



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1093897
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: _____

1093897

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

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

September 18, 2012

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

Re: ACO1
API 15-039-21149-00-00
Lohofener 1-18
NE/4 Sec.18-02S-29W
Decatur County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

| | | MDCI Lohofener #1-18 2300' FNL 2300' FEL Sec. 18-T2S-R29W 2786' KB | | | | | MDCI Torluemke #1-18 2310' FSL 2200' FEL Sec. 18-T2S-R29W 2787' KB | | |
|-------------|------------|--|-----|----------|-------|-----|--|-------|--|
| Formation | Sample top | Datum | Ref | Log tops | Datum | Ref | Log tops | Datum | |
| Anhydrite | 2536 | +250 | -6 | 2539 | +250 | -6 | 2531 | +256 | |
| B/Anhydrite | 2571 | +215 | -7 | 2569 | +217 | -5 | 2565 | +222 | |
| Neva | 3198 | -412 | -3 | 3200 | -414 | -5 | 3196 | -409 | |
| Red Eagle | 3269 | -483 | -3 | 3271 | -485 | -5 | 3267 | -480 | |
| Topeka | 3587 | -801 | -3 | 3586 | -800 | -2 | 3585 | -798 | |
| Heebner | 3747 | -961 | -3 | 3747 | -961 | -3 | 3745 | -958 | |
| Lansing | 3792 | -1006 | -3 | 3792 | -1006 | -3 | 3790 | -1003 | |
| Lansing D | 3823 | -1037 | -4 | 3827 | -1041 | -8 | 3820 | -1033 | |
| Lansing G | 3871 | -1085 | -2 | 3874 | -1088 | -5 | 3870 | -1083 | |
| Lansing H | 3905 | -1119 | -3 | 3906 | -1120 | -4 | 3903 | -1116 | |
| Lansing J | 3939 | -1153 | -4 | 3938 | -1152 | -3 | 3936 | -1149 | |
| Stark | 3955 | -1169 | -2 | 3957 | -1171 | -4 | 3954 | -1167 | |
| Lansing K | 3970 | -1184 | -3 | 3970 | -1184 | -3 | 3968 | -1181 | |
| BKC | 3999 | -1213 | -2 | 3999 | -1213 | -2 | 4002 | -1215 | |
| RTD | 4070 | | | | | | 4070 | -1283 | |
| LTD | | | | 4070 | | | 4068 | -1281 | |



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Jeff Christian

Lohoefener #1-18

18-2s-29w Decatur,KS

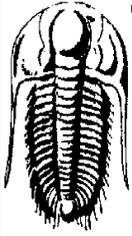
Start Date: 2012.05.30 @ 13:13:00

End Date: 2012.05.30 @ 20:16:00

Job Ticket #: 46173 DST #: 1

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

Printed: 2012.06.04 @ 16:31:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

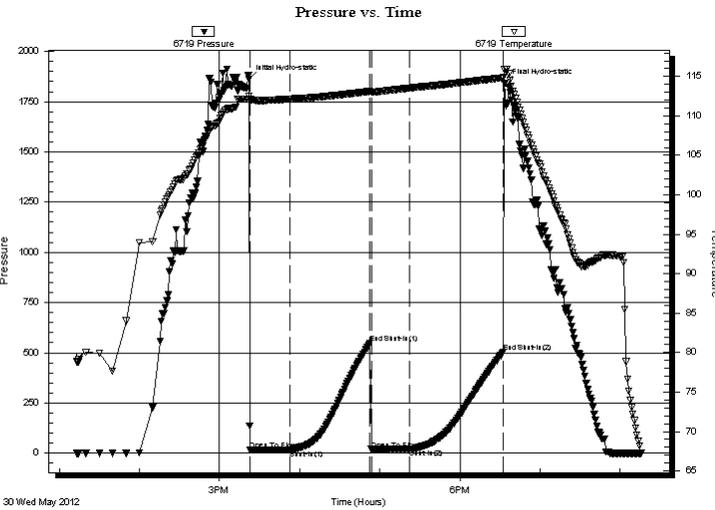
18-2s-29w Decatur, KS
Lohofener #1-18
Job Ticket: 46173 **DST#: 1**
Test Start: 2012.05.30 @ 13:13:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:23:00
Time Test Ended: 20:16:00
Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 57
Interval: **3751.00 ft (KB) To 3802.00 ft (KB) (TVD)**
Reference Elevations: 2786.00 ft (KB)
Total Depth: 3802.00 ft (KB) (TVD) 2781.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6719 Inside
Press @ Run Depth: 20.31 psig @ 3752.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.30 End Date: 2012.05.30 Last Calib.: 2012.05.30
Start Time: 13:13:05 End Time: 20:15:59 Time On Btm: 2012.05.30 @ 15:22:00
Time Off Btm: 2012.05.30 @ 18:33:30

TEST COMMENT: 30 - IF: Surface blow, dead at 9 1/2 min.
60 - IS: No blow back
30 - FF: No blow
60 - FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1861.90 | 112.48 | Initial Hydro-static |
| 1 | 15.81 | 112.16 | Open To Flow (1) |
| 31 | 18.12 | 112.14 | Shut-In(1) |
| 91 | 545.71 | 113.11 | End Shut-In(1) |
| 92 | 18.78 | 112.97 | Open To Flow (2) |
| 121 | 20.31 | 113.54 | Shut-In(2) |
| 191 | 502.15 | 114.85 | End Shut-In(2) |
| 192 | 1842.21 | 115.88 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 2.00 | Mud w /trace of Oil 100%m | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46173 **DST#: 1**
Test Start: 2012.05.30 @ 13:13:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3568.00 ft | Diameter: 3.80 inches | Volume: 50.05 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: 187.00 ft | Diameter: 2.25 inches | Volume: 0.92 bbl | Weight to Pull Loose: 58000.00 lb |
| | | | <u>Total Volume: 50.97 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 32.00 ft | | | String Weight: Initial 55000.00 lb |
| Depth to Top Packer: | 3751.00 ft | | | Final 55000.00 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 slid 6' to bottom before opening - No mud loss

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool | 5.00 | | | 3728.00 | |
| Hydraulic tool | 5.00 | | | 3733.00 | |
| Jars | 5.00 | | | 3738.00 | |
| Safety Joint | 3.00 | | | 3741.00 | |
| Packer | 5.00 | | | 3746.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3751.00 | |
| Stubb | 1.00 | | | 3752.00 | |
| Recorder | 0.00 | 6719 | Inside | 3752.00 | |
| Recorder | 0.00 | 8320 | Outside | 3752.00 | |
| Perforations | 10.00 | | | 3762.00 | |
| Blank Spacing | 33.00 | | | 3795.00 | |
| Perforations | 4.00 | | | 3799.00 | |
| Bullnose | 3.00 | | | 3802.00 | 51.00 Bottom Packers & Anchor |

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46173 **DST#: 1**
Test Start: 2012.05.30 @ 13:13:00

Mud and Cushion Information

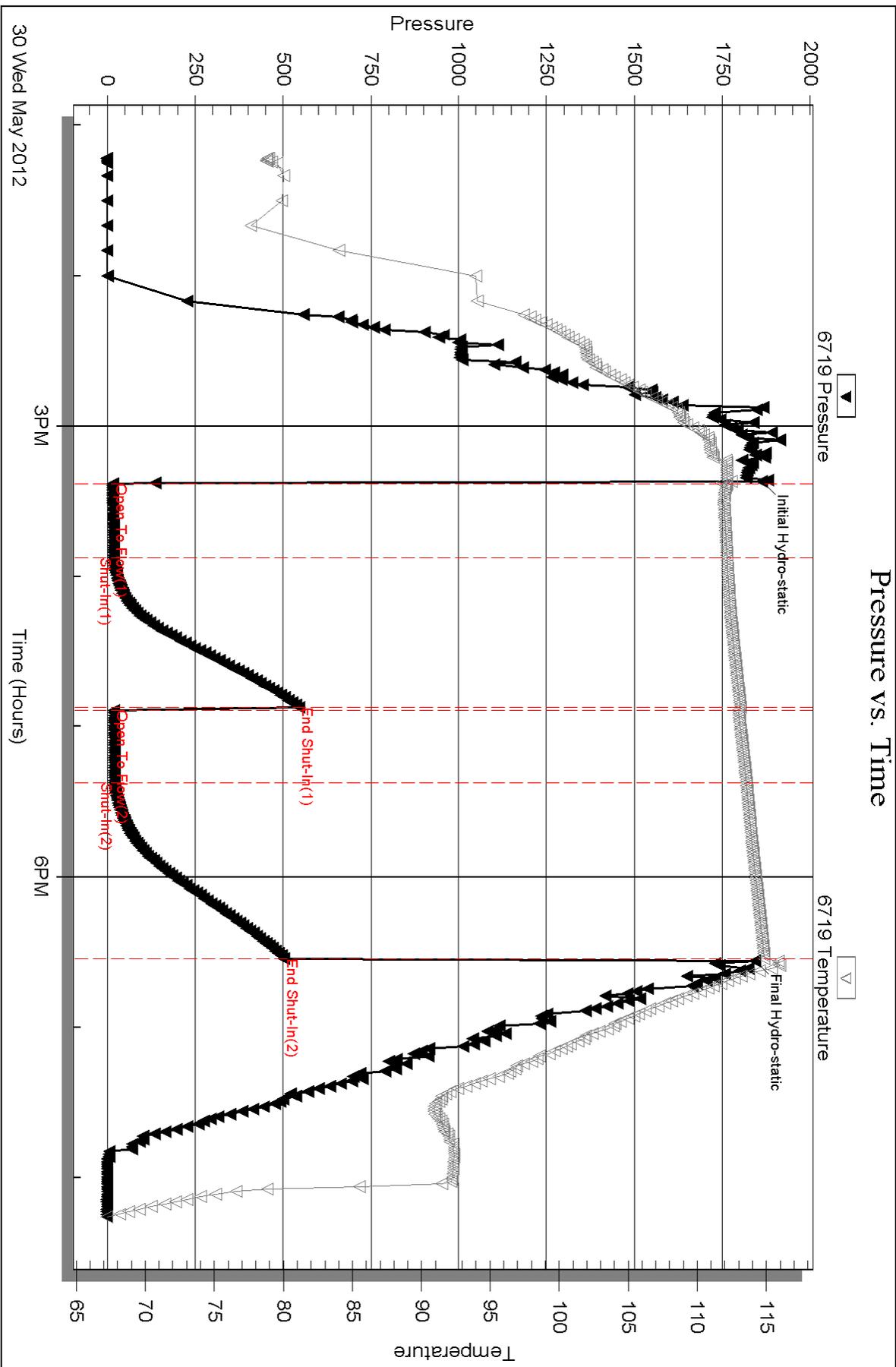
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 58.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.18 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

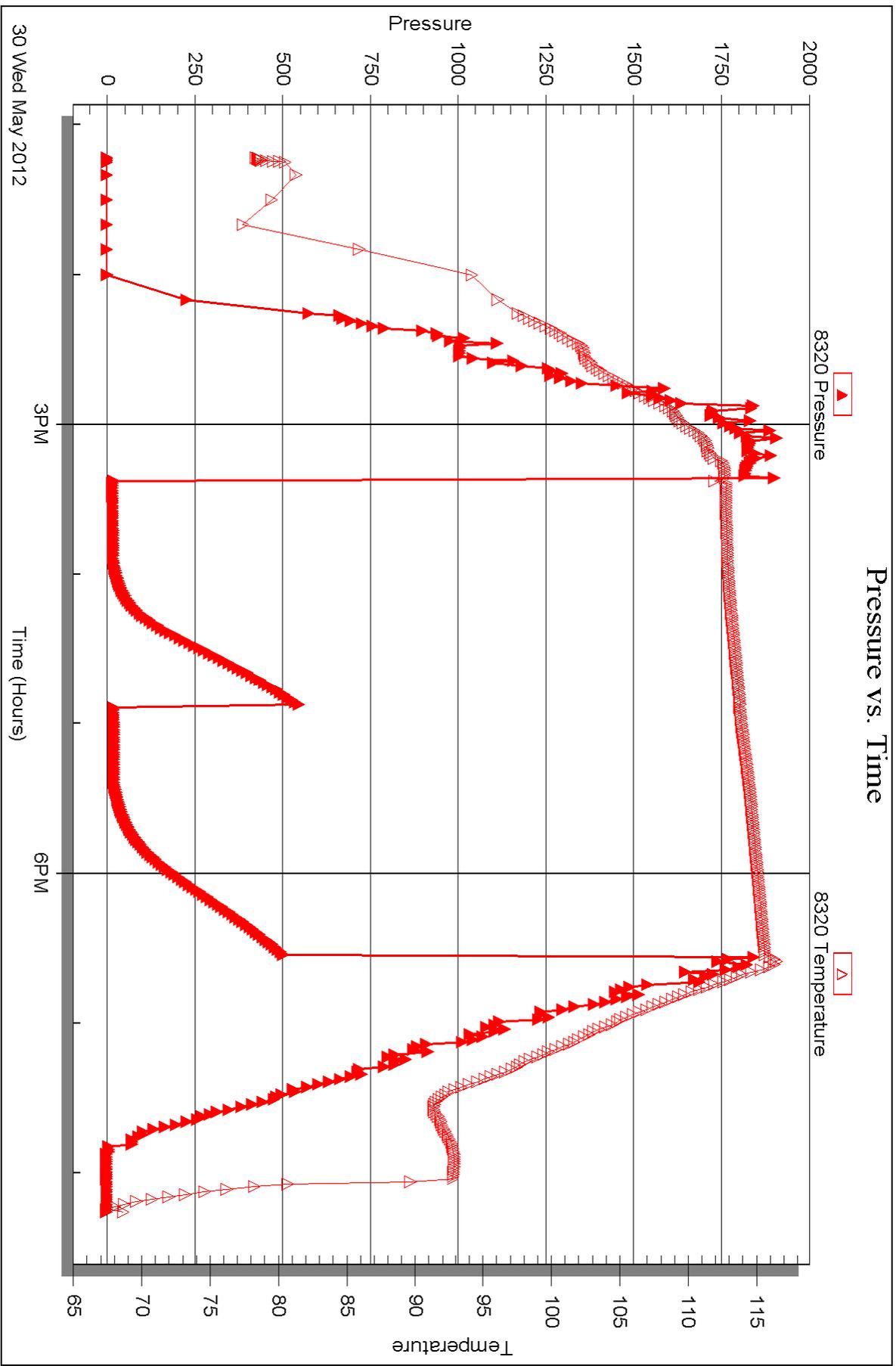
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 2.00 | Mud w /trace of Oil 100%m | 0.010 |

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: LCM = 6#







DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Jeff Christian

Lohofener #1-18

18-2s-29w Decatur,KS

Start Date: 2012.05.31 @ 07:16:00

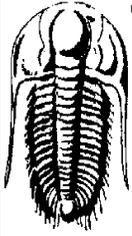
End Date: 2012.05.31 @ 15:15:30

Job Ticket #: 46174 DST #: 2

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

Printed: 2012.06.04 @ 16:31:17

Murfin Drilling Co. Inc.
18-2s-29w Decatur,KS
Lohofener #1-18
DST # 2
LKC "D-G"
2012.05.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46174 **DST#: 2**
Test Start: 2012.05.31 @ 07:16:00

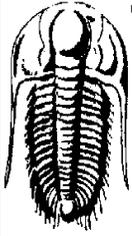
Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3601.00 ft | Diameter: 3.80 inches | Volume: 50.51 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: 187.00 ft | Diameter: 2.25 inches | Volume: 0.92 bbl | Weight to Pull Loose: | 60000.00 lb |
| | | | <u>Total Volume: 51.43 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 14.00 ft | | | String Weight: Initial | 56000.00 lb |
| Depth to Top Packer: | 3802.00 ft | | | Final | 60000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 88.00 ft | | | | |
| Tool Length: | 116.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments: Jars & Joint not marked on Geo's orders - Tool pusher told me to run them on all test

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Shut In Tool | 5.00 | | | 3779.00 | |
| Hydraulic tool | 5.00 | | | 3784.00 | |
| Jars | 5.00 | | | 3789.00 | |
| Safety Joint | 3.00 | | | 3792.00 | |
| Packer | 5.00 | | | 3797.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3802.00 | |
| Stubb | 1.00 | | | 3803.00 | |
| Recorder | 0.00 | 6719 | Inside | 3803.00 | |
| Recorder | 0.00 | 8320 | Outside | 3803.00 | |
| Perforations | 18.00 | | | 3821.00 | |
| Blank Spacing | 64.00 | | | 3885.00 | |
| Perforations | 2.00 | | | 3887.00 | |
| Bullnose | 3.00 | | | 3890.00 | 88.00 Bottom Packers & Anchor |

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46174 **DST#: 2**
Test Start: 2012.05.31 @ 07:16:00

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: | 36000 ppm |
| Viscosity: 52.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.99 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

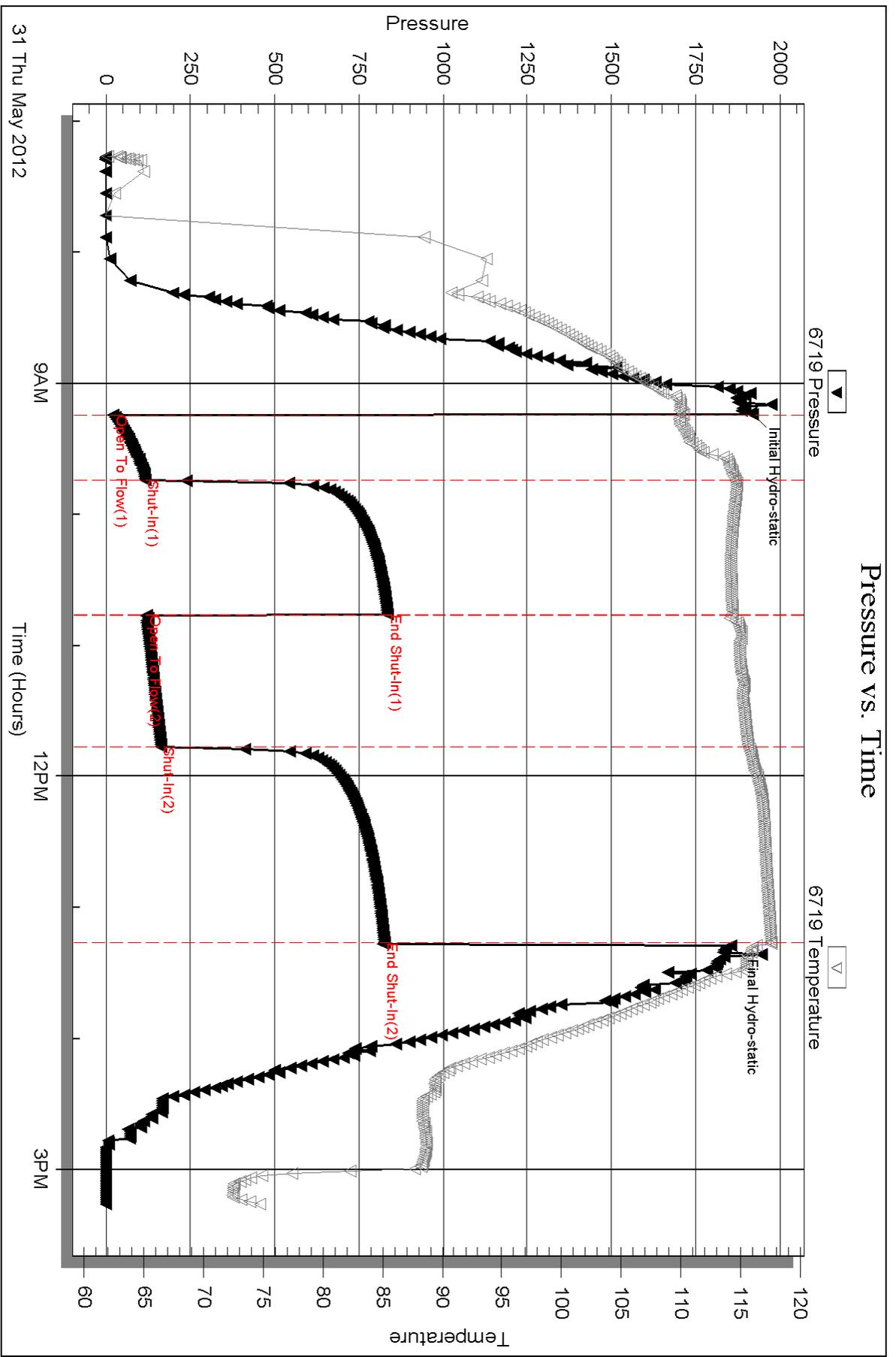
| Length ft | Description | Volume bbl |
|--------------|-----------------------------|---------------|
| 125.00 | MCW w/trace oil 68%w , 32%m | 0.615 |
| 125.00 | WCM w/trace oil 74%m, 26%w | 1.189 |
| 62.00 | Mud w/trace oil 100%m | 0.870 |

Total Length: 312.00 ft Total Volume: 2.674 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: LCM = 5#
RW = .201 ohms @ 71 deg F

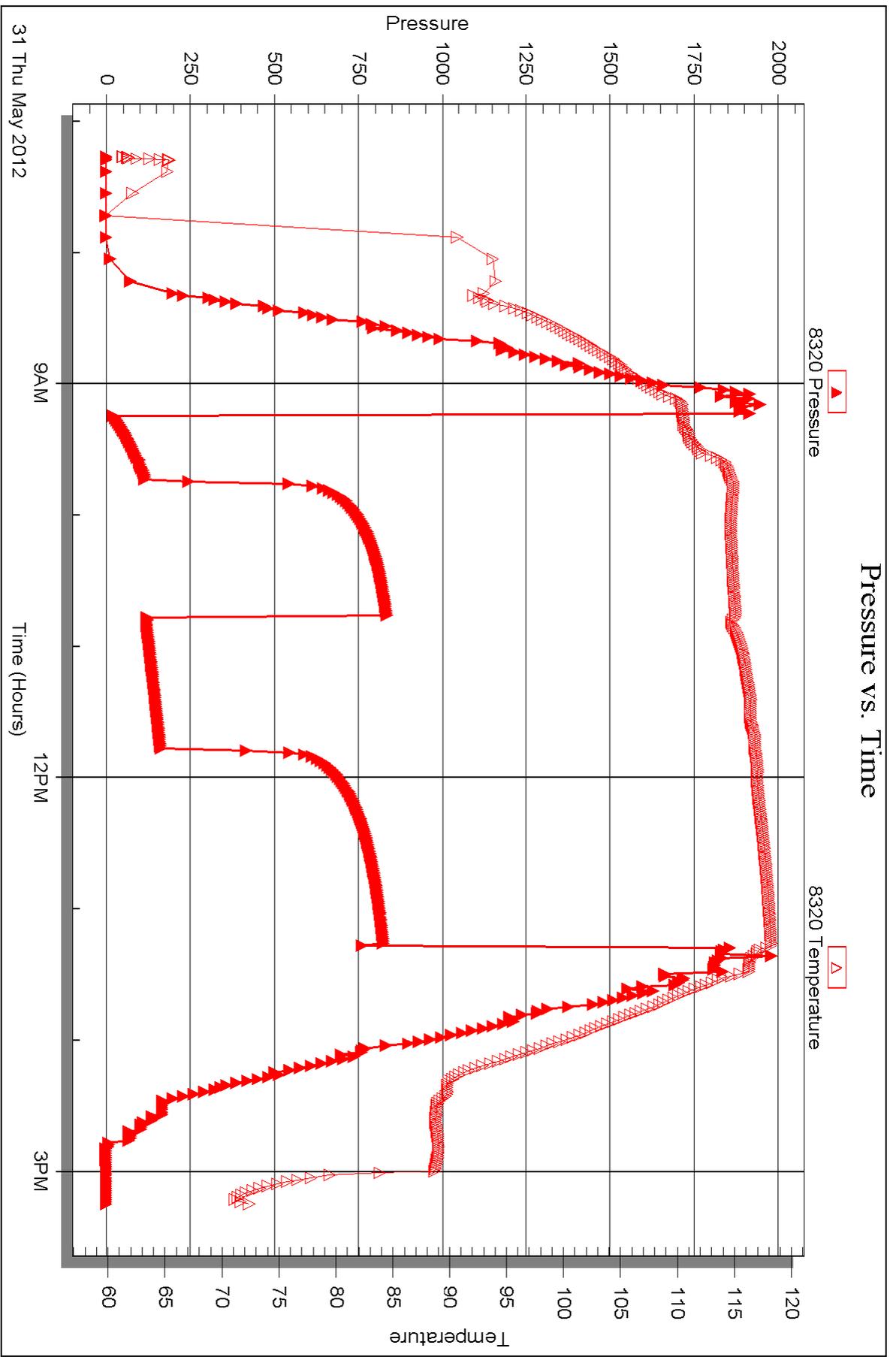


Serial #: 8320

Outside Murfin Drilling Co. Inc.

Lohofener #1-18

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46174

Printed: 2012.06.04 @ 16:31:20



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Jeff Christian

Lohoefener #1-18

18-2s-29w Decatur,KS

Start Date: 2012.06.01 @ 03:04:00

End Date: 2012.06.01 @ 11:50:00

Job Ticket #: 46175 DST #: 3

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

Printed: 2012.06.04 @ 16:30:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46175 **DST#: 3**
Test Start: 2012.06.01 @ 03:04:00

Tool Information

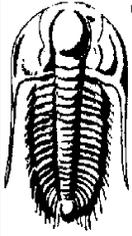
| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3694.00 ft | Diameter: 3.80 inches | Volume: 51.82 bbl | Tool Weight: | 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 187.00 ft | Diameter: 2.25 inches | Volume: 0.92 bbl | Weight to Pull Loose: | 58000.00 lb |
| | | | <u>Total Volume: 52.74 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 19.00 ft | | | String Weight: Initial | 55000.00 lb |
| Depth to Top Packer: | 3890.00 ft | | | Final | 58000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 65.00 ft | | | | |
| Tool Length: | 93.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments: Tool slid 2' to bottom before opening - No mud loss

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

| | | | | | |
|----------------|-------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 3867.00 | |
| Hydraulic tool | 5.00 | | | 3872.00 | |
| Jars | 5.00 | | | 3877.00 | |
| Safety Joint | 3.00 | | | 3880.00 | |
| Packer | 5.00 | | | 3885.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3890.00 | |
| Stubb | 1.00 | | | 3891.00 | |
| Recorder | 0.00 | 6719 | Inside | 3891.00 | |
| Recorder | 0.00 | 8320 | Outside | 3891.00 | |
| Perforations | 25.00 | | | 3916.00 | |
| Blank Spacing | 34.00 | | | 3950.00 | |
| Perforations | 2.00 | | | 3952.00 | |
| Bullnose | 3.00 | | | 3955.00 | 65.00 Bottom Packers & Anchor |

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

18-2s-29w Decatur,KS
Lohofener #1-18
Job Ticket: 46175 **DST#: 3**
Test Start: 2012.06.01 @ 03:04:00

Mud and Cushion Information

| | | |
|----------------------------------|----------------------------|-----------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 36.4 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 5.59 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 1500.00 ppm | | |
| Filter Cake: 2.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--|---------------|
| 63.00 | GMCO 46%o, 28%g, 26%m | 0.310 |
| 124.00 | GOCM 56%m, 29%o, 15%g | 0.610 |
| 70.00 | GOM 53%m, 36%o, 11%g | 0.982 |
| 55.00 | CGO 84%o, 15%g, 1%m | 0.772 |
| 0.00 | GIP= ?? couldn't smell over hulls odor | 0.000 |

Total Length: 312.00 ft Total Volume: 2.674 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: LCM = 6# Gravity = 37.2 api @ 68 deg F
Corrected Gravity = 36.4 api

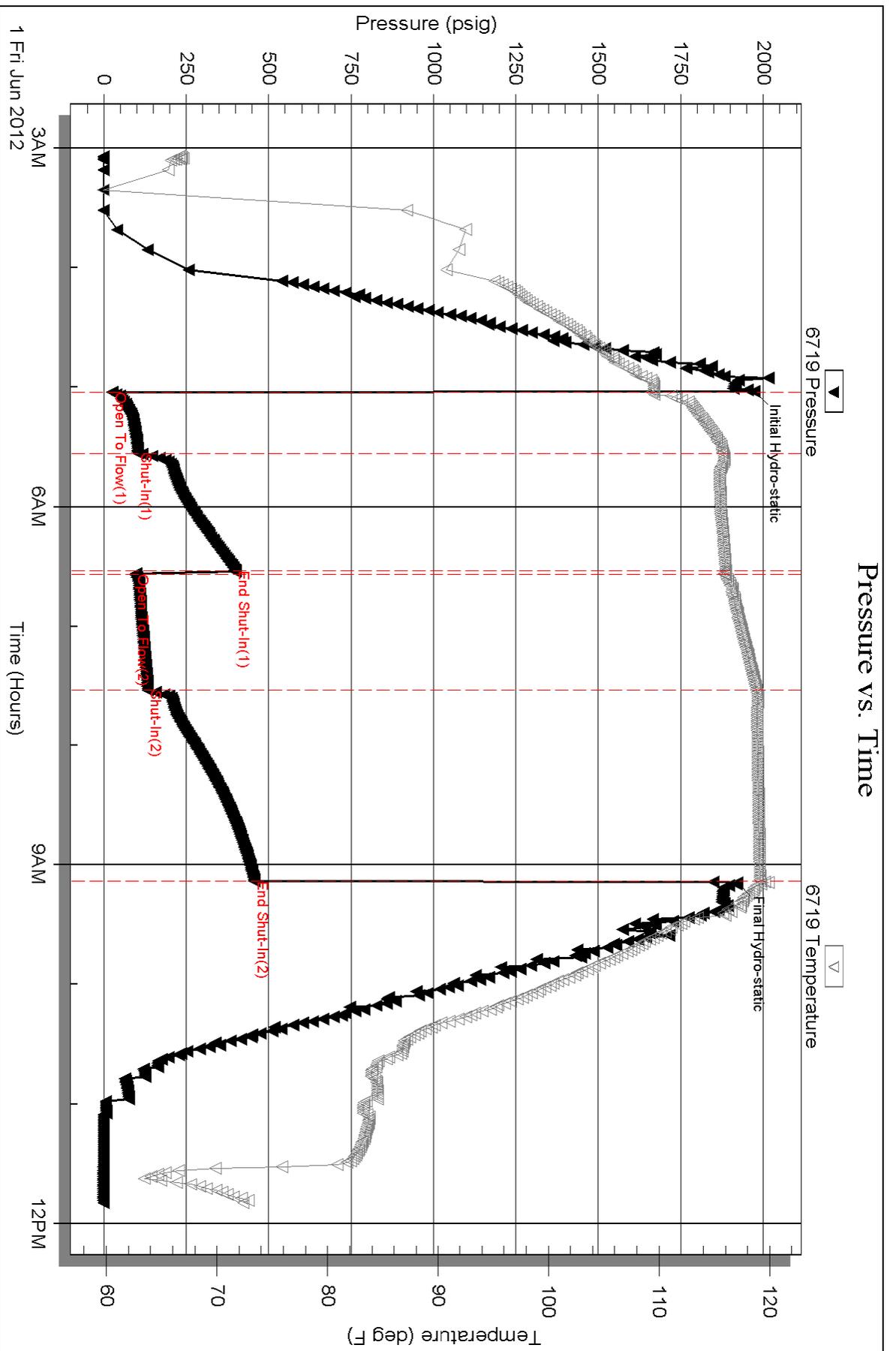
Serial #: 6719

Inside

Murfin Drilling Co. Inc.

Lohoefer #1-18

DST Test Number: 3

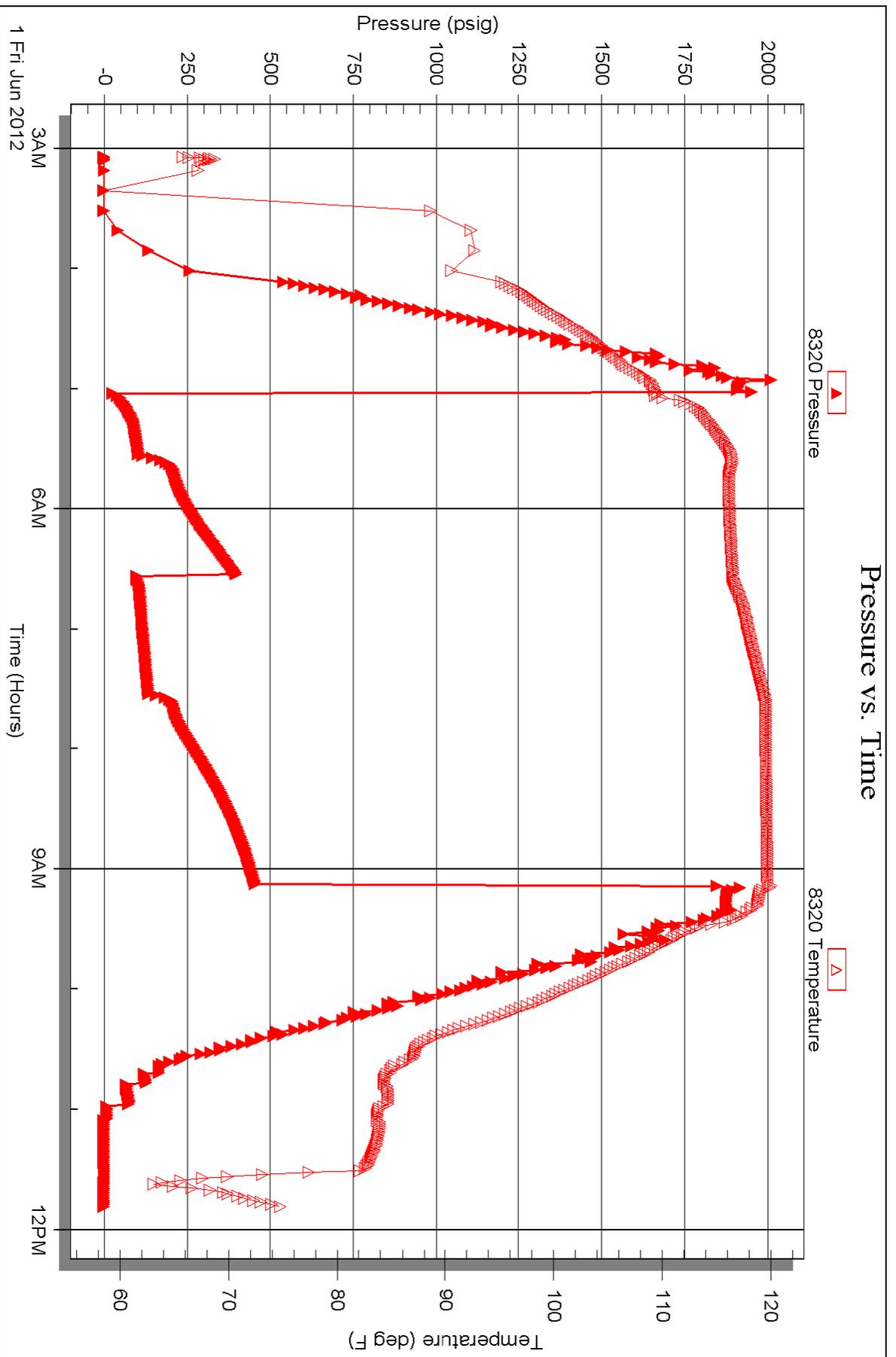


Serial #: 8320

Outside Murfin Drilling Co. Inc.

Lohofener #1-18

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46173

4/10

Well Name & No. Lohofener #1-18 Test No. 1 Date 5-30-12
 Company Murfin Drilling Co. Inc. Elevation 2786 KB 2781 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #8
 Location: Sec. 18 Twp. 2S Rge. 29W Co. Decatur State Ks

Interval Tested 3751-3802 Zone Tested LKC "A"
 Anchor Length 51 Drill Pipe Run 3568 Mud Wt. 9.0
 Top Packer Depth 3746 Drill Collars Run ~~186~~ 187 Vis 58
 Bottom Packer Depth 3751 Wt. Pipe Run - WL 5.2
 Total Depth 3802 Chlorides 1500 ppm System LCM 6

Blow Description IF: Surface blow, dead at 9 1/2 min.
ISI: No blowback
FF: No blow
FSI: No blowback

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|---------------------------|--------------|----------|------------|------------|
| <u>2</u> | <u>Mud w/trace of oil</u> | <u>trace</u> | <u>-</u> | <u>100</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 2 BHT 115 Gravity - API RW - @ - °F Chlorides - ppm

| | | |
|-------------------------------------|---|---------------------------------|
| (A) Initial Hydrostatic <u>1862</u> | <input type="checkbox"/> Test <u>*</u> 1150 | T-On Location <u>12:20</u> |
| (B) First Initial Flow <u>16</u> | <input type="checkbox"/> Jars <u>*</u> 250 | T-Started <u>13:13</u> |
| (C) First Final Flow <u>18</u> | <input type="checkbox"/> Safety Joint <u>*</u> 75 | T-Open <u>15:23</u> |
| (D) Initial Shut-In <u>546</u> | <input checked="" type="checkbox"/> Circ Sub <u>*NA</u> | T-Pulled <u>18:32</u> |
| (E) Second Initial Flow <u>19</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>20:10</u> |
| (F) Second Final Flow <u>20</u> | <input type="checkbox"/> Mileage <u>RT 20</u> 31 | Comments <u>Tool slid 6' to</u> |
| (G) Final Shut-In <u>502</u> | <input checked="" type="checkbox"/> Sampler | <u>bottom before opening</u> |
| (H) Final Hydrostatic <u>1842</u> | <input checked="" type="checkbox"/> Straddle | <u>Nomud loss</u> |

| | | |
|---------------------------|--|---|
| Initial Open <u>30</u> | <input checked="" type="checkbox"/> Shale Packer | <input checked="" type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>60</u> | <input checked="" type="checkbox"/> Extra Packer | <input checked="" type="checkbox"/> Ruined Packer |
| Final Flow <u>30</u> | <input checked="" type="checkbox"/> Extra Recorder | <input checked="" type="checkbox"/> Extra Copies |
| Final Shut-In <u>60</u> | <input checked="" type="checkbox"/> Day Standby | Sub Total <u>0</u> |
| | <input checked="" type="checkbox"/> Accessibility | Total <u>1506</u> |
| | Sub Total <u>1506</u> | MP/DST Disc't |

Approved By [Signature] Our Representative James Winkler

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 of 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46174

Well Name & No. Lohoefer #1-18 Test No. 2 Date 5-31-12
 Company Murfin Drilling Co. Inc Elevation 2786 KB 2781 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #8
 Location: Sec. 18 Twp. 2s Rge. 29w Co. Decatur State KS

Interval Tested 3802 - 3890 Zone Tested LKC "D-G"
 Anchor Length 88 Drill Pipe Run 3601 Mud Wt. 9.2
 Top Packer Depth 3797 Drill Collars Run 187 Vis 52
 Bottom Packer Depth 3802 Wt. Pipe Run - WL 6.0
 Total Depth 3890 Chlorides 1500 ppm System LCM 5

Blow Description IF: Blow built to 8"
ISI: Bled off, No blowback
FF: Blow built to BOB (11") at 60 min.
FSI: Bled off, No blowback

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|---------------------------|----------|--------------|-----------|------------|
| <u>62</u> | <u>mud w/trace of Oil</u> | <u>-</u> | <u>trace</u> | <u>-</u> | <u>100</u> |
| <u>125</u> | <u>WCM w/trace of Oil</u> | <u>-</u> | <u>trace</u> | <u>26</u> | <u>74</u> |
| <u>125</u> | <u>MCW w/trace of Oil</u> | <u>-</u> | <u>trace</u> | <u>68</u> | <u>32</u> |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 312 BHT 118 Gravity - API RW .201 @ 71 °F Chlorides 36,000 ppm

| | | |
|-------------------------------------|---|---|
| (A) Initial Hydrostatic <u>1920</u> | <input type="checkbox"/> Test <u>*</u> 1150 | T-On Location <u>6:40</u> |
| (B) First Initial Flow <u>21</u> | <input type="checkbox"/> Jars <u>*</u> 250 | T-Started <u>7:16</u> |
| (C) First Final Flow <u>116</u> | <input type="checkbox"/> Safety Joint <u>*</u> 75 | T-Open <u>9:14</u> |
| (D) Initial Shut-In <u>834</u> | <input checked="" type="checkbox"/> Circ Sub <u>*NA</u> | T-Pulled <u>13:16</u> |
| (E) Second Initial Flow <u>121</u> | <input checked="" type="checkbox"/> Hourly Standby | T-Out <u>15:10</u> |
| (F) Second Final Flow <u>162</u> | <input type="checkbox"/> Mileage <u>20RT</u> 31 | Comments |
| (G) Final Shut-In <u>825</u> | <input checked="" type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1856</u> | <input checked="" type="checkbox"/> Straddle | <input checked="" type="checkbox"/> Ruined Shale Packer |

| | | |
|---------------------------|--|---|
| Initial Open <u>30</u> | <input checked="" type="checkbox"/> Shale Packer | <input checked="" type="checkbox"/> Ruined Packer |
| Initial Shut-In <u>60</u> | <input checked="" type="checkbox"/> Extra Packer | <input checked="" type="checkbox"/> Extra Copies |
| Final Flow <u>60</u> | <input checked="" type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Shut-In <u>90</u> | <input checked="" type="checkbox"/> Day Standby | Total <u>1506</u> |
| | <input checked="" type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1506</u> | |

Approved By Jeff Christian Our Representative James Winder

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 of 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46175

4/10

Well Name & No. Lohofener #1-18 Test No. 3 Date 6-1-12
 Company Murfin Drilling Co. Inc. Elevation 2786 KB 2781 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #8
 Location: Sec. 18 Twp. 25 Rge. 29W Co. Decatur State KS

Interval Tested 3890-3955 Zone Tested LKC "H-J"
 Anchor Length 65 Drill Pipe Run 3694 Mud Wt. 9.1
 Top Packer Depth 3885 Drill Collars Run 187 Vis 56
 Bottom Packer Depth 3890 Wt. Pipe Run - WL 5.6
 Total Depth 3955 Chlorides 1500 ppm System LCM 6

Blow Description IF: Blow built to BOB (11") in 8 1/2 min.
ISI: Bled off, Blowback built to 1 3/4"
FF: Blow built to BOB in 5 min.
FSI: Bled off, Blowback built to ~~2 1/2~~ 3 1/2"

| Rec | Feet of | %gas | %oil | %water | %mud |
|--------------------|---------|--|------|--------|------|
| 55 | CGO | 15 | 84 | 1 | |
| 70 | GOM | 11 | 36 | - | 53 |
| 124 124 | GOCM | 15 | 29 | - | 56 |
| 63 | GMCO | 28 | 46 | - | 26 |
| | GIP-?? | <u>couldn't smell any over odor of Halls</u> | | | |

Rec Total 312 BHT 119 Gravity 36.4 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1972 Test 1150 T-On Location 2:50
 (B) First Initial Flow 26 Jars 250 T-Started 3:04
 (C) First Final Flow 104 Safety Joint 75 T-Open 5:02
 (D) Initial Shut-In 399 Circ Sub ANA T-Pulled 9:08
 (E) Second Initial Flow 95 Hourly Standby _____ T-Out 11:45
 (F) Second Final Flow 134 Mileage 20RT X 2 31
 (G) Final Shut-In 456 Sampler _____
 (H) Final Hydrostatic 1921 Straddle _____

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1506

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1506
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By Jeff Christian Our Representative James Winkler

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ALLIED

OIL & GAS SERVICES, LLC

acct
42H.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131283

Invoice Date: May 26, 2012

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

Page: 1

PROD COPY



OPERATOR PAY MDC

LEASE: BM

Bill To:
Murfin Drlg. Co., Inc.
PO Box 661
Colby, KS 67701

| Customer ID | Well Name# or Customer P.O. | Payment Terms | |
|--------------|-----------------------------|---------------|----------|
| Murfin | Lohofener #1-18 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | May 26, 2012 | 6/25/12 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|-------------|-----------------------|------------|----------|
| 200.00 | MAT | Class A Common | 16.25 | 3,250.00 |
| 7.00 | MAT | Chloride | 58.20 | 407.40 |
| 210.00 | SER | Handling | 2.10 | 441.00 |
| 68.00 | SER | Ton Miles | 22.75 | 1,547.18 |
| 1.00 | SER | Surface | 1,125.00 | 1,125.00 |
| 68.00 | SER | Heavy Vehicle Mileage | 7.00 | 476.00 |
| 68.00 | SER | Light Vehicle Mileage | 4.00 | 272.00 |
| 1.00 | CEMENTER | Andrew Forslund | | |
| 1.00 | EQUIP OPER | Jerry Yates | | |
| 1.00 | OPER ASSIST | Chris Helpingstine | | |

Account # 10203 3,4518.000 5154.07 Comment S.C. Sg. 11-18

| | |
|------------------------|-----------------|
| Subtotal | 7,518.58 |
| Sales Tax | 266.99 |
| Total Invoice Amount | 7,785.57 |
| Payment/Credit Applied | |
| TOTAL | 7,785.57 |

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

\$ 2631.50

ONLY IF PAID ON OR BEFORE
Jun 20, 2012

01LN

Deduct

(2631.50)

5154.07



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



Invoice

| | |
|-----------|-----------|
| DATE | INVOICE # |
| 6/12/2012 | 21767 |

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

- Acidizing
- Cement
- Tool Rental

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|---|--|------------|---------|---------------|-----------|---------------|--------------------|------------|
| Net 30 | #1-18 | LoHoefener | Decatur | Company Tools | Oil | Development | Cement Port Collar | Roger |
| PRICE REF. | DESCRIPTION | | | | QTY | UM | UNIT PRICE | AMOUNT |
| 575D | Mileage - 1 Way | | | | 120 | Miles | 6.00 | 720.00 |
| 576D-D | Pump Charge - Port Collar | | | | 1 | Job | 1,250.00 | 1,250.00 |
| 290 | D-Air | | | | 2 | Gallon(s) | 35.00 | 70.00T |
| 330 | Swift Multi-Density Standard (MIDCON II) | | | | 225 | Sacks | 16.50 | 3,712.50T |
| 276 | Flocele | | | | 75 | Lb(s) | 2.00 | 150.00T |
| 581D | Service Charge Cement | | | | 300 | Sacks | 2.00 | 600.00 |
| 583D | Drayage | | | | 1,791.24 | Ton Miles | 1.00 | 1,791.24 |
| | Subtotal | | | | | | | 8,293.74 |
| | Sales Tax Decatur County | | | | | | 7.30% | 287.07 |
| USED FOR <u>IC 103</u> APPROVED <u>[Signature]</u> | | | | | | | | |
| We Appreciate Your Business! | | | | | | | Total | \$8,580.81 |



Services, Inc.

CHARGE TO: Martin Alys Co.

ADDRESS _____
CITY, STATE, ZIP CODE _____

TICKET NO. **21767**

PAGE 1 OF 1

| | | | | | | | |
|---|------------------------------|-------------------------|-----------------|--------------|-----------|----------------|-------------|
| SERVICE LOCATIONS | WELL/PROJECT NO. <u>1-18</u> | LEASE | COUNTY/PARISH | STATE | CITY | DATE | OWNER |
| <u>Ness City, ls</u> | | <u>Lo Hefernd</u> | <u>Deatura</u> | <u>ks</u> | | <u>6/12/12</u> | <u>Same</u> |
| TICKET TYPE | CONTRACTOR | RIG NAME/NO. | SHIPPED VIA | DELIVERED TO | ORDER NO. | WELL LOCATION | |
| <input checked="" type="checkbox"/> SERVICE | <u>Co. Tools</u> | | <u>CIT</u> | <u>Loc</u> | | | |
| <input type="checkbox"/> SALES | | | | | | | |
| WELL TYPE | WELL CATEGORY | JOB PURPOSE | WELL PERMIT NO. | | | | |
| <u>0:1</u> | <u>Development</u> | <u>Cmt. Part Collar</u> | | | | | |
| REFERRAL LOCATION | INVOICE INSTRUCTIONS | | | | | | |

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | DESCRIPTION | MILEAGE | QTY. | UM | QTY. | UM | UNIT PRICE | AMOUNT |
|-----------------|-------------------------------------|------------|------|-------------|---------|---------|-------|------|----|------------|---------|
| | | LOC | ACCT | | | | | | | | |
| 575 | | | | | | 120 | mi/l | | | 6.00 | 720.00 |
| 576 | | | | | | 1 | ea | | | 1250.00 | 1250.00 |
| 290 | | | | | | 2 | gal | | | 35.00 | 70.00 |
| 581 | | | | | | 300 | lbs | | | 2.00 | 600.00 |
| 583 | | | | | | 1791.24 | ft | | | 1.00 | 1791.24 |
| 330 | | | | | | 225 | sq ft | | | 16.50 | 3712.50 |
| 276 | | | | | | 75 | ft | | | 2.00 | 150.00 |

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: [Signature] TIME SIGNED: A.M. P.M.

REMIT PAYMENT TO:

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

| | | | | | |
|--|------------------------------|-----------------------------|-----------|------------|---------|
| SURVEY | AGREE | UN-DECEID | DIS-AGREE | PAGE TOTAL | |
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? | | | | 8293 | 74 |
| WE UNDERSTOOD AND MET YOUR NEEDS? | | | | | |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY? | | | | | |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? | | | | | |
| ARE YOU SATISFIED WITH OUR SERVICE? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | | | |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND | | | | TOTAL | 8580.81 |

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

SWIFT OPERATOR: [Signature] APPROVAL: _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-12-12 PAGE NO. 1

CUSTOMER *Murkin Drly* WELL NO. *1-18* LEASE *Lo Hoefener* JOB TYPE *Port Collar* TICKET NO. *21767*

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|-------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 0930 | | | | | | | on loc. |
| | | | | | | | | P.C. @ 2542' |
| | 0945 | | | | | 1,000 | | Press test 1,000 psi held |
| | | | | | | | | open Port Collar |
| | 0950 | 2 | | | | 200 | | Inj. Rate 2 BPM 200 psi |
| | | | | | | | | Blow on Braden head |
| | 0955 | 3 | | | | 500 | | Start Mix 300 sacks SMD Cement |
| | | | | | | | | Pumped 7 ^{SS} established Circulation |
| | 10:25 | | | | | | | Finishing 225 sacks Cement to surface |
| | | | | | | | | Displ. 9 ^{SS} |
| | | | | | | | | Close P.C. |
| | | | | | | | | Test 1,000 psi "closed" |
| | | | | | | | | Run 5 Jts. |
| | 10:45 | | | | | | | Reverse out short way |
| | 10:55 | | | | | | | Hole clean 2 Flage 20 ^{SS} total |
| | | | | | | | | Pull opening tool out of hole |
| | | | | | | | | Wash & Rack up track |
| | 11:15 | | | | | | | Job Complete |

[Signature]

Roger, Duck, Doug, Flint



Acctg —
cc: WF
cc: Leon
cc: Ling

| | | |
|-----------------------------------|--------------------|----------------------------|
| PAGE 1 of 1 | CUST NO 1002852 | INVOICE DATE 06/05/2012 |
| INVOICE NUMBER 1717 - 90920549 | | |

Liberal (620) 624-2277
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Lohoefener #1-18
 O **LOCATION**
 B **COUNTY** Decatur
 S **STATE** KS
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi
 T
 E **JOB CONTACT**

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE |
|----------|-------------|--------------------|---------------|------------|
| 40471342 | 27462 | | Net - 30 days | 07/05/2012 |

For Service Dates: 06/02/2012 to 06/02/2012

0040471342

171702348A Cement-New Well Casing/Pi 06/02/2012
 5 1/2" LS - credit \$1400.00 - 4 hrs rig time, pump
 truck and water to circulate drilling mud out

USED FOR IC 103
 APPROVED JR

| | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|----------|--------|------------|----------------|
| AA2 Cement | 200.00 | EA | 13.33 | 2,665.70 T |
| Salt | 1,107.00 | EA | 0.37 | 405.35 T |
| Gypsum | 940.00 | EA | 0.55 | 516.30 T |
| C-15 | 113.00 | EA | 9.15 | 1,034.42 T |
| C-42P | 47.00 | EA | 5.86 | 275.36 T |
| Gilsonite | 1,000.00 | EA | 0.49 | 490.66 T |
| "Auto Fill Float Shoe 5 1/2" (Blue)" | 1.00 | EA | 263.64 | 263.64 |
| "Latch Down Plug & Baffle, 5 1/2" (Blu | 1.00 | EA | 292.93 | 292.93 |
| Antelope 5 1/2 X 7 7/8 Turbo | 15.00 | EA | 54.93 | 823.88 |
| Cmt Scratchers Rotating Type | 5.00 | EA | 36.62 | 183.08 |
| "Cmt Basket, Canvas 5 1/2" | 2.00 | EA | 699.38 | 1,398.76 |
| "Cement Port Collar, 5 1/2" (Red)" | 1.00 | EA | 3,515.22 | 3,515.22 |
| Super Flush II | 500.00 | EA | 1.12 | 560.24 T |
| Casing Swivel Rental | 1.00 | EA | 146.47 | 146.47 |
| CC-1 | 4.00 | EA | 32.22 | 128.89 T |
| Heavy Equipment Mileage | 400.00 | MI | 5.13 | 2,050.54 |
| Blending & Mixing Service Charge | 200.00 | BAG | 1.03 | 205.05 |
| "Proppant & Bulk Del. Chgs., per ton mil | 1,880.00 | EA | 1.17 | 2,202.86 |
| Depth Charge; 4001'-5000' | 1.00 | EA | 1,845.48 | 1,845.48 |
| Plug Container Util. Chg. | 1.00 | EA | 183.08 | 183.08 |
| "Unit Mileage Chg (PU, cars one way)" | 200.00 | MI | 3.11 | 622.48 |
| "Service Supervisor, first 8 hrs on loc. | 1.00 | EA | 128.16 | 128.16 |

| | | | |
|----------------------------------|--------------------------------------|----------------------|------------------|
| PLEASE REMIT TO: | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL | 19,938.55 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP | TAX | 443.62 |
| PO BOX 841903 | PO BOX 10460 | INVOICE TOTAL | 20,382.17 |
| DALLAS, TX 75284-1903 | MIDLAND, TX 79702 | | |



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET

1717 02348 A

DATE _____ TICKET NO. _____

| | | | | | | | | | |
|--|-----------|--|-----------|---------------|-----------|----------------------------|---------------|----|-------------|
| DATE OF JOB <u>6-2-12</u> DISTRICT <u>1717</u> | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: | | | | | | | |
| CUSTOMER <u>Morfin Drilling</u> | | LEASE <u>Lohaefer</u> 1-18 WELL NO. | | | | | | | |
| ADDRESS | | COUNTY <u>Decatur</u> STATE <u>KS</u> | | | | | | | |
| CITY STATE | | SERVICE CREW <u>I Chaoz, Eddie, Julian</u> | | | | | | | |
| AUTHORIZED BY <u>Tom Boat</u> <u>TRB</u> | | JOB TYPE: <u>242 long string</u> | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | TIME |
| | | | | | | | <u>6-2-12</u> | | <u>800</u> |
| <u>19820</u> | <u>14</u> | <u>27462</u> | <u>14</u> | <u>141351</u> | <u>14</u> | ARRIVED AT JOB | <u>6-2-12</u> | AM | <u>300</u> |
| | | | | <u>19857</u> | <u>1</u> | START OPERATION | <u>6-2-12</u> | AM | <u>1030</u> |
| | | | | | | FINISH OPERATION | <u>6-7-12</u> | AM | <u>1700</u> |
| | | | | | | RELEASED | <u>6-7-12</u> | AM | <u>100</u> |
| | | | | | | MILES FROM STATION TO WELL | | | <u>200</u> |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Morfin
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|--------|----------|------------|--------------------|
| CL105 | AP2 Cont | ✓ SK | 200 | | 3640 00 |
| CL111 | Salt | ✓ 16 | 1107 | | 553 50 |
| CL113 | Expansion | ✓ 16 | 940 | | 705 00 |
| CL103 | C-15 | ✓ 16 | 113 | | 1412 50 |
| CL107 | C-42P | ✓ 16 | 47 | | 376 00 |
| CL701 | Gilsonite | ✓ 16 | 1000 | | 670 00 |
| CF1251 | Auto Fill Float Shoe | ✓ GA | 1 | | 360 00 |
| CF607 | Latex Down Plug & Baffle | ✓ GA | 1 | | 400 00 |
| CF4752 | Coat Basket 5/4 | ✓ GA | 2 | | 1910 00 |
| CF4752 | Centralizer 5/2 | ✓ GA | 15 | | 1125 00 |
| CF2002 | Coat Scratchers Rotating | ✓ GA | 5 | | 250 00 |
| CF4752 | Coat Part Collar | ✓ GA | 1 | | 4800 00 |
| CE155 | Super Flush 11 | ✓ gal | 500 | | 765 00 |
| CE501 | Service Rental | ✓ GA | 1 | | 200 00 |
| CE700 | CC-1 HCL | ✓ gal | 4 | | 176 00 |
| E101 | Wagon Equipment Abilge | ✓ mi | 400 | | 2800 00 |
| CE740 | Block & Amp Chase | ✓ SK | 200 | | 280 00 |
| E113 | Bulk Delivery Chase | ✓ SK | 1880 | | 3008 00 |
| CE205 | Depth Chase | ✓ 4/15 | 1 | | 2520 00 |
| SUB TOTAL | | | | | 21338 55 |
| SERVICE & EQUIPMENT | | | | | %TAX ON \$ 1400 00 |
| MATERIALS | | | | | %TAX ON \$ |
| TOTAL | | | | | 19938 55 |

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

SERVICE REPRESENTATIVE: Ismael Chavez THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Morfin
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

