNTY <u>Hendrix</u> | STATE <u>KY</u> | |
| OLD OR <u>NEW</u> (Circle one) | | N on lease Road to log | | | | | |

CONTRACTOR Martin 14 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 268 CEMENT AMOUNT ORDERED 225 ton 390 CC

CASING SIZE 8 5/8 DEPTH 262 95

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 268

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Alan

482 HELPER Wayne

BULK TRUCK

347 DRIVER Chad Clio (TWS)

BULK TRUCK

DRIVER

COMMON 225 @ 17.00 4027.50

POZMIX @

GEL @

CHLORIDE 8 @ 64.00 512.00

ASC @

@

@

@

@

@

@

@

@

@

@

HANDLING 236.25 @ 2.40 569.25

MILEAGE 268 ton/mile 10.893 ton 2548.26

TOTAL 2678.28

REMARKS:

Beardley, Circulate, 100% Cement, Displace Cement
Shut in.

Cement 268 Circulate

7 BBL 70 P.F.

Frank
Alan, Wayne, Sherry

CHARGE TO: Martin Dr. King

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 268 95

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 90 miles @ 7.70 693.00

MANIFOLD 4 Hds @ 225.00

Li Tr Vehicle 90 miles @ 4.40 396.00

TOTAL 2876.25

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.

SALES TAX (if Any) _____

TOTAL CHARGES 10,554.63

DISCOUNT 3,694.12 IF PAID IN 30 DAYS

6,860.51 Net

PRINTED NAME Greg Uvack

SIGNATURE Greg Uvack



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Accty -
cc: WIT
cc: Lin
cc: L-1

Invoice

| | |
|-----------|-----------|
| DATE | INVOICE # |
| 8/30/2013 | 24487 |

| |
|--|
| BILL TO |
| Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661 |

USED FOR

IC 103

APPROVED

JT

- Acidizing
- Cement
- Tool Rental

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|-------------------------------------|--|--------|---------|------------|-----------|---------------|-------------------|-------------|
| Net 30 | #1-1 | Walter | Rawlins | | Oil | Development | 5-1/2" LongString | Josh |
| PRICE REF. | DESCRIPTION | | | | QTY | UM | UNIT PRICE | AMOUNT |
| 575D | Mileage - 1 Way | | | | 150 | Miles | 6.00 | 900.00 |
| 578D-L | Pump Charge - Long String | | | | 1 | Job | 1,500.00 | 1,500.00 |
| 221 | Liquid KCL (Clayfix) | | | | 4 | Gallon(s) | 25.00 | 100.00T |
| 281 | Mud Flush | | | | 500 | Gallon(s) | 1.25 | 625.00T |
| 290 | D-Air | | | | 5 | Gallon(s) | 42.00 | 210.00T |
| 403-5 | 5 1/2" Cement Basket | | | | 3 | Each | 285.00 | 855.00T |
| 406-5 | 5 1/2" Latch Down Plug & Baffle | | | | 1 | Each | 275.00 | 275.00T |
| 407-5 | 5 1/2" Insert Float Shoe With Auto Fill | | | | 1 | Each | 375.00 | 375.00T |
| 409-5 | 5 1/2" Turbolizer | | | | 15 | Each | 90.00 | 1,350.00T |
| 413-5 | 5 1/2" Roto Wall Scratcher | | | | 10 | Each | 40.00 | 400.00T |
| 325 | Standard Cement | | | | 200 | Sacks | 14.00 | 2,800.00T |
| 330 | Swift Multi-Density Standard (MIDCON II) | | | | 300 | Sacks | 17.00 | 5,100.00T |
| 276 | Flocele | | | | 125 | Lb(s) | 2.00 | 250.00T |
| 283 | Salt | | | | 1,000 | Lb(s) | 0.20 | 200.00T |
| 284 | Calseal | | | | 10 | Sack(s) | 35.00 | 350.00T |
| 285 | CFR-1 | | | | 150 | Lb(s) | 4.00 | 600.00T |
| 581D | Service Charge Cement | | | | 500 | Sacks | 2.00 | 1,000.00 |
| 583D | Drayage | | | | 3,816 | Ton Miles | 1.00 | 3,816.00 |
| | Subtotal | | | | | | | 20,706.00 |
| | Sales Tax Rawlins County | | | | | | 7.90% | 1,065.71 |
| We Appreciate Your Business! | | | | | | | Total | \$21,771.71 |



CHARGE TO: Murphy
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET No 24487

PAGE 1 OF 2

| | | | | | | | |
|-------------------------|--|----------------|--------------------------|-------------|-----------------|------------------------------|-------|
| SERVICE LOCATIONS | WELL/PROJECT NO | LEASE | COUNTY/PARISH | STATE | CITY | DATE | OWNER |
| 1. <u>H245 K5</u> | <u>1-1</u> | <u>Walter</u> | <u>Nowling</u> | <u>KS</u> | | <u>8-30-13</u> | |
| 2. <u>Ness City, KS</u> | TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES | CONTRACTOR | RIG NAME/NO. | SHIPPED VIA | DELIVERED TO | ORDER NO. | |
| | <input checked="" type="checkbox"/> | | | <u>CT</u> | <u>Location</u> | | |
| 3. | WELL TYPE | WELL CATEGORY | JOB PURPOSE | | WELL PERMIT NO. | WELL LOCATION | |
| | <u>Oil</u> | <u>Develop</u> | <u>5 1/2 long string</u> | | | <u>Sec 1, Twp 15, R 36 W</u> | |
| 4. REFERRAL LOCATION | INVOICE INSTRUCTIONS | | | | | | |

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | UM | QTY. | UM | UNIT PRICE | AMOUNT |
|-----------------|-------------------------------------|------------|------|----|------------------------------|------|-----|------|-------|------------|---------|
| | | LOC | ACCT | DF | | | | | | | |
| 575 | | | | | MILEAGE #112 | 150 | mi | | | 6.00 | 900.00 |
| 578 | | | | | Pump Charge long string | 1 | ea | | | 1500.00 | 1500.00 |
| 24 | | | | | Log-wd KCL | 4 | gal | | | 25.00 | 100.00 |
| 281 | | | | | Mud Flush | 500 | gal | | | 1.25 | 625.00 |
| 240 | | | | | O-Air | 5 | gal | | | 42.00 | 210.00 |
| 403 | | | | | Cement Baskets | 3 | ea | | 5 1/2 | 285.00 | 855.00 |
| 406 | | | | | Lath Down Plug + Ballie | 1 | ea | | | 275.00 | 275.00 |
| 407 | | | | | Insert Float Shoe w/Air-Fill | 1 | ea | | | 375.00 | 375.00 |
| 409 | | | | | Turbolifters | 15 | ea | | | 90.00 | 1350.00 |
| 413 | | | | | Ratd Wall Scratchers | 10 | ea | | | 40.00 | 400.00 |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 8-30-13 TIME SIGNED 1730 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

| SURVEY | | AGREE | UN-DECIDED | DIS-AGREE | PAGE TOTAL | AMOUNT |
|--|------------------------------|-----------------------------|------------|-----------|------------|-----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? | | | | | 6590 | 00 |
| WE UNDERSTOOD AND MET YOUR NEEDS? | | | | | 14116 | 00 |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY? | | | | | 20706 | 00 |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? | | | | | 1065 | 71 |
| ARE YOU SATISFIED WITH OUR SERVICE? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | | | TOTAL | 21,771.71 |

SWIFT OPERATOR [Signature] APPROVAL [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



Services, Inc.

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 24487

CUSTOMER *Murkin*

WELL *Walter 1-1*

DATE 8-30-13

PAGE 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE / PART NUMBER | ACCOUNTING | | | TIME | DESCRIPTION | WELL | | | | DATE | UNIT PRICE | AMOUNT | |
|--------------------|-----------------------------------|------------|------|----|------|-----------------------------|-------|-----|-----|-----|------|------------|--------|----|
| | | LOC | ACCT | DE | | | QTY | U/M | QTY | U/M | | | | |
| 325 | | | | | | Standard Cement EA-2 | 2.00 | SKS | | | | 14.00 | 28.00 | 00 |
| 330 | | | | | | Swift Multi-Density Cement | 3.00 | SKS | | | | 17.00 | 51.00 | 00 |
| 276 | | | | | | Aoele | 125 | lbs | | | | 2.00 | 250 | 00 |
| 283 | | | | | | S-11 | 1.000 | lbs | | | | 20 | 200 | 00 |
| 284 | | | | | | Cal Seal | 10 | SKS | | | | 35.00 | 350 | 00 |
| 285 | | | | | | CFR-1 | 150 | lbs | | | | 4.00 | 600 | 00 |
| 581 | | | | | | SERVICE CHARGE | | | | | | 2.00 | 1000 | 00 |
| 583 | | | | | | MILEAGE CHANGE TOTAL WEIGHT | | | | | | 1.00 | 3826 | 00 |
| | | | | | | LOADED MILES | 150 | | | | | | | |
| | | | | | | CUBIC FEET | 500 | SKS | | | | | | |
| | | | | | | TON MILES | 3826 | 00 | | | | | | |
| CONTINUATION TOTAL | | | | | | | | | | | | 1416.00 | 00 | |

JOB LOG

SWIFT Services, Inc.

DATE 8-30-13 PAGE NO.

CUSTOMER: Murphy WELL NO. 1-1 LEASE Walter JOB TYPE 5 1/2 Longstring TICKET NO. 24487

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|-------------------------|--|
| | | | | T | C | TUBING | CASING | |
| | 1720 | | | | | | | On location |
| | | | | | | | | TD 4520 SS 21' |
| | | | | | | | | TP 4512 Insert 4491 |
| | | | | | | | | Centralizers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 34, 44 |
| | | | | | | | | Baskets 11, 35, 45 |
| | 1730 | | | | | | | Start casing |
| | 1820 | | | | | | | Break circulation Half way |
| | 1850 | | | | | | | Finish Running casing |
| | 1945 | | | | | | | Drop Ball Circulate Rotate |
| | 2045 | 5 | 12 | | ✓ | | 300 | Start Mod Flush |
| | | 5 | 20 | | ✓ | | 300 | Start KCL Flush |
| | | 5 | 139 | | ✓ | | 200 | Start SMD Element 250 SKS |
| | | 5 | 49 | | ✓ | | 200 | Start EA2 Cement 200 SKS |
| | 2150 | | | | | | | Drop Plug |
| | | | | | | | | Wash out Pump + Lines |
| | 2155 | 6.5 | | | ✓ | | | Start Displacement First 20 bbl / KCL |
| | | 6.5 | 80 | | ✓ | | 900 | Circulate Cement |
| | 2215 | | 106.8 | | ✓ | | 1200 1000 | Land Plug |
| | 2217 | | | | | | | Release Dry |
| | 2220 | | 7/5 | | | | | Plug RH 30 SKS MH 20 SKS |
| | 2300 | | | | | | | Wash up Rack UP |
| | | | | | | | | Job Complete Thank You |
| | | | | | | | | Josh, Brian, Rob, John |
| | | | | | | | | Circulate 50 SKS |