



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156622
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: _____



1156622

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

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



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

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

Sam Brownback, Governor

August 28, 2013

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

Re: ACO1
API 15-039-21173-00-00
Hickert 1-29
NW/4 Sec.29-05S-29W
Decatur County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

| Hickert #1-29 780' FNL 810' FWL Sec. 29-5S-29W 2827' KB | | | | | | | Eula #1-30 2310FNL 330FEL Sec. 30-5S-29W 2812' KB | |
|--|------------|-------|-----|----------|-------|------|--|-------|
| Formation | Sample top | Datum | Ref | Log tops | Datum | Ref | Log tops | Datum |
| Anhydrite | 2560 | +267 | -2 | 2558 | +269 | Flat | 2543 | +269 |
| B/Anhydrite | 2590 | +237 | +2 | 2591 | +236 | +1 | 2577 | +235 |
| Topeka | 3683 | -856 | +1 | 3681 | -854 | +3 | 3669 | -857 |
| Heebner | 3822 | -1028 | +1 | 3854 | -1027 | +2 | 3841 | -1029 |
| Lansing | 3900 | -1073 | +2 | 3900 | -1073 | +2 | 3887 | -1075 |
| Stark | 4058 | -1231 | -1 | 4053 | -1226 | +4 | 4042 | -1230 |
| BKC | 4105 | -1278 | +1 | 4102 | -1275 | +4 | 4091 | -1279 |
| Pawnee | 4205 | -1378 | | 4206 | -1379 | | NDE | |
| Ft Scott | 4290 | -1463 | | 4289 | -1462 | | NDE | |
| Cherokee | 4299 | -1472 | | 4298 | -1471 | | NDE | |
| Mississippi | 4396 | -1569 | | 4397 | -1570 | | NDE | |
| RTD | 4446 | | | | | | 4290 | -1478 |
| LTD | | | | 4446 | | | 4295 | -1483 |



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.08 @ 01:20:00

End Date: 2013.05.08 @ 10:07:30

Job Ticket #: 50719 DST #: 1

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

Printed: 2013.05.16 @ 09:16:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 01:20:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:35:45
 Time Test Ended: 10:07:30
 Interval: **3854.00 ft (KB) To 3934.00 ft (KB) (TVD)**
 Total Depth: 3934.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2827.00 ft (KB)
 2817.00 ft (CF)
 KB to GR/CF: 10.00 ft

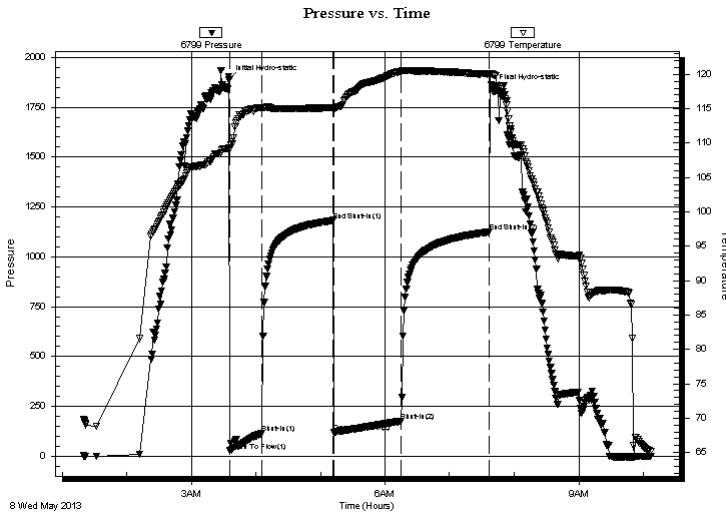
Serial #: 6799

Inside

Press @ Run Depth: 176.03 psig @ 3855.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.08 End Date: 2013.05.08 Last Calib.: 2013.05.08
 Start Time: 01:20:05 End Time: 10:07:30 Time On Btm: 2013.05.08 @ 03:35:15
 Time Off Btm: 2013.05.08 @ 07:39:30

TEST COMMENT: 30 - IF- 1/2" Blow built to 7 1/2"
 60 - IS- No Return
 60 - FF- BoB in 47 min.
 90 - FS- No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1889.08 | 109.34 | Initial Hydro-static |
| 1 | 26.34 | 109.11 | Open To Flow (1) |
| 31 | 114.03 | 115.12 | Shut-In(1) |
| 97 | 1182.42 | 115.15 | End Shut-In(1) |
| 98 | 118.97 | 114.84 | Open To Flow (2) |
| 160 | 176.03 | 120.46 | Shut-In(2) |
| 242 | 1125.33 | 120.06 | End Shut-In(2) |
| 245 | 1842.19 | 120.02 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 120.00 | MW 40M 60W | 0.59 |
| 120.00 | WM 60M 40W | 0.66 |
| 134.00 | OSWM 50M 50W (oil spots) | 1.88 |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

ATTN: Robert Hendrix

Job Ticket: 50719

DST#: 1

Test Start: 2013.05.08 @ 01:20:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:35:45

Time Test Ended: 10:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3854.00 ft (KB) To 3934.00 ft (KB) (TVD)

Reference Elevations: 2827.00 ft (KB)

Total Depth: 3934.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8648 Inside

Press @ Run Depth: psig @ 3855.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.08

Last Calib.:

2013.05.08

Start Time: 01:20:50

End Time:

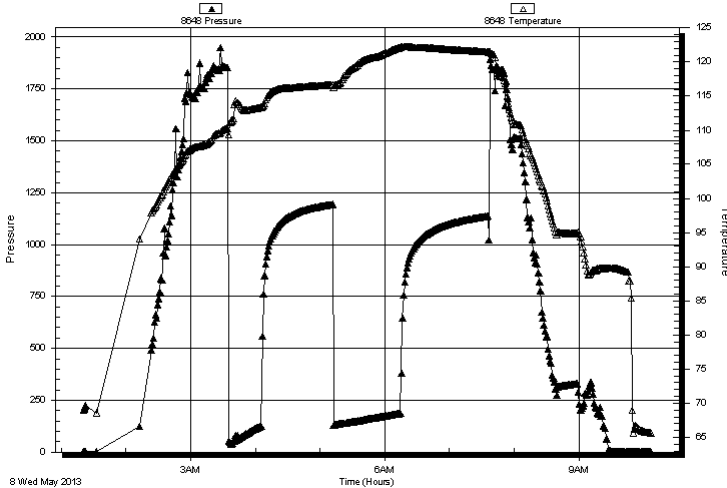
10:06:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" Blow built to 7 1/2"
60 - IS- No Return
60 - FF- BoB in 47 min.
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 120.00 | MW 40M 60W | 0.59 |
| 120.00 | WM 60M 40W | 0.66 |
| 134.00 | OSWM 50M 50W (oil spots) | 1.88 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 01:20:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3625.00 ft | Diameter: 3.80 inches | Volume: 50.85 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 232.00 ft | Diameter: 2.25 inches | Volume: 1.14 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 51.99 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 3854.00 ft | | | Final 74000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 80.00 ft | | | |
| Tool Length: | 109.00 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 | | | 3826.00 | |
| Shut In Tool | 5.00 | | | 3831.00 | |
| Hydraulic tool | 5.00 | | | 3836.00 | |
| Jars | 5.00 | | | 3841.00 | |
| Safety Joint | 3.00 | | | 3844.00 | |
| Packer | 5.00 | | | 3849.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3854.00 | |
| Stubb | 1.00 | | | 3855.00 | |
| Recorder | 0.00 | 6799 | Inside | 3855.00 | |
| Recorder | 0.00 | 8648 | Inside | 3855.00 | |
| Perforations | 10.00 | | | 3865.00 | |
| Change Over Sub | 1.00 | | | 3866.00 | |
| Drill Pipe | 62.00 | | | 3928.00 | |
| Change Over Sub | 1.00 | | | 3929.00 | |
| Bullnose | 5.00 | | | 3934.00 | 80.00 Bottom Packers & Anchor |

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 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:

13000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 120.00 | MW 40M 60W | 0.590 |
| 120.00 | WM 60M 40W | 0.663 |
| 134.00 | OSWM 50M 50W (oil spots) | 1.880 |

Total Length: 374.00 ft Total Volume: 3.133 bbl

Num Fluid Samples: 0

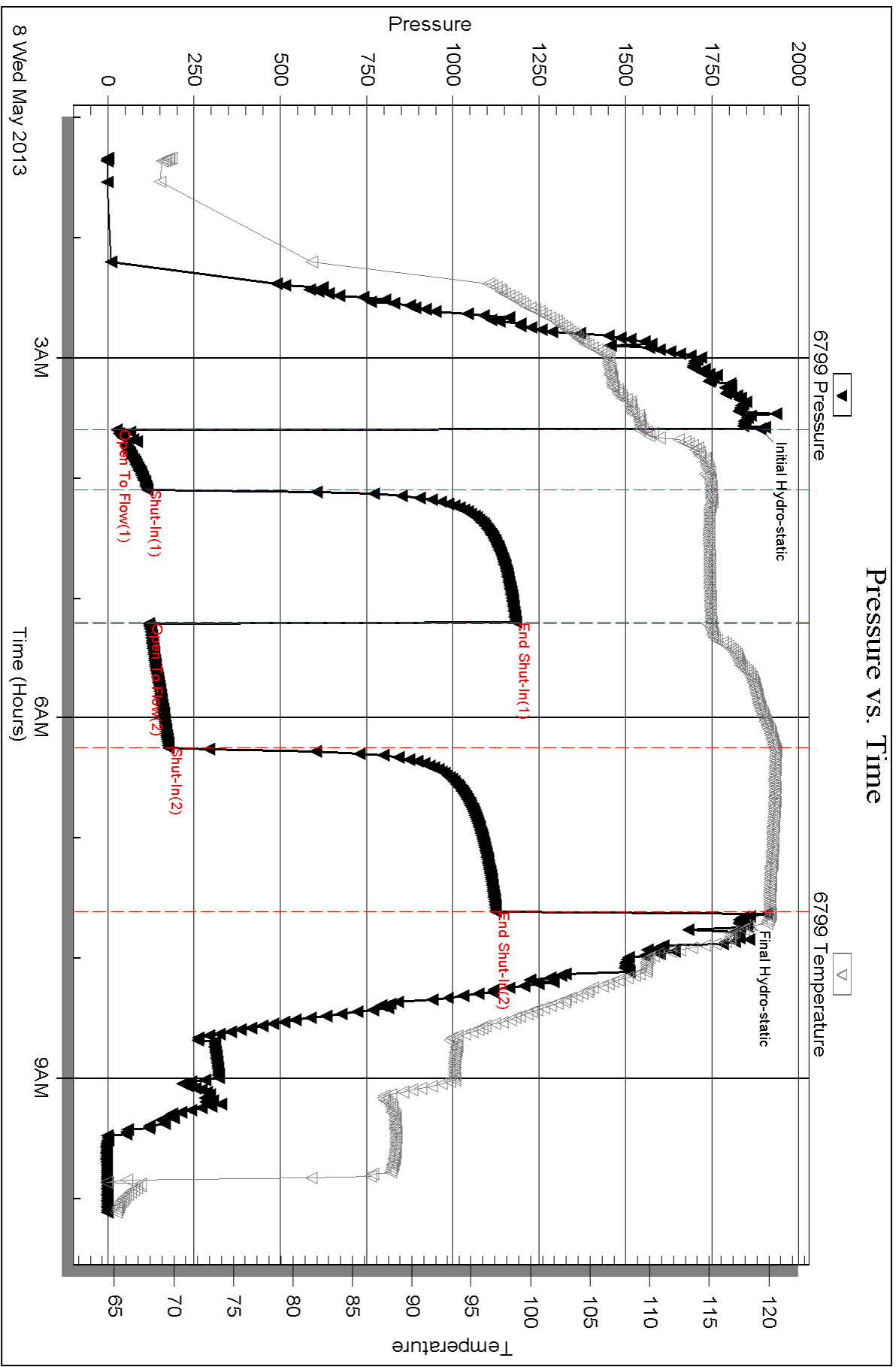
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .52@68 deg = 13000ppm



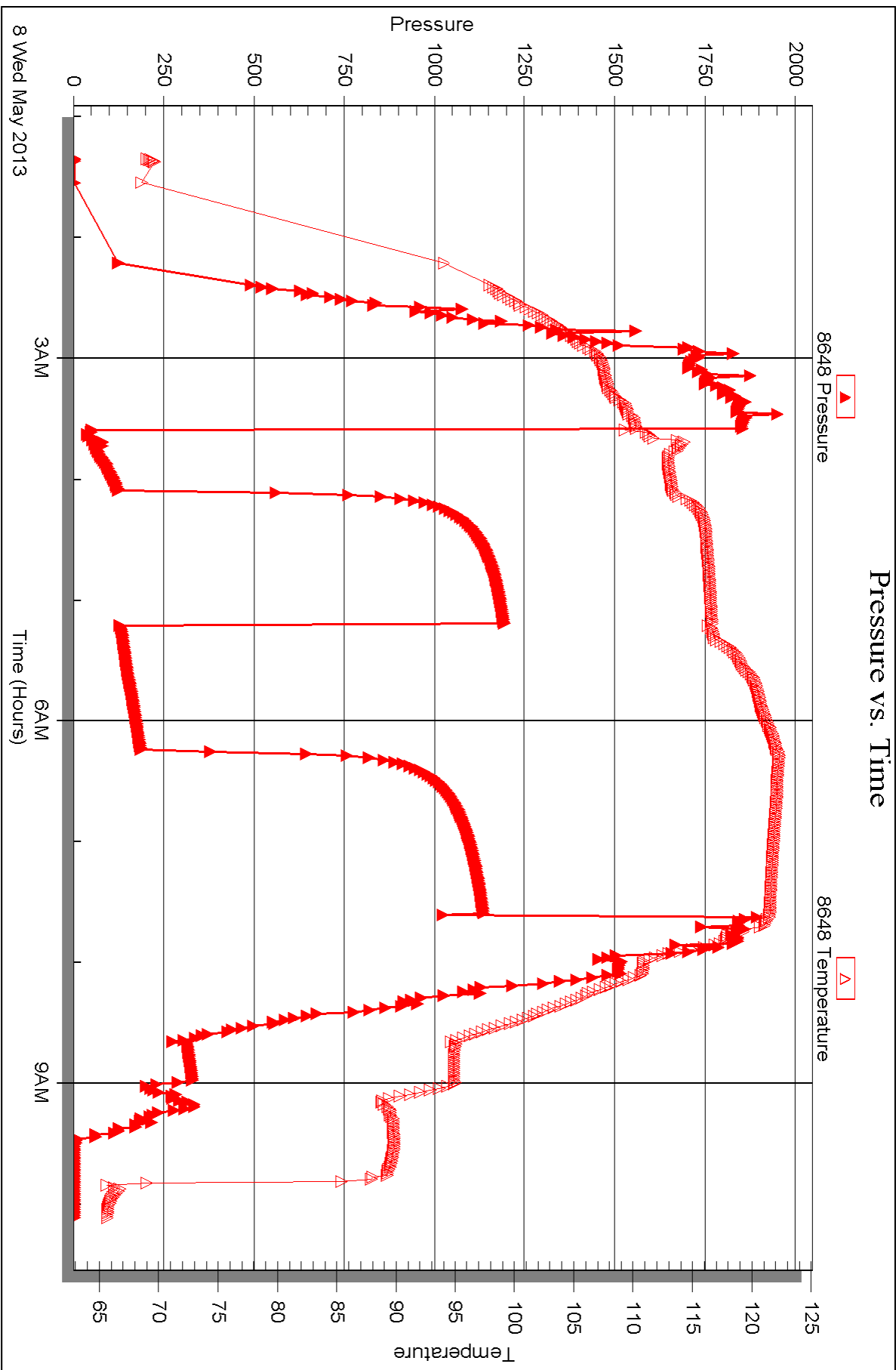
Serial #: 8648

Inside

Murfin Drilling Co., Inc.

Hickert #1-29

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.08 @ 19:30:00

End Date: 2013.05.09 @ 03:09:45

Job Ticket #: 50720 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.16 @ 09:15:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:45

Time Test Ended: 03:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3954.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2827.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 45.52 psig @ 3955.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.09

Last Calib.:

2013.05.09

Start Time: 19:30:05

End Time:

03:09:44

Time On Btm:

2013.05.08 @ 21:22:45

Time Off Btm:

2013.05.09 @ 01:24:45

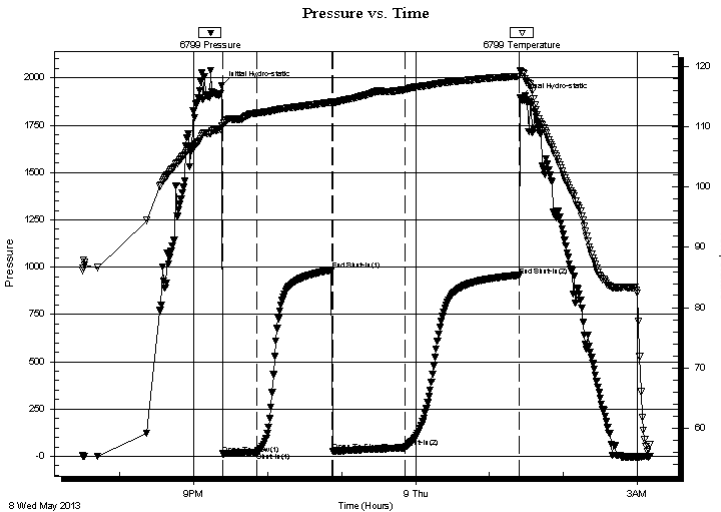
TEST COMMENT: 30 - IF- 1/4" Blow built to 2 1/4"

60 - IS- No Return

60 - FF- Blow started at 2 min. Built to 3"

90 - FS- No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1957.87 | 110.20 | Initial Hydro-static |
| 1 | 13.22 | 110.21 | Open To Flow (1) |
| 29 | 21.96 | 112.31 | Shut-In(1) |
| 89 | 984.42 | 114.13 | End Shut-In(1) |
| 90 | 27.22 | 114.02 | Open To Flow (2) |
| 149 | 45.52 | 116.21 | Shut-In(2) |
| 241 | 955.76 | 118.43 | End Shut-In(2) |
| 242 | 1896.06 | 119.41 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | MCO 50M 50o | 0.30 |
| 20.00 | MCO 30M 70o | 0.10 |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:45

Time Test Ended: 03:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3954.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2827.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8648

Inside

Press @ RunDepth: psig @ 3955.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.09

Last Calib.:

2013.05.09

Start Time: 19:30:50

End Time:

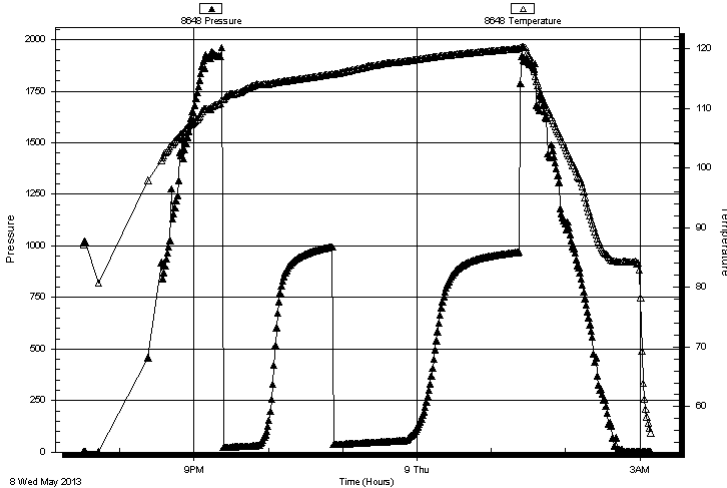
03:08:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 2 1/4"
60 - IS- No Return
60 - FF- Blow started at 2 min. Built to 3"
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | MCO 50M 50o | 0.30 |
| 20.00 | MCO 30M 70o | 0.10 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3726.00 ft | Diameter: 3.80 inches | Volume: 52.27 bbl | Tool Weight: | 2300.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 232.00 ft | Diameter: 2.25 inches | Volume: 1.14 bbl | Weight to Pull Loose: | 80000.00 lb |
| | | | <u>Total Volume: 53.41 bbl</u> | Tool Chased | ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial | 70000.00 lb |
| Depth to Top Packer: | 3954.00 ft | | | Final | 70000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 26.00 ft | | | | |
| Tool Length: | 50.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |
| Tool Comments: | | | | | |

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

| | | | | | |
|-----------------|-------|------|--------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 3931.00 | |
| Shut In Tool | 5.00 | | | 3936.00 | |
| Hydraulic tool | 5.00 | | | 3941.00 | |
| Safety Joint | 3.00 | | | 3944.00 | |
| Packer | 5.00 | | | 3949.00 | 24.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3954.00 | |
| Stubb | 1.00 | | | 3955.00 | |
| Recorder | 0.00 | 6799 | Inside | 3955.00 | |
| Recorder | 0.00 | 8648 | Inside | 3955.00 | |
| Perforations | 20.00 | | | 3975.00 | |
| Bullnose | 5.00 | | | 3980.00 | 26.00 Bottom Packers & Anchor |

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

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: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 60.00 | MCO 50M 50o | 0.295 |
| 20.00 | MCO 30M 70o | 0.098 |

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

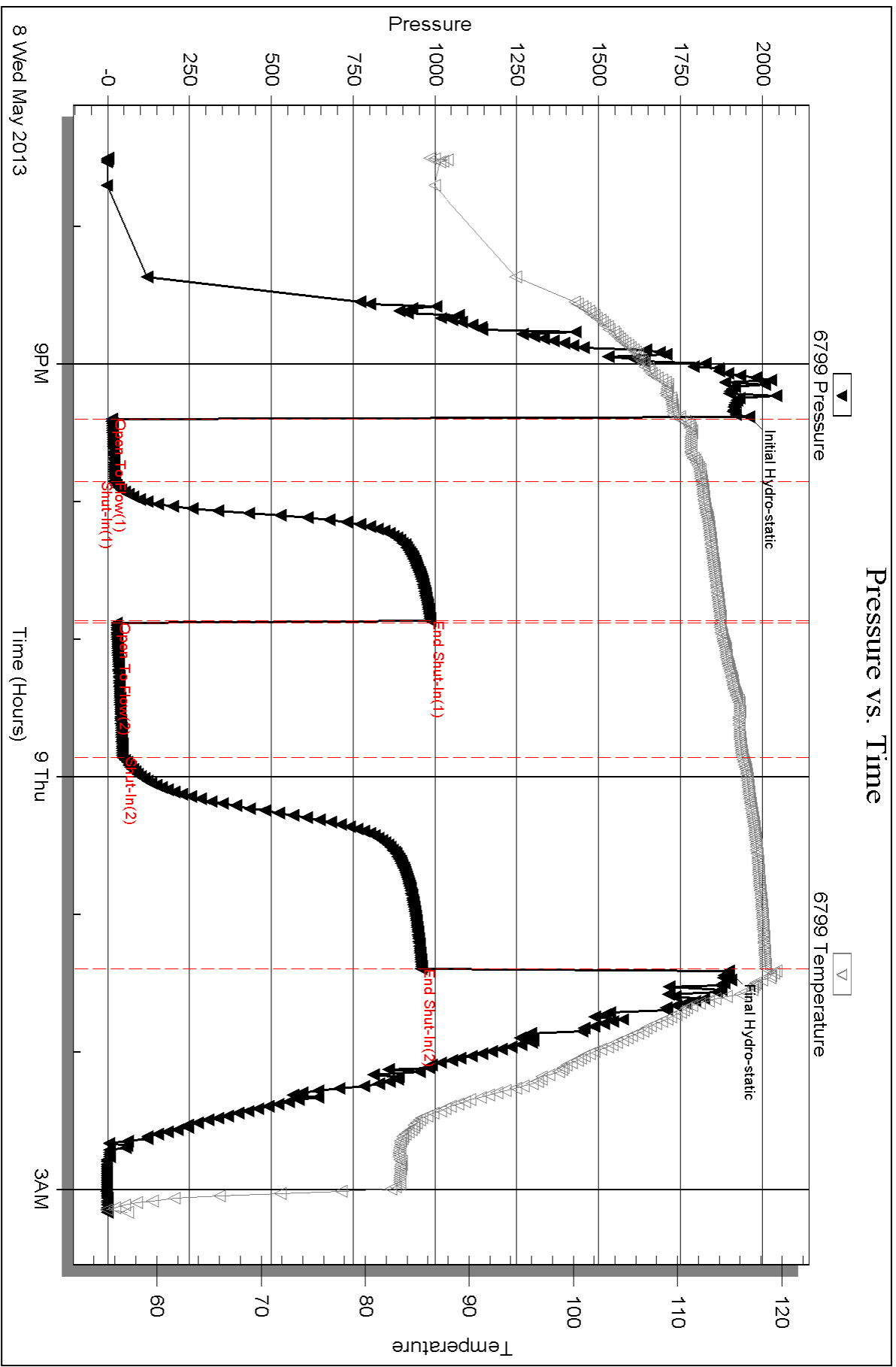
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



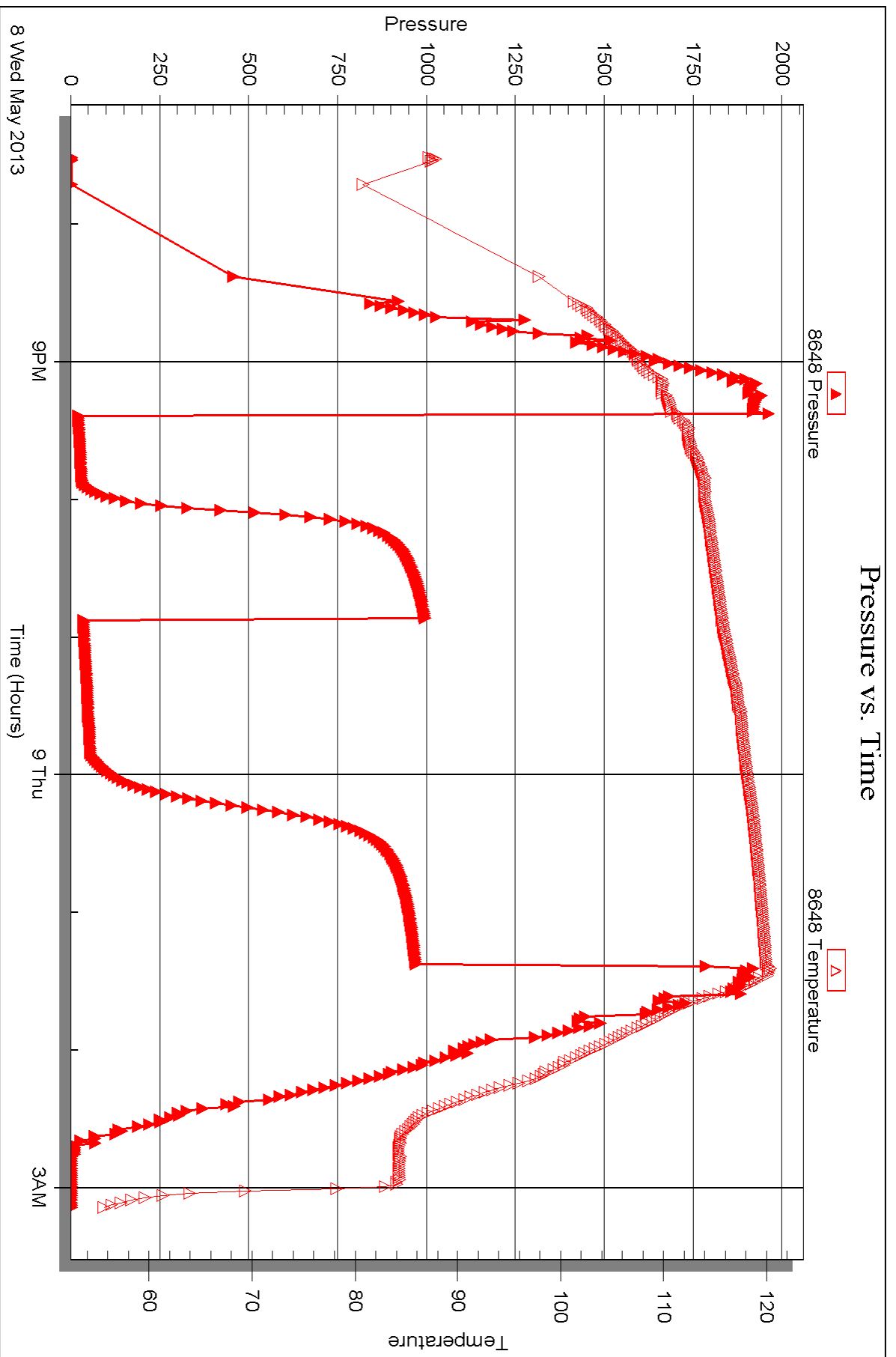
Serial #: 8648

Inside

Murfin Drilling Co., Inc.

Hickert #1-29

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50720

Printed: 2013.05.16 @ 09:15:55



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.09 @ 19:50:00

End Date: 2013.05.10 @ 02:26:00

Job Ticket #: 50721 DST #: 3

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

Printed: 2013.05.16 @ 09:15:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

29-5s-29w-Decatur, KS

Hickert #1-29

Job Ticket: 50721

DST#: 3

Test Start: 2013.05.09 @ 19:50:00

GENERAL INFORMATION:

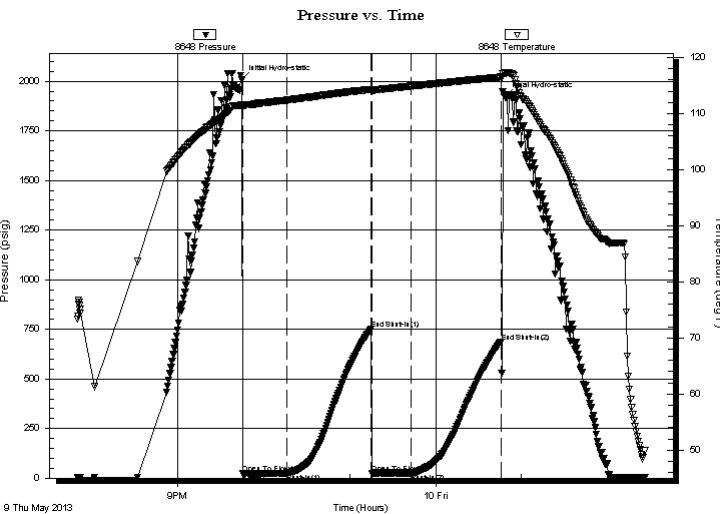
Formation: **LKC "J-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:45:30
 Time Test Ended: 02:26:00
 Interval: **4024.00 ft (KB) To 4086.00 ft (KB) (TVD)**
 Total Depth: 4086.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2827.00 ft (KB)
 2817.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8648

Inside

Press @ Run Depth: 26.44 psig @ 4025.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.09 End Date: 2013.05.10 Last Calib.: 2013.05.10
 Start Time: 19:50:05 End Time: 02:25:59 Time On Btm: 2013.05.09 @ 21:44:45
 Time Off Btm: 2013.05.10 @ 00:48:15

TEST COMMENT: 30 - IF- 1/8" Blow built to 1/2"
 60 - IS- No Return
 30 - FF- No Blow
 60 - FS- No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2005.94 | 111.56 | Initial Hydro-static |
| 1 | 22.26 | 111.43 | Open To Flow (1) |
| 32 | 24.00 | 112.39 | Shut-In(1) |
| 90 | 751.80 | 114.31 | End Shut-In(1) |
| 91 | 25.51 | 114.09 | Open To Flow (2) |
| 118 | 26.44 | 114.89 | Shut-In(2) |
| 181 | 686.42 | 116.49 | End Shut-In(2) |
| 184 | 1923.37 | 117.21 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 5.00 | OSM 100M (oil spots) | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:45:30

Time Test Ended: 02:26:00

Interval: 4024.00 ft (KB) To 4086.00 ft (KB) (TVD)

Total Depth: 4086.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Reference Elevations: 2827.00 ft (KB)

2817.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6799 Inside

Press @ Run Depth: psig @ 4025.00 ft (KB)

Start Date: 2013.05.09

End Date:

2013.05.10

Start Time: 19:49:35

End Time:

02:26:59

Capacity: 8000.00 psig

Last Calib.:

2013.05.10

Time On Btm:

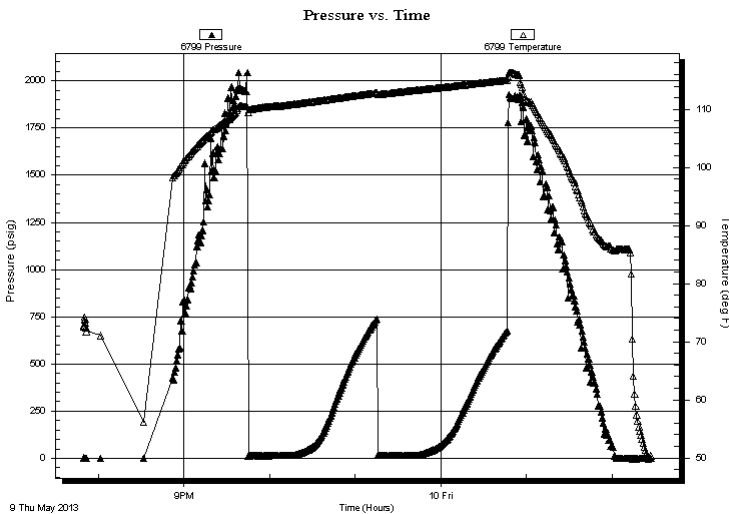
Time Off Btm:

TEST COMMENT: 30 - IF- 1/8" Blow built to 1/2"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 5.00 | OSM 100M (oil spots) | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3788.00 ft | Diameter: 3.80 inches | Volume: 53.14 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 232.00 ft | Diameter: 2.25 inches | Volume: 1.14 bbl | Weight to Pull Loose: 85000.00 lb |
| | | | <u>Total Volume: 54.28 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4024.00 ft | | | Final 72000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 62.00 ft | | | |
| Tool Length: | 86.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|-----------------|-------|------|--------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 4001.00 | |
| Shut In Tool | 5.00 | | | 4006.00 | |
| Hydraulic tool | 5.00 | | | 4011.00 | |
| Safety Joint | 3.00 | | | 4014.00 | |
| Packer | 5.00 | | | 4019.00 | 24.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4024.00 | |
| Stubb | 1.00 | | | 4025.00 | |
| Recorder | 0.00 | 6799 | Inside | 4025.00 | |
| Recorder | 0.00 | 8648 | Inside | 4025.00 | |
| Perforations | 22.00 | | | 4047.00 | |
| Change Over Sub | 1.00 | | | 4048.00 | |
| Drill Pipe | 32.00 | | | 4080.00 | |
| Change Over Sub | 1.00 | | | 4081.00 | |
| Bullnose | 5.00 | | | 4086.00 | 62.00 Bottom Packers & Anchor |

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 5.00 | OSM 100M (oil spots) | 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:

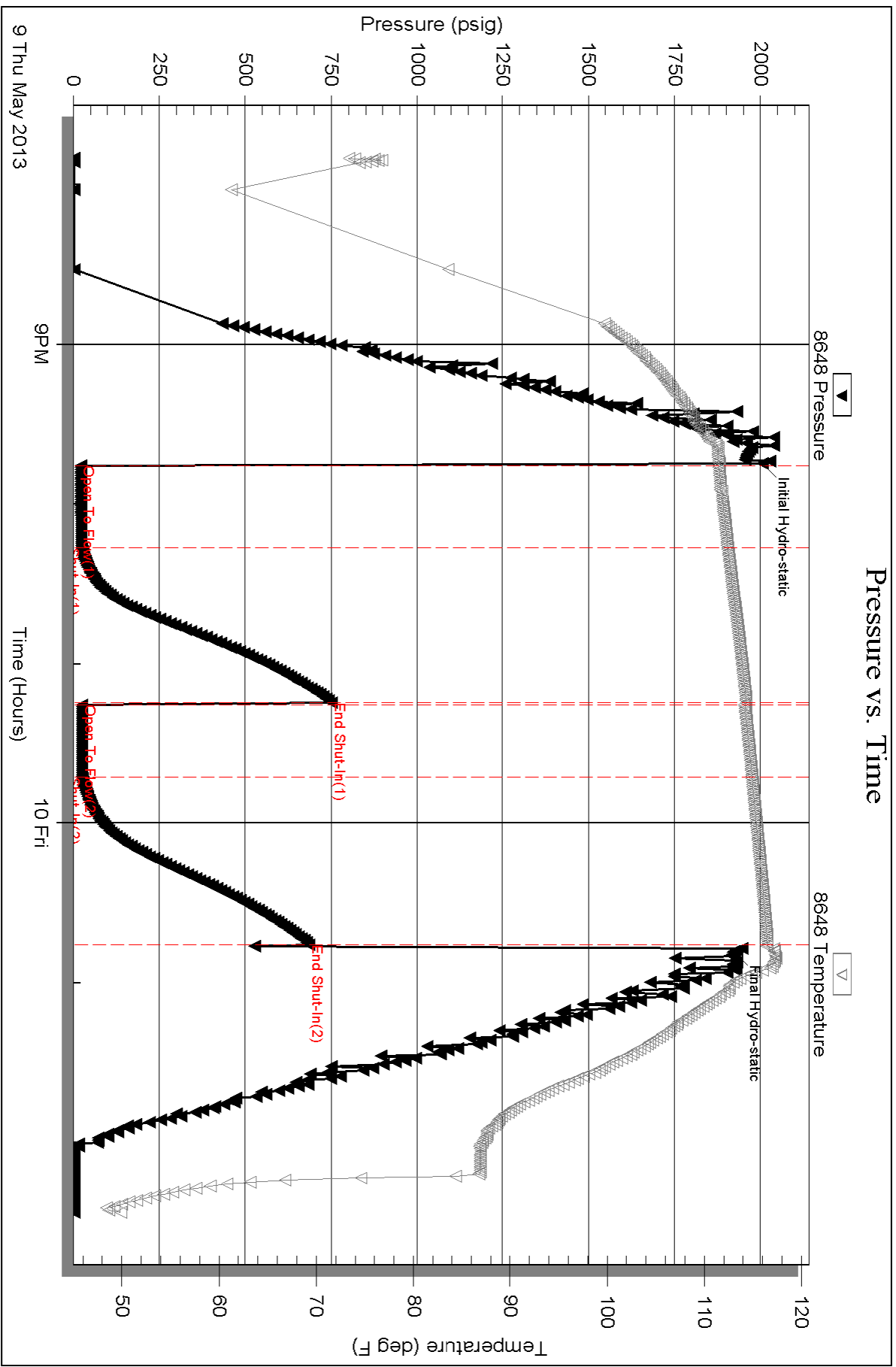
Serial #: 8648

Inside

Murfin Drilling Co., Inc.

Hickert #1-29

DST Test Number: 3



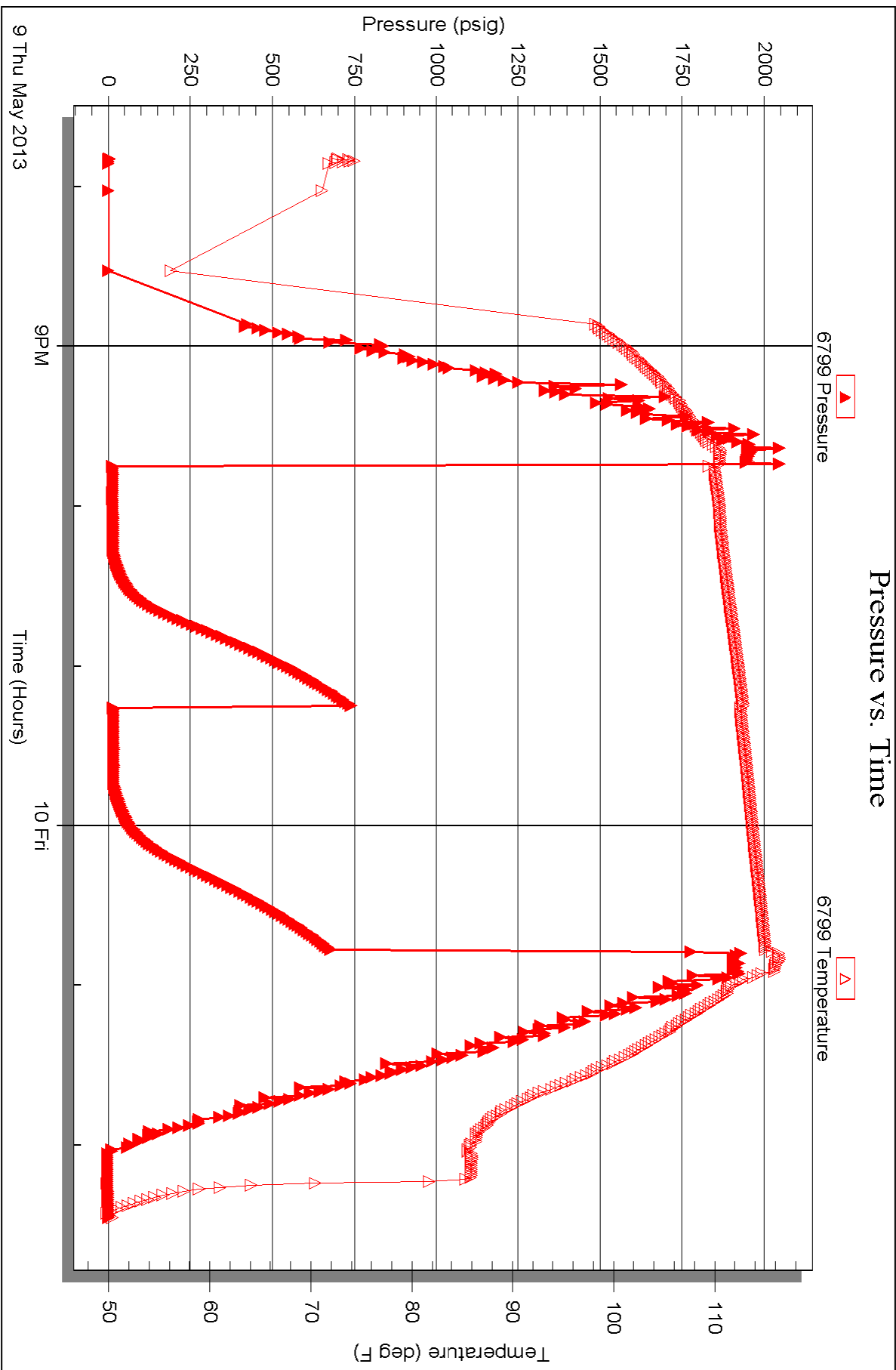
Serial #: 6799

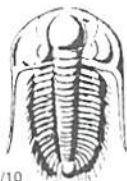
Inside

Murfin Drilling Co., Inc.

Hickert #1-29

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50719

Well Name & No. Hickert #1-29 Test No. 1 Date 5-8-13
 Company Murfin Drilling Co., Inc. Elevation 2827 KB 2817 GL
 Address 2508 N Water STE#3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 3854-3934 Zone Tested Toronto - LKC "B"
 Anchor Length 80 Drill Pipe Run 3625' Mud Wt. 8.9
 Top Packer Depth 3850 Drill Collars Run 232' Vis 61
 Bottom Packer Depth 3854 Wt. Pipe Run 0 WL 56
 Total Depth 3934 Chlorides 1,400 ppm System LCM 5#
 Blow Description IF - 1/2" Blow built to 7 1/2"
ISI - NO Return
FF - BOB in 47 min.
FSI - NO Return

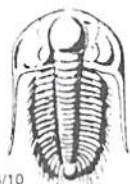
| Rec | Feet of | %gas | spots | %oil | %water | %mud |
|-----|---------|------|-------|------|--------|------|
| 134 | OSWM | | | 50 | 50 | |
| 120 | LM | | | 40 | 60 | |
| 120 | MW | | | 60 | 40 | |
| | | | | | | |
| | | | | | | |

Rec Total 374 BHT 120 Gravity — API RW .52 @ 68 °F Chlorides 13,000 ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1889</u> | <input checked="" type="checkbox"/> Test 1150 | T-On Location <u>12:15 AM</u> |
| (B) First Initial Flow <u>26</u> | <input checked="" type="checkbox"/> Jars 250 | T-Started <u>1:20 AM</u> |
| (C) First Final Flow <u>114</u> | <input checked="" type="checkbox"/> Safety Joint 75 | T-Open <u>3:35 AM</u> |
| (D) Initial Shut-In <u>1182</u> | <input checked="" type="checkbox"/> Circ Sub <u>NIC</u> | T-Pulled <u>7:35 AM</u> |
| (E) Second Initial Flow <u>118</u> | <input checked="" type="checkbox"/> Hourly Standby <u>NIC</u> | T-Out <u>10:20 AM</u> |
| (F) Second Final Flow <u>176</u> | <input checked="" type="checkbox"/> Mileage <u>44 RT</u> 68.20 | Comments _____ |
| (G) Final Shut-In <u>1125</u> | <input type="checkbox"/> Sampler _____ | _____ |
| (H) Final Hydrostatic <u>1842</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>60</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Shut-In <u>90</u> | <input type="checkbox"/> Day Standby _____ | Total <u>1543.20</u> |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>1543.20</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. 50720

Well Name & No. Aickert #1-29 Test No. 2 Date 5-8-13
 Company Murphy Drilling Co., Inc Elevation 2827 KB 2817 GL
 Address 2500 N Water STE #3008 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 3954-3980 Zone Tested LKC "E.F"
 Anchor Length 26' Drill Pipe Run 3726 Mud Wt. 8.9
 Top Packer Depth 3950 Drill Collars Run 232' Vis 71
 Bottom Packer Depth 3954 Wt. Pipe Run 0 WL 6.8
 Total Depth 3980 Chlorides 1,500 ppm System LCM 6#
 Blow Description IF - 1/4" Blow built to 2 1/4"
ISI - No Return
FF - Blow started at 2 min. Built to 3"
FSI - No Return

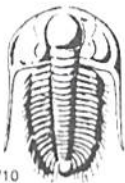
| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|-----------|------|-----------|------|
| <u>20</u> | <u>MCO</u> | <u>70</u> | | <u>30</u> | |
| <u>60</u> | <u>MCO</u> | <u>50</u> | | <u>50</u> | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 80 BHT 118 Gravity - API RW - @ - ° F Chlorides - ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1957</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>7:10 PM</u> |
| (B) First Initial Flow <u>13</u> | <input type="checkbox"/> Jars | T-Started <u>7:30 PM</u> |
| (C) First Final Flow <u>21</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>9:23 PM</u> |
| (D) Initial Shut-In <u>984</u> | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u> | T-Pulled <u>1:23 AM</u> |
| (E) Second Initial Flow <u>27</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>3:15 AM</u> |
| (F) Second Final Flow <u>45</u> | <input checked="" type="checkbox"/> Mileage <u>44 RT</u> 68.20 | Comments |
| (G) Final Shut-In <u>955</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1896</u> | <input type="checkbox"/> Straddle | |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>60</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Shut-In <u>90</u> | <input type="checkbox"/> Day Standby | Total <u>1293.20</u> |
| | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1293.20</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. 50721

Well Name & No. Hickert #1-29 Test No. 3 Date 5-9-13
 Company Murfin Drilling Co., Inc. Elevation 2827 KB 2817 GL
 Address 2500 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 4024-4086 Zone Tested LKC "J-K"
 Anchor Length 62' Drill Pipe Run 3788 Mud Wt. 9.1
 Top Packer Depth 4020 Drill Collars Run 232' Vis 61
 Bottom Packer Depth 4024 Wt. Pipe Run Ø WL 5.6
 Total Depth 4086 Chlorides 4500 ppm System LCM 5#

Blow Description IF - 1/8" Blow built to 1/2"
ISI - NO Return
FF - NO Blow
FSD - NO Return

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|--------------|------|-------------|------|
| <u>5</u> | <u>OSM</u> | <u>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 117 Gravity - API RW - @ - ° F Chlorides - ppm

| | | |
|-------------------------------------|--|------------------------------|
| (A) Initial Hydrostatic <u>2005</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>7:30 PM</u> |
| (B) First Initial Flow <u>22</u> | <input type="checkbox"/> Jars | T-Started <u>7:50 PM</u> |
| (C) First Final Flow <u>24</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>9:45 PM</u> |
| (D) Initial Shut-In <u>751</u> | <input checked="" type="checkbox"/> Circ Sub <u>NIC</u> | T-Pulled <u>12:45 AM</u> |
| (E) Second Initial Flow <u>25</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>2:40 AM</u> |
| (F) Second Final Flow <u>26</u> | <input checked="" type="checkbox"/> Mileage <u>44 RT</u> 68.20 | Comments <u>Loaded</u> |
| (G) Final Shut-In <u>686</u> | <input type="checkbox"/> Sampler | <u>tools</u> |
| (H) Final Hydrostatic <u>1923</u> | <input type="checkbox"/> Straddle | <u>12:00 PM 5-11-13</u> |

| | | |
|---------------------------|--|--|
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>800</u> |
| Final Shut-In <u>60</u> | <input checked="" type="checkbox"/> Day Standby <u>X1</u> 1d 9.25h | Total <u>2193.20</u> |
| | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1393.20</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.



INVOICE

Prod. - L

PO Box 93999
Southlake, TX 76092

OPERATOR PAY MDC

Invoice Number: 136021

Invoice Date: May 4, 2013

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

LEASE: Hickert 1-29

Page: 1

BN

Now Includes:



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

| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Murfin | 58998 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | May 4, 2013 | 6/3/13 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|-------------|---------------------------------|------------|----------|
| 190.00 | MAT | Hickert #1-29 Class A Common | 17.90 | 3,401.00 |
| 7.00 | MAT | Chloride | 64.00 | 448.00 |
| 199.50 | SER | Cubic Feet | 2.48 | 494.76 |
| 367.60 | SER | Ton Mileage | 2.60 | 955.76 |
| 1.00 | SER | Surface | 1,512.25 | 1,512.25 |
| 40.00 | SER | Pump Truck Mileage | 7.70 | 308.00 |
| 1.00 | SER | Manifold Head Rental | 275.00 | 275.00 |
| 40.00 | SER | Light Vehicle Mileage | 4.40 | 176.00 |
| 1.00 | CEMENTER | Andrew Forslund | | |
| 1.00 | EQUIP OPER | Dane Retzloff | | |
| 1.00 | OPER ASSIST | Brandon Wilkinson | | |

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

\$ 2,649.76

ONLY IF PAID ON OR BEFORE
May 29, 2013

| | |
|------------------------|-----------------|
| Subtotal | 7,570.77 |
| Sales Tax | 280.98 |
| Total Invoice Amount | 7,851.75 |
| Payment/Credit Applied | |
| TOTAL | 7,851.75 |

35% Deduct →

OK

W

- 2649.76
5201.99
5201

ALLIED OIL & GAS SERVICES, LLC 058998

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley

| | | | | | | | |
|------------------------------------|-------------------|--------------------------------------|-----------------------|------------------|-------------|-------------------------|--------------------------|
| DATE <u>5-4-13</u> | SEC. <u>29</u> | TWP. <u>53</u> | RANGE <u>29W</u> | CALLED OUT | ON LOCATION | JOB START <u>4:00pm</u> | JOB FINISH <u>4:30pm</u> |
| LEASE <u>Hickert</u> | WELL# <u>1-29</u> | LOCATION <u>Rexford 8E 3/4N 1/4W</u> | COUNTY <u>Decatur</u> | STATE <u>K.S</u> | | | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | <u>2N 1/4 E S1T0</u> | | | | |

CONTRACTOR Murfin 2 OWNER same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 263' CEMENT AMOUNT ORDERED 190 sks com

CASING SIZE 8 5/8 DEPTH 263' 3% CEMENT

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15.29 nol

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Jansland

431 HELPER Dane Retzlaff

BULK TRUCK

540 DRIVER Brandon Wilkins

BULK TRUCK

DRIVER

HANDLING 199.5 cu/ft @ 2.48 494.76

MILEAGE 2.60 Ton/mile @ 9.1970 955.76

TOTAL 5299.52

REMARKS:

Cement did circulate

Thank you

SERVICE

DEPTH OF JOB 263'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 40 miles @ 7.70 308.00

MANIFOLD head @ 225.00

Light vehicle @ 4.40 176.00

TOTAL 2271.25

CHARGE TO: Murfin

STREET

CITY STATE ZIP

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 Arturo Cerveras

SIGNATURE Arturo Cerveras

SALES TAX (If Any)

TOTAL CHARGES 7,570.77

DISCOUNT 2,649.76 IF PAID IN 30 DAYS

4,921.00 Net.

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136309

Invoice Date: May 12, 2013

Page: 1

PROD COPY

acct.
Prod-LH

Bill To:

Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Now Includes:



| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Murfin | 60290 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-03 | Oakley | May 12, 2013 | 6/11/13 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|-------------|-----------------------|------------|----------|
| | | Hickert #1-29 | | |
| 132.00 | MAT | Class A Common | 17.90 | 2,362.80 |
| 88.00 | MAT | Pozmix | 9.35 | 822.80 |
| 8.00 | MAT | Gel | 23.40 | 187.20 |
| 55.00 | MAT | Flo Seal | 2.97 | 163.35 |
| 236.29 | SER | Cubic Feet | 2.48 | 586.00 |
| 394.80 | SER | Ton Mileage | 2.60 | 1,026.48 |
| 1.00 | SER | Plug to Abandon | 2,483.59 | 2,483.59 |
| 40.00 | SER | Pump Truck Mileage | 7.70 | 308.00 |
| 40.00 | SER | Light Vehicle Mileage | 4.40 | 176.00 |
| 1.00 | EQP | 8.5/8 Wooden Plug | 107.64 | 107.64 |
| 1.00 | CEMENTER | Darren Racette | | |
| 1.00 | OPER ASSIST | Paul Beaver | | |
| 1.00 | OPER ASSIST | Brandon Wilkinson | | |

| Account | Unit Fig | W L | No. | Amount | Description |
|---------|-------------|--------|-----|-----------|-------------|
| ED203 | | | | 5945.85 | PTA #1-29 |
| 3 | | | | 3269.0001 | |

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF ^A_{50P}

\$ 2,878.35

ONLY IF PAID ON OR BEFORE
Jun 6, 2013

| | |
|------------------------|-----------------|
| Subtotal | 8,223.86 |
| Sales Tax | 600.34 |
| Total Invoice Amount | 8,824.20 |
| Payment/Credit Applied | |
| TOTAL | 8,824.20 |

-2878.35

5945.85

OSM

ALLIED OIL & GAS SERVICES, LLC 060290

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Oakley

| | | | | | | | |
|--|--------------------|--|-----------------|------------|----------------------|--------------------------|---------------------------|
| DATE <u>5/12/13</u> | SEC. <u>29</u> | TWP. <u>S</u> | RANGE <u>29</u> | CALLED OUT | ON LOCATION | JOB START <u>3:00 Am</u> | JOB FINISH <u>4:00 Am</u> |
| LEASE <u>Hickert</u> | WELL # <u>1-29</u> | LOCATION <u>Rexford 8E-3 1/2 N - 1/4 W</u> | | | COUNTY <u>DeWitt</u> | STATE <u>Ks.</u> | |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | <u>2N-1/8 E - Sinto</u> | | | | | |

CONTRACTOR Murfin #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 TD.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 2575'

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 33.06

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 220 SKs 60% 4% Gel

1/4" Flo Seal

| | | | |
|-----------------|--------------------|------------------|------------------------|
| COMMON | <u>132 SKs</u> | @ <u>\$17.20</u> | <u>\$2362.80</u> |
| POZMIX | <u>88 SKs</u> | @ <u>\$9.35</u> | <u>\$822.80</u> |
| GEL | <u>8 SKs</u> | @ <u>\$23.40</u> | <u>\$187.20</u> |
| CHLORIDE | | @ | |
| ASC | | @ | |
| <u>Flo Seal</u> | <u>55"</u> | @ <u>\$2.92</u> | <u>\$163.35</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>236.29</u> | @ <u>\$2.48</u> | <u>\$586.00</u> |
| MILEAGE | <u>9.87 x 40 x</u> | @ <u>\$2.40</u> | <u>\$1026.48</u> |
| | | | TOTAL <u>\$5148.63</u> |

PUMP TRUCK CEMENTER Darren Racette

428-281 HELPER ~~Paul Beaver~~

BULK TRUCK

373-308 DRIVER Brandon Wilkinson

BULK TRUCK

DRIVER

REMARKS:

mix 25 SKs Cement 2575'

mix 100 SKs Cement 1820'

mix 40 SKs Cement 320'

mix 10 SKs Cement 40'

Plug mousehole 15 SKs Cement

Plug Rathole 30 SKs Cement

Thank You -

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2575'

PUMP TRUCK CHARGE \$2483.52

EXTRA FOOTAGE @

MILEAGE 40 @ \$7.20 \$308.00

MANIFOLD @

LU mileage @ \$4.40 \$176.00

TOTAL \$2967.52

PLUG & FLOAT EQUIPMENT

1 Wooden Plug @ \$107.64

@

@

@

@

TOTAL \$107.64

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME Arvio Cabezas

SIGNATURE Arvio Cabezas

SALES TAX (If Any) _____

TOTAL CHARGES 8,223.86

DISCOUNT 2,878.35 IF PAID IN 30 DAYS

5,345.50 Net.