



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1184768
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: _____

1184768

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

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

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

| MDCI Abell Ranch #2-25 1376 FSL 408' FEL Sec. 25-T12S-R31W 2885' KB | | | | | | | MDCI Abell Ranch #1-25 956 FSL 875' FEL Sec. 25-T12S-R31W 2873' KB | |
|---|-------------|-------|-----|----------|-------|------|--|-------|
| Formation | Sample tops | Datum | Ref | Log Tops | Datum | Ref | Log Tops | Datum |
| Anhydrite | 2370 | +515 | -13 | 2363 | +522 | -6 | 2345 | +528 |
| B/Anhydrite | 2398 | +487 | -15 | 2388 | +497 | -5 | 2371 | +502 |
| Topeka | 3684 | -799 | -11 | 3676 | -791 | -3 | 3661 | -788 |
| Heebner | 3902 | -1017 | -6 | 3896 | -1011 | Flat | 3884 | -1011 |
| Lansing | 3938 | -1053 | -5 | 3928 | -1043 | 5 | 3921 | -1048 |
| Stark | 4164 | -1279 | -17 | 4158 | -1273 | -1 | 4135 | -1262 |
| Marmaton | 4278 | -1493 | -3 | 4285 | -1400 | -10 | 4263 | -1390 |
| Fort Scott | 4418 | -1533 | -6 | 4409 | -1524 | +3 | 4400 | -1527 |
| Cherokee | 4442 | -1557 | -4 | 4437 | -1552 | +1 | 4426 | -1553 |
| Mississippi | 4503 | -1618 | -4 | 4503 | -1618 | -4 | 4487 | -1614 |
| RTD | 4600 | | | | | | 4610 | |
| LTD | | | | 4599 | | | 4612 | -1739 |

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Martin Drilling Co., Inc.**
LEASE **Abell Ranch #2-5**

FIELD **Wildcat**
LOCATION **1376' EQL & 40W' FEL**
SEC **25** TWP **S28** R **31W**
COUNTY **Greene** STATE **KANSAS**
CONTRACTOR **Martin Drilling #21**

RTPD **10/02/13** COMP **10/1/13**
SPUD **4/00/07** LTD **4/5/09**
MUD UP **3300'** TYPE MUD **Chemical**

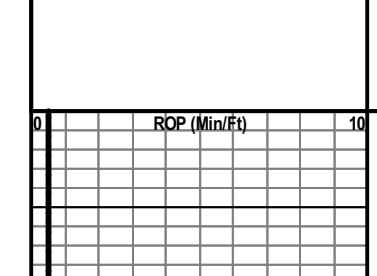
SAMPLES SAVED FROM **3570'** TO **RTD**
DRILLING TIME KEPT FROM **3574'** TO **RTD**
SAMPLES EXAMINED FROM **3570'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3270'**
REFERENCE WELL **Abell Ranch #1-2-5**

ELEVATIONS
KB **2885'**
DF _____
GL **2874'**
Measurements Are All From Kelly Bushing
CASING
CONDUCTOR _____
SURFACE **8-5/8"** at **224'**
PRODUCER **5-1/2"** at **457'**

ELECTRICAL SURVEYS
CND; DIL; MEL; SANC
Pioneer Wellhead

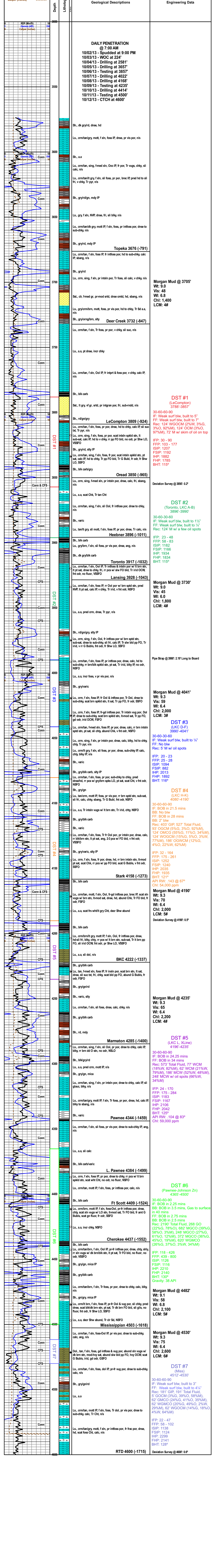
| Formation | Sample Tops | E-log Tops | Strat Pos. |
|----------------|--------------|--------------|------------|
| Amble Adhesive | 2370 (-4515) | 2383 (+322) | -5 |
| Baker Adhesive | 2398 (+487) | 2388 (+497) | -6 |
| Timberlake | 3684 (-790) | 3676 (-791) | -3 |
| Hedberg | 3902 (-1017) | 3896 (-1011) | -2 |
| Stark | 4164 (-1279) | 4158 (-1273) | EMT |
| Martinton | 4278 (-1393) | 4283 (-1400) | -10 |
| Fr Scout | 4418 (-1533) | 4409 (-1524) | -3 |
| Cherokee | 4442 (-1557) | 4437 (-1552) | -1 |
| Mississippian | 4503 (-1618) | 4503 (-1618) | -4 |



REMARKS Due to fair to good shows of oil in multiple pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,
Saman Sharifaie
Petroleum Geologist

API #15-063-22142
*Tops have been adjusted to electric logs





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.05 @ 21:26:00

End Date: 2013.10.06 @ 05:33:54

Job Ticket #: 49052 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:38:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49052

DST#: 1

ATTN: Saman ShariFaie

Test Start: 2013.10.05 @ 21:26:00

GENERAL INFORMATION:

Formation: **LeCompton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:23:55

Time Test Ended: 05:33:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 3788.00 ft (KB) To 3857.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 3857.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 176.78 psig @ 3790.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.05

End Date:

2013.10.06

Last Calib.:

2013.10.06

Start Time:

21:26:00

End Time:

05:33:54

Time On Btm:

2013.10.05 @ 23:23:40

Time Off Btm:

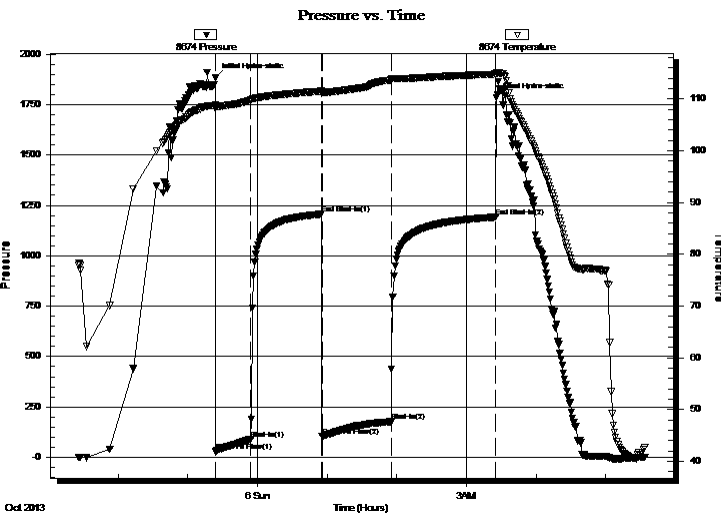
2013.10.06 @ 03:25:54

TEST COMMENT: IF- Weak Surface Blow Built to 5"

IS- No Blow

FF- Weak Surface Blow Built to 7"

FS- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1882.10 | 108.85 | Initial Hydro-static |
| 1 | 30.23 | 108.18 | Open To Flow (1) |
| 31 | 89.78 | 109.74 | Shut-In(1) |
| 92 | 1206.86 | 111.50 | End Shut-In(1) |
| 93 | 103.44 | 111.16 | Open To Flow (2) |
| 152 | 176.78 | 113.66 | Shut-In(2) |
| 242 | 1192.11 | 114.79 | End Shut-In(2) |
| 243 | 1785.42 | 115.01 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 124.00 | WGOCM 2%w 3%g 3%oil 92%m | 0.61 |
| 124.00 | OCM 3%oil 97%m | 0.61 |
| 72.00 | 100%m w with Skim of Oil on Top | 0.74 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49052

DST#: 1

ATTN: Saman ShariFaie

Test Start: 2013.10.05 @ 21:26:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3490.00 ft | Diameter: 3.80 inches | Volume: 48.96 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 28000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 8000.00 lb |
| | | | <u>Total Volume: 50.33 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3788.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 69.00 ft | | | |
| Tool Length: | 97.00 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 | | | 3761.00 | |
| Shut In Tool | 5.00 | | | 3766.00 | |
| Hydraulic tool | 5.00 | | | 3771.00 | |
| Jars | 5.00 | | | 3776.00 | |
| Safety Joint | 3.00 | | | 3779.00 | |
| Packer | 5.00 | | | 3784.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3788.00 | |
| Stubb | 1.00 | | | 3789.00 | |
| Perforations | 1.00 | | | 3790.00 | |
| Recorder | 0.00 | 8355 | Outside | 3790.00 | |
| Recorder | 0.00 | 8674 | Inside | 3790.00 | |
| Perforations | 25.00 | | | 3815.00 | |
| Change Over Sub | 1.00 | | | 3816.00 | |
| Drill Pipe | 31.00 | | | 3847.00 | |
| Change Over Sub | 1.00 | | | 3848.00 | |
| Perforations | 4.00 | | | 3852.00 | |
| Bullnose | 5.00 | | | 3857.00 | 69.00 Bottom Packers & Anchor |
| Total Tool Length: | 97.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49052

DST#: 1

ATTN: Saman ShariFaie

Test Start: 2013.10.05 @ 21:26:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 124.00 | WGOCM 2%w 3%g 3%oil 92%m | 0.610 |
| 124.00 | OCM 3%oil 97%m | 0.610 |
| 72.00 | 100%m with Skim of Oil on Top | 0.737 |

Total Length: 320.00 ft Total Volume: 1.957 bbl

Num Fluid Samples: 0

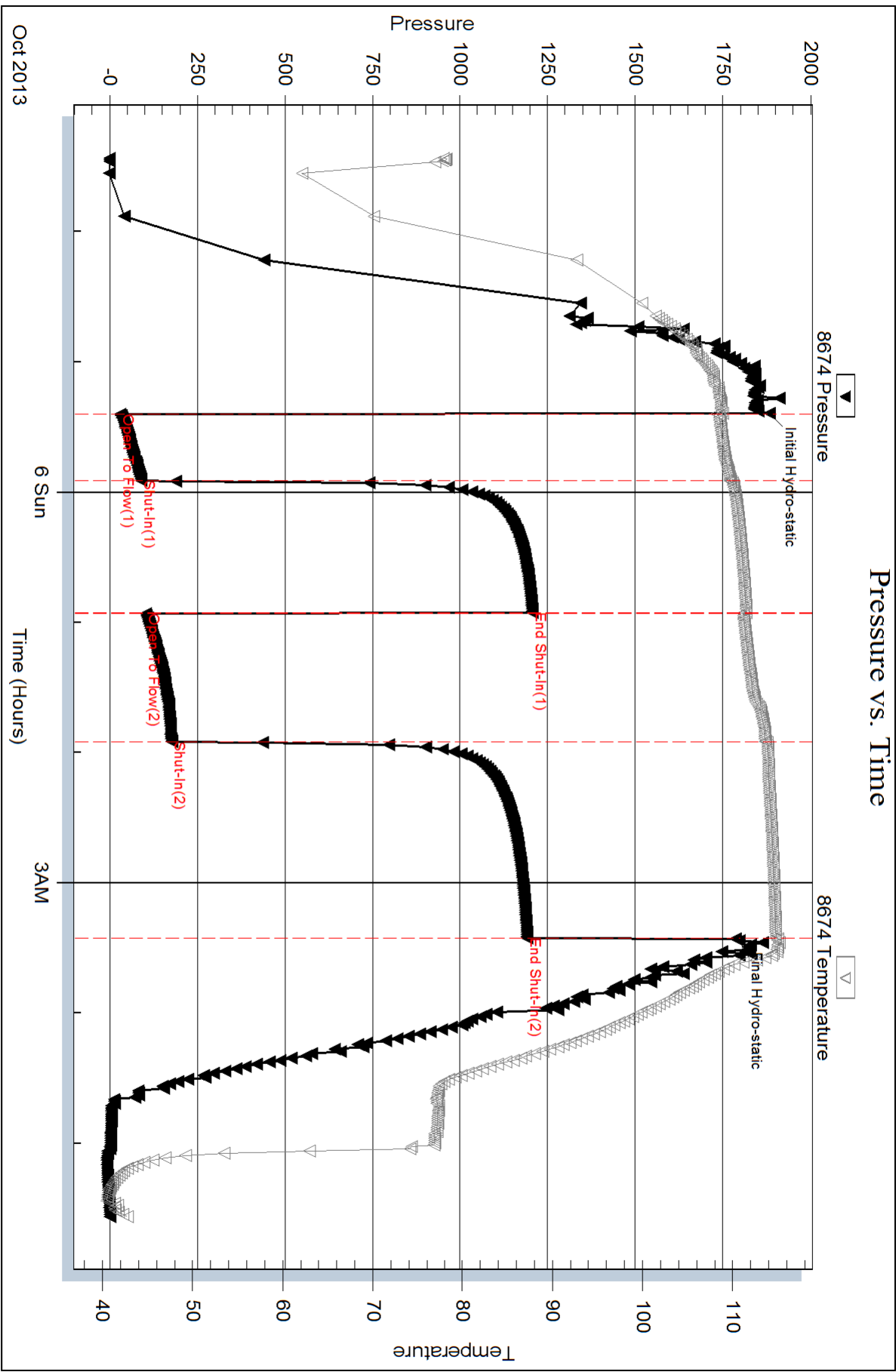
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

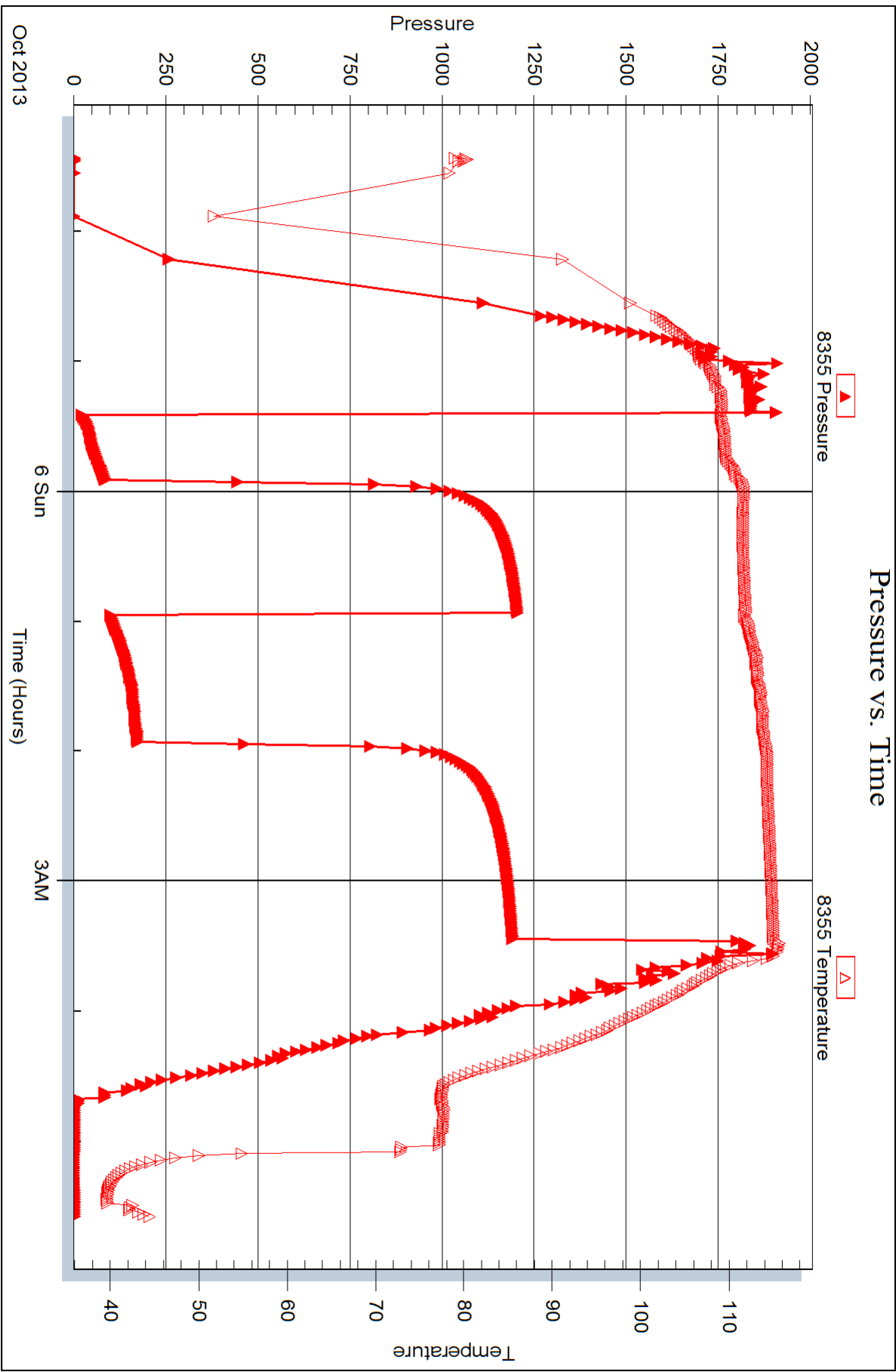


Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.06 @ 18:58:00

End Date: 2013.10.07 @ 01:47:39

Job Ticket #: 49053 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:38:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

ATTN: Saman ShariFaie

Job Ticket: 49053

DST#: 2

Test Start: 2013.10.06 @ 18:58:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:46:55

Time Test Ended: 01:47:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 3896.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 83.45 psig @ 3897.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.06

End Date:

2013.10.07

Last Calib.: 2013.10.07

Start Time: 18:58:00

End Time:

01:47:39

Time On Btm: 2013.10.06 @ 20:46:40

Time Off Btm: 2013.10.06 @ 23:49:24

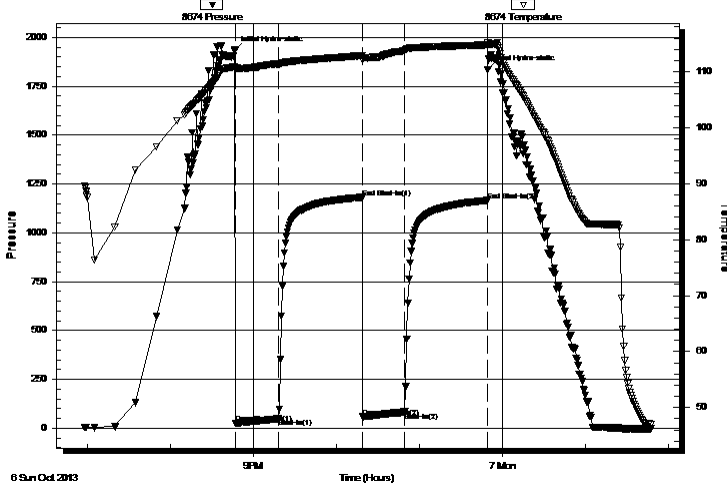
TEST COMMENT: IF- Weak Surface Blow Built to 1 1/2"

IS- No Blow

FF- Weak Surface Blow Built to 1/4"

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1933.65 | 110.97 | Initial Hydro-static |
| 1 | 23.42 | 110.29 | Open To Flow (1) |
| 32 | 48.26 | 111.36 | Shut-In(1) |
| 92 | 1181.63 | 112.89 | End Shut-In(1) |
| 93 | 57.54 | 112.09 | Open To Flow (2) |
| 123 | 83.45 | 113.82 | Shut-In(2) |
| 183 | 1165.85 | 114.82 | End Shut-In(2) |
| 183 | 1834.47 | 115.26 | Final Hydro-static |

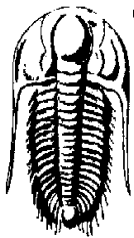
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 124.00 | 100% m with a Few Oil Spots in Tool | 0.61 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
 250 N. Water Ste 300
 Wichita KS. 67202
 ATTN: Saman ShariFaie

25-12s-31w Gove,KS
Abell Ranch #2-25
 Job Ticket: 49053 **DST#: 2**
 Test Start: 2013.10.06 @ 18:58:00

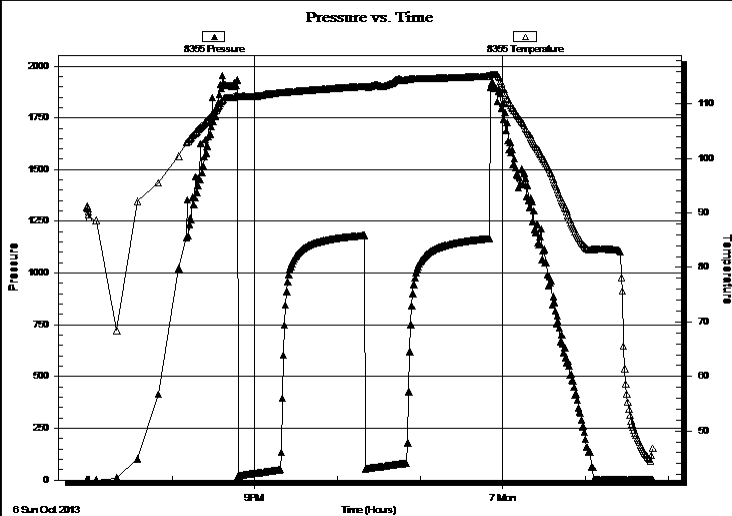
GENERAL INFORMATION:

Formation: **Toronto / LKC " A-B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:46:55
 Time Test Ended: 01:47:39
 Interval: **3896.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: 3990.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 58
 Reference Elevations: 2885.00 ft (KB)
 2874.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8355 Outside

Press @ Run Depth: psig @ 3897.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.06 End Date: 2013.10.07 Last Calib.: 2013.10.07
 Start Time: 18:58:05 End Time: 01:48:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/2"
 IS- No Blow
 FF- Weak Surface Blow Built to 1/4"
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 124.00 | 100% m with a Few Oil Spots in Tool | 0.61 |
| | | |
| | | |
| | | |
| | | |
| | | |

* 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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49053

DST#: 2

ATTN: Saman ShariFaie

Test Start: 2013.10.06 @ 18:58:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3616.00 ft | Diameter: 3.80 inches | Volume: 50.72 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 18000.00 lb |
| | | | <u>Total Volume: 52.09 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial 66000.00 lb |
| Depth to Top Packer: | 3896.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 94.00 ft | | | |
| Tool Length: | 122.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3869.00 | |
| Shut In Tool | 5.00 | | | 3874.00 | |
| Hydraulic tool | 5.00 | | | 3879.00 | |
| Jars | 5.00 | | | 3884.00 | |
| Safety Joint | 3.00 | | | 3887.00 | |
| Packer | 5.00 | | | 3892.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3896.00 | |
| Stubb | 1.00 | | | 3897.00 | |
| Recorder | 0.00 | 8355 | Outside | 3897.00 | |
| Recorder | 0.00 | 8674 | Inside | 3897.00 | |
| Perforations | 23.00 | | | 3920.00 | |
| Change Over Sub | 1.00 | | | 3921.00 | |
| Drill Pipe | 63.00 | | | 3984.00 | |
| Change Over Sub | 1.00 | | | 3985.00 | |
| Bullnose | 5.00 | | | 3990.00 | 94.00 Bottom Packers & Anchor |

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49053

DST#: 2

ATTN: Saman ShariFaie

Test Start: 2013.10.06 @ 18:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------------------|---------------|
| 124.00 | 100%m with a Few Oil Spots in Tool | 0.610 |

Total Length: 124.00 ft Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

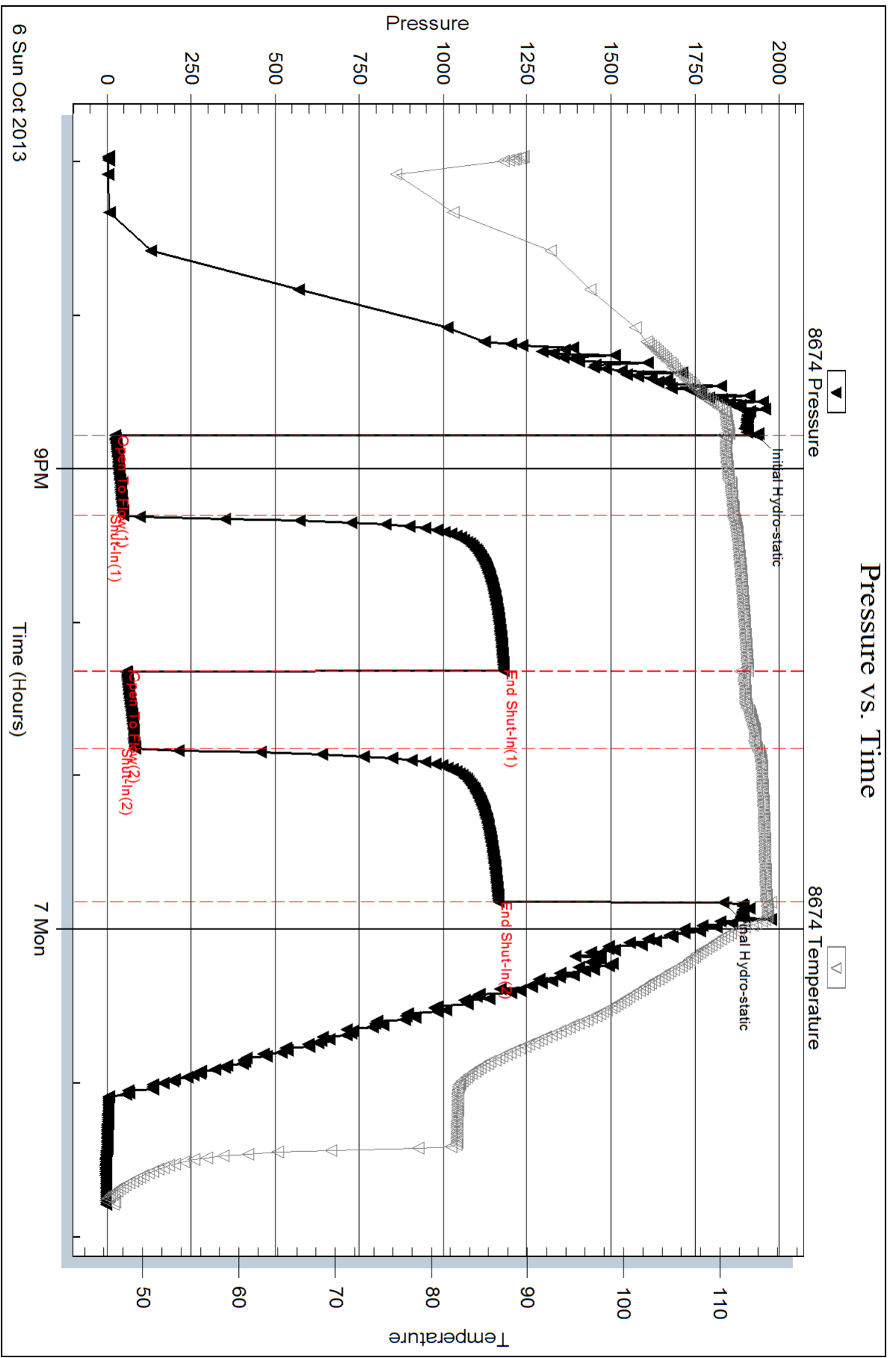
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49053

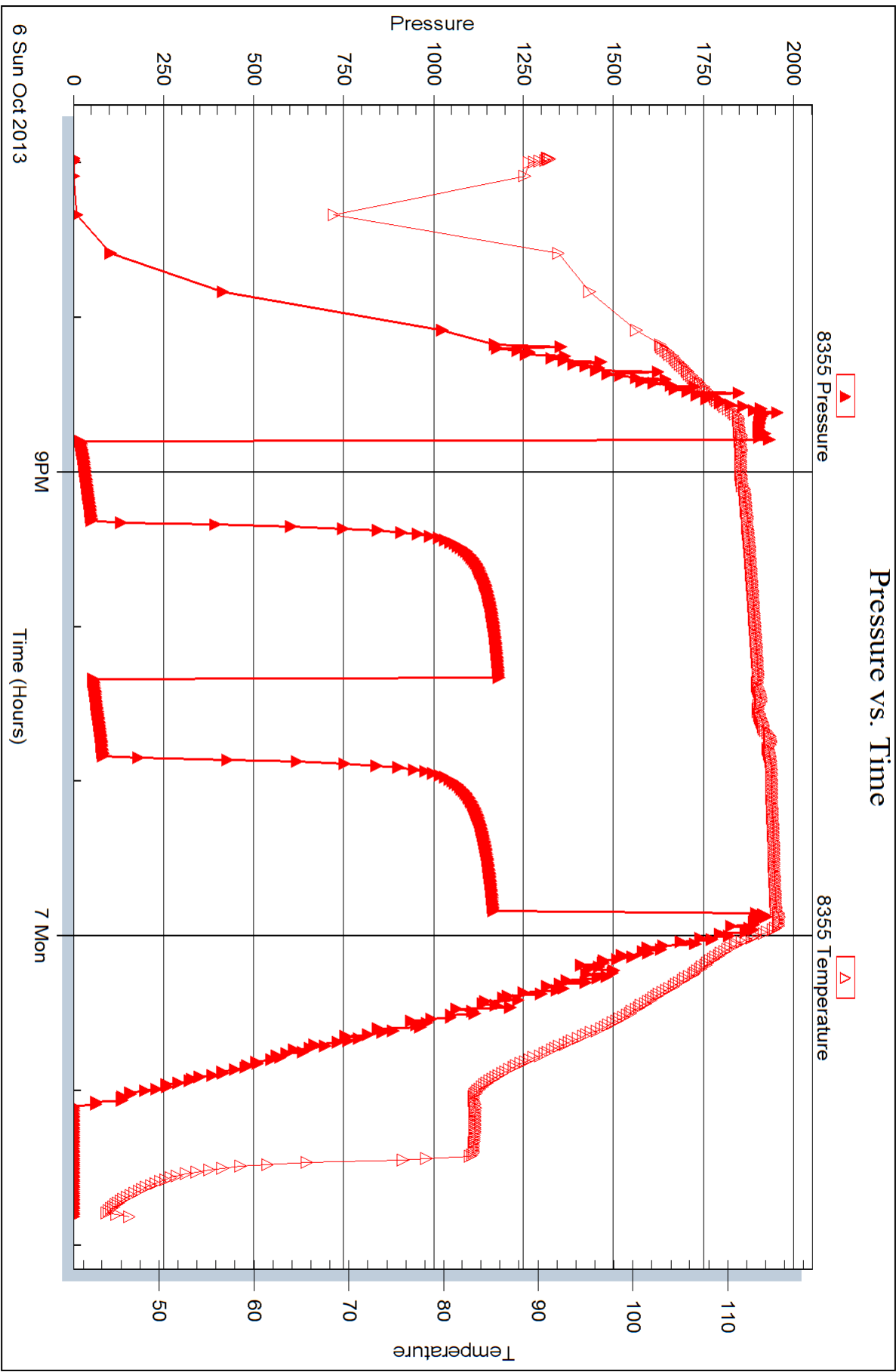
Printed: 2013.10.15 @ 10:38:04

Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.07 @ 10:56:00

End Date: 2013.10.07 @ 17:46:54

Job Ticket #: 49054 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:37:23

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

Abell Ranch #2-25

DST # 3

LKC " D - F "

2013.10.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49054

DST#: 3

ATTN: Saman ShariFaie

Test Start: 2013.10.07 @ 10:56:00

GENERAL INFORMATION:

Formation: **LKC " D - F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:40

Time Test Ended: 17:46:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 3990.00 ft (KB) To 4041.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 4041.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 28.05 psig @ 3991.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.07 End Date: 2013.10.07

Last Calib.: 2013.10.07

Start Time: 10:56:00 End Time: 17:46:54

Time On Btm: 2013.10.07 @ 12:44:25

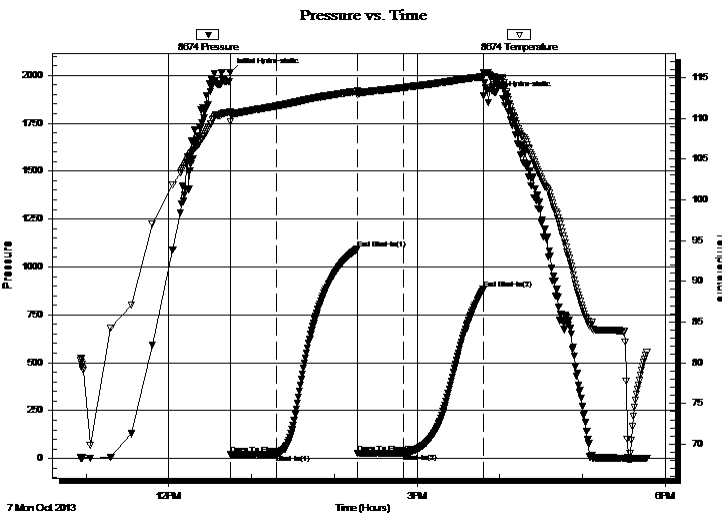
Time Off Btm: 2013.10.07 @ 15:48:09

TEST COMMENT: IF- Weak Surface Blow 1/4"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2013.43 | 110.79 | Initial Hydro-static |
| 1 | 20.57 | 109.57 | Open To Flow (1) |
| 34 | 23.10 | 111.50 | Shut-In(1) |
| 93 | 1094.85 | 113.31 | End Shut-In(1) |
| 93 | 25.91 | 112.86 | Open To Flow (2) |
| 126 | 28.05 | 113.77 | Shut-In(2) |
| 184 | 882.88 | 115.10 | End Shut-In(2) |
| 184 | 1892.29 | 115.62 | Final Hydro-static |

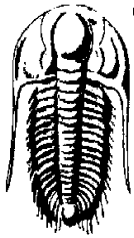
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 5.00 | 100% m with Oil Spots | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
 250 N. Water Ste 300
 Wichita KS. 67202
 ATTN: Saman ShariFaie

25-12s-31w Gove,KS
Abell Ranch #2-25
 Job Ticket: 49054 **DST#: 3**
 Test Start: 2013.10.07 @ 10:56:00

GENERAL INFORMATION:

| | | | |
|---|------------------------------------|---------------------------------------|---|
| Formation: LKC " D - F " | Deviated: No Whipstock: | ft (KB) | Test Type: Conventional Bottom Hole (Reset) |
| Time Tool Opened: 12:44:40 | Time Test Ended: 17:46:54 | | Tester: Will MacLean |
| | | | Unit No: 58 |
| Interval: 3990.00 ft (KB) To 4041.00 ft (KB) (TVD) | Total Depth: 4041.00 ft (KB) (TVD) | Hole Diameter: 7.88 inches | Hole Condition: Good |
| | | Reference Elevations: 2885.00 ft (KB) | 2874.00 ft (CF) |
| | | KB to GR/CF: 11.00 ft | |

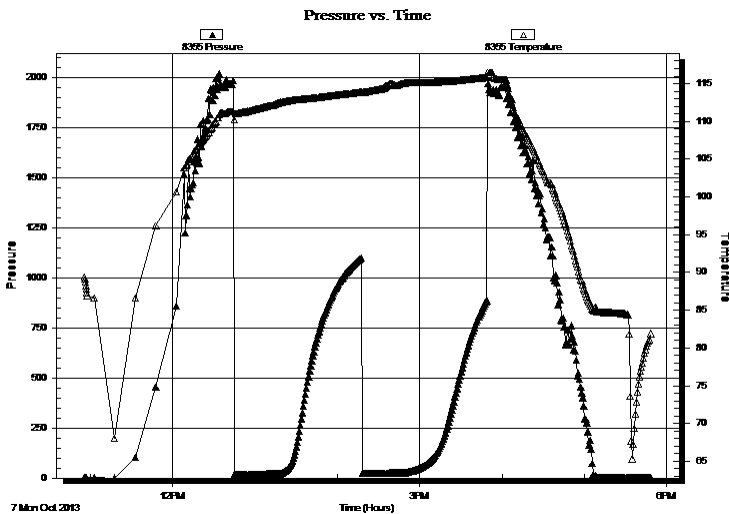
Serial #: 8355

Outside

| | |
|--|-------------------------|
| Press @ RunDepth: psig @ 3991.00 ft (KB) | Capacity: 8000.00 psig |
| Start Date: 2013.10.07 | End Date: 2013.10.07 |
| Start Time: 10:56:05 | End Time: 17:48:14 |
| | Last Calib.: 2013.10.07 |
| | Time On Btm: |
| | Time Off Btm: |

TEST COMMENT: IF- Weak Surface Blow 1/4"
 IS- No Blow
 FF- No Blow
 FS- No Blow

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 5.00 | 100% m with Oil Spots | 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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49054

DST#: 3

ATTN: Saman ShariFaie

Test Start: 2013.10.07 @ 10:56:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3710.00 ft | Diameter: 3.80 inches | Volume: 52.04 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 26000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: | 10000.00 lb |
| | | | <u>Total Volume: 53.41 bbl</u> | Tool Chased | ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial | 66000.00 lb |
| Depth to Top Packer: | 3990.00 ft | | | Final | 66000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 51.00 ft | | | | |
| Tool Length: | 79.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3963.00 | |
| Shut In Tool | 5.00 | | | 3968.00 | |
| Hydraulic tool | 5.00 | | | 3973.00 | |
| Jars | 5.00 | | | 3978.00 | |
| Safety Joint | 3.00 | | | 3981.00 | |
| Packer | 5.00 | | | 3986.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3990.00 | |
| Stubb | 1.00 | | | 3991.00 | |
| Recorder | 0.00 | 8355 | Outside | 3991.00 | |
| Recorder | 0.00 | 8674 | Inside | 3991.00 | |
| Perforations | 12.00 | | | 4003.00 | |
| Change Over Sub | 1.00 | | | 4004.00 | |
| Drill Pipe | 31.00 | | | 4035.00 | |
| Change Over Sub | 1.00 | | | 4036.00 | |
| Bullnose | 5.00 | | | 4041.00 | 51.00 Bottom Packers & Anchor |

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49054

DST#: 3

ATTN: Saman ShariFaie

Test Start: 2013.10.07 @ 10:56:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 5.00 | 100% m with Oil Spots | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

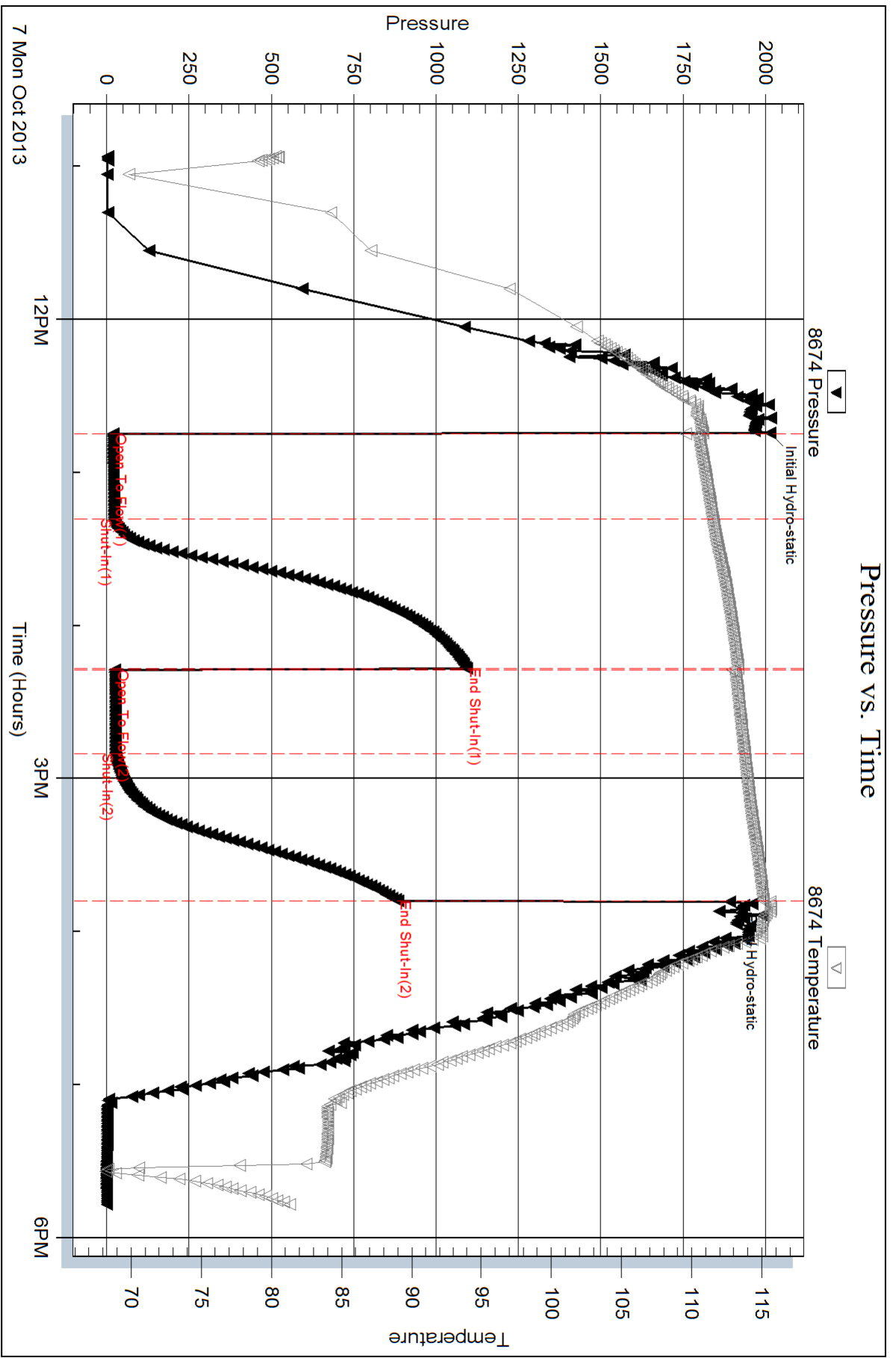
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 49054

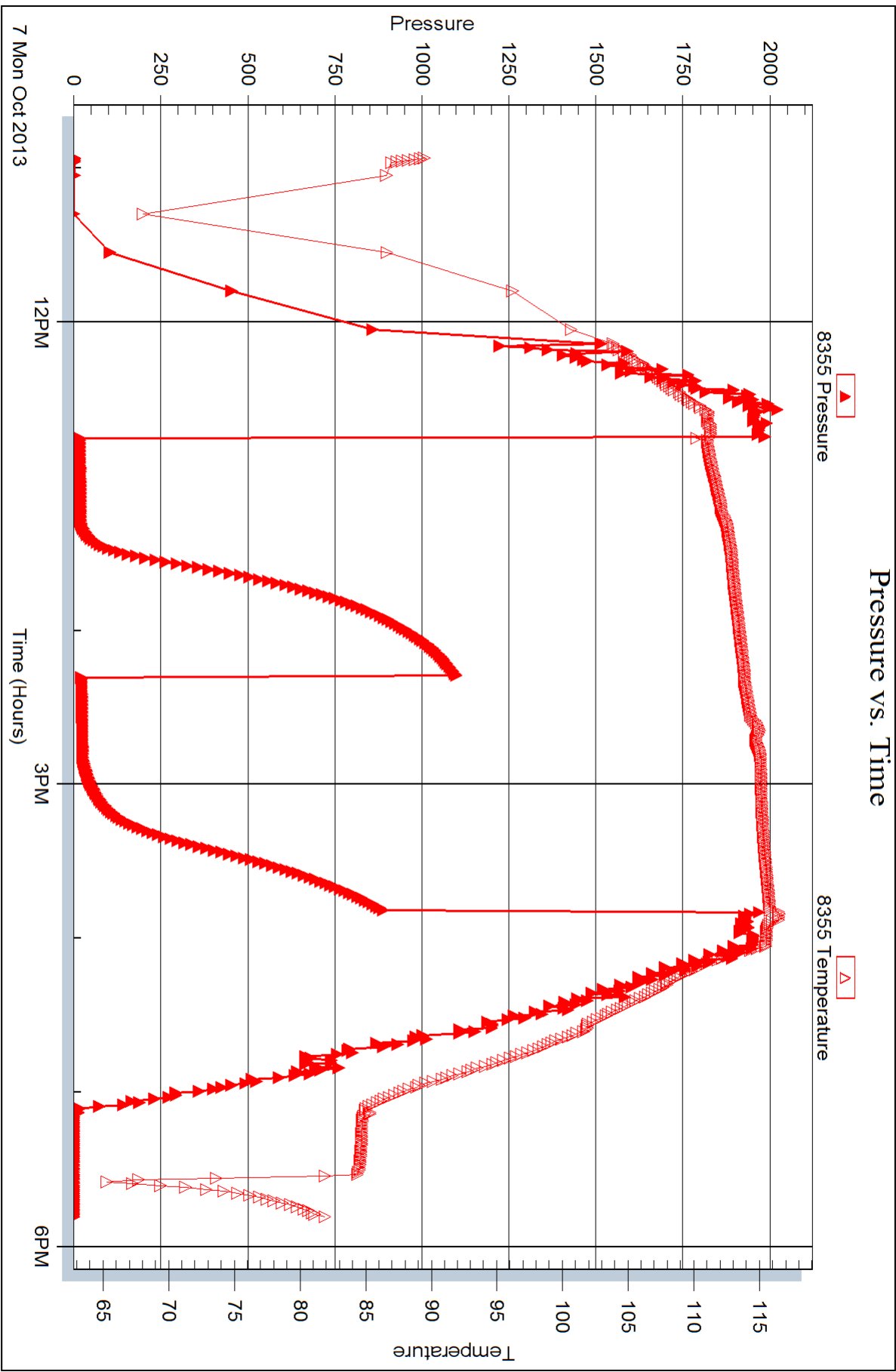
Printed: 2013.10.15 @ 10:37:25

Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 49054

Printed: 2013.10.15 @ 10:37:26



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.08 @ 13:06:00

End Date: 2013.10.08 @ 21:36:54

Job Ticket #: 49055 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:36:59

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

Abell Ranch #2-25

DST # 4

LKC " H - K "

2013.10.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

ATTN: Saman ShariFaie

Job Ticket: 49055

DST#: 4

Test Start: 2013.10.08 @ 13:06:00

GENERAL INFORMATION:

Formation: **LKC " H - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:07:25

Time Test Ended: 21:36:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4080.00 ft (KB) To 4190.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 3857.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 260.94 psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.08

End Date:

2013.10.08

Last Calib.:

2013.10.08

Start Time:

13:06:00

End Time:

21:36:54

Time On Btm:

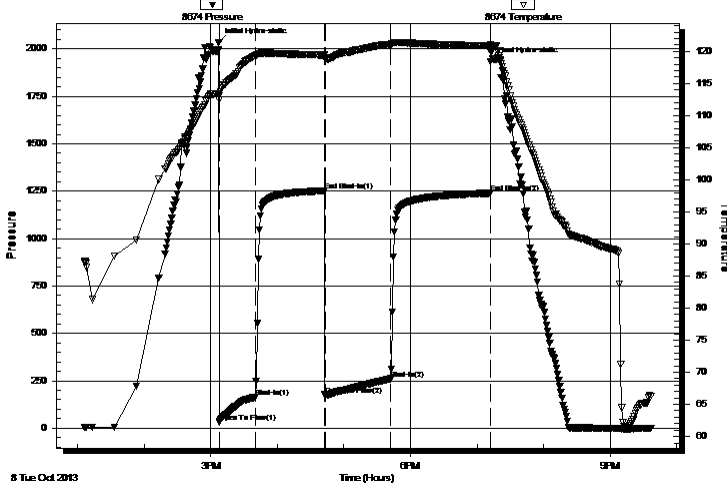
2013.10.08 @ 15:07:10

Time Off Btm:

2013.10.08 @ 19:12:09

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 21 min
IS- No Blow
FF- Weak Surface Blow Built to BOB in 28 min
FS- Weak Surface Blow in 24 min Built to 2"

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2034.53 | 113.48 | Initial Hydro-static |
| 1 | 31.92 | 112.42 | Open To Flow (1) |
| 33 | 163.56 | 119.26 | Shut-In(1) |
| 95 | 1251.99 | 119.41 | End Shut-In(1) |
| 96 | 175.36 | 118.92 | Open To Flow (2) |
| 155 | 260.94 | 121.10 | Shut-In(2) |
| 245 | 1239.63 | 120.85 | End Shut-In(2) |
| 245 | 1934.73 | 121.06 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 186.00 | OGWCM 4%oil 12%g 22%w 62%m | 0.91 |
| 124.00 | WOGCM 3%w 5%oil 15%g 77%m | 0.90 |
| 124.00 | OMCG 11%oil 55%g 34%m | 1.74 |
| 93.00 | OGCM 3%oil 5%g 92%m | 1.30 |
| 0.00 | 403' of 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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49055

DST#: 4

ATTN: Saman ShariFaie

Test Start: 2013.10.08 @ 13:06:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3804.00 ft | Diameter: 3.80 inches | Volume: 53.36 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 14000.00 lb |
| | | | <u>Total Volume: 54.73 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 30.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4080.00 ft | | | Final 72000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 110.00 ft | | | |
| Tool Length: | 138.00 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 | | | 4053.00 | |
| Shut In Tool | 5.00 | | | 4058.00 | |
| Hydraulic tool | 5.00 | | | 4063.00 | |
| Jars | 5.00 | | | 4068.00 | |
| Safety Joint | 3.00 | | | 4071.00 | |
| Packer | 5.00 | | | 4076.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4080.00 | |
| Stubb | 1.00 | | | 4081.00 | |
| Recorder | 0.00 | 8355 | Outside | 4081.00 | |
| Recorder | 0.00 | 8674 | Inside | 4081.00 | |
| Perforations | 8.00 | | | 4089.00 | |
| Change Over Sub | 1.00 | | | 4090.00 | |
| Drill Pipe | 94.00 | | | 4184.00 | |
| Change Over Sub | 1.00 | | | 4185.00 | |
| Bullnose | 5.00 | | | 4190.00 | 110.00 Bottom Packers & Anchor |

Total Tool Length: 138.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49055

DST#: 4

ATTN: Saman ShariFaie

Test Start: 2013.10.08 @ 13:06:00

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:

54000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 186.00 | OGWCM 4%oil 12%g 22%w 62%m | 0.915 |
| 124.00 | WOGCM 3%w 5%oil 15%g 77%m | 0.901 |
| 124.00 | OMCG 11%oil 55%g 34%m | 1.739 |
| 93.00 | OGCM 3%oil 5%g 92%m | 1.305 |
| 0.00 | 403' of GIP | 0.000 |

Total Length: 527.00 ft Total Volume: 4.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .143 @ 67f = 54000

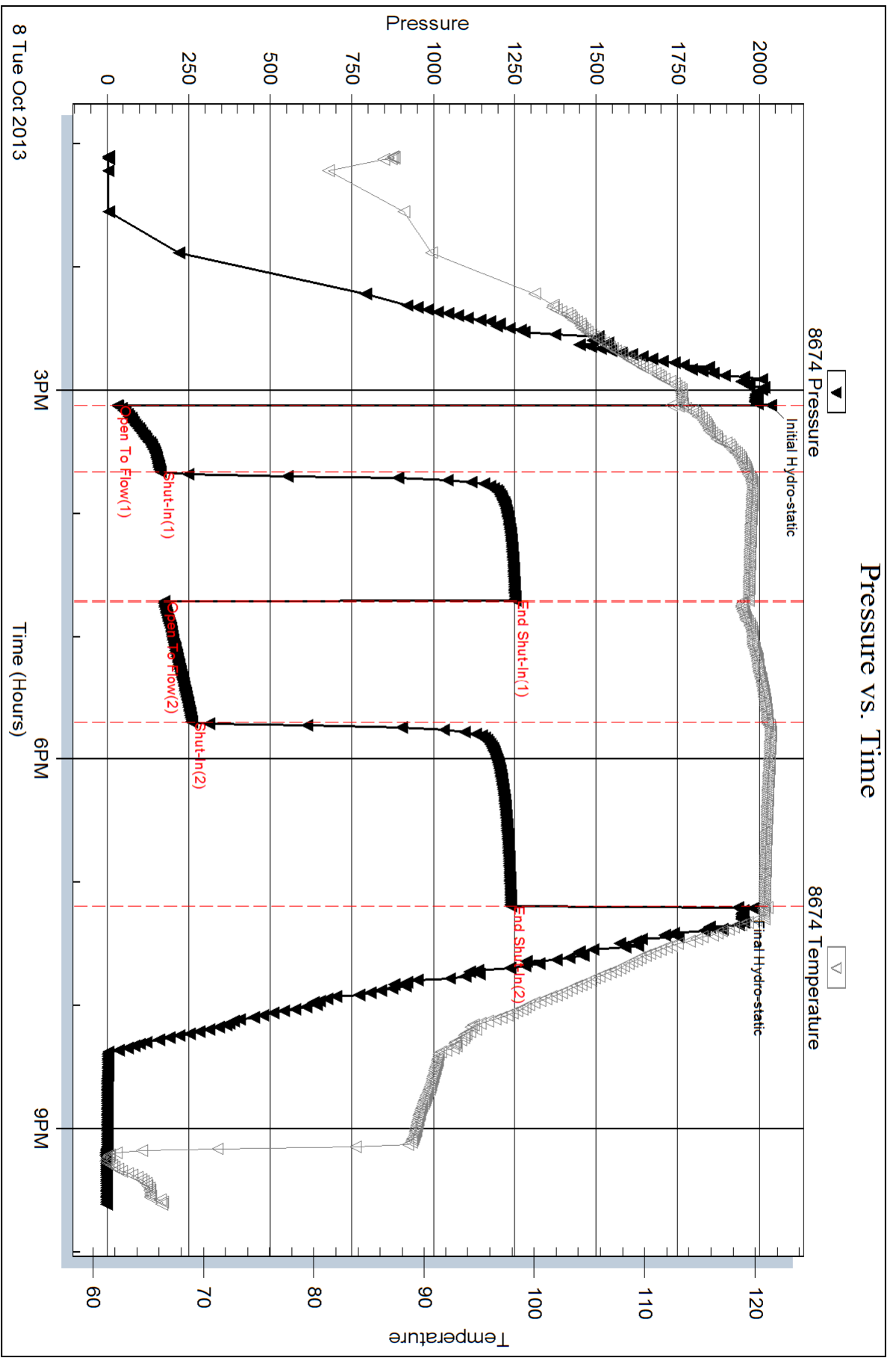
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 49055

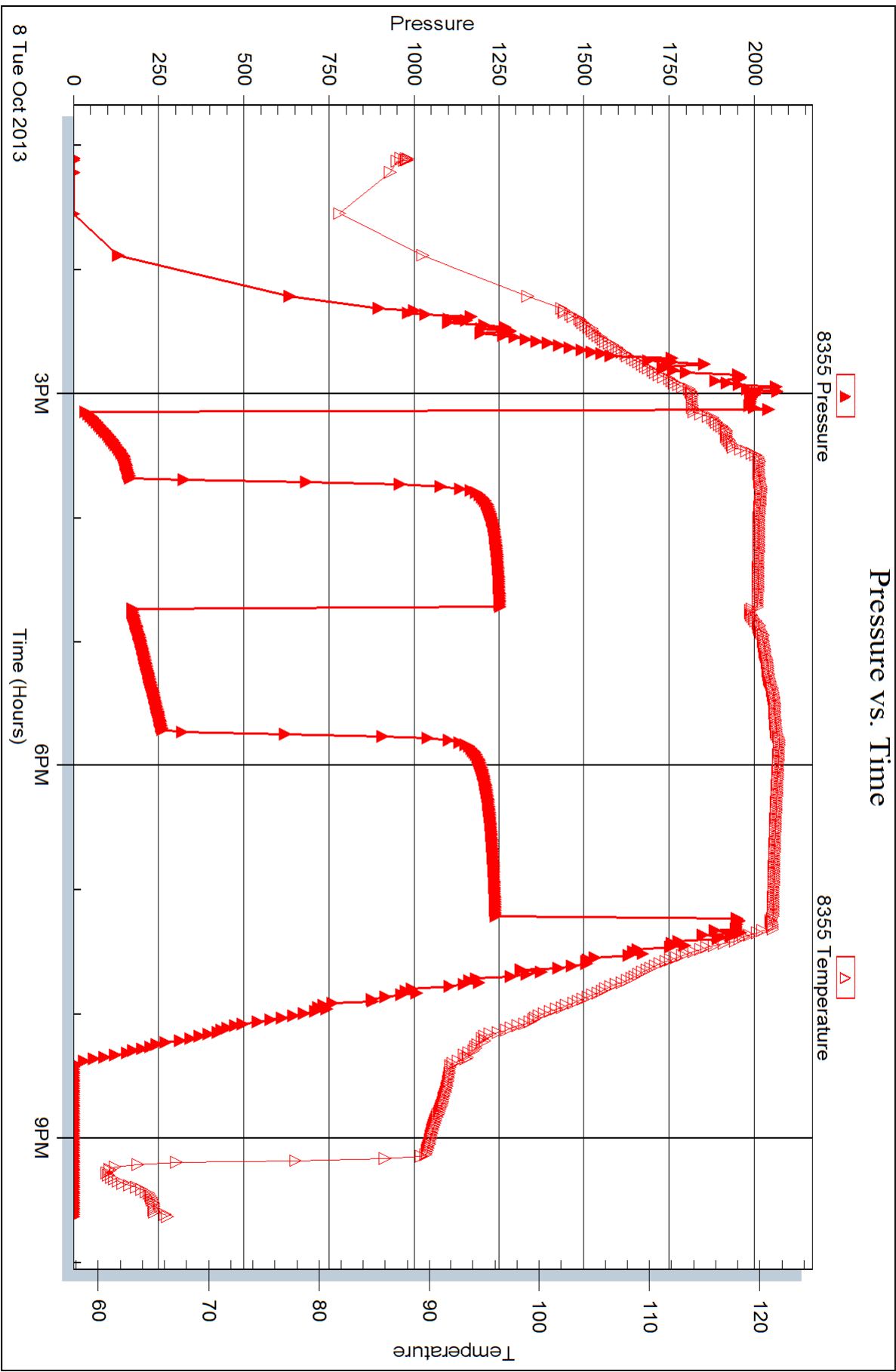
Printed: 2013.10.15 @ 10:37:01

Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.09 @ 06:10:00

End Date: 2013.10.09 @ 14:10:09

Job Ticket #: 49056 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:36:35

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

Abell Ranch #2-25

DST # 5

LKC " L " / X-Line

2013.10.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

ATTN: Saman ShariFaie

Job Ticket: 49056

DST#: 5

Test Start: 2013.10.09 @ 06:10:00

GENERAL INFORMATION:

Formation: **LKC " L " / X-Line**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:40

Time Test Ended: 14:10:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4196.00 ft (KB) To 4235.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 4235.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 283.88 psig @ 4197.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.09

End Date:

2013.10.09

Last Calib.:

2013.10.09

Start Time:

06:10:00

End Time:

14:10:09

Time On Btm:

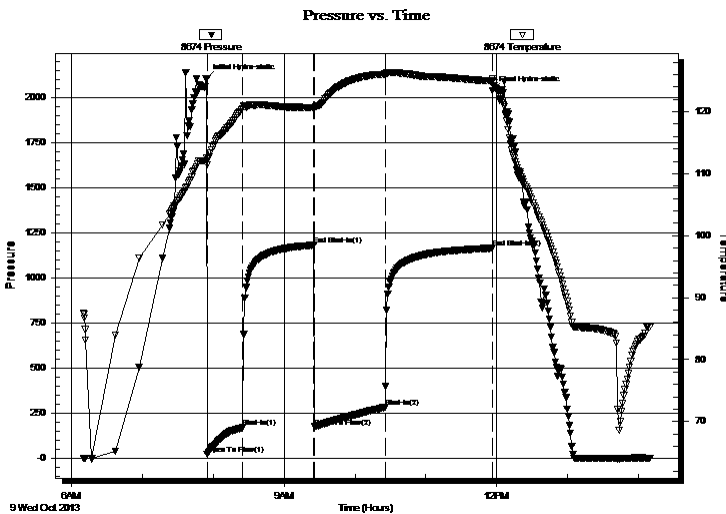
2013.10.09 @ 07:54:25

Time Off Btm:

2013.10.09 @ 11:56:39

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 24 1/4 min
IS- No Blow
FF- Weak Surface Blow Built to BOB in 34 min
FS- No Blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2106.13 | 112.60 | Initial Hydro-static |
| 1 | 24.05 | 111.45 | Open To Flow (1) |
| 31 | 170.20 | 120.57 | Shut-In(1) |
| 91 | 1183.20 | 120.68 | End Shut-In(1) |
| 92 | 174.98 | 120.50 | Open To Flow (2) |
| 151 | 283.88 | 126.07 | Shut-In(2) |
| 242 | 1166.72 | 124.96 | End Shut-In(2) |
| 243 | 2042.38 | 125.37 | Final Hydro-static |

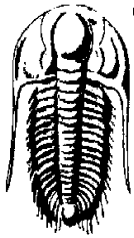
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 248.00 | MCW 34%m 66%w with Few Oil Spots | 1.22 |
| 186.00 | MCW 48%m 52%w | 2.34 |
| 62.00 | WCM 21%w 79%m | 0.87 |
| 77.00 | WCM 18%w 82%m | 1.08 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49056

DST#: 5

ATTN: Saman ShariFaie

Test Start: 2013.10.09 @ 06:10:00

GENERAL INFORMATION:

Formation: **LKC " L " / X-Line**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:40

Time Test Ended: 14:10:09

Interval: 4196.00 ft (KB) To 4235.00 ft (KB) (TVD)

Total Depth: 4235.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Reference Elevations: 2885.00 ft (KB)

2874.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8355

Outside

Press @ Run Depth: psig @ 4197.00 ft (KB)

Start Date: 2013.10.09

End Date: 2013.10.09

Start Time: 06:10:05

End Time: 14:11:44

Capacity: 8000.00 psig

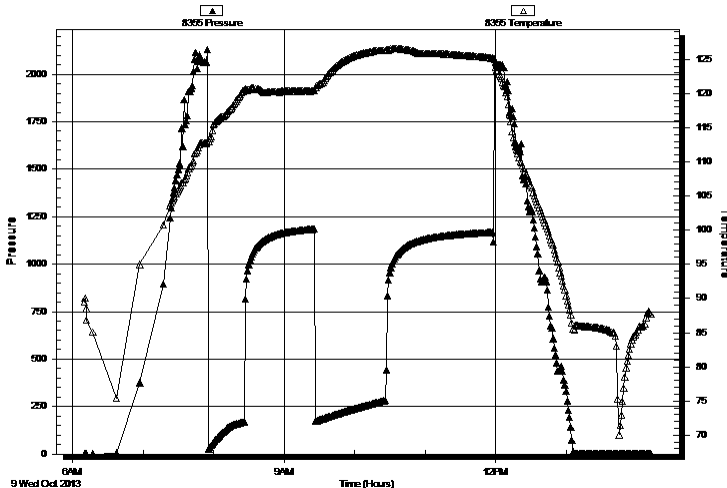
Last Calib.: 2013.10.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 24 1/4 min
IS- No Blow
FF- Weak Surface Blow Built to BOB in 34 min
FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 248.00 | MCW 34%m 66%w with Few Oil Spots | 1.22 |
| 186.00 | MCW 48%m 52%w | 2.34 |
| 62.00 | WCM 21%w 79%m | 0.87 |
| 77.00 | WCM 18%w 82%m | 1.08 |
| | | |
| | | |

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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49056

DST#: 5

ATTN: Saman ShariFaie

Test Start: 2013.10.09 @ 06:10:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3898.00 ft | Diameter: 3.80 inches | Volume: 54.68 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 28000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 14000.00 lb |
| | | | <u>Total Volume: 56.05 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4196.00 ft | | | Final 72000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 39.00 ft | | | |
| Tool Length: | 67.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4169.00 | |
| Shut In Tool | 5.00 | | | 4174.00 | |
| Hydraulic tool | 5.00 | | | 4179.00 | |
| Jars | 5.00 | | | 4184.00 | |
| Safety Joint | 3.00 | | | 4187.00 | |
| Packer | 5.00 | | | 4192.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4196.00 | |
| Stubb | 1.00 | | | 4197.00 | |
| Recorder | 0.00 | 8355 | Outside | 4197.00 | |
| Recorder | 0.00 | 8674 | Inside | 4197.00 | |
| Perforations | 33.00 | | | 4230.00 | |
| Bullnose | 5.00 | | | 4235.00 | 39.00 Bottom Packers & Anchor |

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49056

DST#: 5

ATTN: Saman ShariFaie

Test Start: 2013.10.09 @ 06:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

57000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------------------------------|----------------|
| 248.00 | MCW 34%m 66%w with Few Oil Spots in | 1.220 |
| 186.00 | MCW 48%m 52%w | 2.336 |
| 62.00 | WCM 21%w 79%m | 0.870 |
| 77.00 | WCM 18%w 82%m | 1.080 |

Total Length: 573.00 ft

Total Volume: 5.506 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .104 @ 83f = 57000

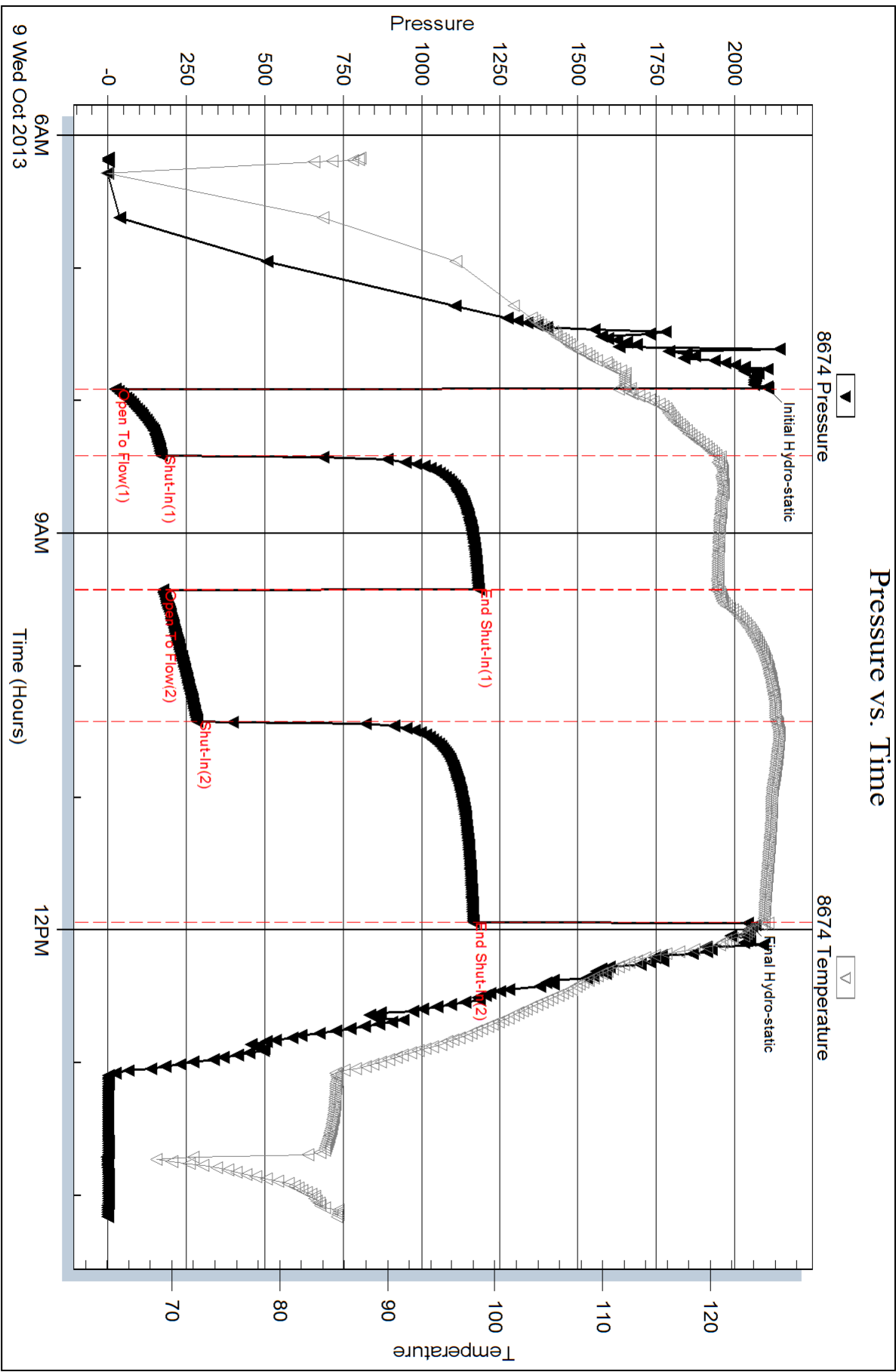
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 5

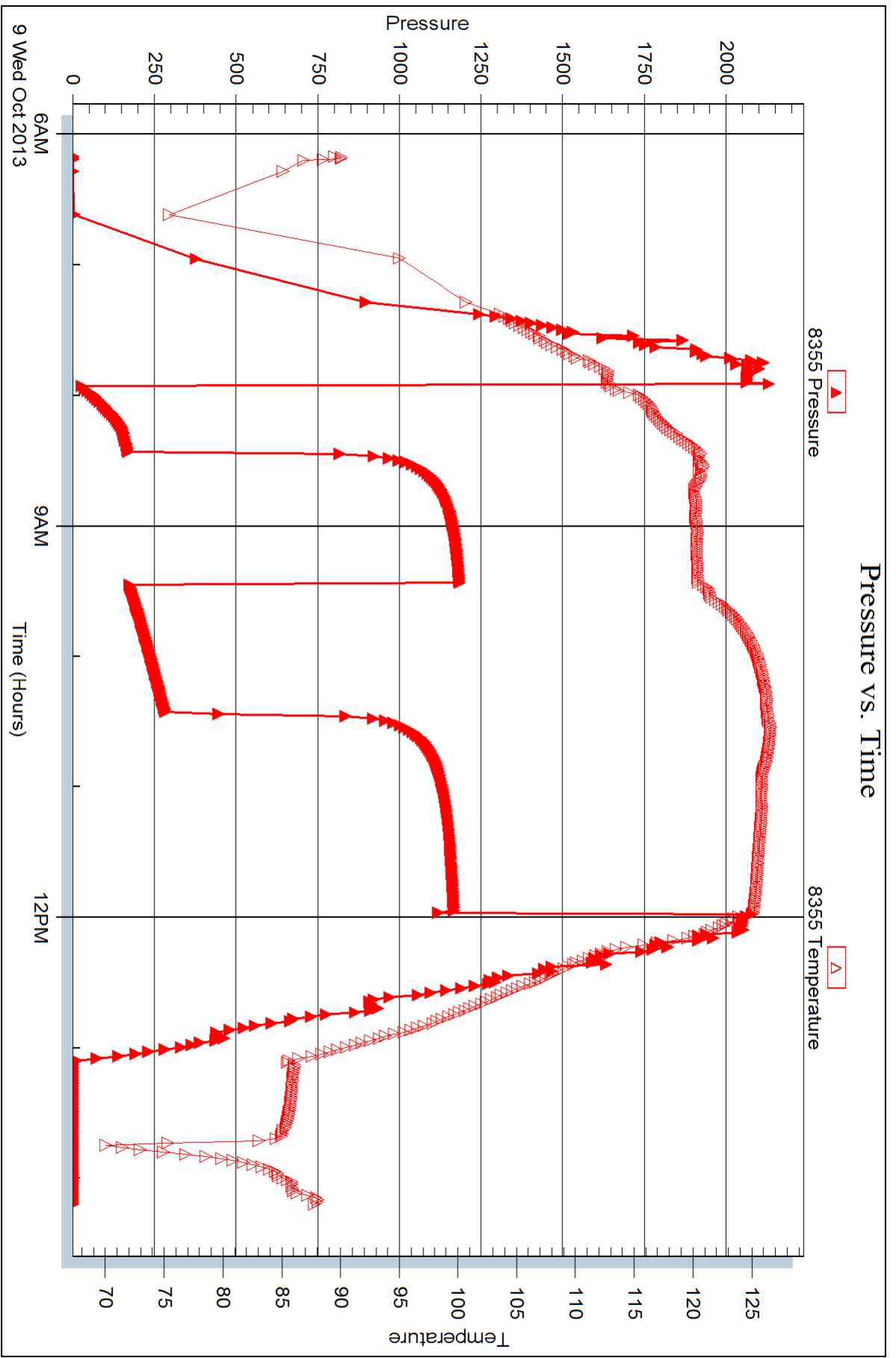


Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 49056

Printed: 2013.10.15 @ 10:36:37



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.10 @ 19:24:00

End Date: 2013.10.11 @ 07:14:55

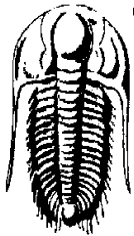
Job Ticket #: 49057 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:31:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

ATTN: Saman ShariFaie

Job Ticket: 49057

DST#: 6

Test Start: 2013.10.10 @ 19:24:00

GENERAL INFORMATION:

Formation: **L Pawnee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:10

Time Test Ended: 07:14:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4365.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 799.93 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.10

End Date:

2013.10.11

Last Calib.:

2013.10.11

Start Time: 19:24:00

End Time:

07:14:55

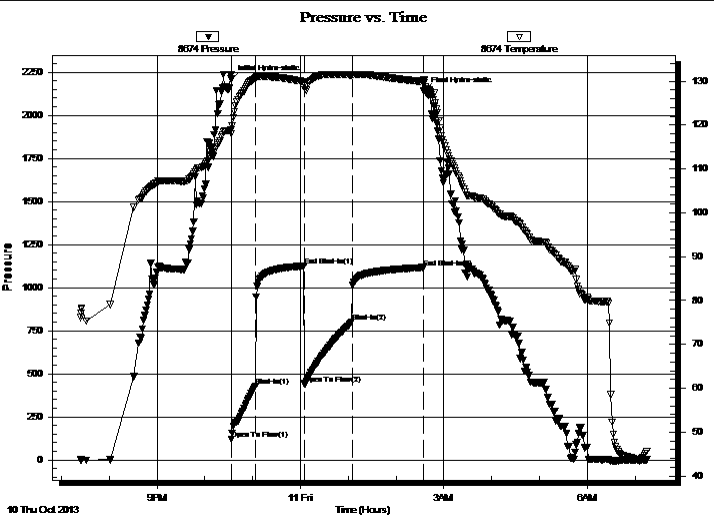
Time On Btm:

2013.10.10 @ 22:32:55

Time Off Btm:

2013.10.11 @ 02:34:54

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4 min
 IS- Weak Surface Blow Built to BOB in 3 1/2 min (Gas to Surface in 40 min)
 FF- Surface Blow Built to BOB in 2 3/4 min (Gas to Weak to Guage)
 FS- Surface Blow Built to BOB in 2 1/2 min



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2209.65 | 118.83 | Initial Hydro-static |
| 1 | 118.15 | 118.06 | Open To Flow (1) |
| 31 | 425.61 | 130.63 | Shut-In(1) |
| 92 | 1125.86 | 129.86 | End Shut-In(1) |
| 92 | 438.57 | 129.28 | Open To Flow (2) |
| 152 | 799.93 | 131.35 | Shut-In(2) |
| 242 | 1116.25 | 129.87 | End Shut-In(2) |
| 242 | 2140.23 | 130.23 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 620.00 | WGMCO 3%w 26%g 34%m 37%oil | 6.16 |
| 372.00 | MGCO 19%m 36%g 45%oil | 5.22 |
| 248.00 | MGCO 12%m 27%g 61%oil | 3.48 |
| 682.00 | MGCO 3%m 39%g 58%oil | 9.57 |
| 268.00 | GO 22%g 78%oil | 3.76 |
| 0.00 | 2062 of 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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49057

DST#: 6

ATTN: Saman ShariFaie

Test Start: 2013.10.10 @ 19:24:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4085.00 ft | Diameter: 3.80 inches | Volume: 57.30 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 16000.00 lb |
| | | | <u>Total Volume: 58.67 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial 72000.00 lb |
| Depth to Top Packer: | 4365.00 ft | | | Final 78000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 135.00 ft | | | |
| Tool Length: | 163.00 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 | | | 4338.00 | |
| Shut In Tool | 5.00 | | | 4343.00 | |
| Hydraulic tool | 5.00 | | | 4348.00 | |
| Jars | 5.00 | | | 4353.00 | |
| Safety Joint | 3.00 | | | 4356.00 | |
| Packer | 5.00 | | | 4361.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4365.00 | |
| Stubb | 1.00 | | | 4366.00 | |
| Recorder | 0.00 | 8355 | Outside | 4366.00 | |
| Recorder | 0.00 | 8674 | Inside | 4366.00 | |
| Perforations | 29.00 | | | 4395.00 | |
| Change Over Sub | 1.00 | | | 4396.00 | |
| Drill Pipe | 95.00 | | | 4491.00 | |
| Change Over Sub | 1.00 | | | 4492.00 | |
| Perforations | 3.00 | | | 4495.00 | |
| Bullnose | 5.00 | | | 4500.00 | 135.00 Bottom Packers & Anchor |
| Total Tool Length: | 163.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49057

DST#: 6

ATTN: Saman ShariFaie

Test Start: 2013.10.10 @ 19:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 620.00 | WGMCO 3%w 26%g 34%m 37%oil | 6.165 |
| 372.00 | MGCO 19%m 36%g 45%oil | 5.218 |
| 248.00 | MGCO 12%m 27%g 61%oil | 3.479 |
| 682.00 | MGCO 3%m 39%g 58%oil | 9.567 |
| 268.00 | GO 22%g 78%oil | 3.759 |
| 0.00 | 2062 of GIP | 0.000 |

Total Length: 2190.00 ft Total Volume: 28.188 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 36 @ 49f = 38

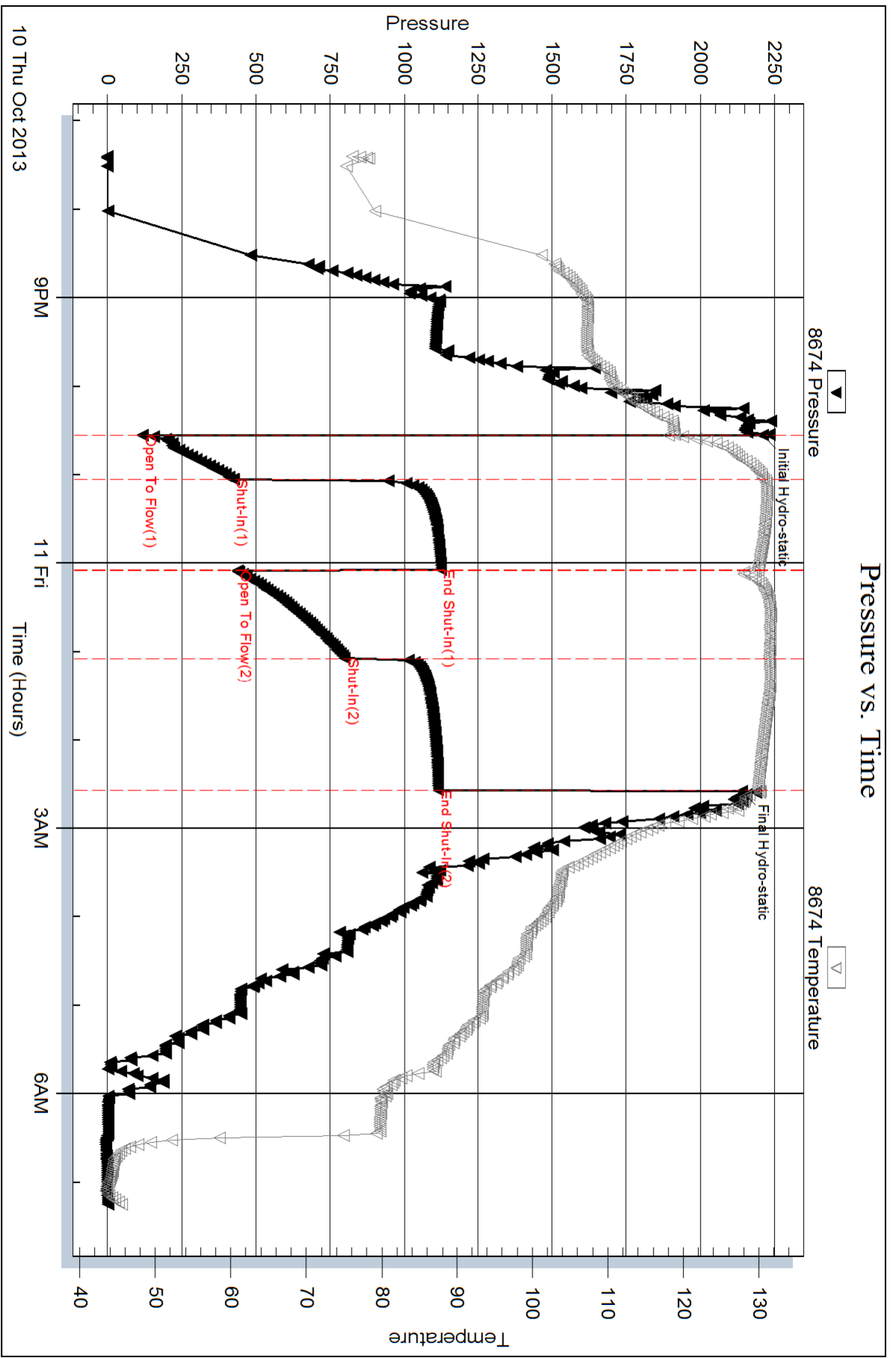
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 6

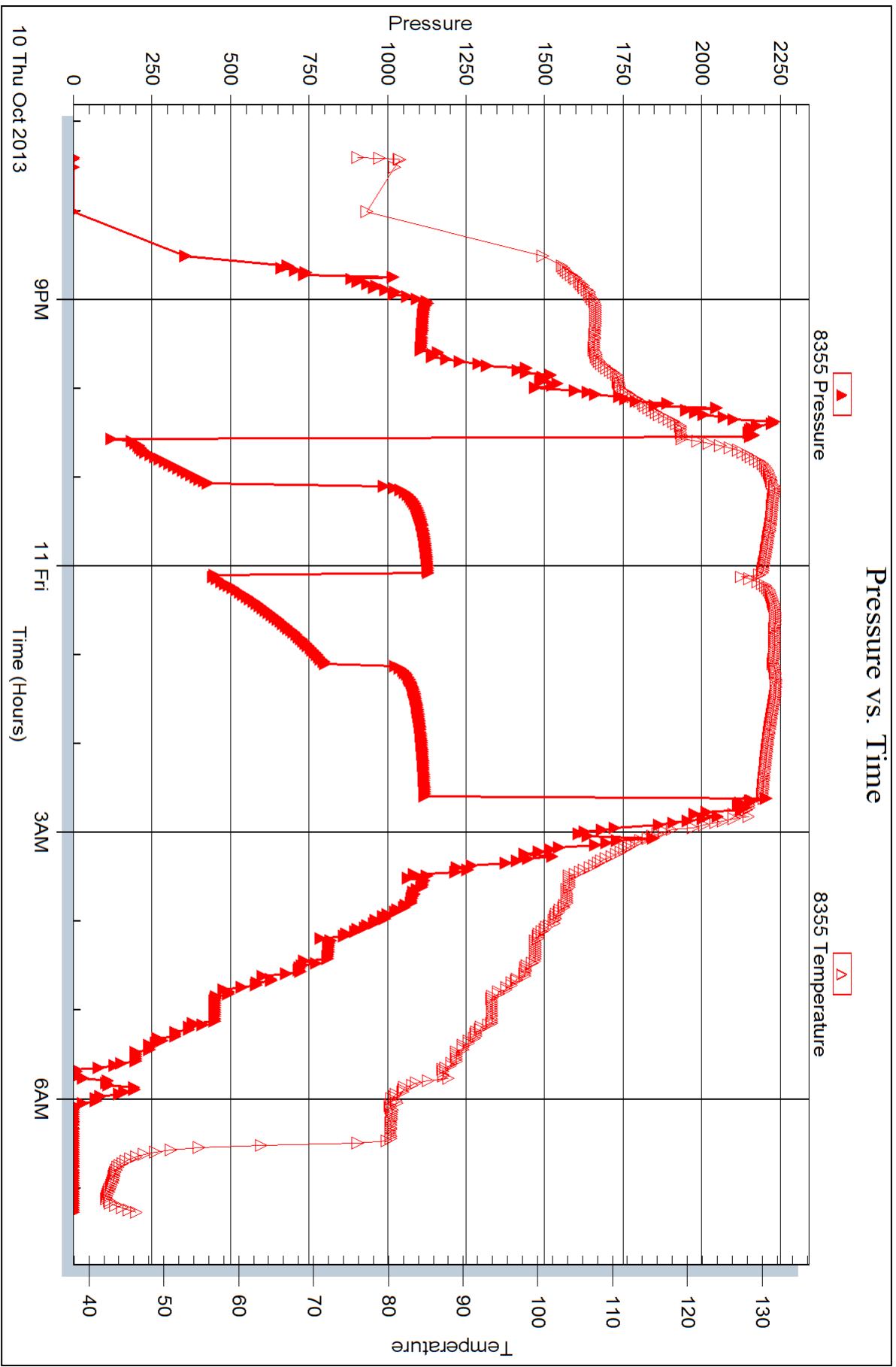


Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 6





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Saman ShariFaie

Abell Ranch #2-25

25-12s-31w Gove,KS

Start Date: 2013.10.11 @ 15:44:00

End Date: 2013.10.12 @ 00:30:10

Job Ticket #: 49058 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.15 @ 10:28:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49058

DST#: 7

ATTN: Saman ShariFaie

Test Start: 2013.10.11 @ 15:44:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:25

Time Test Ended: 00:30:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4512.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 2885.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

2874.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 102.15 psig @ 4515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.11

End Date:

2013.10.12

Last Calib.:

2013.10.12

Start Time: 15:44:00

End Time:

00:30:10

Time On Btm:

2013.10.11 @ 17:48:10

Time Off Btm:

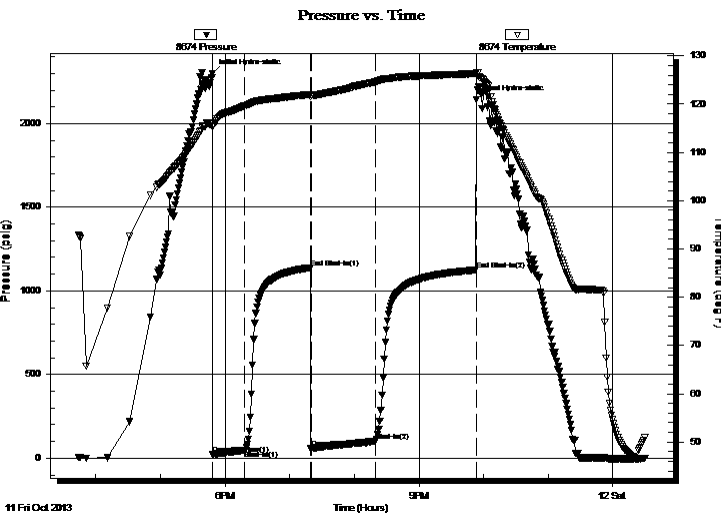
2013.10.11 @ 21:53:39

TEST COMMENT: IF- Weak Surface Blow Built to 3"

IS- No Blow

FF- Weak Surface Blow Built to 4 1/4"

FS- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2299.13 | 116.15 | Initial Hydro-static |
| 1 | 22.21 | 115.24 | Open To Flow (1) |
| 31 | 47.50 | 119.64 | Shut-In(1) |
| 91 | 1138.62 | 122.01 | End Shut-In(1) |
| 93 | 58.90 | 121.76 | Open To Flow (2) |
| 152 | 102.15 | 124.66 | Shut-In(2) |
| 245 | 1124.94 | 126.32 | End Shut-In(2) |
| 246 | 2141.60 | 126.58 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 62.00 | WGOCM 4%w 14%g 18%oil 64%m | 0.30 |
| 62.00 | WGMCO 2%w 20%g 29%m 49%oil | 0.30 |
| 62.00 | GMCO 24%g 35%m 41%oil | 0.30 |
| 5.00 | GOCM 3%g 39%oil 58%m | 0.02 |
| 0.00 | 181' of 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. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49058

DST#: 7

ATTN: Saman ShariFaie

Test Start: 2013.10.11 @ 15:44:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4214.00 ft | Diameter: 3.80 inches | Volume: 59.11 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 278.00 ft | Diameter: 2.25 inches | Volume: 1.37 bbl | Weight to Pull Loose: 12000.00 lb |
| | | | <u>Total Volume: 60.48 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4512.00 ft | | | Final 70000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 18.00 ft | | | |
| Tool Length: | 46.00 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 | | | 4485.00 | |
| Shut In Tool | 5.00 | | | 4490.00 | |
| Hydraulic tool | 5.00 | | | 4495.00 | |
| Jars | 5.00 | | | 4500.00 | |
| Safety Joint | 3.00 | | | 4503.00 | |
| Packer | 5.00 | | | 4508.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4512.00 | |
| Stubb | 1.00 | | | 4513.00 | |
| Perforations | 2.00 | | | 4515.00 | |
| Recorder | 0.00 | 8355 | Outside | 4515.00 | |
| Recorder | 0.00 | 8674 | Inside | 4515.00 | |
| Perforations | 10.00 | | | 4525.00 | |
| Bullnose | 5.00 | | | 4530.00 | 18.00 Bottom Packers & Anchor |

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

25-12s-31w Gove,KS

250 N. Water Ste 300
Wichita KS. 67202

Abell Ranch #2-25

Job Ticket: 49058

DST#: 7

ATTN: Saman ShariFaie

Test Start: 2013.10.11 @ 15:44:00

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: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 62.00 | WGOCM 4%w 14%g 18%oil 64%m | 0.305 |
| 62.00 | WGMCO 2%w 20%g 29%m 49%oil | 0.305 |
| 62.00 | GMCO 24%g 35%m 41%oil | 0.305 |
| 5.00 | GOCM 3%g 39%oil 58%m | 0.025 |
| 0.00 | 181' of GIP | 0.000 |

Total Length: 191.00 ft

Total Volume: 0.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

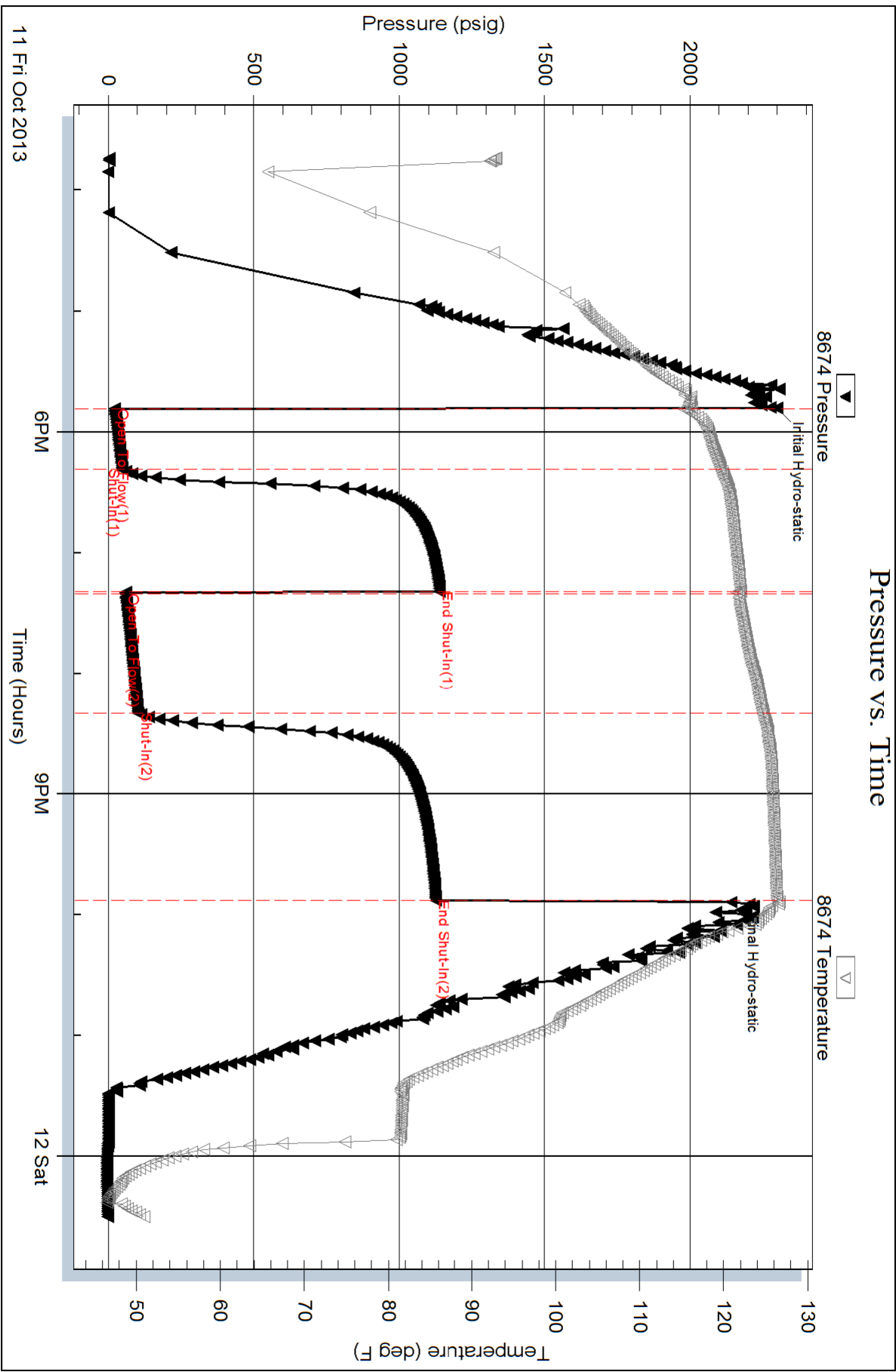
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 7

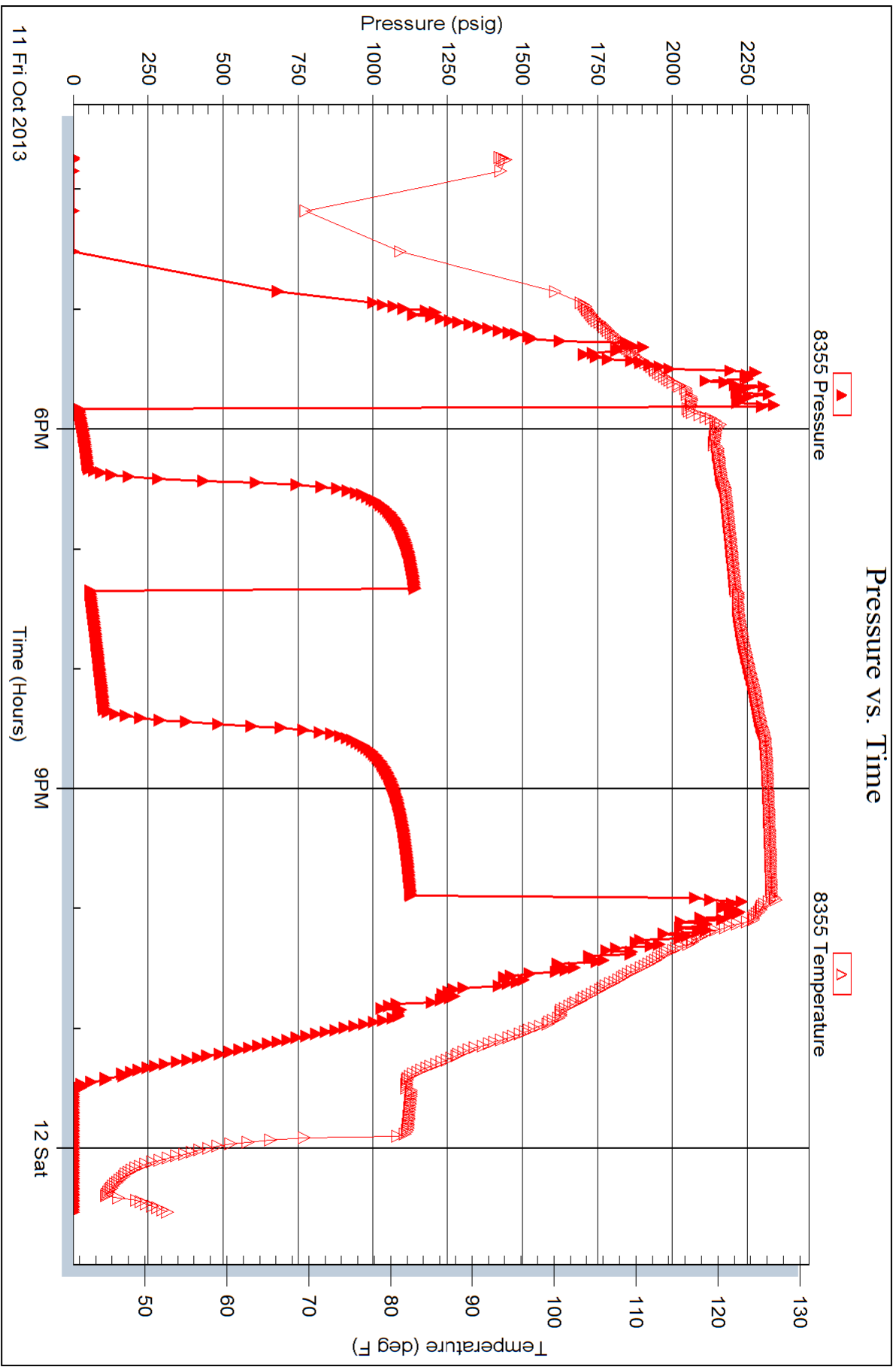


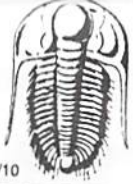
Serial #: 8355

Outside Murfin Drilling Co. Inc

Abell Ranch #2-25

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49052

Well Name & No. Abell Ranch #2-25 Test No. DST #1 Date 10-5-13
 Company Murfin Drilling Co Inc Elevation 2885 KB 2874 GL _____
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman SharifAve Rig Murfin 21
 Location: Sec. 25 Twp. 12s Rge. 31w Co. Gove State KS

Interval Tested 3788-3857 Zone Tested LeCompton
 Anchor Length 69 Drill Pipe Run 3490 Mud Wt. 9.0
 Top Packer Depth 3784 Drill Collars Run 278 Vis 48
 Bottom Packer Depth 3788 Wt. Pipe Run 0 WL 6.8
 Total Depth 3857 Chlorides 1400 ppm System LCM 416
 Blow Description IF- Weak Surface Blow Built to 5"
ISI- No Blow
FF- Weak Surface Blow Built to 7"
FSI- No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-------------------------------|------------|------------|--------------|------------|
| <u>72</u> | <u>Mud with a skin of 0.1</u> | | | | |
| <u>124</u> | <u>OCM</u> | | <u>3</u> | | <u>97</u> |
| <u>124</u> | <u>WGOCM</u> | <u>3</u> | <u>3</u> | <u>2</u> | <u>92</u> |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |
| Rec _____ | Feet of _____ | %gas _____ | %oil _____ | %water _____ | %mud _____ |

Rec Total 320 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1882 Test 1150 T-On Location 19:58
 (B) First Initial Flow 30 Jars 250 T-Started 21:26
 (C) First Final Flow 89 Safety Joint 75 T-Open 23:23
 (D) Initial Shut-In 1206 Circ Sub N/C T-Pulled 3:25
 (E) Second Initial Flow 103 Hourly Standby _____ T-Out 5:33
 (F) Second Final Flow 176 Mileage 88 RIT 136.40 Comments _____
 (G) Final Shut-In 1192 Sampler _____
 (H) Final Hydrostatic 1785 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1931.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1611.40

Approved By _____ Our Representative Will Mas

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49053

Well Name & No. Abell Ranch #2-25 Test No. DST #2 Date 10-6-13
 Company Murfin Drilling Co. Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin Rig 21
 Location: Sec. 25 Twp. 12S Rge. 31W Co. Gove State KS

Interval Tested 3896-3990 Zone Tested Toronto / LRC "A-B"
 Anchor Length 94 Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3892 Drill Collars Run 278 Vis 45
 Bottom Packer Depth 3896 Wt. Pipe Run 0 WL 6.0
 Total Depth 3990 Chlorides 1800 ppm System LCM 416

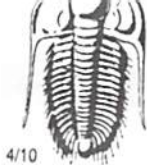
Blow Description IF- Weak Surface Blow Built to 1 1/2"
ISI- No Blow
FF- Weak Surface Blow Built to 1/4"
FSI- No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------------------------------|------------|------------|--------------|------------|
| <u>124</u> | <u>Mud a Few Oil Spots in Tool</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 124 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1933</u> | <input checked="" type="checkbox"/> Test 1150 | T-On Location <u>18:30</u> |
| (B) First Initial Flow <u>23</u> | <input checked="" type="checkbox"/> Jars 250 | T-Started <u>18:58</u> |
| (C) First Final Flow <u>48</u> | <input checked="" type="checkbox"/> Safety Joint 75 | T-Open <u>20:46</u> |
| (D) Initial Shut-In <u>1181</u> | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u> | T-Pulled <u>23:49</u> |
| (E) Second Initial Flow <u>57</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>1:47</u> |
| (F) Second Final Flow <u>83</u> | <input checked="" type="checkbox"/> Mileage <u>88 RIT</u> 136.40 | Comments _____ |
| (G) Final Shut-In <u>1165</u> | <input type="checkbox"/> Sampler _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| (H) Final Hydrostatic <u>1834</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Packer _____ |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer _____ | Sub Total <u>0</u> |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder _____ | Total <u>1611.40</u> |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Day Standby _____ | MP/DST Disc't _____ |
| | <input type="checkbox"/> Accessibility _____ | |
| | Sub Total <u>1611.40</u> | |

Approved By _____ Our Representative Neil M...
 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49054

Well Name & No. Abell Ranch #2-25 Test No. DST #3 Date 10-7-13
 Company Martin Drilling Co. Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Saman ShairFaie Rig Martin Rg #21
 Location: Sec. 25 Twp. 12s Rge. 31w Co. Gove State KS

Interval Tested 3990-4041 Zone Tested LRC D-F
 Anchor Length 51 Drill Pipe Run 3710 Mud Wt. 9.0
 Top Packer Depth 3986 Drill Collars Run 278 Vis 45
 Bottom Packer Depth 3990 Wt. Pipe Run 0 WL 6.0
 Total Depth 4041 Chlorides 1800 ppm System LCM 416

Blow Description IF - Weak Surface Blow 1/4"
ISI - No Blow
FF - No Blow
FSI - No Blow

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

Rec Total 5 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2013
- (B) First Initial Flow 20
- (C) First Final Flow 23
- (D) Initial Shut-In 1094
- (E) Second Initial Flow 25
- (F) Second Final Flow 28
- (G) Final Shut-In 882
- (H) Final Hydrostatic 1892

- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub N/C
- Hourly Standby
- Mileage 88 RIT 136.40
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

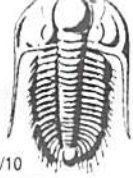
T-On Location 10:36
 T-Started 10:56
 T-Open 12:44
 T-Pulled 15:48
 T-Out 17:46

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1711.40
 MP/DST Disc't _____

Sub Total 1711.40

Approved By _____ Our Representative Will Madsen

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49055

Well Name & No. Abell Ranch #2-25 Test No. DST #4 Date 10-8-13
 Company Murfin Drilling Co Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin Rig #21
 Location: Sec. 25 Twp. 12s Rge. 31w Co. Cove State KS

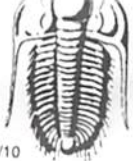
Interval Tested 4080-4190 Zone Tested LRC "H-K"
 Anchor Length 110 Drill Pipe Run 3804 Mud Wt. 9.3
 Top Packer Depth 4076 Drill Collars Run 278 Vis 70
 Bottom Packer Depth 4080 Wt. Pipe Run 0 WL 6.4
 Total Depth 4190 Chlorides 2000 ppm System LCM 516
 Blow Description IF - Weak Surface Blow Built to BOB in 21 1/2 min
ISI - No Blow
FF - Weak Surface Blow Built to BOB in 28 min
FSI - Weak Surface Blow in 24 min Built to 2"

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|-------------|------|------|--------|------|
| 93 | OGCM | 5 | 3 | 92 | |
| 124 | OMCG | 55 | 11 | 34 | |
| 124 | WOGCM | 15 | 5 | 77 | |
| 186 | OGWCM | 12 | 4 | 62 | |
| | 403' of GIP | | | | |

Rec Total 527 BHT 121 Gravity API RW, 143 @ 67 °F Chlorides 54000 ppm

(A) Initial Hydrostatic 2034 Test 1250 T-On Location 12:50
 (B) First Initial Flow 31 Jars 250 T-Started 13:06
 (C) First Final Flow 163 Safety Joint 75 T-Open 15:07
 (D) Initial Shut-In 1251 Circ Sub NIC T-Pulled 19:12
 (E) Second Initial Flow 175 Hourly Standby T-Out 21:36
 (F) Second Final Flow 260 Mileage 88 R/T 136.40 Comments _____
 (G) Final Shut-In 1239 Sampler _____
 (H) Final Hydrostatic 1934 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1711.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1711.40

Approved By _____ Our Representative Will Mack
 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.



TRIBOLITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49056

Well Name & No. Abell Ranch Test No. DST #5 Date 10-9-13
 Company Murkin Drilling Co Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman ShairFaire Rig Murkin Rigs #21
 Location: Sec. 25 Twp. Ds Rge. 31w Co. Cove State KS

Interval Tested 4196 - 4235 Zone Tested LRC "L" / X Line
 Anchor Length 39 Drill Pipe Run 3898 Mud Wt. 9.3
 Top Packer Depth 4192 Drill Collars Run 278 Vis 70
 Bottom Packer Depth 4196 Wt. Pipe Run 0 WL 6.4
 Total Depth 4235 Chlorides 2000 ppm System LCM 516

Blow Description IF- Wear Surface Blow Built to BOB in 24 1/4 min
ISI- No Blow
FF- Wear Surface Blow Built to BOB in 34 min
FSI- No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|----------------------------------|------|------|-----------|-----------|
| <u>77</u> | <u>WCM</u> | | | <u>18</u> | <u>82</u> |
| <u>62</u> | <u>MCW WCM</u> | | | <u>52</u> | <u>49</u> |
| <u>186</u> | <u>MCW</u> | | | <u>52</u> | <u>49</u> |
| <u>248</u> | <u>MCW</u> Few oil spots in Tool | | | <u>66</u> | <u>34</u> |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 573 BHT 125 Gravity _____ API RW 104 @ 83 °F Chlorides 59000 ppm

(A) Initial Hydrostatic 2106 Test 1250 T-On Location 5:48
 (B) First Initial Flow 24 Jars 250 T-Started 6:10
 (C) First Final Flow 170 Safety Joint 75 T-Open 7:54
 (D) Initial Shut-In 1183 Circ Sub NIC T-Pulled 11:56
 (E) Second Initial Flow 174 Hourly Standby _____ T-Out 14:10
 (F) Second Final Flow 283 Mileage 88 R/T 136.40
 (G) Final Shut-In 1166 Sampler _____
 (H) Final Hydrostatic 2042 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

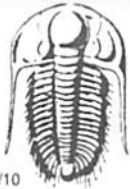
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 1711.40

Total 1711.40
 MP/DST Disc't _____

Approved By _____ Our Representative Will Mu

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49057

Well Name & No. Abell Ranch #2-25 Test No. DST #6 Date 10-10-13
 Company Murfin Drilling Co Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin R.s #21
 Location: Sec. 25 Twp. 12S Rge. 31W Co. Grove State KS

Interval Tested 4365 - 4500 Zone Tested L Pawnee - Johnson
 Anchor Length 135 Drill Pipe Run 4085 Mud Wt. 9.1
 Top Packer Depth 4361 Drill Collars Run 278 Vis 58
 Bottom Packer Depth 4365 Wt. Pipe Run 0 WL 6.8
 Total Depth 4500 Chlorides 2100 ppm System LCM 516

Blow Description IF- Surface Blow Built to BOB in 2 1/4 min
ISF- Weak Surface Blow Built to BOB in 3 1/2 min (Gas to Surface in 40 min)
FF- Surface Blow Built to BOB in 2 3/4 min
FSI- Surface Blow Built to BOB in 2 1/2 min

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|---------------|-----------|-----------|----------|-----------|
| <u>268</u> | <u>G-O</u> | <u>22</u> | <u>78</u> | | |
| <u>682</u> | <u>MG-CO</u> | <u>39</u> | <u>58</u> | | <u>3</u> |
| <u>248</u> | <u>MG-CO</u> | <u>27</u> | <u>61</u> | | <u>12</u> |
| <u>372</u> | <u>MG-CO</u> | <u>36</u> | <u>45</u> | | <u>19</u> |
| <u>620</u> | <u>MG-MCO</u> | <u>26</u> | <u>37</u> | <u>3</u> | <u>34</u> |

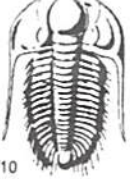
Rec Total 2190 BHT 130 Gravity 38 API RW @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|-------------------------------|
| (A) Initial Hydrostatic <u>2209</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>16:34</u> |
| (B) First Initial Flow <u>118</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>19:24</u> |
| (C) First Final Flow <u>425</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>22:33</u> |
| (D) Initial Shut-In <u>1125</u> | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u> | T-Pulled <u>2:34</u> |
| (E) Second Initial Flow <u>438</u> | <input checked="" type="checkbox"/> Hourly Standby <u>3.5h 350</u> | T-Out <u>7:14</u> |
| (F) Second Final Flow <u>799</u> | <input checked="" type="checkbox"/> Mileage <u>88 RIT 136.40</u> | Comments <u>short tripped</u> |
| (G) Final Shut-In <u>1116</u> | <input type="checkbox"/> Sampler _____ | <u>API is 36 @ 40F = 38</u> |
| (H) Final Hydrostatic <u>2140</u> | <input type="checkbox"/> Straddle _____ | <u>2062' of G-IP</u> |

| | | |
|---------------------------|--|--|
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Final Flow <u>60</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>75</u> |
| Final Shut-In <u>90</u> | <input type="checkbox"/> Day Standby <u>1d 2.25h</u> | Total <u>2136.40</u> |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>2061.40</u> | |

Approved By _____

Our Representative Will Mae



TRIBOLITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49058

Well Name & No. Abell Ranch # 2-25 Test No. DST #7 Date 10-11-13
 Company Murfin Drilling Co. Inc Elevation 2885 KB 2874 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin Rig #21
 Location: Sec. 25 Twp. 12S Rge. 31W Co. Gove State KS

Interval Tested 4512 - 4530 Zone Tested Mississippi
 Anchor Length 18 Drill Pipe Run 4214 Mud Wt. 9.3
 Top Packer Depth 4508 Drill Collars Run 278 Vis 75
 Bottom Packer Depth 4512 Wt. Pipe Run 0 WL 6.4
 Total Depth 4530 Chlorides 2600 ppm System LCM 616
 Blow Description IF- Weak Surface Blow Built to 3"
ISI- No Blow
FF-

FSI - No Blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|---------------------|-------------|-------------|---------------|-------------|
| <u>5</u> | <u>G-OCM</u> | <u>3</u> | <u>39</u> | <u>58</u> | <u></u> |
| <u>62</u> | <u>G-MCO</u> | <u>24</u> | <u>41</u> | <u>35</u> | <u></u> |
| <u>62</u> | <u>WG-MCO</u> | <u>20</u> | <u>49</u> | <u>2</u> | <u>29</u> |
| <u>62</u> | <u>WG-OCM</u> | <u>14</u> | <u>18</u> | <u>4</u> | <u>64</u> |
| <u>Rec</u> | <u>Feet of</u> | <u>%gas</u> | <u>%oil</u> | <u>%water</u> | <u>%mud</u> |
| <u>191</u> | <u>181' of G-IP</u> | | | | |

Rec Total 191 BHT 128 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2299 Test 1250 T-On Location 15:14
 (B) First Initial Flow 22 Jars 250 T-Started 15:44
 (C) First Final Flow 47 Safety Joint 75 T-Open 17:48
 (D) Initial Shut-In 1138 Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out 00:30
 (F) Second Final Flow 102 Mileage 88 RIT 136.40 Comments _____
 (G) Final Shut-In 1124 Sampler _____
 (H) Final Hydrostatic 2141 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1711.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1711.40

Approved By _____

Our Representative Will Mas

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PO Box 93999
Southlake, TX 76092

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

LH

INVOICE

Invoice Number: 138996
Invoice Date: Oct 2, 2013
Page: 1

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

Now Includes:



| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Murfin | 61115 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | Oct 2, 2013 | 11/1/13 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|------------------------|------------|----------|
| 170.00 | CEMENT MATERIALS | Abel Ranch #2-25 | | |
| | | Class A Common | 17.90 | 3,043.00 |
| 6.00 | CEMENT MATERIALS | Chloride | 64.00 | 384.00 |
| 178.50 | CEMENT SERVICE | Cubic Feet | 2.48 | 442.68 |
| 160.00 | CEMENT SERVICE | Ton Mileage | 2.60 | 416.00 |
| 1.00 | CEMENT SERVICE | Surface | 1,512.25 | 1,512.25 |
| 20.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 154.00 |
| 1.00 | CEMENT SERVICE | Swedge Manifold Rental | 360.00 | 360.00 |
| 20.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 88.00 |
| 1.00 | CEMENT SUPERVISOR | Kelly Gabel | | |
| 1.00 | EQUIPMENT OPERATOR | Wayne McGhghy | | |
| 1.00 | OPERATOR ASSISTANT | Mike McKampson | | |

QKDD

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

\$ 2,240.06

ONLY IF PAID ON OR BEFORE

Oct 27, 2013

| | |
|------------------------|-----------------|
| Subtotal | 6,399.93 |
| Sales Tax | 270.73 |
| Total Invoice Amount | 6,670.66 |
| Payment/Credit Applied | |
| TOTAL | 6,670.66 |

ALLIED OIL & GAS SERVICES, LLC 061115

Federal Tax I.D. # 20-8851475

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

SERVICE POINT:

Oakley, KS
10-3-13 10-8-13

| | | | | | | | |
|---|--------------------|--|-----------------|---------------------------|-----------------------------|---------------------------|-------------------------|
| DATE <u>10-2-13</u> | SEC. <u>25</u> | TWP. <u>12</u> | RANGE <u>31</u> | CALLED OUT <u>4:00 PM</u> | ON LOCATION <u>10:30 PM</u> | JOB START <u>11:00 AM</u> | JOB FINISH <u>11:30</u> |
| LEASE <u>Wood County</u> | WELL # <u>2-25</u> | LOCATION <u>Oakley 5 to coverd E to Rd</u> | | | COUNTY <u>Wood</u> | STATE <u>KS</u> | |
| OLD OR <input checked="" type="checkbox"/> NEW (Circle one) | | | | | | | |

CONTRACTOR Martin
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 224'
 CASING SIZE 8 5/8 DEPTH 224'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13 1/4

OWNER same
 CEMENT
 AMOUNT ORDERED 170 SKS cement

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 422 HELPER Wayne McShigby
 BULK TRUCK
 # 378 DRIVER Mike McKampson
 BULK TRUCK
 # _____ DRIVER _____

COMMON 170 SKS @ 17.50 = 3045.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 6 SKS @ 6.40 = 38.40
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 178.5 cu ft @ 2.48 = 442.68
 MILEAGE 92 mi x 24 mi x 2.60 = 416.00
 TOTAL 4285.68

REMARKS:
Got to location, safety meeting
regarding
mixed cement & displaced with water
shut in
rigged down
Cement did circulate
Thank you
to crew

SERVICE
 DEPTH OF JOB _____ 224'
 PUMP TRUCK CHARGE _____ 1517.50
 EXTRA FOOTAGE _____ @ _____
 MILEAGE M LV 20 @ 4.40 = 88.00
 MANIFOLD Sueedge @ 360.00
M HV 20 @ 7.70 = 154.00
 _____ @ _____

CHARGE TO: Martin
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2114.50

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.

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

PRINTED NAME Juan Tinoco
 SIGNATURE Juan Tinoco

SALES TAX (If Any) _____
 TOTAL CHARGES 6,400.18
 DISCOUNT 2,240.06 IF PAID IN 30 DAYS
4,160.12 Net.



CONSOLIDATED
Oil Well Services, LLC

Accty —
cc: WF
cc: hix
cc: L-1

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 # 263429

Invoice Date: 10/28/2013 Terms: 10/10/30,n/30

Page 1

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

USED FOR 1C103
APPROVED [Signature]

ABELL RANCH 2-25
44449
25-12S-31W
10-23-2013
KS

| Part Number | Description | Qty | Unit Price | Total |
|-------------|-------------------------|--------|------------|---------|
| 1104S | CLASS "A" CEMENT (SALE) | 200.00 | 18.5500 | 3710.00 |
| 1102 | CALCIUM CHLORIDE (50#) | 376.00 | .9400 | 353.44 |
| 1101 | CAL SEAL | 376.00 | .5200 | 195.52 |
| 1111A | SODIUM METASILICATE | 376.00 | 2.5200 | 947.52 |
| 1118B | PREMIUM GEL / BENTONITE | 776.00 | .2700 | 209.52 |
| 1107 | FLO-SEAL (25#) | 50.00 | 2.9700 | 148.50 |

| Sublet Performed | Description | Total |
|------------------|---------------------------|---------|
| 9996-130 | CEMENT MATERIAL DISCOUNT | -556.45 |
| 9995-130 | CEMENT EQUIPMENT DISCOUNT | -232.00 |

| Description | Hours | Unit Price | Total |
|---------------------------------------|-------|------------|---------|
| 399 SQUEEZE PUMP (KICK OFF PLUG PUMP) | 1.00 | 1785.00 | 1785.00 |
| 399 EQUIPMENT MILEAGE (ONE WAY) | 20.00 | 5.25 | 105.00 |
| T-127 MIN. BULK DELIVERY | 1.00 | 430.00 | 430.00 |

Amount Due 8324.09 if paid after 11/27/2013

| | | | | | | | |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 5564.50 | Freight: | .00 | Tax: | 395.63 | AR | 7491.68 |
| Labor: | .00 | Misc: | .00 | Total: | 7491.68 | | |
| Sublt: | -788.45 | Supplies: | .00 | Change: | .00 | | |

Signed _____

Date _____



263429

TICKET NUMBER 44449
 LOCATION OAKLEY KS.
 FOREMAN DAMON MILLER
WALT DINKEL

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

FIELD TICKET & TREATMENT REPORT
 CEMENT

KANSAS

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|-----------------------------|------------|--------------------|-----------|----------|--------|--------|
| 10-23-13 | 5406 | ABELL RANCH 2-25 | 25 | 125 | 31 W | GOVE |
| CUSTOMER MURFIN DRILLING | | | 60 1/2 RA | | | |
| MAILING ADDRESS | | | E TO | | | |
| CITY | | | 22 RD | | | |
| STATE | | | 1/4 N | | | |
| ZIP CODE | | | W/S IN | | | |
| | | TRUCK # | DRIVER | TRUCK # | DRIVER | |
| | | 399 | DANE | | | |
| | | 528 T-127 | JERRY | | | |
| | | RIDE ALONG | DJ | | | |

JOB TYPE PORT COLLAR HOLE SIZE 7 7/8 HOLE DEPTH 2557 CASING SIZE & WEIGHT 5 1/2 15.5#
 CASING DEPTH 2557 DRILL PIPE _____ TUBING 2" OTHER P.C. 2396
 SLURRY WEIGHT 11.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 1 BAR
 DISPLACEMENT 9.2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting Rig up on well pressure test @ 1200#
RELEASED TOOL CHECK FOR BLOW THEN MIXED 8 BAGS OF BELTREN
MIXED 200 SKS COMO K# FLOSEAL DISPLACED WITH 8 BAR OF H2O SHUT IN
PRESSURED UP TO 1200# HELD RELEASED PRESSURE RAN 5 JOINTS OF
TUBING THEN REVERSED OUT WASHED UP AND RIGGED DOWN

CEMENT DID CIRC.

THANK YOU DAMON WALT CREW

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401B | 1 | PUMP CHARGE | 1785.00 | 1785.00 |
| 5400 | 20 | MILEAGE | 5.25 | 105.00 |
| 5407 | 9.4 ton | LOW MILEAGE DELIVERY (MIN) | 1.75 | 430.00 |
| 1104S | 200 SKS | COM | 18.55 | 3710.00 |
| 1102 | 376# E | CALCIUM CHLORIDE | .94 | 353.44 |
| 1101 | 376# | PLASTER | .52 | 195.52 |
| 111A | 376# | SODIUM METACILICATE | 2.52 | 947.52 |
| 111BB | 776# | GEL | .27 | 209.52 |
| 1107 | 50# | FLOSEAL | 2.97 | 148.50 |
| | | | | 7884.50 |
| | | completed | LESS 10% 788.45 | 7096.05 |
| | | 7.9% | SALES TAX | 395.63 |
| | | | ESTIMATED TOTAL | 7491.68 |

Revin 9737

AUTHORIZATION

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.

Accts — r.l.in cc WF a: L-1



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 # 263187

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

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

ABELL RANCH 2-25
44445
25-12S-31W
10-12-2013
KS

USED FOR IC 103
APPROVED [Signature]

| 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 |
| 1107 | FLO-SEAL (25#) | 56.00 | 2.9700 | 166.32 |
| 1102 | CALCIUM CHLORIDE (50#) | 240.00 | .9400 | 225.60 |
| 1111A | SODIUM METASILICATE | 200.00 | 2.5200 | 504.00 |
| 1142A | KCL SUB MB6875 CC3107 (1 | 2.00 | 41.1000 | 82.20 |
| 1135A | FL- 115 (FLUID LOSS) | 53.00 | 11.0800 | 587.24 |
| 1146 | CAF - 38 | 32.00 | 10.2000 | 326.40 |
| 4159 | FLOAT SHOE AFU 5 1/2" | 1.00 | 433.7500 | 433.75 |
| 4454 | 5 1/2" LATCH DOWN PLUG | 1.00 | 318.2500 | 318.25 |
| 4104 | CEMENT BASKET 5 1/2" | 1.00 | 290.0000 | 290.00 |
| 4285 | 5 1/2" PORT COLLAR | 1.00 | 2178.7500 | 2178.75 |
| 4130 | CENTRALIZER 5 1/2" | 10.00 | 61.0000 | 610.00 |
| 4310 | 5 1/2' ROTATOR | 1.00 | 150.0000 | 150.00 |
| 4315 | ROTATING SCRATCHERS | 25.00 | 94.5000 | 2362.50 |

| Sublet Performed | Description | Total |
|------------------|---------------------------|----------|
| 9996-130 | CEMENT MATERIAL DISCOUNT | -1419.75 |
| 9995-130 | CEMENT EQUIPMENT DISCOUNT | -371.00 |

| | Description | Hours | Unit Price | Total |
|-----|-----------------------------|-------|------------|---------|
| 399 | SINGLE PUMP | 1.00 | 3175.00 | 3175.00 |
| 399 | EQUIPMENT MILEAGE (ONE WAY) | 20.00 | 5.25 | 105.00 |
| 566 | MIN. BULK DELIVERY | 1.00 | 430.00 | 430.00 |

Amount Due 19029.12 if paid after 11/14/2013

| | | | | | | | |
|--------|----------|-----------|-----|---------|----------|----|----------|
| Parts: | 14197.51 | Freight: | .00 | Tax: | 1009.45 | AR | 17126.21 |
| Labor: | .00 | Misc: | .00 | Total: | 17126.21 | | |
| Sublt: | -1790.75 | Supplies: | .00 | Change: | .00 | | |

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

263187

TICKET NUMBER **44445**

LOCATION **OAKLEY KS**

FOREMAN **DAMON M. TRAINING**
Fuzzy

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

FIELD TICKET & TREATMENT REPORT

CEMENT

KANSAS

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY | |
|-----------------|------------|--------------------|---------|----------|----------|---------|--------|
| 10-12-13 | 5406 | ABELL RANCH 2-25 | 25 | 12S | 31W | GOVE | |
| CUSTOMER | | WELL NAME & NUMBER | | SECTION | TOWNSHIP | RANGE | COUNTY |
| MURFIN DPLB | | GOVE RD | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDRESS | | E 10 RD | | 399 | TIM W | | |
| | | 221 1/4 N | | 566 | LODY R | | |
| | | WINTO | | | | | |
| CITY | STATE | ZIP CODE | | | | | |

JOB TYPE LONGSTRING HOLE SIZE 7 7/8 HOLE DEPTH 4600 CASING SIZE & WEIGHT 5 1/2 15.5#
 CASING DEPTH 4594 DRILL PIPE _____ TUBING _____ OTHER P.C. 2403
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 21.34
 DISPLACEMENT 108.83 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: SAFETY MEETING RIG UP ON MURFIN # 21 RAN FLOAT EQUIPMENT
CENT ON #1, 2, 3, 4, 6, 8, 10, 12, 14, 51 BASKET ON BOTTOM OF #52
P.C. ON #52 CIRC FOR A HALF AN HOUR ON JOINT #60 RIG UP TO
CIRCULATE 1 HR. MIX & PUMP CAUSTIC FLUSH MIX 175 SKS OWC W/
5# KOLSEAL 1/4# FLOSEAL 170 CFL 115 W/ DEFOMER WASH UP PUMP
AND LINES DROP PLUG AND DISPLACE 108 BAR OF H2O FIRST 20 BAR
MIXED W/ KCL PLUG LAND 900# LIFE LANDED @ 1500# SAT ON
PRESSURE FOR 3 MIN. RELEASED PRESSURE PLUG HELD
MIX 20 SKS MH
MIX 30 SKS RH

THANK YOU DAMON FUZZY CREW

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|------------|-----------|
| 5401C | 1 | PUMP CHARGE | 3175.00 | 3175.00 ✓ |
| 5406 | 20 | MILEAGE | 5.25 | 105.00 ✓ |
| 5407A | 10.6 | TON MILEAGE DELIVERY (MIN) | 1.75 | 430.00 ✓ |
| 1126 | 225 SKS | OWC | 23.70 | 5332.50 ✓ |
| 1110A | 1125# | KOLSEAL | 1.56 | 630.00 ✓ |
| 1107 | 56# | FLOSEAL | 2.97 | 166.32 ✓ |
| 1102 | 240# | CALCIUM CHLORIDE | 1.94 | 225.60 ✓ |
| 1111A | 200# | METASILICATE | 2.52 | 504.00 ✓ |
| 1142A | 2 GAL | KCL | 41.10 | 82.20 ✓ |
| 1135A | 53# | FL-115 | 11.08 | 587.24 ✓ |
| 1146 | 32# | CAF-38 | 10.20 | 326.46 ✓ |
| 4159 | 1 | 5 1/2 AEU FLOAT SHOE (I) | 433.75 | 433.75 ✓ |
| 4454 | 1 | 5 1/2 LATCHDOWN ASSY (I) | 318.25 | 318.25 ✓ |
| 4104 | 1 | 5 1/2 BASKET (W) | 290.00 | 290.00 ✓ |
| 4285 | 1 | 5 1/2 PORT COLLAR (I) | 2178.75 | 2178.75 ✓ |
| 4130 | 10 | 5 1/2 CENTRALIZERS (I) | 61.00 | 610.00 ✓ |
| 4310 | 1 | 5 1/2 ROTATOR | 150.00 | 150.00 ✓ |
| 4315 | 25 | 5' SCRATCHERS | 94.50 | 2362.50 ✓ |

SUBTOTAL 17,907.51 10% DISC 1790.75 TOTAL 16,116.76 ESTIMATED TOTAL 17126.21

AUTHORIZATION Wade King TITLE _____ DATE _____ TAX 1009.45 ✓ 7.90%

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 for