



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1166379
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: _____



1166379

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> _____ | 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

October 31, 2013

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

Re: ACO1
API 15-153-20926-00-00
Alex 1-23
SW/4 Sec.23-04S-31W
Rawlins 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

| Alex #1-23 660' FSL 900' FWL Sec. 23-4S-31W 2939' KB | | | | | | Daisy #1-27 2200' FNL 2200' FEL Sec. 27-4S-31W 2926' KB | | |
|---------------------------------------------------------------|------------|-------|------|----------|-------|------------------------------------------------------------------|----------|-------|
| Formation | Sample top | Datum | Ref | Log tops | Datum | Ref | Log tops | Datum |
| Anhydrite | 2692 | +247 | Flat | 2694 | +245 | -2 | 2679 | +247 |
| B/Anhydrite | 2727 | +212 | -2 | 2727 | +212 | -2 | 2712 | +214 |
| Topeka | 3758 | -819 | -1 | 3760 | -821 | -3 | 3744 | -818 |
| Heebner | 3921 | -982 | Flat | 3926 | -987 | -5 | 3908 | -982 |
| Lansing | 3970 | -1031 | +1 | 3972 | -1033 | -1 | 3958 | -1032 |
| Stark | 4137 | -1198 | +3 | 4138 | -1199 | +3 | 4127 | -1201 |
| BKC | 4188 | -1249 | -4 | 4188 | -1249 | -4 | 4171 | -1245 |
| Pawnee | 4301 | -1362 | -2 | 4301 | -362 | -2 | 4286 | -1360 |
| Cherokee | 4386 | -1447 | -2 | 4388 | -1449 | -4 | 4371 | -1445 |
| Mississippi | 4502 | -1563 | -5 | 4504 | -1565 | -7 | 4484 | -1558 |
| RTD | 4598 | | | | | | 4550 | |
| LTD | | | | 4602 | | | 4554 | |

GEOLOGIST'S REPORT

OPERATOR MURFIN DRILLING CO INC.

LEASE ALEX #1-23

LOCATION 660' FSL 900'FWL

SEC. 23 **TWSP** 4S **RGE** 31W

COUNTY RAWLINS **STATE** KANSAS

FIELD WILDCAT

CONTRACTOR MURFIN DRILLING CO INC. RIG NO. 2

COMMENCED JULY 4, 2013 **COMPLETED** JULY 12, 2013

MUD DISPLACED 3430 **MUD TYPE** CHEMICAL

DRILLING TIME KEPT FROM 3620 **TO** 4598

SAMPLES SAVED FROM 3620 **TO** 4598

SAMPLES EXAMINED FROM 3620 **TO** 4598

GEOLOGICAL SUPERVISION FROM 3680 **TO** 4598

GEOLOGIST ON WELL STEPHEN J. MILLER

FORMATION NAME

LOG **TOP DATUM** **TOP DATUM** **SAMPLE**

| FORMATION NAME | LOG | TOP DATUM | TOP DATUM | SAMPLE |
|-----------------|------|-----------|-----------|--------|
| ANHYDRITE | 2684 | +245 | 2892 | +247 |
| B/ ANHYDRITE | 2727 | +212 | 2727 | +212 |
| TOPEKA LIME | 3760 | -821 | 3758 | -819 |
| HEEBNER SHALE | 3926 | -987 | 3921 | -982 |
| LANISING LIME | 3972 | -1033 | 3970 | -1031 |
| STARK SHALE | 4138 | -1199 | 4137 | -1198 |
| UP. PAWNEE LIME | 4301 | -1362 | 4301 | -1362 |
| CHEROKEE SHALE | 4388 | -1449 | 4386 | -1447 |
| MISSISSIPPIAN | 4504 | -1565 | 4502 | -1563 |
| Total Depth | 4602 | -1663 | 4598 | -1659 |

ELEVATIONS

KB 2939

GL 2928

ALL MEASUREMENTS FROM K.B.

CASING RECORD

Conductor

Surface 8 5/8" @ 225'

Production 5 1/2" @ 4575'

ELECTRICAL SURVEYS:

PIONEER

DUAL INDUCTION

COMP NEUDENS

SONIC LOG

MICROLOG

23

REMARKS

API 15-153-20926

Drilling Fluids: MORGAN MUD

Drill Stem Testing: TRILOBITE TESTERS

Gas Trailer: NONE

Reserve Pit Chlorides: 2900 ppm

| DEPTH | SAMPLE DESCRIPTIONS | REMARKS | DRILL TIME (MIN/FT) |
|-------|----------------------------------------------------------------------------------------------------------------|---------|---------------------|
| 2692 | ANHYDRITE | | |
| 2728 | B/ ANHYDRITE | | |
| 2750 | Shale gray brn sandy | | |
| 2892 | Limestone lt gray f-xln s li grainy dense | | |
| 2921 | Shale grn brn sandy silty | | |
| 2970 | Limestone tan f-xln fos s li chaly dense | | |
| 3082 | Shale gray silty | | |
| 3137 | Limestone crm f-xln sli fos s li chaly | | |
| 3198 | Shale brn gray grn sandy soft | | |
| 3247 | Limestone lt gray f-xln s li fos chaly dense | | |
| 3362 | Shale gray silty | | |
| 3401 | Limestone tan f-xln sli fos chaly dense | | |
| 3437 | Shale brn red grn sandy silty soft | | |
| 3492 | Limestone crm f-xln fos s li chaly | | |
| 3521 | Limestone lt gray f-xln fos p int-foos por NS | | |
| 3570 | Limestone crm tan f-xln dense | | |
| 3682 | Sandstone lt gray f-vf grain s ub angular limy | | |
| 3727 | Shale brn red grn sandy soft | | |
| 3758 | Limestone crm tan f-xln fos s li chaly s cat f oos por NS | | |
| 3759 | Shale brn red sandy soft | | |
| 3819 | Limestone crm tan f-xln sli cool v fos f inter-foos por chaly NS | | |
| 3821 | Shale lt grn sandy soft | | |
| 3892 | Shale black carb | | |
| 3921 | Shale brn gm gray silty | | |
| 3970 | Limestone crm tan f-xln fos chaly no vis por | | |
| 3982 | Limestone gray f-md xln sli fos scat int-foos por p int-xln por SSFO(waxy) no odor spotted black stain no odor | | |
| 3987 | Shale brn gm sandy soft | | |
| 3992 | Limestone crm f-xln sli fos chaly | | |
| 3996 | Limestone crm f-xln fos s li chaly dense | | |
| 3997 | Sh black carb | | |
| 3998 | Limestone brn f-xln fos dense | | |
| 3999 | Shale brn red lt grn dk gray sandy silty soft | | |
| 4004 | Limestone lt gray f-xln cool sli fos f int-cool por GSFO faint odor sat dk brn stain | | |
| 4009 | Shale grn brn red soft | | |
| 4014 | Limestone lt gray tan f-xln cool fos gd int fos & int-cool por f oos por GSFO gd odor spotted brn stain | | |
| 4019 | Shale gray brn red soft silty | | |
| 4044 | Limestone lt gray f-xln cool sli fos f-gd int-cool por GSFO(gassy) faint odors at dk brn stain | | |
| 4094 | Shale brn gm gray sandy pyritic | | |
| 4137 | Limestone gray f-xln sli fos s li cool p-f fos cast por scat ooc por SSFO(gassy) faint odor spotted brn stain | | |
| 4138 | Shale grn gray silty sandy | | |
| 4139 | Shale brn red silty soft | | |
| 4144 | Limestone gray f-xln fos f-gd fos-cast por scat ooc por FSFO(gassy) s li odor sat brn stain | | |
| 4147 | Shale brn gm gray soft | | |
| 4149 | Limestone tan f-xln fos f-gd fos-cast por FSFO(gassy) faint odor sat lt brn stain | | |
| 4198 | Limestone crm f-xln sli fos chaly | | |
| 4301 | Shale dk gray fis | | |
| 4302 | Shale gray brn soft sandy | | |
| 4386 | Limestone gray f-xln fos p-f fos-cast por SSFO faint odor spotted dark stain | | |
| 4388 | Shale dk gray fis | | |
| 4389 | Shale brn red grn gray silty soft | | |
| 4404 | Limestone crm gray f-xln sli fos chaly p fos-cast por VSSFO no odor spotted brn stain | | |
| 4437 | Shale black carb | | |
| 4438 | Shale lt gray brn gm silty soft | | |
| 4492 | Limestone lt gray f-xln cool sli fos p int-cool por VSSFO (waxy) no odor spotted dark brn stain | | |
| 4497 | Shale gray brn grn silty sandy soft | | |
| 4502 | Limestone lt gray tan f-xln sli fos s li chaly dense | | |
| 4503 | Shale gray dk gray gm brn silty soft | | |
| 4504 | Limestone crm lt gray f-xln sli fos s li chaly dense | | |
| 4505 | Shale brn red maroon gray gm s oft silty sli sandy | | |
| 4506 | Limestone lt gray f-xln grainy dense | | |
| 4507 | Shale brn red silty soft | | |
| 4508 | Limestone tan f-xln fos s li grainy dense | | |
| 4509 | Shale maroon brn gray soft silty | | |
| 4510 | Shale brn red maroon soft silty | | |
| 4511 | Limestone crm tan f-xln fos sli cool s li chaly dense | | |
| 4512 | Limestone tan f-xln sli fos dense | | |
| 4513 | Shale black carb | | |
| 4514 | Shale brn gm fs | | |
| 4515 | Limestone tan crm f-xln sli fos sli cool s cat int-cool por NS | | |
| 4516 | Limestone tan m-xln sli sandy p int-xln por VSSFO(waxy) no odor spotted lt brn stain | | |
| 4517 | Shale black blocky carb | | |
| 4518 | Shale lt gray silty sandy soft | | |
| 4519 | Limestone crm tan f-xln fos sli chaly no vis por | | |
| 4520 | Shale dk gray blocky | | |
| 4521 | Limestone gray f-xln dense | | |
| 4522 | Shale gray gm sandy | | |
| 4523 | Sandstone gray f grain p sorted friable no vis por NS | | |
| 4524 | Limestone crm f-xln sli fos s li chaly dense | | |
| 4525 | Shale gray gm brn fis sandy | | |
| 4526 | Sandstone red md grain well friable p vis por NS | | |
| 4527 | Shale gray grn brn maroon yel sandy fs | | |
| 4528 | Sandstone red lg ind grains shaly | | |
| 4529 | Shale brn gray grn sandy pyritic | | |
| 4530 | Chert tan devit s li fos fresh | | |
| 4531 | Chert yel white fresh s li fos | | |
| 4532 | Limestone tan md-xln sli fos s li glauc | | |
| 4533 | Chert crm fresh w/ Limestone crm md xln dense | | |
| 4534 | Limestone crm f-xln sli fos chaly | | |
| 4535 | Dolomite lt gray f-md xln p int-xln por scat vuggy por NS | | |

HEEBNER SHALE 3921 -982
 DST #2 3960-4004
 15-60-15-60
 BOB 1 7/8" BOB 2"
 Rec
 20' OMCW 5% oil
 248' OMCW 2% oil
 1419' OMCW 2% oil
 FP 175-508# 546-757#
 SIP 1296-1283#

LANISING LIME 3970 -1031
 DST #3 4004-4044
 15-60-15-60
 BOB 2 7/8" BOB 1 1/2"
 Rec
 973' GIP
 30' G MCO 55% oil
 189' G W MCO 55% oil
 630' G W MCO 65% oil
 235' G W MCO 35% oil
 FP 137-322# 325-459#
 SIP 1245-1234#

TOPEKA LIME 3758 -819
 DST #4 4049-4044
 30-60-30-60
 1" blow/ no blow
 Rec
 5' Mud w/ oil spots
 FP 16-23# 25-36#
 SIP 1244-1186#

STARK SHALE 4137 -1198
 DST #5 4067-4176
 30-60-60-90
 BOB 6 1/2" BOB 6"
 Rec
 1260' GIP
 126' G Oil 30% oil
 306' G Oil 50% oil
 118' G OCM 10% oil
 FP 26-111# 131-213#
 SIP 1288-1295#

B/ KANSAS CITY 4188 -1249
 DST #6 4188-4188
 15-60-15-60
 BOB 2 7/8" BOB 1 1/2"
 Rec
 973' GIP
 30' G MCO 55% oil
 189' G W MCO 55% oil
 630' G W MCO 65% oil
 235' G W MCO 35% oil
 FP 137-322# 325-459#
 SIP 1245-1234#

PAWNEE LIME 4301 -1447
 DST #7 4301-4301
 15-60-15-60
 BOB 2 7/8" BOB 1 1/2"
 Rec
 973' GIP
 30' G MCO 55% oil
 189' G W MCO 55% oil
 630' G W MCO 65% oil
 235' G W MCO 35% oil
 FP 137-322# 325-459#
 SIP 1245-1234#

CHEROKEE SHALE 4386 -1447
 DST #8 4386-4386
 15-60-15-60
 BOB 2 7/8" BOB 1 1/2"
 Rec
 973' GIP
 30' G MCO 55% oil
 189' G W MCO 55% oil
 630' G W MCO 65% oil
 235' G W MCO 35% oil
 FP 137-322# 325-459#
 SIP 1245-1234#

MISSISSIPPIAN 4502 -1563
 DST #9 4502-4502
 15-60-15-60
 BOB 2 7/8" BOB 1 1/2"
 Rec
 973' GIP
 30' G MCO 55% oil
 189' G W MCO 55% oil
 630' G W MCO 65% oil
 235' G W MCO 35% oil
 FP 137-322# 325-459#
 SIP 1245-1234#

RTD 4598 -1659

Operator: MURFIN DRILLING CO INC.
 Lease: ALEX #1-23
 Location: 660' FSL 900'FWL SEC. 23 TWSP 4S RGE 31W
 County: RAWLINS State: KANSAS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Steve Miller

Alex #1-23

23-4s-31w Rawlins,KS

Start Date: 2013.07.07 @ 18:03:00

End Date: 2013.07.08 @ 01:37:00

Job Ticket #: 53456 DST #: 1

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

Printed: 2013.07.16 @ 08:05:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Steve Miller

23-4s-31w Rawlins, KS

Alex #1-23

Job Ticket: 53456

DST#: 1

Test Start: 2013.07.07 @ 18:03:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:00:40

Time Test Ended: 01:37:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 66

Interval: 3916.00 ft (KB) To 3960.00 ft (KB) (TVD)

Reference Elevations: 2939.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2928.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 167.02 psig @ 3917.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.07

End Date:

2013.07.08

Last Calib.:

2013.07.08

Start Time: 18:04:00

End Time:

01:37:00

Time On Btm:

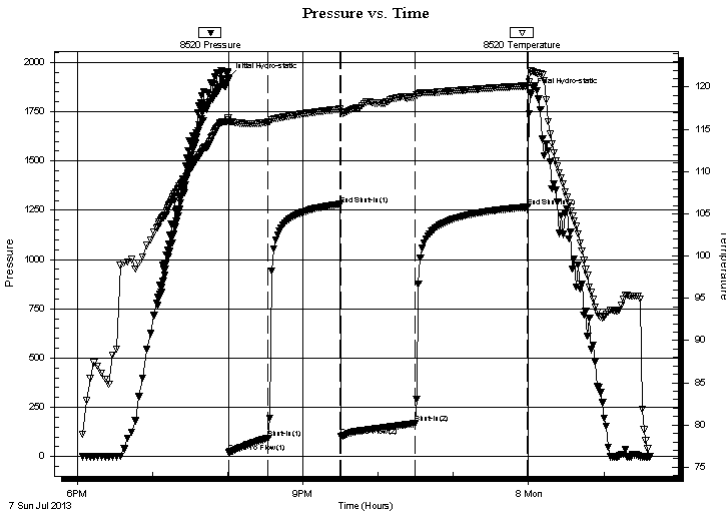
2013.07.07 @ 20:00:20

Time Off Btm:

2013.07.08 @ 00:01:00

TEST COMMENT: 30 IF - Surface blow built to 6 1/2"
 60 ISI - No return
 60 FF - Surface blow started @ 7 mins built to 8"
 90 FSI - No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1921.80 | 116.35 | Initial Hydro-static |
| 1 | 19.98 | 115.89 | Open To Flow (1) |
| 32 | 94.46 | 115.83 | Shut-In(1) |
| 89 | 1279.87 | 117.38 | End Shut-In(1) |
| 91 | 101.88 | 117.05 | Open To Flow (2) |
| 149 | 167.02 | 118.90 | Shut-In(2) |
| 239 | 1266.05 | 120.14 | End Shut-In(2) |
| 241 | 1848.67 | 121.97 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 317.00 | MCW - 20%M - 80%W | 2.31 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53456

DST#: 1

ATTN: Steve Miller

Test Start: 2013.07.07 @ 18:03:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3684.00 ft | Diameter: 3.80 inches | Volume: 51.68 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: 235.00 ft | Diameter: 2.25 inches | Volume: 1.16 bbl | Weight to Pull Loose: | 65000.00 lb |
| | | | <u>Total Volume: 52.84 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 31.00 ft | | | String Weight: Initial | 54000.00 lb |
| Depth to Top Packer: | 3916.00 ft | | | Final | 58000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 44.00 ft | | | | |
| Tool Length: | 72.00 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 | | | 3889.00 | |
| Shut In Tool | 5.00 | | | 3894.00 | |
| Hydraulic tool | 5.00 | | | 3899.00 | |
| Jars | 5.00 | | | 3904.00 | |
| Safety Joint | 3.00 | | | 3907.00 | |
| Packer | 5.00 | | | 3912.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3916.00 | |
| Stubb | 1.00 | | | 3917.00 | |
| Recorder | 0.00 | 8354 | Inside | 3917.00 | |
| Recorder | 0.00 | 8520 | Outside | 3917.00 | |
| Perforations | 4.00 | | | 3921.00 | |
| Change Over Sub | 1.00 | | | 3922.00 | |
| Drill Pipe | 32.00 | | | 3954.00 | |
| Change Over Sub | 1.00 | | | 3955.00 | |
| Bullnose | 5.00 | | | 3960.00 | 44.00 Bottom Packers & Anchor |

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53456

DST#: 1

ATTN: Steve Miller

Test Start: 2013.07.07 @ 18:03:00

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:

80000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 317.00 | MCW - 20%M - 80%W | 2.306 |

Total Length: 317.00 ft Total Volume: 2.306 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

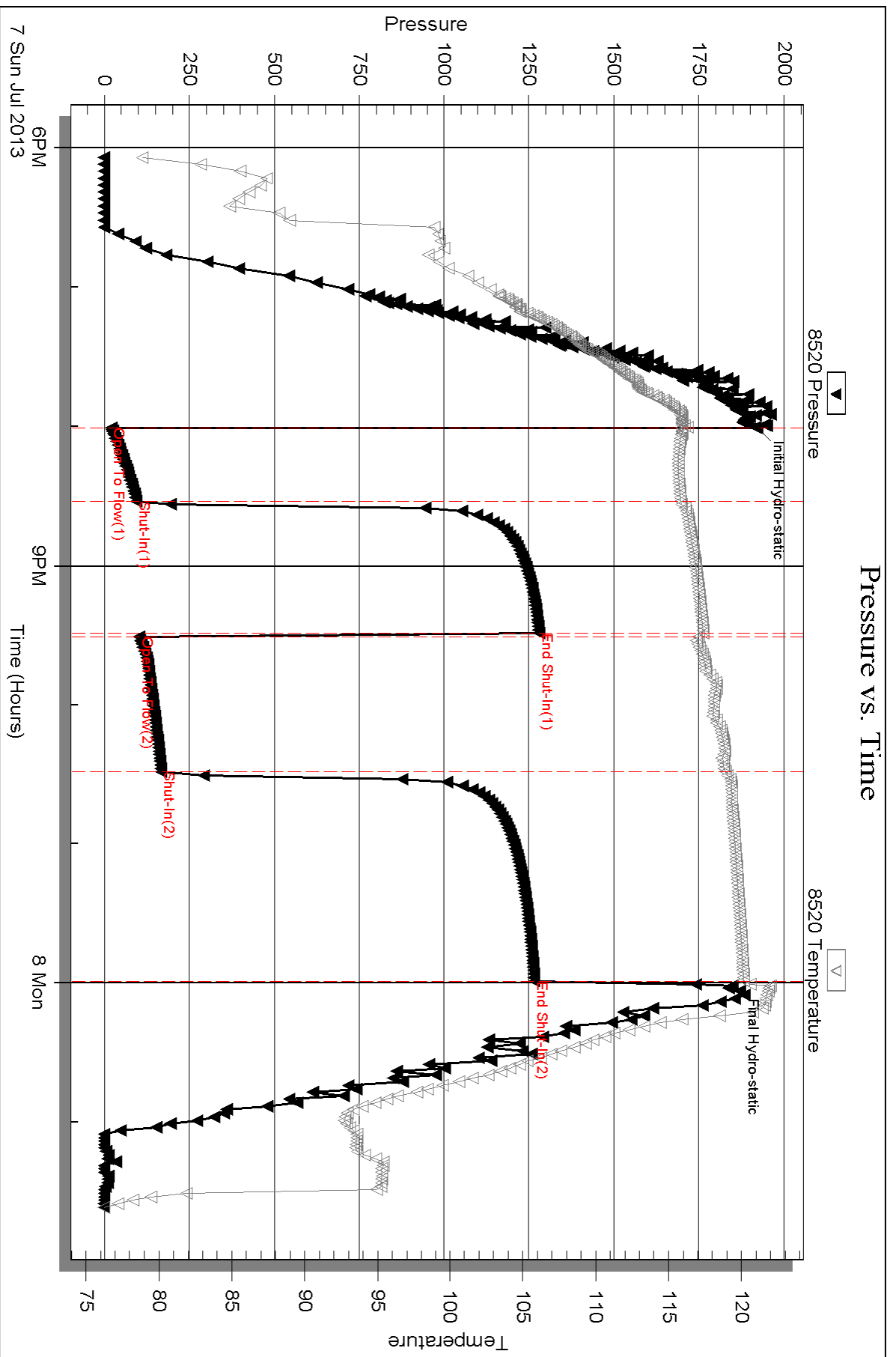
Recovery Comments: RW= .09 @ 77 DEG F

Serial #: 8520

Outside Murfin Drilling Co.

Alex #1-23

DST Test Number: 1



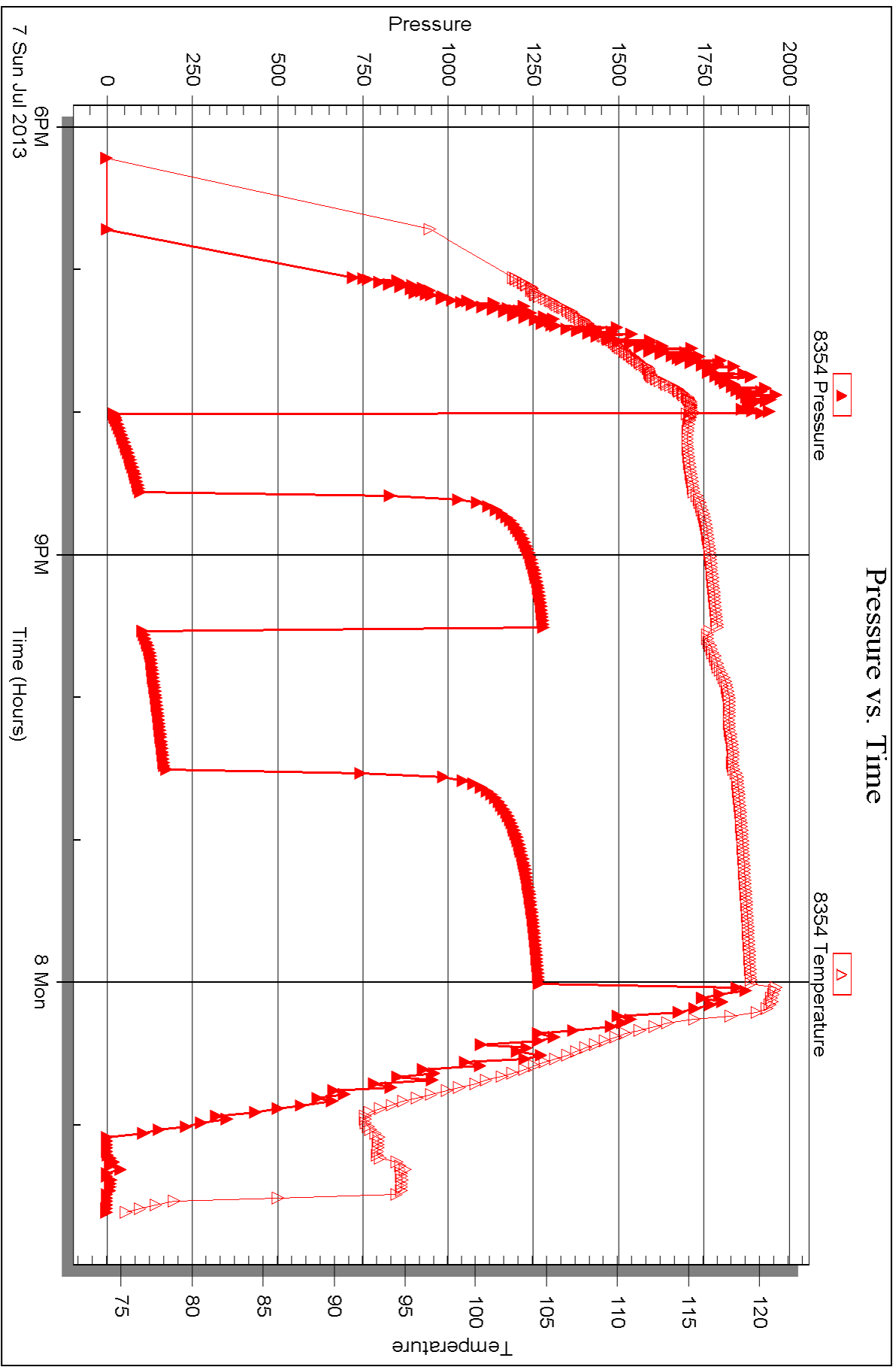
Serial #: 8354

Inside

Murfin Drilling Co.

Alex #1-23

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Steve Miller

Alex #1-23

23-4s-31w Rawlins,KS

Start Date: 2013.07.08 @ 10:43:00

End Date: 2013.07.08 @ 18:28:30

Job Ticket #: 53457 DST #: 2

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

Printed: 2013.07.16 @ 08:04:59

Murfin Drilling Co. 23-4s-31w Rawlins,KS Alex #1-23 DST # 2 LKC " A - B " 2013.07.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Steve Miller

23-4s-31w Rawlins, KS

Alex #1-23

Job Ticket: 53457

DST#: 2

Test Start: 2013.07.08 @ 10:43:00

GENERAL INFORMATION:

Formation: **LKC " A - B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:00

Time Test Ended: 18:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 66

Interval: 3960.00 ft (KB) To 4004.00 ft (KB) (TVD)

Total Depth: 4004.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2939.00 ft (KB)

2928.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8520

Outside

Press @ Run Depth: 757.24 psig @ 3961.00 ft (KB)

Start Date: 2013.07.08

End Date:

2013.07.08

Start Time: 10:44:00

End Time:

18:28:30

Capacity: 8000.00 psig

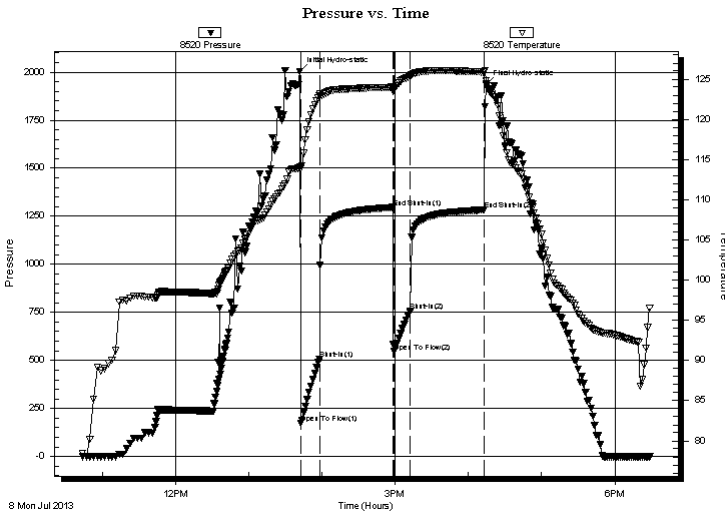
Last Calib.: 2013.07.08

Time On Btm: 2013.07.08 @ 13:42:00

Time Off Btm: 2013.07.08 @ 16:14:30

TEST COMMENT: 15 IF - Bob in 1 min
60 ISI - Surface blow @ 2 mins
15 FF - Bob in 2 mins
60 FSI - Surface blow @ 8 mins

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2001.60 | 114.05 | Initial Hydro-static |
| 1 | 175.09 | 113.84 | Open To Flow (1) |
| 16 | 508.39 | 122.90 | Shut-In(1) |
| 76 | 1296.18 | 123.99 | End Shut-In(1) |
| 77 | 545.73 | 123.78 | Open To Flow (2) |
| 91 | 757.24 | 125.38 | Shut-In(2) |
| 151 | 1283.39 | 125.86 | End Shut-In(2) |
| 153 | 1936.66 | 124.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 1419.00 | OMCW - 2%o - 95%M - 3%W | 17.76 |
| 248.00 | OMCW - 2%o - 30%M - 68%W | 3.48 |
| 20.00 | OMCW - 5%o - 30%M - 65%W | 0.28 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53457

DST#: 2

ATTN: Steve Miller

Test Start: 2013.07.08 @ 10:43:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3717.00 ft | Diameter: 3.80 inches | Volume: 52.14 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: 235.00 ft | Diameter: 2.25 inches | Volume: 1.16 bbl | Weight to Pull Loose: | 70000.00 lb |
| | | | <u>Total Volume: 53.30 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial | 56000.00 lb |
| Depth to Top Packer: | 3960.00 ft | | | Final | 61000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 44.00 ft | | | | |
| Tool Length: | 72.00 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 | | | 3933.00 | |
| Shut In Tool | 5.00 | | | 3938.00 | |
| Hydraulic tool | 5.00 | | | 3943.00 | |
| Jars | 5.00 | | | 3948.00 | |
| Safety Joint | 3.00 | | | 3951.00 | |
| Packer | 5.00 | | | 3956.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3960.00 | |
| Stubb | 1.00 | | | 3961.00 | |
| Recorder | 0.00 | 8354 | Inside | 3961.00 | |
| Recorder | 0.00 | 8520 | Outside | 3961.00 | |
| Perforations | 4.00 | | | 3965.00 | |
| Change Over Sub | 1.00 | | | 3966.00 | |
| Drill Pipe | 32.00 | | | 3998.00 | |
| Change Over Sub | 1.00 | | | 3999.00 | |
| Bullnose | 5.00 | | | 4004.00 | 44.00 Bottom Packers & Anchor |

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53457

DST#: 2

ATTN: Steve Miller

Test Start: 2013.07.08 @ 10:43:00

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:

80000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|--------------------------|----------------|
| 1419.00 | OMCW - 2%o - 95%M - 3%W | 17.764 |
| 248.00 | OMCW - 2%o - 30%M - 68%W | 3.479 |
| 20.00 | OMCW - 5%o - 30%M - 65%W | 0.281 |

Total Length: 1687.00 ft Total Volume: 21.524 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .065 @ 109 DEG F

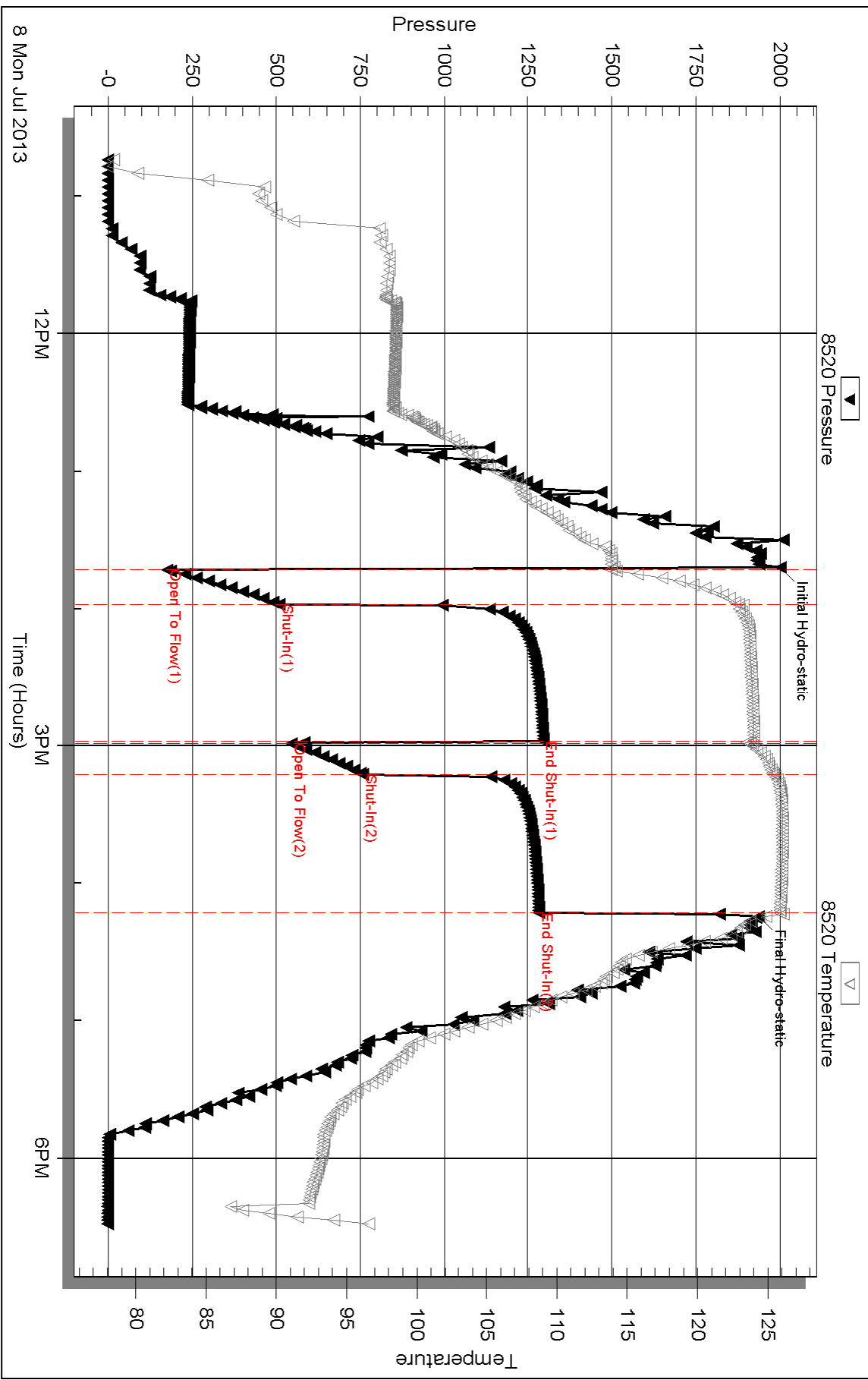
Serial #: 8520

Outside Murfin Drilling Co.

Alex #1-23

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53457

Printed: 2013.07.16 @ 08:05:02

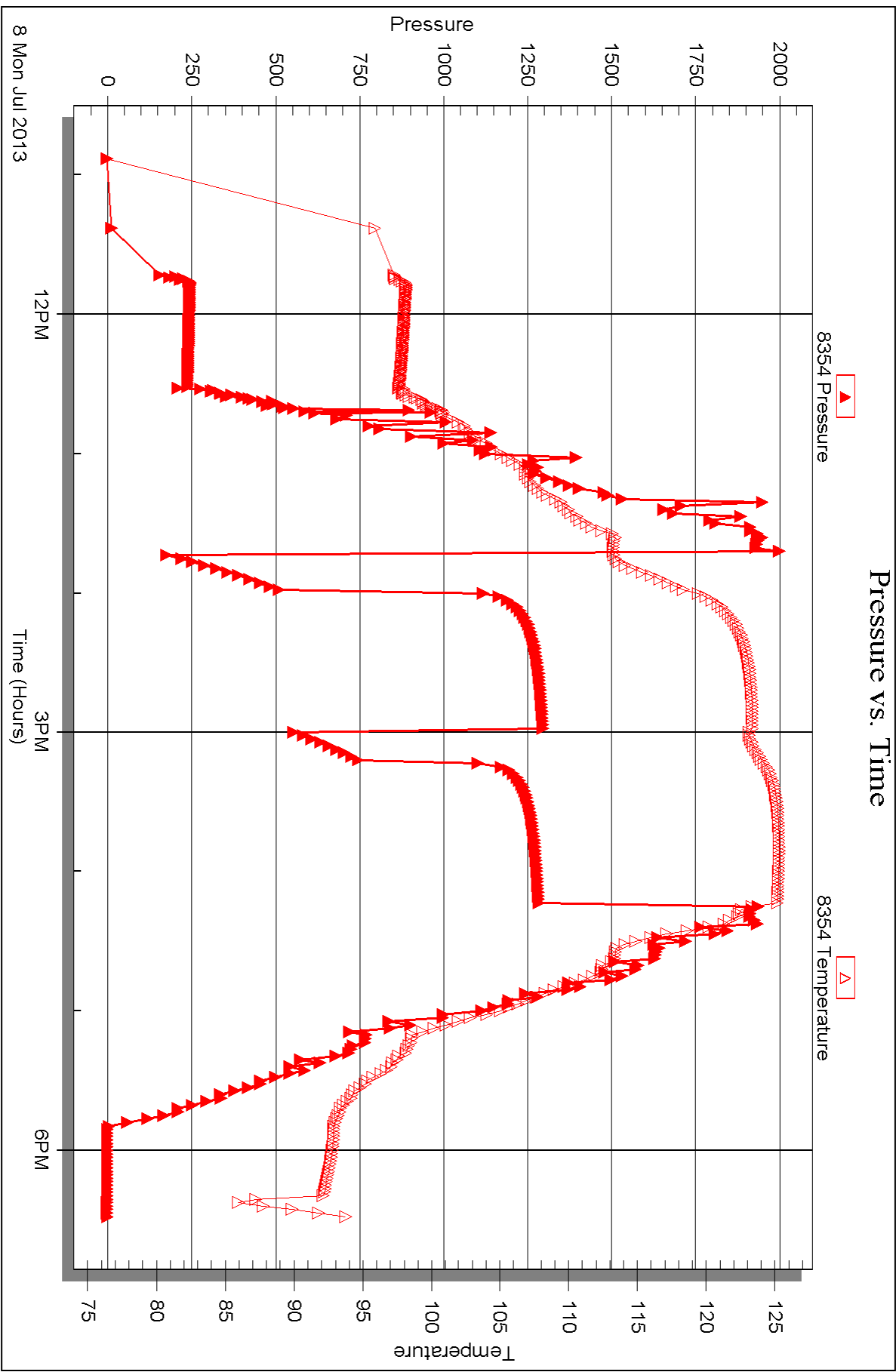
Serial #: 8354

Inside

Murfin Drilling Co.

Alex #1-23

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Steve Miller

Alex #1-23

23-4s-31w Rawlins,KS

Start Date: 2013.07.09 @ 02:11:00

End Date: 2013.07.09 @ 08:59:30

Job Ticket #: 53458 DST #: 3

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

Printed: 2013.07.16 @ 08:04:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Steve Miller

23-4s-31w Rawlins, KS

Alex #1-23

Job Ticket: 53458

DST#: 3

Test Start: 2013.07.09 @ 02:11:00

GENERAL INFORMATION:

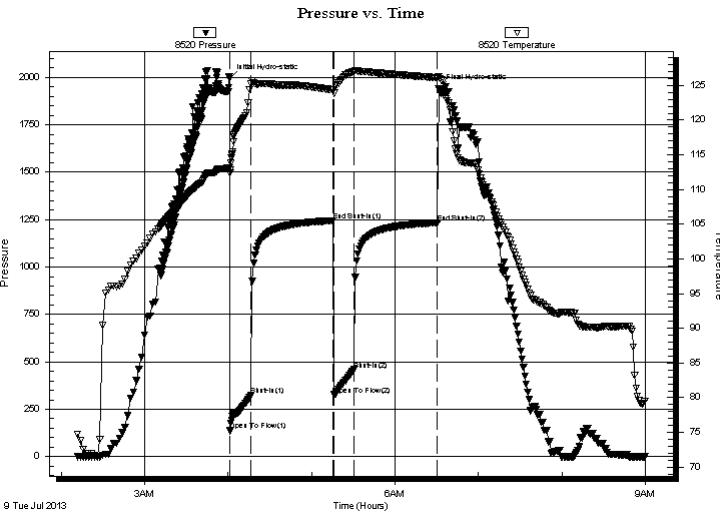
Formation: **LKC " D & F "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:01:30
 Time Test Ended: 08:59:30
 Interval: **4004.00 ft (KB) To 4044.00 ft (KB) (TVD)**
 Total Depth: 4044.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 66
 Reference Elevations: 2939.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8520

Outside

Press @ Run Depth: 458.50 psig @ 4005.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.09 End Date: 2013.07.09 Last Calib.: 2013.07.09
 Start Time: 02:12:00 End Time: 08:59:30 Time On Btm: 2013.07.09 @ 04:01:10
 Time Off Btm: 2013.07.09 @ 06:31:30

TEST COMMENT: 15 IF - Bob in 2 mins
 60 ISI - Surface blow built to 6 1/2"
 15 FF - Bob in 1 1/2" mins
 60 FSI - Surface blow built to Bob in 8 mins



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1993.68 | 113.12 | Initial Hydro-static |
| 1 | 137.06 | 112.45 | Open To Flow (1) |
| 16 | 321.80 | 125.19 | Shut-In(1) |
| 75 | 1244.59 | 124.33 | End Shut-In(1) |
| 76 | 325.47 | 123.88 | Open To Flow (2) |
| 90 | 458.50 | 127.02 | Shut-In(2) |
| 150 | 1234.08 | 126.12 | End Shut-In(2) |
| 151 | 1939.02 | 126.30 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 235.00 | GMWCO - 30%G - 15%M - 20%W - 35%o | 1.16 |
| 630.00 | GMWCO - 10%G - 5%M - 20%W - 65%o | 8.84 |
| 189.00 | GMWCO - 10%G - 10%M - 25%W - 55%o | 2.65 |
| 30.00 | MCO - 45%M - 55%o | 0.42 |
| 0.00 | 974' GIP | 0.00 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53458

DST#: 3

ATTN: Steve Miller

Test Start: 2013.07.09 @ 02:11:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3748.00 ft | Diameter: 3.80 inches | Volume: 52.57 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: 235.00 ft | Diameter: 2.25 inches | Volume: 1.16 bbl | Weight to Pull Loose: | 70000.00 lb |
| | | | <u>Total Volume: 53.73 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial | 56000.00 lb |
| Depth to Top Packer: | 4004.00 ft | | | Final | 60000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 40.00 ft | | | | |
| Tool Length: | 68.00 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 | | | 3977.00 | |
| Shut In Tool | 5.00 | | | 3982.00 | |
| Hydraulic tool | 5.00 | | | 3987.00 | |
| Jars | 5.00 | | | 3992.00 | |
| Safety Joint | 3.00 | | | 3995.00 | |
| Packer | 5.00 | | | 4000.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4004.00 | |
| Stubb | 1.00 | | | 4005.00 | |
| Recorder | 0.00 | 8354 | Inside | 4005.00 | |
| Recorder | 0.00 | 8520 | Outside | 4005.00 | |
| Perforations | 34.00 | | | 4039.00 | |
| Bullnose | 5.00 | | | 4044.00 | 40.00 Bottom Packers & Anchor |

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53458

DST#: 3

ATTN: Steve Miller

Test Start: 2013.07.09 @ 02:11:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-----------------------------------|----------------|
| 235.00 | GMWCO - 30%G - 15%M - 20%W - 35%o | 1.156 |
| 630.00 | GMWCO - 10%G - 5%M - 20%W - 65%o | 8.837 |
| 189.00 | GMWCO - 10%G - 10%M - 25%W - 55%o | 2.651 |
| 30.00 | MCO - 45%M - 55%o | 0.421 |
| 0.00 | 974' GIP | 0.000 |

Total Length: 1084.00 ft Total Volume: 13.065 bbl

Num Fluid Samples: 0

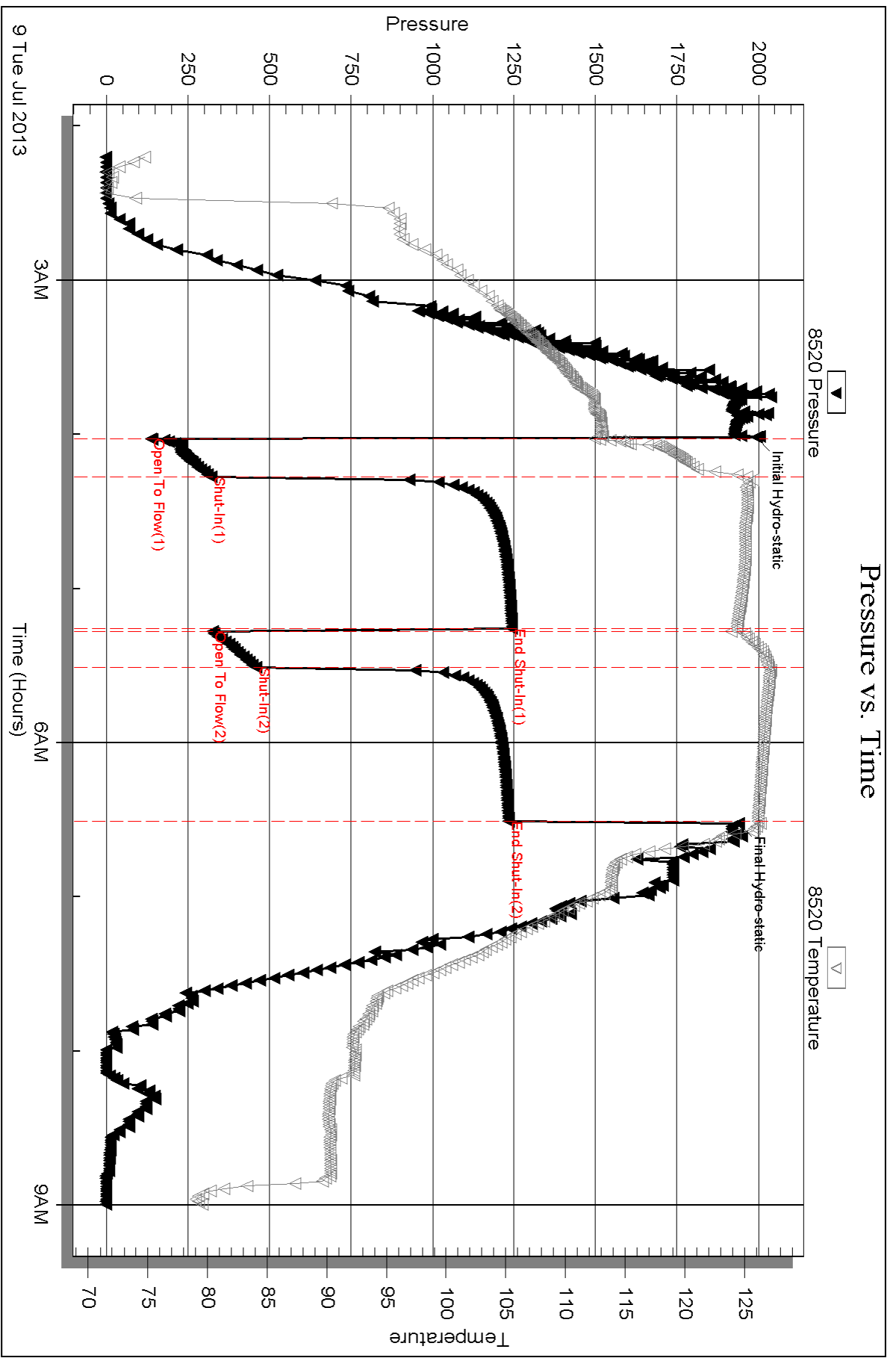
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



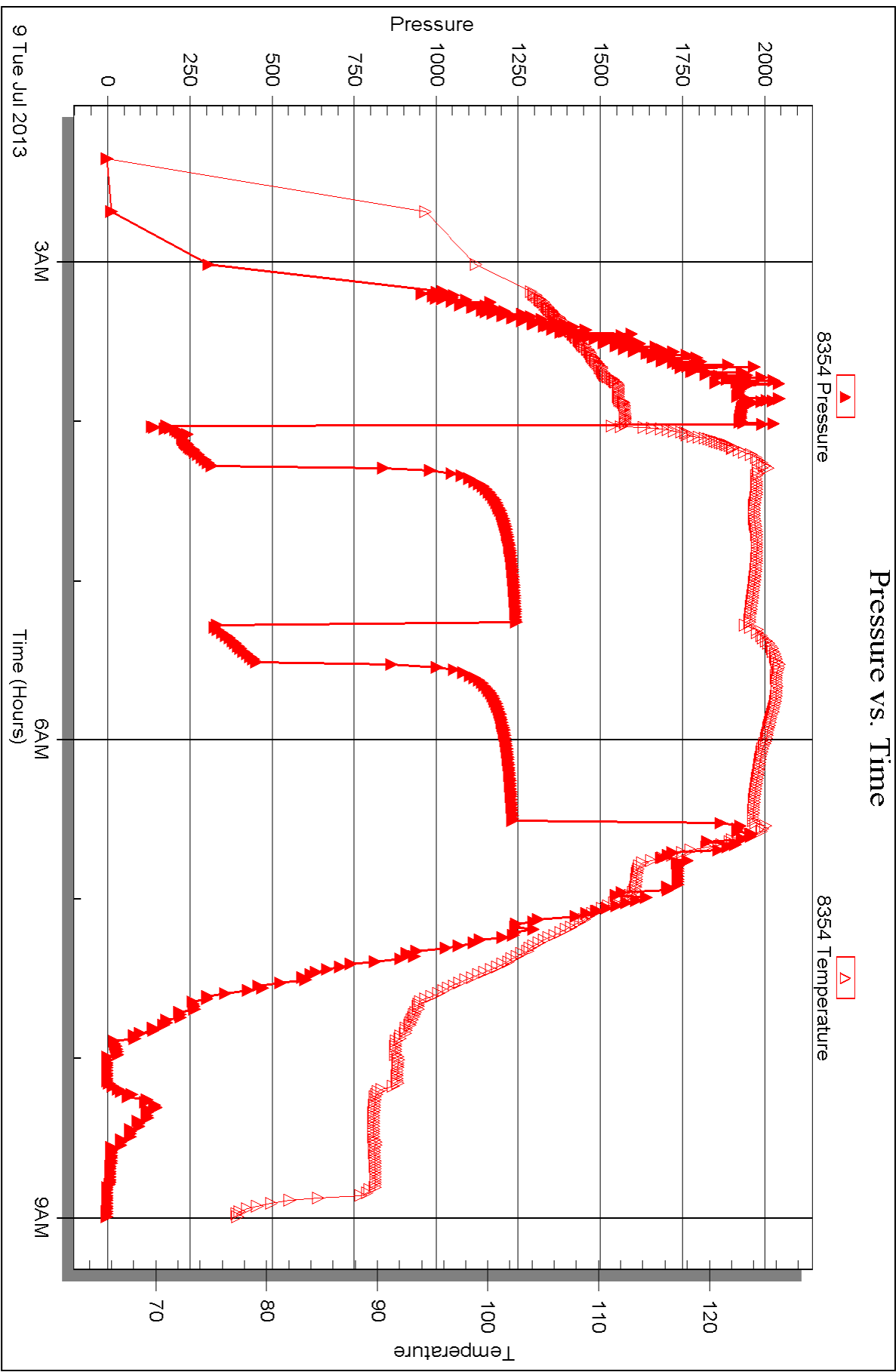
Serial #: 8354

Inside

Murfin Drilling Co.

Alex #1-23

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Steve Miller

Alex #1-23

23-4s-31w Rawlins,KS

Start Date: 2013.07.09 @ 14:51:00

End Date: 2013.07.09 @ 21:05:30

Job Ticket #: 53459 DST #: 4

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

Printed: 2013.07.16 @ 08:03:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Steve Miller

23-4s-31w Rawlins, KS
Alex #1-23
 Job Ticket: 53459 **DST#: 4**
 Test Start: 2013.07.09 @ 14:51:00

GENERAL INFORMATION:

Formation: **LKC " G "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:34:40
 Time Test Ended: 21:05:30
 Interval: **4049.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 66
 Reference Elevations: 2939.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 11.00 ft

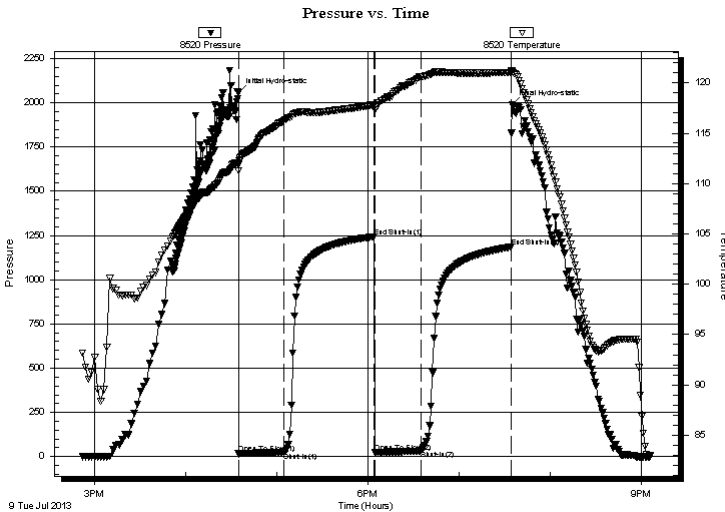
Serial #: 8520

Outside

Press @ Run Depth: 35.64 psig @ 4050.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.09 End Date: 2013.07.09 Last Calib.: 2013.07.09
 Start Time: 14:52:00 End Time: 21:05:30 Time On Btm: 2013.07.09 @ 16:34:30
 Time Off Btm: 2013.07.09 @ 19:35:00

TEST COMMENT: 30 IF - Surface blow built to 1"
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2059.08 | 111.99 | Initial Hydro-static |
| 1 | 16.44 | 111.27 | Open To Flow (1) |
| 30 | 23.23 | 116.24 | Shut-In(1) |
| 90 | 1243.94 | 117.83 | End Shut-In(1) |
| 90 | 24.56 | 117.27 | Open To Flow (2) |
| 121 | 35.64 | 120.59 | Shut-In(2) |
| 180 | 1184.93 | 121.04 | End Shut-In(2) |
| 181 | 1989.11 | 121.11 | Final Hydro-static |

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53459

DST#: 4

ATTN: Steve Miller

Test Start: 2013.07.09 @ 14:51:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3806.00 ft | Diameter: 3.80 inches | Volume: 53.39 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: 235.00 ft | Diameter: 2.25 inches | Volume: 1.16 bbl | Weight to Pull Loose: | 70000.00 lb |
| | | | <u>Total Volume: 54.55 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial | 56000.00 lb |
| Depth to Top Packer: | 4049.00 ft | | | Final | 56000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 11.00 ft | | | | |
| Tool Length: | 39.00 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 | | | 4022.00 | |
| Shut In Tool | 5.00 | | | 4027.00 | |
| Hydraulic tool | 5.00 | | | 4032.00 | |
| Jars | 5.00 | | | 4037.00 | |
| Safety Joint | 3.00 | | | 4040.00 | |
| Packer | 5.00 | | | 4045.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4049.00 | |
| Stubb | 1.00 | | | 4050.00 | |
| Recorder | 0.00 | 8354 | Inside | 4050.00 | |
| Recorder | 0.00 | 8520 | Outside | 4050.00 | |
| Perforations | 5.00 | | | 4055.00 | |
| Bullnose | 5.00 | | | 4060.00 | 11.00 Bottom Packers & Anchor |

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53459

DST#: 4

ATTN: Steve Miller

Test Start: 2013.07.09 @ 14:51:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 5.00 | Mud w /oil spots - 100%M | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

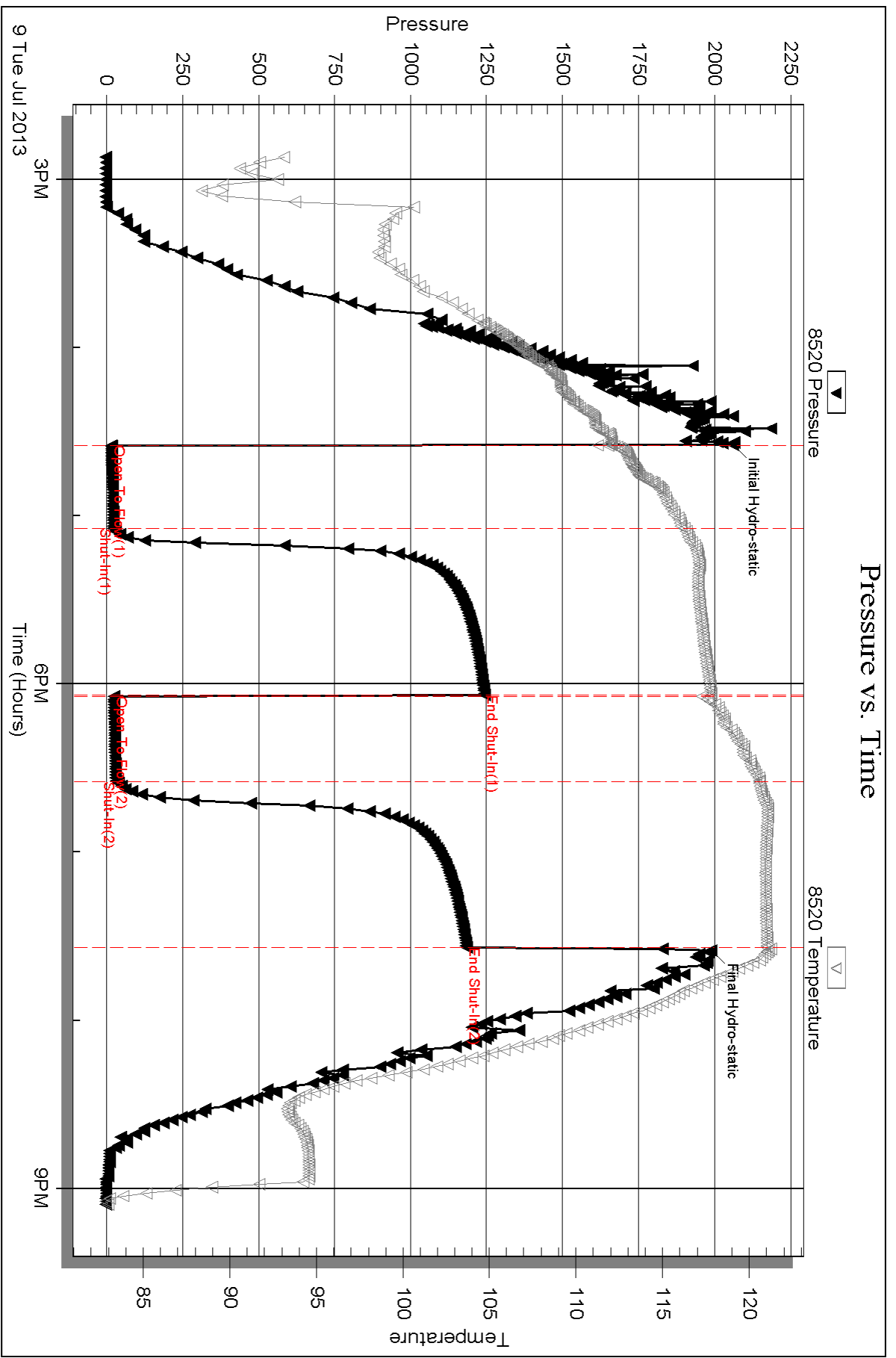
Recovery Comments:

Serial #: 8520

Outside Murfin Drilling Co.

Alex #1-23

DST Test Number: 4



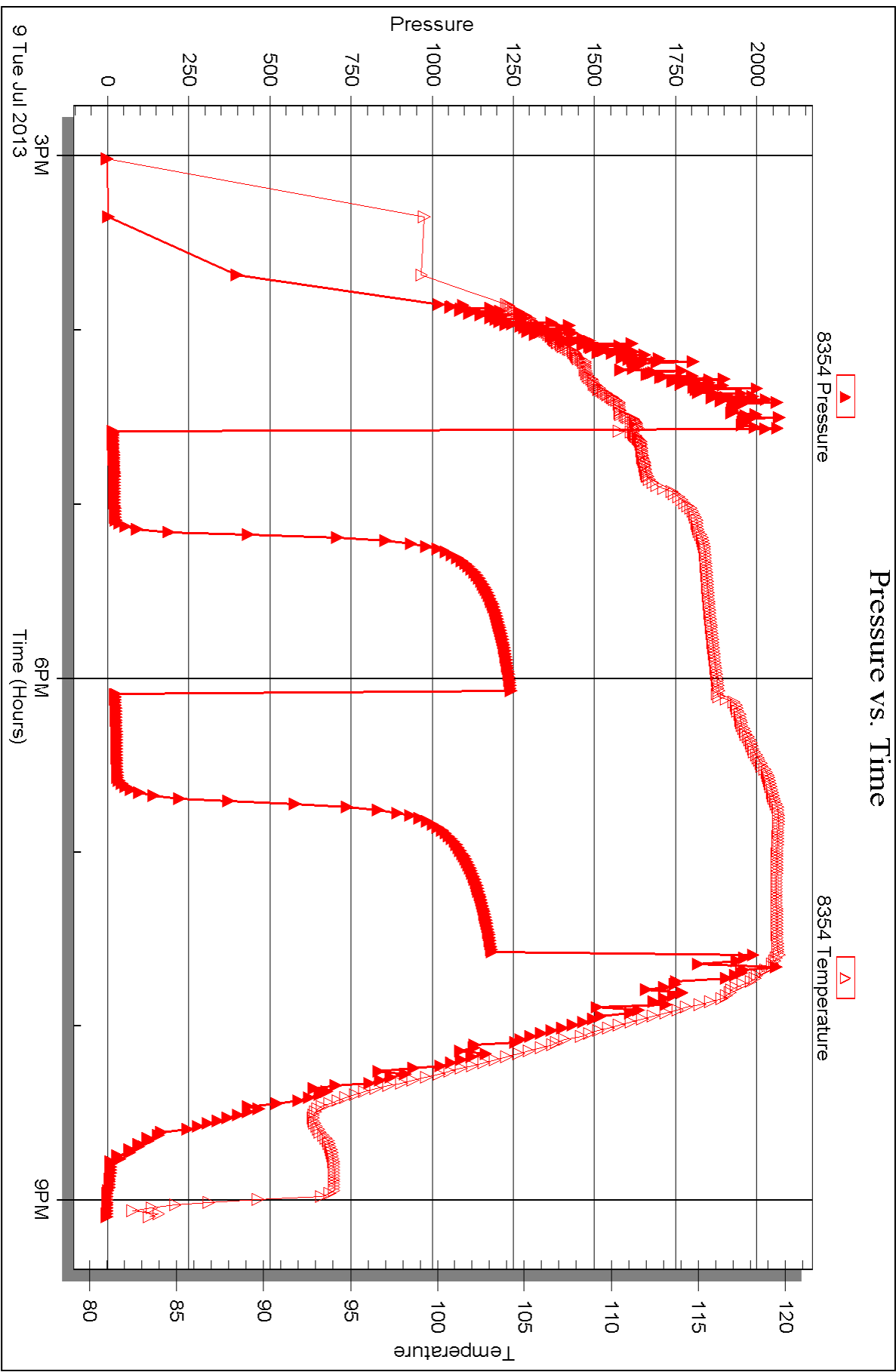
Serial #: 8354

Inside

Murfin Drilling Co.

Alex #1-23

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Steve Miller

Alex #1-23

23-4s-31w Rawlins,KS

Start Date: 2013.07.10 @ 10:24:00

End Date: 2013.07.10 @ 18:54:00

Job Ticket #: 53460 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.16 @ 08:02:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Steve Miller

23-4s-31w Rawlins, KS
Alex #1-23
Job Ticket: 53460 **DST#: 5**
Test Start: 2013.07.10 @ 10:24:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 12:39:30 Tester: Ryan Nichols
Time Test Ended: 18:54:00 Unit No: 66
Interval: 4067.00 ft (KB) To 4176.00 ft (KB) (TVD) Reference Elevations: 2939.00 ft (KB)
Total Depth: 4176.00 ft (KB) (TVD) 2928.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

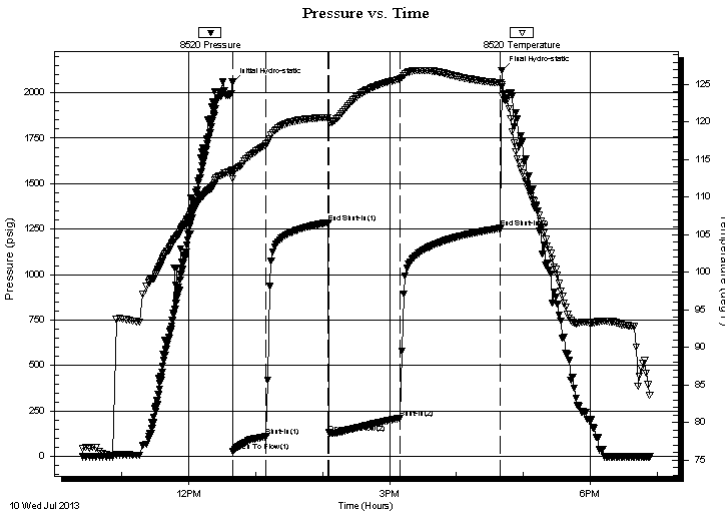
Serial #: 8520

Outside

Press @ Run Depth: 212.60 psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.10 End Date: 2013.07.10 Last Calib.: 2013.07.10
Start Time: 10:25:00 End Time: 18:54:00 Time On Btm: 2013.07.10 @ 12:39:00
Time Off Btm: 2013.07.10 @ 16:40:30

TEST COMMENT: 30 IF - BOB @ 6 1/2 mins
60 ISI - Surface blow built to Bob @ 20 mins
60 FF - BOB @ 6 mins
90 FSI - Surface blow built to Bob @ 13 mins

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2058.24 | 113.57 | Initial Hydro-static |
| 1 | 26.29 | 112.42 | Open To Flow (1) |
| 31 | 110.95 | 117.04 | Shut-In(1) |
| 86 | 1286.76 | 120.63 | End Shut-In(1) |
| 87 | 131.29 | 120.15 | Open To Flow (2) |
| 151 | 212.60 | 125.72 | Shut-In(2) |
| 241 | 1255.13 | 125.19 | End Shut-In(2) |
| 242 | 2122.86 | 125.00 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 118.00 | GOCM - 50%G - 10%o - 40%M | 0.58 |
| 306.00 | GO - 50%G - 50%o | 3.23 |
| 126.00 | GO - 70%G - 30%o | 1.77 |
| 0.00 | 1260' GIP | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Steve Miller

23-4s-31w Rawlins, KS
Alex #1-23
 Job Ticket: 53460 **DST#: 5**
 Test Start: 2013.07.10 @ 10:24:00

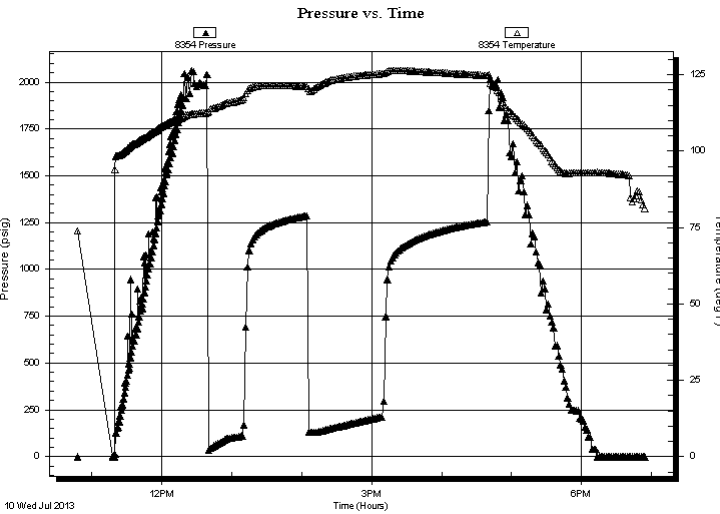
GENERAL INFORMATION:

Formation: **LKC "H-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:39:30
 Time Test Ended: 18:54:00
 Interval: **4067.00 ft (KB) To 4176.00 ft (KB) (TVD)**
 Total Depth: 4176.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 66
 Reference Elevations: 2939.00 ft (KB)
 2928.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8354 Inside

Press @ Run Depth: psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.10 End Date: 2013.07.10 Last Calib.: 2013.07.10
 Start Time: 10:48:00 End Time: 18:54:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - BOB @ 6 1/2 mins
 60 ISI - Surface blow built to Bob @ 20 mins
 60 FF - BOB @ 6 mins
 90 FSI - Surface blow built to Bob @ 13 mins



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 118.00 | GOCM - 50%G - 10%o - 40%M | 0.58 |
| 306.00 | GO - 50%G - 50%o | 3.23 |
| 126.00 | GO - 70%G - 30%o | 1.77 |
| 0.00 | 1260' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53460

DST#: 5

ATTN: Steve Miller

Test Start: 2013.07.10 @ 10:24:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3837.00 ft | Diameter: 3.80 inches | Volume: 53.82 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: 235.00 ft | Diameter: 2.25 inches | Volume: 1.16 bbl | Weight to Pull Loose: | 60000.00 lb |
| | | | <u>Total Volume: 54.98 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 33.00 ft | | | String Weight: Initial | 58000.00 lb |
| Depth to Top Packer: | 4067.00 ft | | | Final | 59000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 109.00 ft | | | | |
| Tool Length: | 137.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |
| Tool Comments: | | | | | |

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Change Over Sub | 1.00 | | | 4040.00 | |
| Shut In Tool | 5.00 | | | 4045.00 | |
| Hydraulic tool | 5.00 | | | 4050.00 | |
| Jars | 5.00 | | | 4055.00 | |
| Safety Joint | 3.00 | | | 4058.00 | |
| Packer | 5.00 | | | 4063.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4067.00 | |
| Stubb | 1.00 | | | 4068.00 | |
| Recorder | 0.00 | 8354 | Inside | 4068.00 | |
| Recorder | 0.00 | 8520 | Outside | 4068.00 | |
| Perforations | 6.00 | | | 4074.00 | |
| Change Over Sub | 1.00 | | | 4075.00 | |
| Drill Pipe | 95.00 | | | 4170.00 | |
| Change Over Sub | 1.00 | | | 4171.00 | |
| Bullnose | 5.00 | | | 4176.00 | 109.00 Bottom Packers & Anchor |

Total Tool Length: 137.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

23-4s-31w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Alex #1-23

Job Ticket: 53460

DST#: 5

ATTN: Steve Miller

Test Start: 2013.07.10 @ 10:24:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 67.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 1700.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 31.4 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 118.00 | GOCM - 50%G - 10%o - 40%M | 0.580 |
| 306.00 | GO - 50%G - 50%o | 3.227 |
| 126.00 | GO - 70%G - 30%o | 1.767 |
| 0.00 | 1260' GIP | 0.000 |

Total Length: 550.00 ft Total Volume: 5.574 bbl

Num Fluid Samples: 0

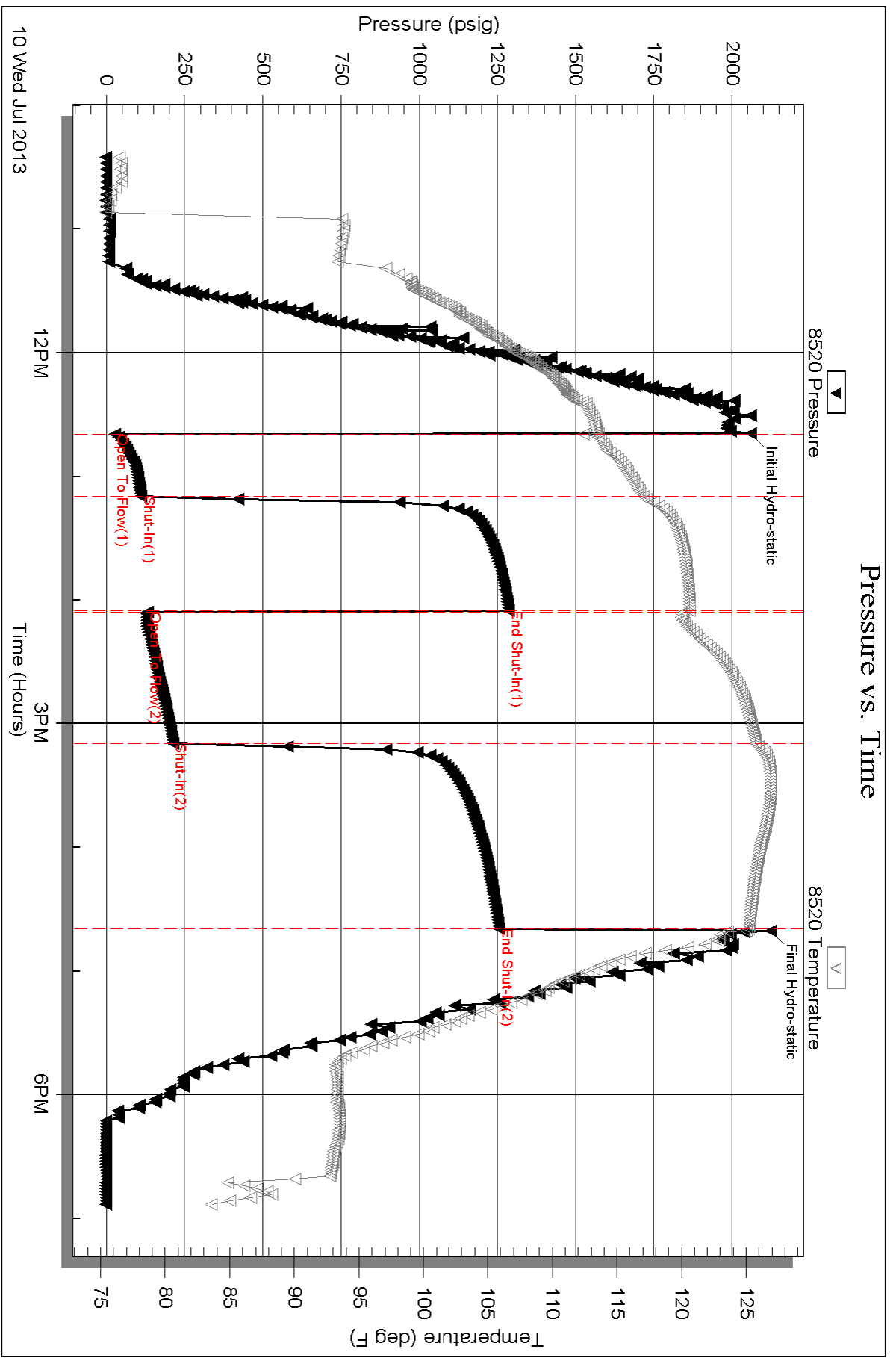
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 34 @ 86 DEG = 31.4 COR 60 DEG F



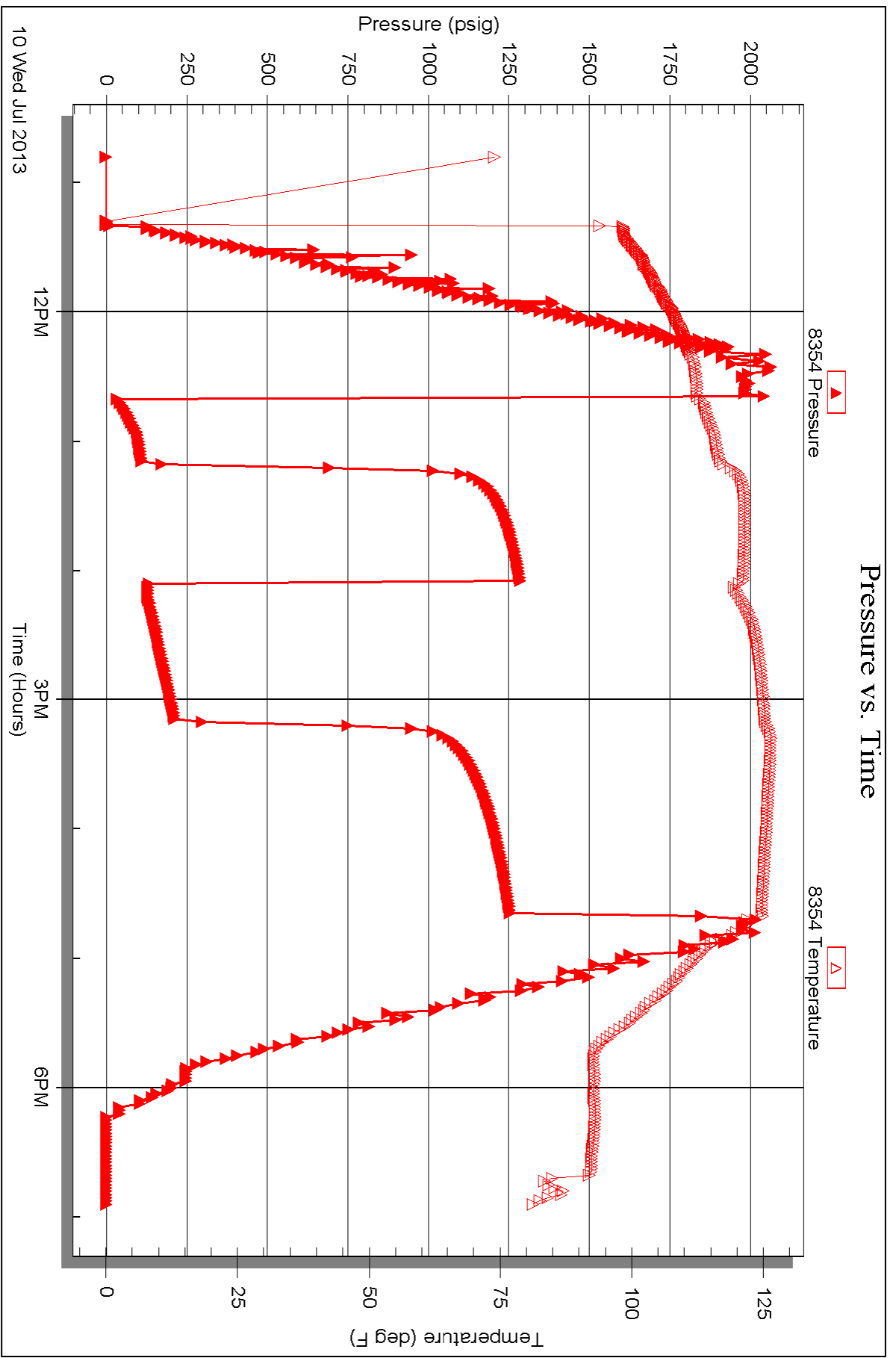
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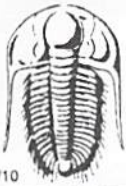
Inside

Murfin Drilling Co.

Alex #1-23

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **53456** 19505

4/10

Well Name & No. Alex # 1-23 Test No. 1 Date 7/7/13
 Company Murfin Drilling Co. Elevation 2939 KB 2928 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin # 2
 Location: Sec. 23 Twp. 45 Rge. 31 W Co. Rawlins State KS

Interval Tested 3916 - 3960 Zone Tested Toronto
 Anchor Length 44' Drill Pipe Run 3684' Mud Wt. 8.9
 Top Packer Depth 3911 Drill Collars Run 235' Vis 65
 Bottom Packer Depth 3916 Wt. Pipe Run 0' WL 5.6
 Total Depth 3960 Chlorides 1000 ppm System LCM 4

Blow Description IF - Surface blow built to 6 1/2"
ISI - No return
FF - Surface blow started @ 7 mins built to 8"
FSI - No return

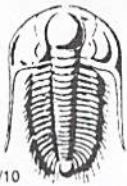
| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|------------|------|-----------|-----------|------|
| <u>317'</u> | <u>MCW</u> | | <u>80</u> | <u>20</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 317' BHT 120° Gravity — API RW .09 @ 77 °F Chlorides 80,000 ppm
 (A) Initial Hydrostatic 1922 Test 1,150 T-On Location 16:45
 (B) First Initial Flow 20 Jars 250 T-Started 18:03
 (C) First Final Flow 94 Safety Joint 75 T-Open 20:01
 (D) Initial Shut-In 1280 Circ Sub NC T-Pulled 00:01
 (E) Second Initial Flow 102 Hourly Standby _____ T-Out 01:37
 (F) Second Final Flow 167 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 1266 Sampler _____
 (H) Final Hydrostatic 1849 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility NC MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1,552.50

Approved By _____ Our Representative Ryan Miller

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. 53457

Well Name & No. Alex # 1-23 Test No. 2 Date 7/8/13
 Company Murfin Drilling Co. Elevation 2939 KB 2928 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin # 2
 Location: Sec. 23 Twp. 45 Rge. 31W Co. Rawlins State KS

Interval Tested 3960 - 4004 Zone Tested LKC "A-B"
 Anchor Length 44' Drill Pipe Run 3717' Mud Wt. 9.0
 Top Packer Depth 3955 Drill Collars Run 235' Vis 67
 Bottom Packer Depth 3960 Wt. Pipe Run 0' WL 5.6
 Total Depth 4004 Chlorides 1100 ppm System LCM 4

Blow Description IF - BoB in 1 min
ISI - Surface blow @ 2 mins
FF - BoB @ 2 mins
FSI - Surface blow started @ 8 mins

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-------------|----------|-----------|-----------|------|
| <u>20</u> | <u>OMCW</u> | <u>5</u> | <u>65</u> | <u>30</u> | |
| <u>248'</u> | <u>OMCW</u> | <u>2</u> | <u>68</u> | <u>30</u> | |
| <u>1419</u> | <u>OMCW</u> | <u>2</u> | <u>95</u> | <u>3</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 1687 BHT 126° Gravity — API RW 065 @ 109 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic 2002 Test 1,250 T-On Location 10:30
 (B) First Initial Flow 175 Jars 250 T-Started 10:43
 (C) First Final Flow 508 Safety Joint 75 T-Open 13:43
 (D) Initial Shut-In 1296 Circ Sub NC T-Pulled 16:13
 (E) Second Initial Flow 546 Hourly Standby _____ T-Out 18:28
 (F) Second Final Flow 757 Mileage 50RT 77.50 Comments _____
 (G) Final Shut-In 1283 Sampler _____
 (H) Final Hydrostatic 1937 Straddle _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Shale Packer _____ Ruined Packer _____
 Final Flow 15 Extra Packer _____ Extra Copies _____
 Final Shut-In 60 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total 1,652.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1,652.50

Approved By _____ Our Representative Ryan J. [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. 53458

Well Name & No. Alex # 1-23 Test No. 3 Date 7-9-13
 Company Martin Drilling Co. Elevation 2939 KB 2928 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Martin #2
 Location: Sec. 23 Twp. 45 Rge. 31W Co. Rawlins State KS

Interval Tested 4004-4044 Zone Tested LKC "D & F"
 Anchor Length 40' Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3999 Drill Collars Run 235' Vis 67
 Bottom Packer Depth 4004 Wt. Pipe Run 0' WL 6.0
 Total Depth 4044 Chlorides 1100 ppm System LCM 4

Blow Description IF- BoB in 2 mins
ISI- Surface blow built to 5 1/2"
FF- BoB in 1 1/2 mins
FSI- Surface blow built to BoB in 8 mins

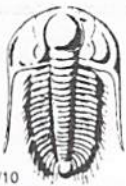
| Rec | Feet of | %gas | %oil | %water | %mud |
|------|---------|------|------|--------|------|
| 30 | MWCO | 55 | | 45 | |
| 189' | GMWCO | 10 | 55 | 25 | 10 |
| 630' | GMWCO | 10 | 65 | 20 | 5 |
| 235' | GMWCO | 30 | 35 | 20 | 15 |

Rec Total 1084' BHT 126° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------|
| (A) Initial Hydrostatic <u>1994</u> | <input checked="" type="checkbox"/> Test <u>1,250</u> | T-On Location <u>02:00</u> |
| (B) First Initial Flow <u>137</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>02:11</u> |
| (C) First Final Flow <u>322</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>04:01</u> |
| (D) Initial Shut-In <u>1245</u> | <input checked="" type="checkbox"/> Circ Sub <u>NC</u> | T-Pulled <u>06:31</u> |
| (E) Second Initial Flow <u>325</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>09:00</u> |
| (F) Second Final Flow <u>459</u> | <input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50 | Comments <u>973' GIP</u> |
| (G) Final Shut-In <u>1234</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>1939</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Open <u>15</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Final Flow <u>15</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total _____ |
| Final Shut-In <u>50</u> | <input type="checkbox"/> Day Standby _____ | Total <u>1,652.50</u> |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>1652.50</u> | |

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53459

Well Name & No. Alex # 1-23 Test No. 4 Date 7/9/13
 Company Murfin Drilling Co. Elevation 2939 KB 2928 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Martin # 2
 Location: Sec. 23 Twp. 4S Rge. 31W Co. Rawling State KS

Interval Tested 4049-4060 Zone Tested LKC "G"
 Anchor Length 11' Drill Pipe Run 3806' Mud Wt. 9.1
 Top Packer Depth 4044 Drill Collars Run 235' Vis 69
 Bottom Packer Depth 4049 Wt. Pipe Run 0' WL 6.0
 Total Depth 4060 Chlorides 1700 ppm System LCM 6

Blow Description IF - Surface blow built to 1"
ISI - No return
FF - No blow
FSI - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|------------|------|
| <u>5'</u> | <u>Mud w/oil spots</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 5' BHT 121° Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 2059 Test 1,250 T-On Location 14:30
 (B) First Initial Flow 16 Jars 250 T-Started 14:51
 (C) First Final Flow 23 Safety Joint 75 T-Open 16:35
 (D) Initial Shut-In 1244 Circ Sub NC T-Pulled 19:35
 (E) Second Initial Flow 25 Hourly Standby — T-Out 21:05
 (F) Second Final Flow 36 Mileage 50 RT 77.50
 (G) Final Shut-In 1185 Sampler —
 (H) Final Hydrostatic 1989 Straddle —

Initial Open 30 Ruined Shale Packer —
 Initial Shut-In 60 Ruined Packer —
 Final Flow 30 Extra Packer —
 Final Shut-In 60 Extra Recorder —
 Extra Copies —
 Sub Total 1,652.50
 Total 1,652.50
 MP/DST Disc't —
 Sub Total 1,652.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53460

Well Name & No. Alex #1-23 Test No. 5 Date 7/10/13
 Company Murfin Drilling Co. Elevation 2939 KB 2928 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #2
 Location: Sec. 23 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4067-4176 Zone Tested LKC @ "H, J, & K"
 Anchor Length 109' Drill Pipe Run 3837' Mud Wt. 9.2
 Top Packer Depth 4062 Drill Collars Run 235' Vis 67
 Bottom Packer Depth 4067 Wt. Pipe Run 0' WL 6.0
 Total Depth 4176 Chlorides 1700 ppm System LCM 5

Blow Description IF - BoB @ 6 1/2 mins
ISI - Surface blow built to BoB @ 20 mins
FF - BoB @ 6 mins
FSI - Surface blow built to BoB @ 13 mins

| Rec | Feet of | %gas | %oil | %water | %mud |
|------|---------|------|------|--------|------|
| 126' | 60 | 70 | 30 | | |
| 306' | 60 | 50 | 50 | | |
| 118' | 60CM | 50 | 10 | | 40 |
| | | | | | |
| | | | | | |

Rec Total 550' BHT 125° Gravity 31.4 API RW — @ — °F Chlorides — ppm

| | | |
|-------------------------------------|-----------------------------------------------------------------|----------------------------|
| (A) Initial Hydrostatic <u>2058</u> | <input checked="" type="checkbox"/> Test <u>1,250</u> | T-On Location <u>10:00</u> |
| (B) First Initial Flow <u>26</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>10:24</u> |
| (C) First Final Flow <u>111</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>12:40</u> |
| (D) Initial Shut-In <u>1288</u> | <input checked="" type="checkbox"/> Circ Sub <u>NC</u> | T-Pulled <u>16:40</u> |
| (E) Second Initial Flow <u>131</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>18:54</u> |
| (F) Second Final Flow <u>213</u> | <input checked="" type="checkbox"/> Mileage <u>50 RT x2 155</u> | Comments <u>1260' GIP</u> |
| (G) Final Shut-In <u>1255</u> | <input type="checkbox"/> Sampler | <u>Loaded tools @</u> |
| (H) Final Hydrostatic <u>2123</u> | <input type="checkbox"/> Straddle | <u>04:45 on 7/12/13</u> |

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

Ruined Shale Packer
 Ruined Packer
 Extra Packer
 Extra Recorder
 Day Standby 1day 10 hrs
 Accessibility

Sub Total 1,730

Sub Total 800
 Total 2,530
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



PO Box 93999
Southlake, TX 76092

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

*acct.
Prod.-LH*

INVOICE

Invoice Number: 1371 99

Invoice Date: Jul 4, 2013

Page: 1

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

Now Includes:



| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Murfin | 60814 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | Jul 4, 2013 | 8/3/13 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|-------------|-----------------------|------------|----------|
| | | Alex #1-23 | | |
| 105.00 | MAT | Class A Common | 17.90 | 1,879.50 |
| 4.00 | MAT | Chloride | 64.00 | 256.00 |
| 110.40 | SER | Cubic Feet | 2.48 | 273.79 |
| 254.25 | SER | Ton Mileage | 2.60 | 661.05 |
| 1.00 | SER | Surface | 1,512.25 | 1,512.25 |
| 50.00 | SER | Pump Truck Mileage | 7.70 | 385.00 |
| 50.00 | SER | Light Vehicle Mileage | 4.40 | 220.00 |
| 1.00 | SER | Manifold Rental | 275.00 | 275.00 |
| 1.00 | CEMENTER | Alan Ryan | | |
| 1.00 | EQUIP OPER | Wayne McGhghy | | |
| 1.00 | OPER ASSIST | David Scariano | | |

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

\$ 1,911.90

ONLY IF PAID ON OR BEFORE

Jul 29, 2013

| | |
|------------------------|-----------------|
| Subtotal | 5,462.59 |
| Sales Tax | 168.70 |
| Total Invoice Amount | 5,631.29 |
| Payment/Credit Applied | |
| TOTAL | 5,631.29 |

AKAD

*1,911.90
3,719.39*

ALLIED OIL & GAS SERVICES, LLC 060814

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Drilling K1

| | | | | | | | |
|-------------------------|-------------------|-------------------------------------------------|-----------------|------------|-----------------------|-------------------------|---------------------------|
| DATE <i>7/4/13</i> | SEC <i>23</i> | TWP <i>V</i> | RANGE <i>31</i> | CALLED OUT | ON LOCATION | JOB START <i>9:30am</i> | JOB FINISH <i>10:00am</i> |
| LEASE <i>Max</i> | WELL # <i>123</i> | LOCATION <i>Rexford N 27 W 2 R 2 W 6 N 14 E</i> | | | COUNTY <i>Rexford</i> | STATE <i>K1</i> | |
| OLD OR NEW (Circle one) | | | <i>None</i> | | | | |

CONTRACTOR *Murfin 2*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *225*
 CASING SIZE *8 5/8* DEPTH *225*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. *19'*
 PERFS.
 DISPLACEMENT *13.10*

OWNER *Eme*
 CEMENT AMOUNT ORDERED *1950m 370cc*
 COMMON *105* @ *17.80* *1879.50*
 POZMIX @
 GEL @
 CHLORIDE *4* @ *64.00* *256.00*
 ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER *Alm Ruan*
 # *422* HELPER *Ulysses McElghy*
 BULK TRUCK
 # *347* DRIVER *David Scarianzo*
 BULK TRUCK
 # DRIVER

HANDLING *110* @ *2.48* *273.79*
 MILEAGE *1104* @ *5.05* *5576.20*
 TOTAL *3,676.34*

REMARKS:

Analogy, Calculate, Mix Cement
Displace Cement
Shut in
Cement Disk
Calculate
Thank You
Alm Ruan, David
 CHARGE TO *Murfin Drilling*
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB *225'*
 PUMP TRUCK CHARGE *152.25*
 EXTRA FOOTAGE @
 MILEAGE *50mils* @ *7.20* *360.00*
 MANIFOLD @ *275.00*
CD Vehicle *50mils* @ *4.40* *220.00*
 TOTAL *2392.25*

PLUG & FLOAT EQUIPMENT

 @
 @
 @
 @
 @
 TOTAL _____

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

SALES TAX (if Any) _____
 TOTAL CHARGES *3,462.59*
 DISCOUNT *1,911.90* IF PAID IN 30 DAYS
3,550.68 Net.

PRINTED NAME *Aruro Ceballos*
 SIGNATURE *Aruro Ceballos*



Acidizing

cc: WT

cc: Lil

cc: L-1

Invoice

| DATE | INVOICE # |
|-----------|-----------|
| 7/24/2013 | 24585 |

| |
|--------------------------------------------------------------|
| 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 | #1-23 | Alex | Rawlins | Company Tools | Oil | Development | Cement Port Collar | Jason |
| 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 | 1,500.00 | 1,500.00 |
| 276 | Flocele | | | | 60 | Lb(s) | 2.00 | 120.00T |
| 290 | D-Air | | | | 2 | Gallon(s) | 42.00 | 84.00T |
| 330 | Swift Multi-Density Standard (MIDCON II) | | | | 225 | Sacks | 17.00 | 3,825.00T |
| 581D | Service Charge Cement | | | | 350 | Sacks | 2.00 | 700.00 |
| 583D | Drayage | | | | 2,094.6 | Ton Miles | 1.00 | 2,094.60 |
| | Subtotal | | | | | | | 9,043.60 |
| | Sales Tax Rawlins County | | | | | | 7.90% | 318.29 |
| USED FOR | | | | | IC 103 | | | |
| APPROVED | | | | | JK | | | |
| We Appreciate Your Business! | | | | | | | Total | \$9,361.89 |



Services, Inc.

CHARGE TO: **MURFIN DRILLING**
 ADDRESS:
 CITY, STATE, ZIP CODE

TICKET No. **24585**

PAGE 1 OF

SERVICE LOCATION: **NESS CITY, KS** WELL/PROJECT NO.: **ALEX 1-23** LEASE: **RAVILINS** COUNTY/PARISH: **RAVILINS** STATE: **KS** CITY: **REXFORD, KS** DATE: **8/5/13** OWNER:
 1. **NESS CITY, KS**
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: **6010015** RIG NAME/NO.:
 3. WELL TYPE: **D/L** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **CEMENT PORT COLLAR** SHIPPED VIA: DELIVERED TO:
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS: **WELL PERMIT NO. 70168N220N100**

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | UM | QTY. | UM | UNIT PRICE | AMOUNT | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|----|------------|--------|------------------|--|
| | | LOC | ACCT | DF | | | | | | | | | |
| 575 | | | | | MILEAGE #115 | 120 | oz | | | 60 | 720 | | |
| 576D | | | | | PUMP CHARGE | 1500 | oz | | | 1500 | 1500 | | |
| 276 | | | | | FIDUCIE | 60 | lbs | | | 2 | 120 | | |
| 29D | | | | | D-AIR | 29 | oz | | | 42 | 84 | | |
| 33D | | | | | SMD CEMENT | 225 | bx | | | 17 | 3825 | | |
| 581 | | | | | CEMENT SERVICE CHARGE | 350 | bx | | | 2 | 700 | | |
| 583 | | | | | DRAPAGE | 3410 | lbs | | | 1 | 2094 | | |
| 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. | | | | | REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300 | | | | | | | PAGE TOTAL: 9043 | |
| MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS | | | | | SURVEY | | | | | | | PAGE TOTAL: 318 | |
| DATE SIGNED: 8/5/13 TIME SIGNED: 1330 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M. | | | | | OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? 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? | | | | | | | TOTAL: 9361 | |
| SWIFT OPERATOR: <i>[Signature]</i> | | | | | APPROVAL: <i>[Signature]</i> | | | | | | | Thank You! | |

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

JOB LOG

SWIFT Services, Inc.

DATE 24 July 13 PAGE NO.

CUSTOMER MURPIN DRILLING

WELL NO.

LEASE ALEX 1-23

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 24585

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|----------------------------------------|
| | | | | T | C | TUBING | CASING | |
| | 1045 | | | | | | | ON LOCATION |
| | | | | | | | | PORT COLLAR @ 2693 |
| | 1203 | | | | ✓ | | 1000 | TEST - HELD |
| | 1207 | | | | | | | OPEN PORT COLLAR |
| | 1212 | 4 | 125 | ✓ | | | 600 | MIX 225 SX SMD |
| | | 3 | 9 1/2 | ✓ | | | 350 | DISPLACE CEMENT |
| | | | | | | | | CIRCULATE 20 SX TO PIT |
| | 1246 | | | | ✓ | | 1000 | CLOSE PORT COLLAR - TEST - HELD |
| | | | | | | | | RUN 5 SJBS. |
| | 1256 | 4 | 25 | | ✓ | | 400 | REVERSE CEMENT OUT OF TUBING |
| | 1310 | | | | | | | WASH TRUCK |
| | 1330 | | | | | | | JOB COMPLETE |
| | | | | | | | | THANKS #115 |
| | | | | | | | | JASON JEFF ISAAC |



CONSOLIDATED
Oil Well Services, LLC

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

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

INVOICE

Invoice # 260507

Invoice Date: 07/15/2013 Terms: 10/10/30,n/30 Page 1

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

ALEX 1-23
37982
23-4-31
07-12-2013
KS

USED FOR 1C103
APPROVED JFR

| Part Number | Description | Qty | Unit Price | Total |
|-------------|--------------------------|---------|------------|---------|
| 1126 | OIL WELL CEMENT | 225.00 | 23.7000 | 5332.50 |
| 1110A | KOL SEAL (50# BAG) | 1125.00 | .5600 | 630.00 |
| 1102 | CALCIUM CHLORIDE (50#) | 240.00 | .9400 | 225.60 |
| 1111A | SODIUM METASILICATE | 200.00 | 2.5200 | 504.00 |
| 4159 | FLOAT SHOE AFU 5 1/2" | 1.00 | 433.7500 | 433.75 |
| 4136 | TURBOLIZER 5 1/2" | 15.00 | 75.7500 | 1136.25 |
| 4104 | CEMENT BASKET 5 1/2" | 2.00 | 290.0000 | 580.00 |
| 4285 | 5 1/2" PORT COLLAR | 1.00 | 2178.7500 | 2178.75 |
| 1142A | KCL SUB MB6875 CC3107 (1 | 2.00 | 41.1000 | 82.20 |
| 4315 | ROTATING SCRATCHERS | 7.00 | 94.5000 | 661.50 |

| Sublet Performed | Description | Total |
|------------------|---------------------------|----------|
| 9996-130 | CEMENT MATERIAL DISCOUNT | -1176.46 |
| 9995-130 | CEMENT EQUIPMENT DISCOUNT | -412.58 |

| Description | Hours | Unit Price | Total |
|---------------------------------|-------|------------|---------|
| 399 SINGLE PUMP | 1.00 | 3175.00 | 3175.00 |
| 399 EQUIPMENT MILEAGE (ONE WAY) | 40.00 | 5.25 | 210.00 |
| 460 TON MILEAGE DELIVERY | 1.00 | 740.80 | 740.80 |

Amount Due 16819.75 if paid after 08/14/2013

| | | | | | | | |
|--------|----------|-----------|-----|---------|----------|----|----------|
| Parts: | 11764.55 | Freight: | .00 | Tax: | 836.46 | AR | 15137.77 |
| Labor: | .00 | Misc: | .00 | Total: | 15137.77 | | |
| Sublt: | -1589.04 | Supplies: | .00 | Change: | .00 | | |

Signed _____ Date _____

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



CONSOLIDATED
Oil Well Services, LLC

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

260507

TICKET NUMBER 37982
LOCATION Okley, KS
FOREMAN Jerry (Trainer) Watt D

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---------------------------------------------------------------------------------------------------|------------|--------------------|---------|----------|------------|-------------------|
| 7-12-13 | 5406 | Alex 1-23 | 23 | 4s | 31w | Kansas Rawlins |
| CUSTOMER | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| CUSTOMER <u>Martin Drilling</u> MAILING ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____ | | | 399 | Damon M | | |
| | | | 460 | Dustin J | | |
| | | | assist | Jordan L | Ride along | |

JOB TYPE long string HOLE SIZE 7 7/8 HOLE DEPTH 4598 CASING SIZE & WEIGHT 5 1/2" 15.5#
 CASING DEPTH 4575 DRILL PIPE _____ TUBING _____ OTHER P.C. @ 2699
 SLURRY WEIGHT 14.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 21.13
 DISPLACEMENT 108 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6661 ppm

REMARKS: Softly moving & rig up on Martin 2 run float equipment turbolizers on 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 44, baskets on bottom of jt. 44 and 45, and P.C. on top of jt 45 @ 2699'
hookup & circulated 15 min on jt 46, run rest of pipe, hookup to tree, broke circulation pumped hell
thru hookup to truck pump 5 bbl fresh water mix 240# calcium, 5 bbl water, 200# metsilicate, 5 bbl water
mix 175 sks of owc with 5# Kol-seal per sk., clean pump & liner released plug displaced
107 H₂O @ 1000# landed at 1500# released & held.

20 sks mh 30 ch

Thank you Jerry Watt and crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|--------------------|-----------------------|
| 5401B | 1 | PUMP CHARGE | 3175 ⁰⁰ | 3175 ⁰⁰ |
| 5406 | 40 | MILEAGE | 5.25 | 210 ⁰⁰ |
| 5407A | 10.58 | Ton mileage delivery | 1.75 | 185.15 |
| 1126 | 225 | Owc | 23.70 | 5332 ⁵⁰ |
| 1110A | 1125# | Kol-Seal | .56 | 630 ⁰⁰ |
| 1102 | 240# | Calcium chloride | .94 | 225 ⁶⁰ |
| 1111A | 200 | metasilicate | 2.52 | 504 ⁰⁰ |
| 4159 | 1 | 5 1/2 AFU float shoe | 433 ⁷⁵ | 433 ⁷⁵ |
| 4136 | 15 | 5 1/2 turbolizers | 75 ⁷⁵ | 1136 ²⁵ |
| 4104 | 2 | 5 1/2 baskets | 290 ⁰⁰ | 580 ⁰⁰ |
| 4285 | 1 | 5 1/2 part collar | 2178 ⁷⁵ | 2178 ⁷⁵ |
| 1142A | 2 | KCL | 41 ⁰⁰ | 82 ⁰⁰ |
| 4315 | 7 | rotating sealers | 94 ⁵⁰ | 661 ⁵⁰ |
| | | | | |
| | | | Subtotal | 15,890. ³⁵ |
| | | | less 10 disc | 1,589. ⁰⁴ |
| | | | Subtotal | 14,301. ³¹ |
| | | | SALES TAX | 826. ⁴⁶ |
| | | | ESTIMATED TOTAL | 15137. ⁷⁷ |

Completed

Revin 3737

AUTHORIZATION Buck Sales TITLE _____ DATE _____

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