



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1167325
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
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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: _____



1167325

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



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

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

Sam Brownback, Governor

November 07, 2013

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

Re: ACO1
API 15-101-22461-00-00
Bentley 1-17
NE/4 Sec.17-16S-27W
Lane County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

MDCI
 Bentley #1-17
 660' FNL 1650' FEL
 Sec. 17-T16S-R27W
 2720' KB

Rains & Williamson Oil
 Bentley #1
 SE SE NW
 Sec. 17-T16S-R27W
 2729' KB

Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log Tops	Datum
Anhydrite	2150	+570	-3	2154	+566	-7	2156	+573
B/Anhydrite	2181	+539	-2	2186	+534	-7	2188	+541
Topeka	3715	-995	-3	3714	-994	-2	3721	-992
Heebner	3957	-1237	-5	3954	-1234	-2	3931	-1232
Lansing	3995	-1275	-3	3993	-1273	-1	4001	-1272
Stark	4242	-1522	-4	4239	-1519	-1	4247	-1518
Pawnee	4398	-1678	+3	4394	-1674	+7	4410	-1681
Mississippian	4590	-1870	+9	4581	-1861	+18	4608	-1879
RTD	4690						4650	
LTD				4687			4654	

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Martin Drilling Co., Inc.**
 LEASE **Barley #1-17**

FIELD **Widcat**
 LOCATION **660' ENL & 650' EFL**
 SEC **17** TWPSP **16S** RANG **27W**
 COUNTY **Line** STATE **Kansas**
 CONTRACTOR **Martin Drilling #21**
 RUD **09/09/13** COMP **09/18/13**
 RTD **4690'** LTD **4687'**
 MUD UP **3480'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3610'** TO RTD
 DRILLING TIME KEPT FROM **3610'** TO RTD
 SAMPLES EXAMINED FROM **3610'** TO RTD

GEOLOGICAL SUPERVISION FROM **3310'**
 REFERENCE WELL **Rains & Williamson Bentley #1**
 CND: DLI: MEL: SWIC

FORMATION **Flower Hill**

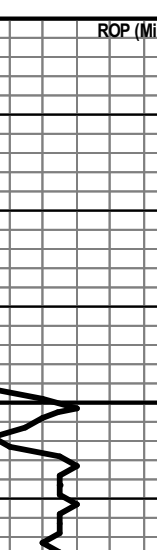
Formation	Sample Tops	E-log Tops	Feet
Anhydrite	2154 (+570)	2154 (+566)	-7
Base Anhydrite	2181 (+539)	2186 (+534)	-2
Topeka	3715 (+995)	3714 (+994)	-1
Heebner	3657 (+1237)	3654 (+1234)	-2
Lansing	3995 (+1273)	3993 (+1273)	-1
Stark	4242 (+1522)	4239 (+1519)	-7
Pawnee	4398 (+1678)	4394 (+1674)	-7
Ft Scott	4490 (+1774)	4490 (+1770)	-8
Mississippian	4590 (+1870)	4581 (+1861)	+8

ELEVATIONS
 KB 2720'

DF _____
 GL 2709'
 Measurements Are All From Kelly Bushline

CASING
 CONDUCTOR _____
 SURFACE 8-5/8" at 222'
 PRODUCTION NA

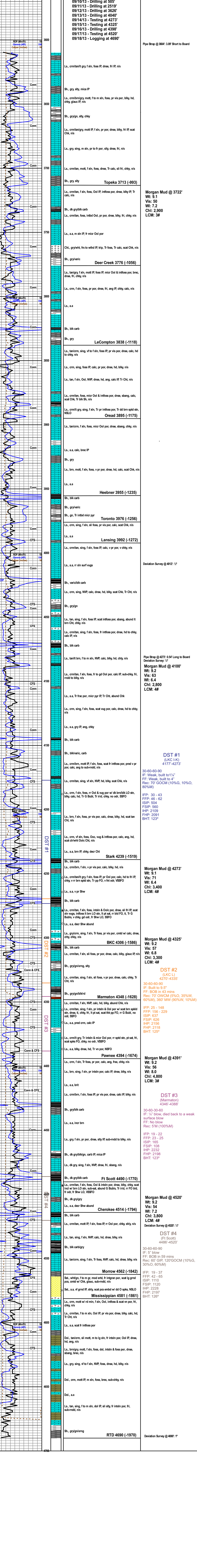
ELECTRICAL SURVEYS
 CND: DLI: MEL: SWIC
 REFERENCE WELL **Rains & Williamson Bentley #1**
 Flower Hill



REMARKS Due to very poor to poor shows of oil in multiple pay zones and negative DST results, it is recommended and agreed upon by all parties that this well shall be plugged and abandoned.

Respectfully Submitted,
 API #15-101-22461
 Saman Sharifaie
 Petroleum Geologist

*Tops have been adjusted to electric logs



Curve Track 1
 ROP (Min/Ft)
 Gamma (API)
 Caliper (Inches)

Geological Descriptions
 Engineering Data

Anhydrite 2154 (+566)
 Base Anhydrite 2186 (+534)

DAILY PENETRATION @ 7:00 AM
 09/09/13 - Spudded at 4:15 PM
 09/10/13 - Drilling at 505'
 09/13/13 - Drilling at 3626'
 09/13/13 - Drilling at 4040'
 09/14/13 - Testing at 4273'
 09/15/13 - Testing at 4325'
 09/16/13 - Drilling at 4398'
 09/17/13 - Testing at 4520'
 09/18/13 - Logging at 4690'

Pipe Strap @ 3604': 3.09' Short to Board

Morgan Mud @ 3722'
 Wt: 9.1
 Vis: 50
 Wt: 7.2
 Chl: 2,900
 LCM: 3#

Deer Creek 3776 (-1056)
 Ls., crm/tan/lt gry, f xln, foss IP, dnse, fri IP, n/s
 Sh., gry, sly, mica IP
 Ls., crm/bn/gry, mott, f to m xln, foss, pr vis por, blk, hd, chly, glauc IP, n/s
 Sh., gry/gn, sly, chly

LeCompton 3838 (-1118)
 Ls., tan/crm, sing, vf to f xln, foss IP, pr vis por, dnse, calc, hd to chly, n/s
 Ls., crm, sing, foss IP, calc, pr por, dnse, hd, blk, n/s
 Ls., tan, f xln, Ool, NVP, dnse, hd, ang, calc IP, Tr Cht, n/s
 Ls., crm/tan, foss, micr Ool & intfoss por, dnse, sbang, calc, scat Chk, n/s
 Ls., crm/lt gry, sing, f xln, Tr pr intfoss por, Tr dd brn spid stn, NSLO
 Oread 3895 (-1175)
 Ls., tan/crm, f xln, foss, micr Ool por, dnse, sbang, chly, n/s
 Ls., aa, calc, brec IP
 Sh., gry
 Ls., brn, mott, f xln, foss, v pr por, dnse, hd, calc, scat Chk, n/s
 Ls., aa

Heebner 3955 (-1235)
 Sh., blk carb
 Sh., gry/varic
 Sh., gn, Tr intbd micr pyr
 Ls., crm, sing, f xln, sil foss, pr vis por, calc, scat Chk, n/s
 Ls., aa
 Lansing 3992 (-1272)
 Ls., crm/tan, sing, f xln, foss IP, calc, v pr por, v chly, n/s
 Ls., aa, rr xln surf vugs
 Sh., varic/blk carb
 Ls., crm, sing, NVP, calc, dnse, hd, blk, scat Chk, Tr Cht, n/s
 Sh., gry/gn
 Ls., tan, sing, f xln, foss IP, scat intfoss por, sbang, abund lt brn Cht, chly, n/s
 Ls., crm/tan, sing, f xln, foss, fr intfoss por, dnse, hd to chly, calc IP, n/s
 Sh., blk carb
 Ls., tan/lt brn, f to m xln, NVP, calc, blk, hd, chly, n/s
 Ls., crm/tan, f xln, foss, fr to gd Ool por, calc IP, sub-chly, fri, mtd to blk, n/s
 Ls., aa, Tr frac por, micr pyr IP, Tr Cht, abund Chk
 Ls., crm, sing, f xln, foss, scat vug por, calc, dnse, hd to chly, n/s
 Ls., aa, gry IP, ang, chly
 Sh., blk carb
 Sh., blk/varic, carb
 Ls., crm/brn, mott IP, f xln, foss, scat fr intfoss por, pred v pr por, calc, ang to sub-mtd, n/s
 Ls., crm/tan, sing, vf xln, NVP, hd, blk, scat Chk, n/s
 Ls., crm, f xln, foss, rr Ool & vug por w/ dk brn/blk LO stn, blk, calc, hd, Tr G Bubi, Tr irid, chly, no odr, SSFO
 Ls., brn, f xln, foss, pr vis por, calc, dnse, blk, hd, scat tan Cht, n/s
 Ls., crm, vf xln, foss, Ooc, vug & intfoss por, calc, ang, hd, scat dr/whl Ool Cht, n/s
 Ls., aa, brn IP, chly, decr Cht
 Stark 4239 (-1519)
 Sh., blk carb
 Ls., crm/brn, f xln, v pr vis por, calc, blk, hd, n/s
 Ls., crm/tan/lt gry, f xln, foss IP, pr Ool por, calc, hd to fri IP, chly, v rr brn spid stn, Tr pp FO, v fri odr, VSSFO
 Ls., aa, v pr Shw
 Sh., blk carb
 Ls., crm/tan, f xln, foss, intbn & Oolc por, dnse, sil fri IP, scat xln vugs, intfoss lt brn LO stn, It pt sat, rr bid FO, li, Tr G Bubi, v chly, gd odr, fr Shw LO, SSFO
 Ls., aa, decr Shw abund
 Ls., gry/crm, sing, f xln, Tr foss, pr vis por, cmtd w/ calc, dnse, chly, chly, n/s
 BKC 4306 (-1586)
 Sh., blk carb
 Ls., crm/tan, f xln, sil foss, pr por, dnse, calc, blk, glauc IP, n/s
 Sh., gry/gn/orng, sly
 Ls., crm/tan, sing, f xln, sil foss, v pr por, dnse, calc, chly, Tr Cht, n/s
 Sh., gry/gn/blk/rd
 Marmaton 4348 (-1628)
 Ls., crm/tan, f xln, NVP, calc, hd, blk, abund Chk, n/s
 Ls., crm/tan, sing, f xln, pr intbn & Ool por w/ scat brn spid stn, dnse, li, chly, fri, It pt sat, scat thk pp FO, rr G Bubi, no odr, SSFO
 Ls., aa, pred crm, calc IP
 Ls., crm/lt gry, Tr intbn & micr Ool por, rr spid stn, pt sat, fri, scat spks FO, chly, no odr, VSSFO
 Ls., aa, blk, dnse, hd, Tr vn por, NSFO
 Pawnee 4394 (-1674)
 Ls., crm, f xln, Tr foss, pr por, calc, ang, frac, chly, n/s
 Ls., brn, sing, f xln, pr intbn por, calc IP, dnse, blk, n/s
 Ls., aa, brit
 Ls., crm/brn, f xln, foss IP, pr vis por, dnse, calc IP, blk, n/s
 Sh., gry/blk carb
 Ls., aa, incr brn
 Ls., gry, f xln, pr por, dnse, sly IP, sub-mtd to blk, n/s
 Sh., dk gry/blk/gn, carb IP, mica IP
 Ls., dk gry, sing, f xln, NVP, dnse, fri, sbang, n/s
 Sh., dk gry/blk carb
 Ft Scott 4490 (-1770)
 Ls., crm/tan, f xln, foss, Ool & intbn por, dnse, blk, chly, scat incl w/ brn LO stn, sub-sat, abund G Bubi, Tr irid, rr FO bid, fr Shw LO, VSSFO
 Sh., dk gry/gry
 Ls., aa, decr Shw abund
 Cherokee 4514 (-1794)
 Sh., blk carb
 Ls., crm/tan, mott IP, f xln, foss IP, rr Ool por, chly, shly, n/s
 Ls., tan, sing, f xln, NVP, calc, hd, dnse, blk, n/s
 Sh., blk carb/gry
 Ls., tan/crm, sing, f xln, Tr foss, NVP, calc, hd, dnse, blk, n/s
 Morrow 4562 (-1842)
 Sat., wh/lt, f to m gr, mod srt'd, fr intlgan por, scat lg grnd pcs, cmtd w/ Chk, glauc, sub-rndd, n/s
 Sat., aa, vf grnd IP, shly, scat pcs embd w/ dd O spks, NSLO
 Mississippian 4581 (-1861)
 Ls., crm, mott w/ rd min, f xln, Ool, intfoss & scat vn por, fri, chly, n/s
 Ls., crm/tan, f to m xln, Ool IP, pr vis por, dnse, blk, calc, hd, Tr Cht, n/s
 Ls., aa, scat fr intfoss por
 Dol., tan/crm, sli mott, m to lg xln, fr intbn por, Ool IP, dnse, hd, ang, n/s
 Ls., brn/gry, mott, f xln, foss, dol, intbn & foss por, dnse, sbang, brec, n/s
 Ls., gry, sing, vf to f xln, NVP, foss, dnse, hd, blk, n/s
 Dol., crm, mott IP, m xln, foss, brec, sub-chly, n/s
 Dol., aa
 Ls., tan, sing, f to m xln, dol IP, sli sly, fr intbn por, fri, sub-rndd, n/s
 Sh., gry/gn/orng
 RTD 4690 (-1970)
 Deviation Survey @ 4690': 1"

30-60-60-90
 IF: Weak, built to 1 1/4"
 FF: Weak, built to 4"
 Rec: 70' GOCM (10%G, 10%O, 80%M)

IFP: 30 - 43
 FFP: 46 - 62
 ISIP: 504
 FSIP: 560
 IHP: 2109
 FHP: 2091
 BHT: 123°

Deviation Survey @ 4273': 1/2"

Morgan Mud @ 4100'
 Wt: 9.2
 Vis: 63
 Wt: 6.4
 Chl: 2,800
 LCM: 4#

DST #1
 (LKC I-K)
 4177'-4273'

30-60-60-90
 IF: Weak, built to 1 1/4"
 FF: Weak, built to 4"
 Rec: 70' GOCM (10%G, 10%O, 80%M)

IFP: 30 - 43
 FFP: 46 - 62
 ISIP: 504
 FSIP: 560
 IHP: 2109
 FHP: 2091
 BHT: 123°

Morgan Mud @ 4273'
 Wt: 9.1
 Vis: 71
 Wt: 6.4
 Chl: 3,400
 LCM: 4#

DST #2
 (LKC L)
 4270'-4335'

30-60-60-90
 IF: Built to 9.5"
 FF: BOB in 43 mins
 Rec: 70' OWCM (5%O, 35%W, 60%M), 360' MW (90%W, 10%M)

IFP: 25 - 148
 FFP: 156 - 229
 ISIP: 637
 FSIP: 626
 IHP: 2156
 FHP: 2158
 BHT: 125°

Morgan Mud @ 4325'
 Wt: 9.2
 Vis: 57
 Wt: 6.8
 Chl: 3,300
 LCM: 4#

DST #3
 (Marmaton)
 4346'-4388'

30-60-30-60
 IF: 1/2" blow, died back to a weak surface blow
 FF: No blow
 Rec: 5M (100%M)

IFP: 19 - 22
 FFP: 23 - 25
 ISIP: 165
 FSIP: 108
 IHP: 2232
 FHP: 2198
 BHT: 123°

Morgan Mud @ 4391'
 Wt: 9.2
 Vis: 56
 Wt: 8.0
 Chl: 4,800
 LCM: 3#

DST #3
 (Ft Scott)
 4486'-4520'

30-60-60-90
 IF: 5' blow
 FF: BOB in 59 mins
 Rec: 60' GIP, 120' GOCM (10%G, 30%O, 60%M)

IFP: 19 - 37
 FFP: 42 - 65
 ISIP: 1110
 FSIP: 1120
 IHP: 2228
 FHP: 2197
 BHT: 126°

Morgan Mud @ 4520'
 Wt: 9.2
 Vis: 54
 Wt: 7.2
 Chl: 3,800
 LCM: 4#

Deviation Survey @ 4520': 1/2"

DST #4
 (Ft Scott)
 4486'-4520'

30-60-60-90
 IF: 5' blow
 FF: BOB in 59 mins
 Rec: 60' GIP, 120' GOCM (10%G, 30%O, 60%M)

IFP: 19 - 37
 FFP: 42 - 65
 ISIP: 1110
 FSIP: 1120
 IHP: 2228
 FHP: 2197
 BHT: 126°

Morgan Mud @ 4520'
 Wt: 9.2
 Vis: 54
 Wt: 7.2
 Chl: 3,800
 LCM: 4#

Deviation Survey @ 4520': 1/2"



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.14 @ 09:47:00

End Date: 2013.09.14 @ 18:31:00

Job Ticket #: 52866 DST #: 1

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

Printed: 2013.09.19 @ 09:25:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

GENERAL INFORMATION:

Formation: **LCK " I-K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:00

Time Test Ended: 18:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: 4177.00 ft (KB) To 4273.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4273.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 61.88 psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.14

End Date:

2013.09.14

Last Calib.:

2013.09.14

Start Time: 09:47:05

End Time:

18:31:00

Time On Btm:

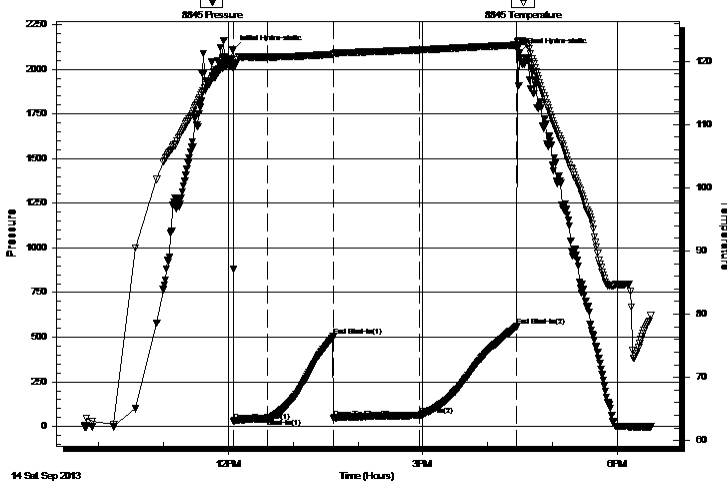
2013.09.14 @ 12:04:30

Time Off Btm:

2013.09.14 @ 16:29:00

TEST COMMENT: IF: 1 1/4" Blow .
IS: No Return.
FF: 4 " Blow .
FS: No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.73	119.66	Initial Hydro-static
1	30.31	119.12	Open To Flow (1)
32	43.32	120.66	Shut-In(1)
93	503.69	121.10	End Shut-In(1)
93	46.20	121.13	Open To Flow (2)
173	61.88	121.80	Shut-In(2)
263	560.42	122.57	End Shut-In(2)
265	2090.88	123.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GOCM 10g 10o 80m	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

Tool Information

Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 55.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4177.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 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			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	5.00			4165.00	
Safety Joint	3.00			4168.00	
Packer	5.00			4173.00	28.00 Bottom Of Top Packer
Packer	4.00			4177.00	
Stubb	1.00			4178.00	
Recorder	0.00	6772	Outside	4178.00	
Recorder	0.00	8845	Outside	4178.00	
Perforations	25.00			4203.00	
Change Over Sub	1.00			4204.00	
Drill Pipe	63.00			4267.00	
Change Over Sub	1.00			4268.00	
Bullnose	5.00			4273.00	96.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GOCM 10g 10o 80m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

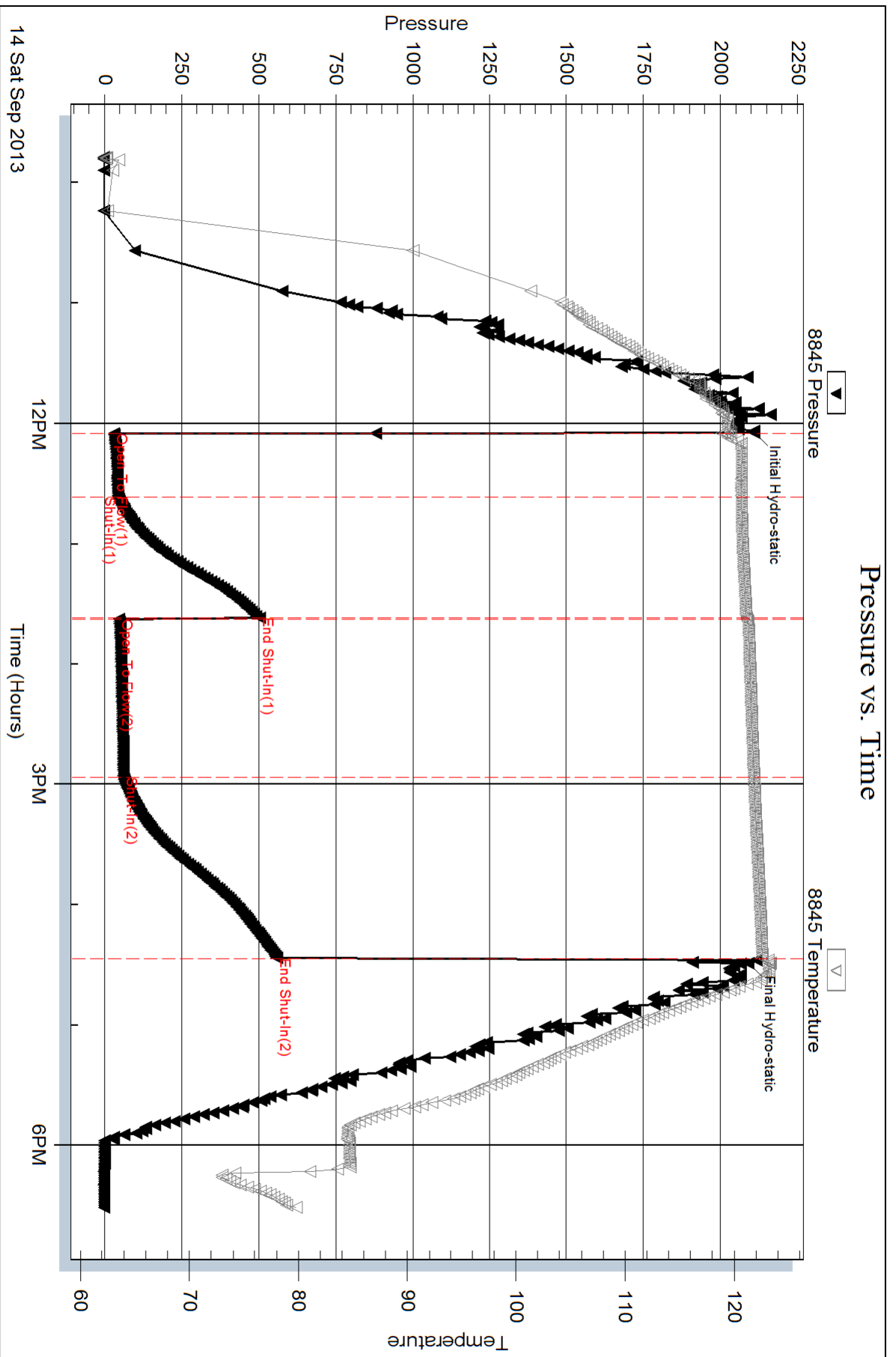
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.15 @ 04:46:00

End Date: 2013.09.15 @ 13:06:15

Job Ticket #: 52867 DST #: 2

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

Printed: 2013.09.19 @ 09:24:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:43:30

Time Test Ended: 13:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4270.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 229.01 psig @ 4271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.15

End Date: 2013.09.15

Last Calib.: 2013.09.15

Start Time: 04:46:05

End Time: 13:06:14

Time On Btm: 2013.09.15 @ 06:43:15

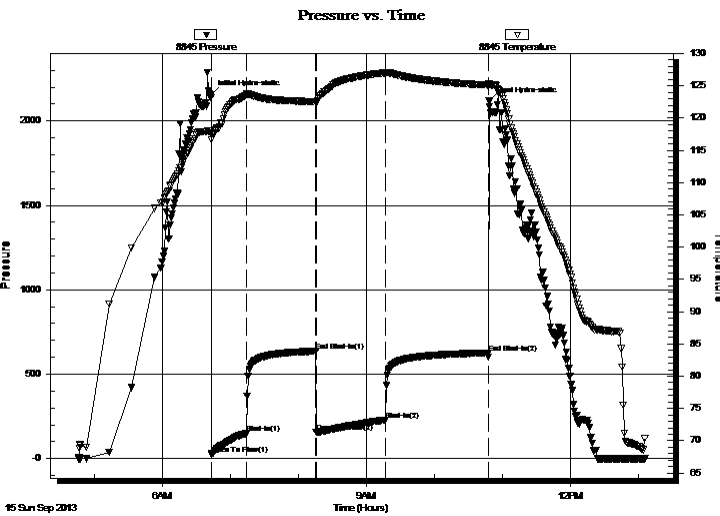
Time Off Btm: 2013.09.15 @ 10:48:30

TEST COMMENT: IF: 9 1/2 " Blow.

IS: No Return.

FF: BOB @ 43 min.

FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.07	117.99	Initial Hydro-static
1	25.40	116.63	Open To Flow (1)
31	147.53	123.59	Shut-In(1)
93	636.78	122.52	End Shut-In(1)
93	155.54	122.22	Open To Flow (2)
154	229.01	126.99	Shut-In(2)
245	626.19	125.11	End Shut-In(2)
246	2117.74	125.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	MW 10m 90w (Oil Spots)	2.54
70.00	OWCM 5 o 35 w 60m	0.98

* 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.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

Tool Information

Drill Pipe:	Length: 3986.00 ft	Diameter: 3.80 inches	Volume: 55.91 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 57.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4270.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4243.00	
Shut In Tool	5.00			4248.00	
Hydraulic tool	5.00			4253.00	
Jars	5.00			4258.00	
Safety Joint	3.00			4261.00	
Packer	5.00			4266.00	28.00 Bottom Of Top Packer
Packer	4.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	6772	Outside	4271.00	
Recorder	0.00	8845	Outside	4271.00	
Perforations	16.00			4287.00	
Change Over Sub	1.00			4288.00	
Drill Pipe	31.00			4319.00	
Change Over Sub	1.00			4320.00	
Bullnose	5.00			4325.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

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:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	MW 10m 90w (Oil Spots)	2.536
70.00	OWCM 5 o 35 w 60m	0.982

Total Length: 430.00 ft Total Volume: 3.518 bbl

Num Fluid Samples: 0

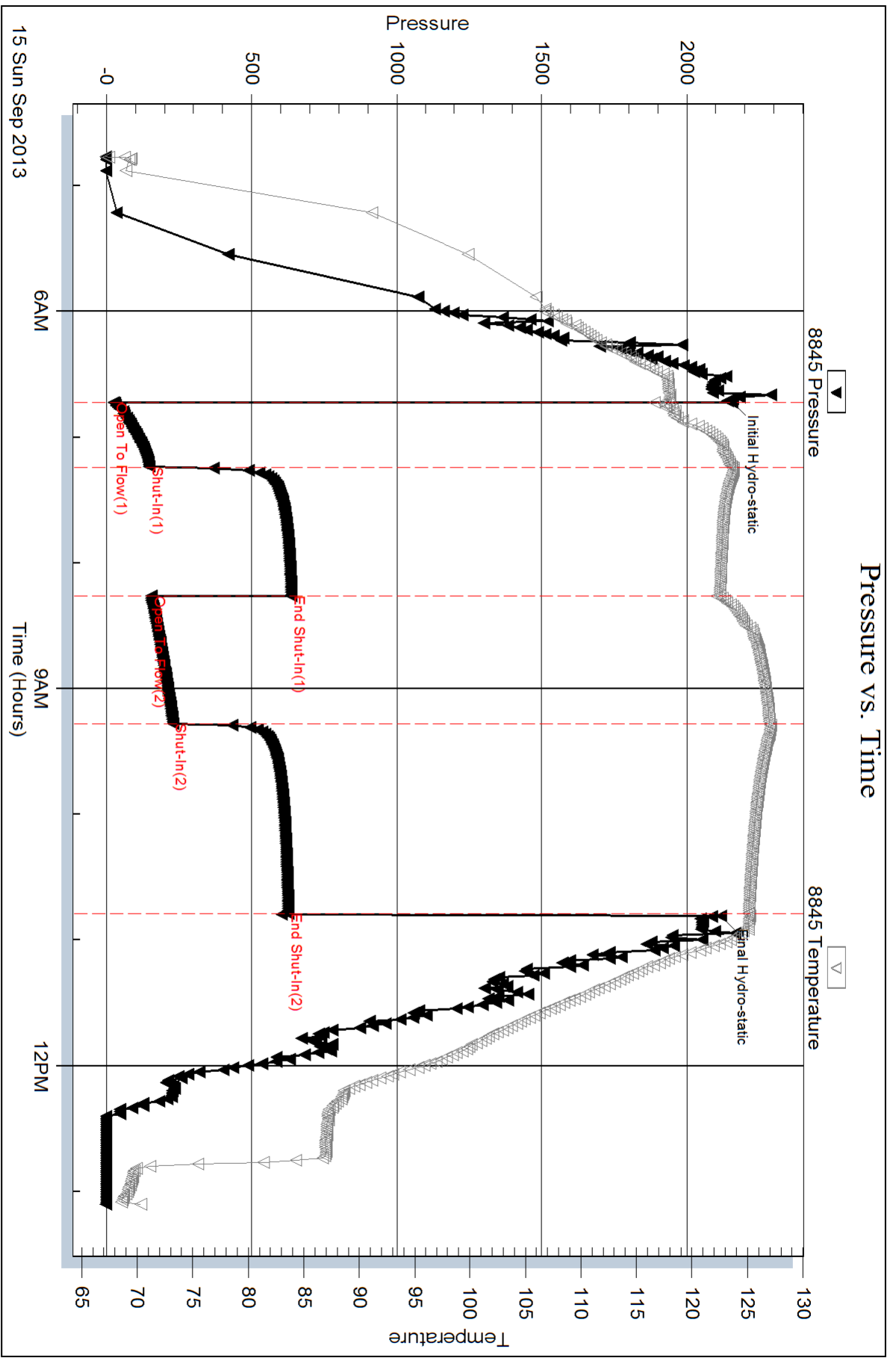
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .113 @ 77 degrees= 60,000 ppm

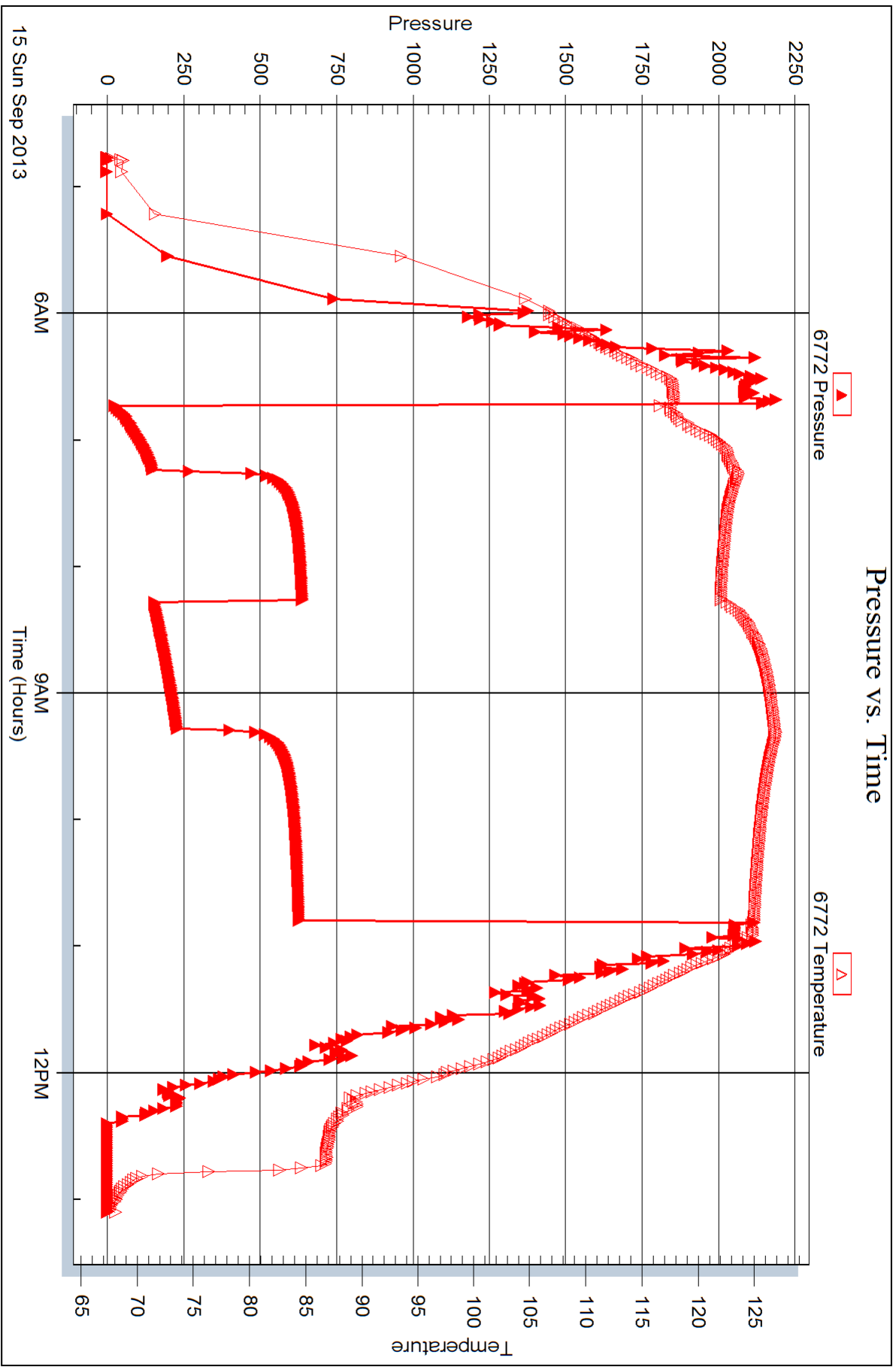


Serial #: 6772

Outside Murfin Drilling Co., Inc.

Bentley #1-17

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

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.16 @ 01:41:00

End Date: 2013.09.16 @ 08:40:00

Job Ticket #: 52868 DST #: 3

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

Printed: 2013.09.19 @ 09:23:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:30

Time Test Ended: 08:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4346.00 ft (KB) To 4388.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4388.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 24.54 psig @ 4347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.16

End Date:

2013.09.16

Last Calib.:

2013.09.16

Start Time: 01:41:05

End Time:

08:39:59

Time On Btm:

2013.09.16 @ 03:22:15

Time Off Btm:

2013.09.16 @ 06:28:15

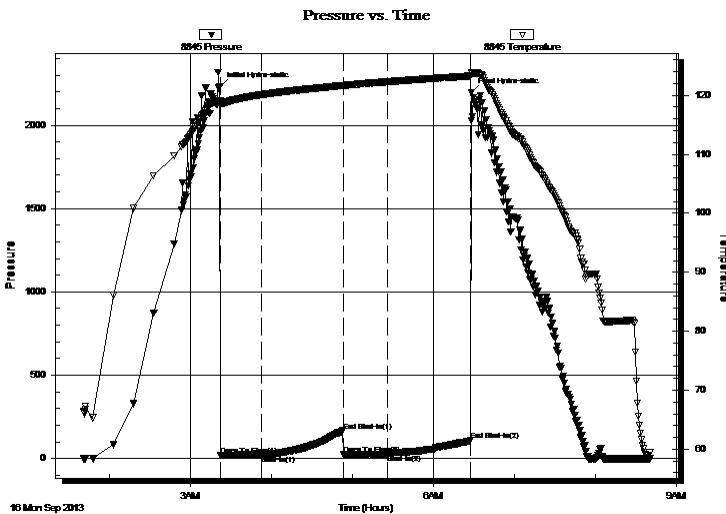
TEST COMMENT: IF: 1/4" Blow died back to a Weak Surface Blow .

IS: No Return.

FF: No Blow .

FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.96	119.04	Initial Hydro-static
1	19.41	118.24	Open To Flow (1)
31	21.68	120.10	Shut-In(1)
91	165.40	121.66	End Shut-In(1)
91	23.37	121.61	Open To Flow (2)
124	24.54	122.30	Shut-In(2)
186	108.07	123.27	End Shut-In(2)
186	2197.91	123.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	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.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

Tool Information

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4346.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			4319.00	
Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Jars	5.00			4334.00	
Safety Joint	3.00			4337.00	
Packer	5.00			4342.00	28.00 Bottom Of Top Packer
Packer	4.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	6772	Outside	4347.00	
Recorder	0.00	8845	Outside	4347.00	
Perforations	3.00			4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	31.00			4382.00	
Change Over Sub	1.00			4383.00	
Bullnose	5.00			4388.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

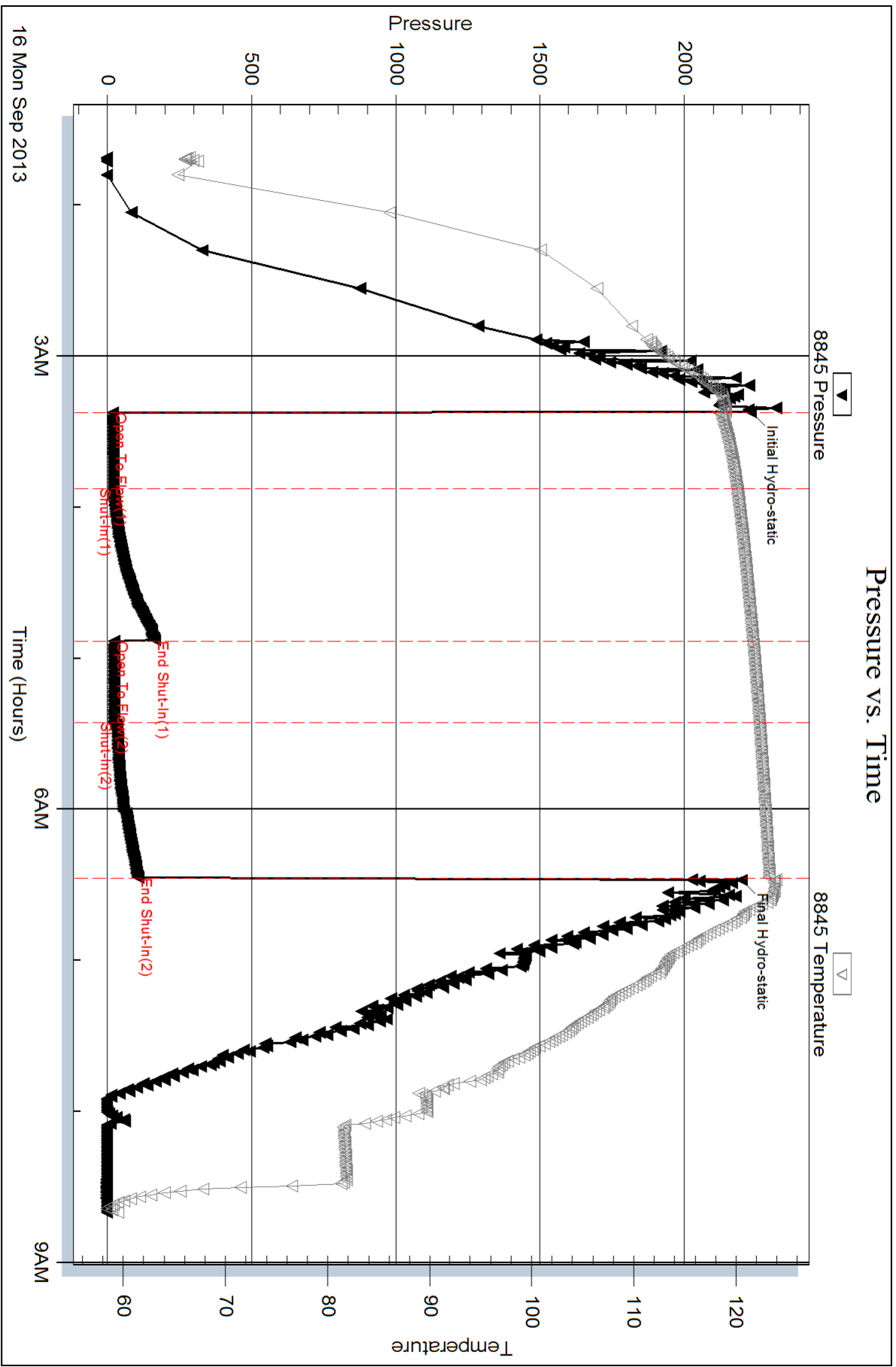
Num Gas Bombs: 0

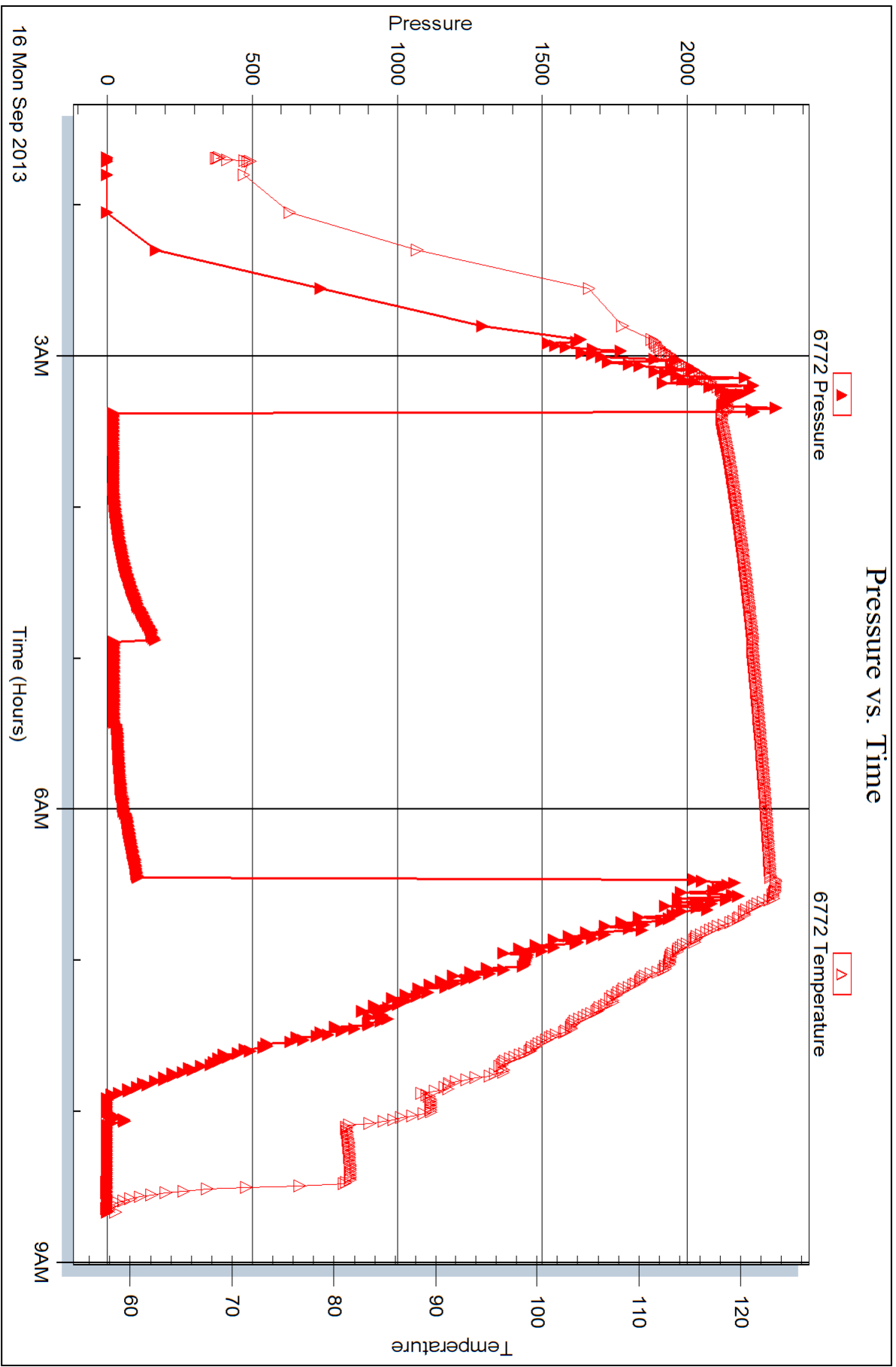
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.17 @ 03:19:00

End Date: 2013.09.17 @ 12:41:15

Job Ticket #: 52869 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.19 @ 09:23:02

Murfin Drilling Co., Inc. 17-16s-27w Lane,KS Bentley #1-17 DST # 4 Ft. Scott 2013.09.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:15

Time Test Ended: 12:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4486.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 65.20 psig @ 4487.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.17

End Date: 2013.09.17

Last Calib.: 2013.09.17

Start Time: 03:19:05

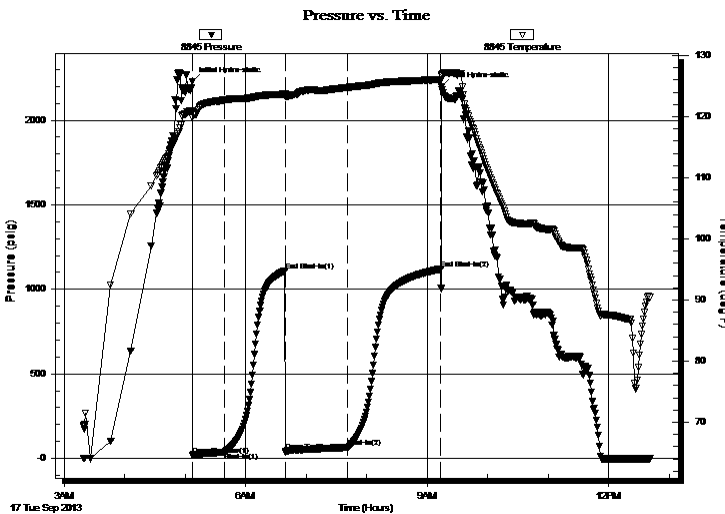
End Time: 12:41:15

Time On Btm: 2013.09.17 @ 05:07:00

Time Off Btm: 2013.09.17 @ 09:14:15

TEST COMMENT: IF: 5" Blow.
IS: No Return.
FF: BOB @ 59 min.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.67	120.87	Initial Hydro-static
1	18.93	119.80	Open To Flow (1)
32	36.91	122.71	Shut-In(1)
92	1109.62	123.68	End Shut-In(1)
93	41.60	123.26	Open To Flow (2)
155	65.20	124.78	Shut-In(2)
247	1120.17	126.07	End Shut-In(2)
248	2197.33	126.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 10g 30o 60m	0.59
0.00	60' 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.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4486.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			4459.00	
Shut In Tool	5.00			4464.00	
Hydraulic tool	5.00			4469.00	
Jars	5.00			4474.00	
Safety Joint	3.00			4477.00	
Packer	5.00			4482.00	28.00 Bottom Of Top Packer
Packer	4.00			4486.00	
Stubb	1.00			4487.00	
Recorder	0.00	6772	Outside	4487.00	
Recorder	0.00	8845	Outside	4487.00	
Perforations	28.00			4515.00	
Bullnose	5.00			4520.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 10g 30o 60m	0.590
0.00	60' GIP	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

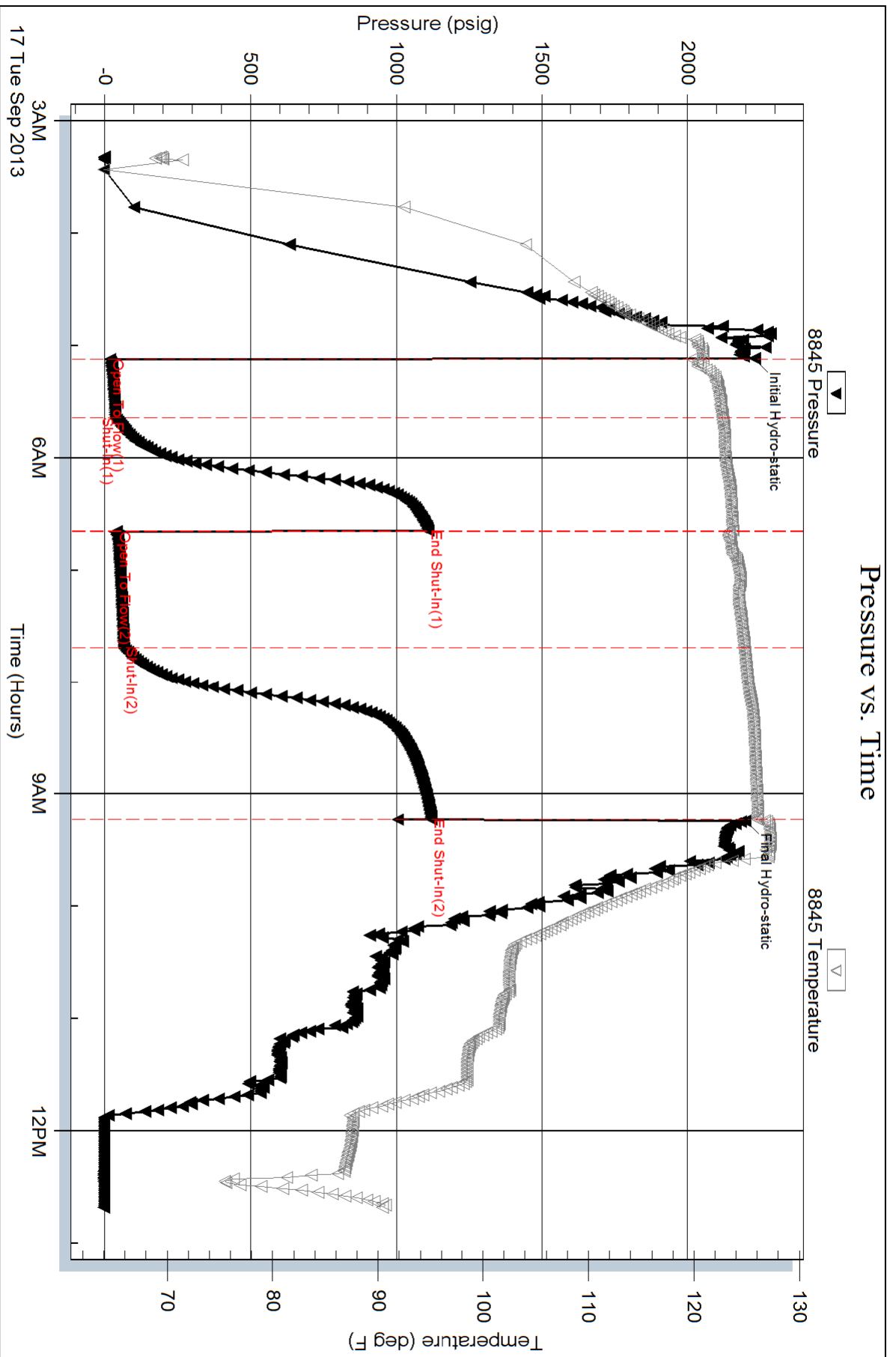
Num Gas Bombs: 0

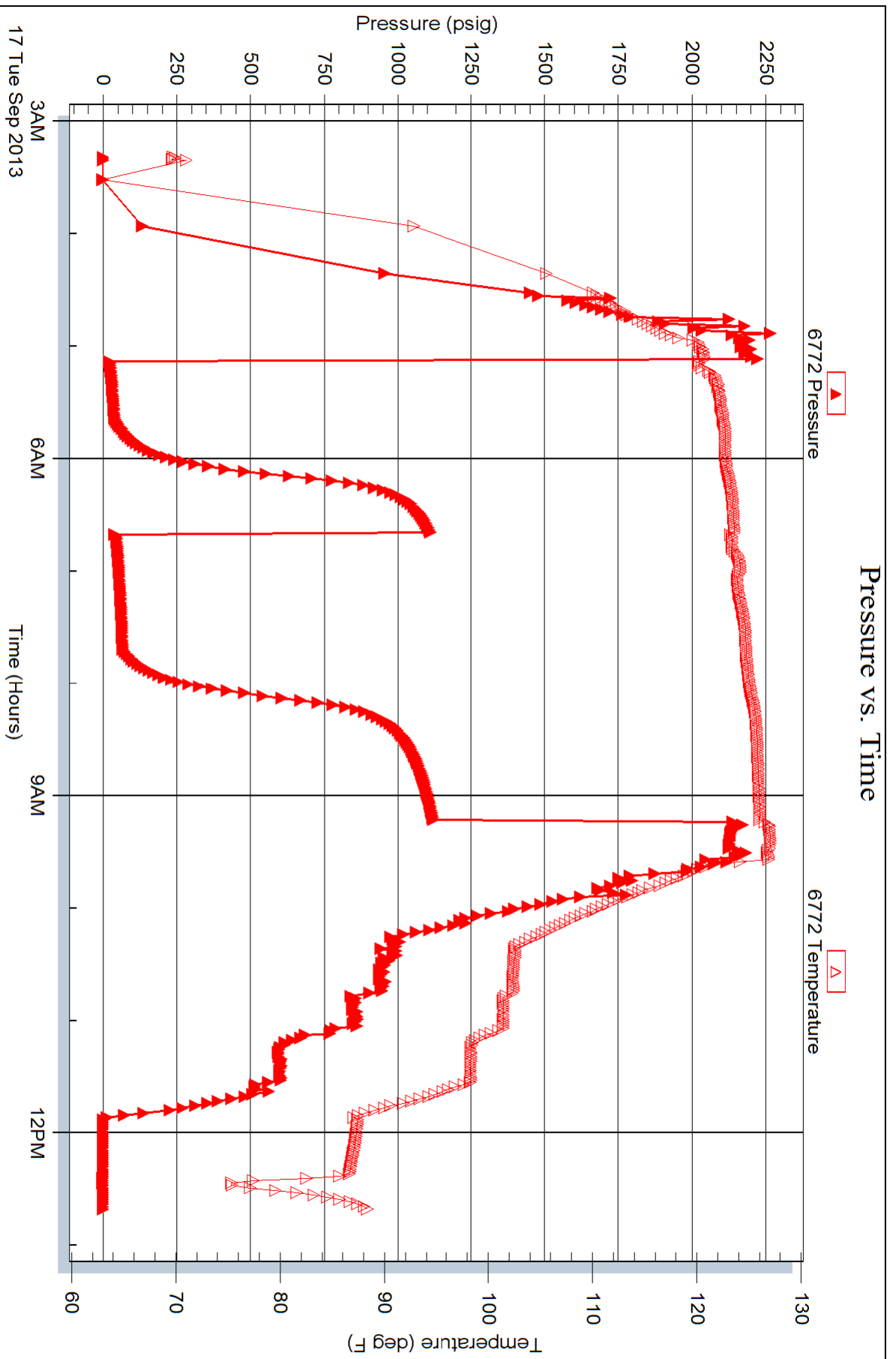
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52866

Well Name & No. Bentley #1-17 Test No. 1 Date 9/14/13
 Company Murfin Drilling CO., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4177 - 4273 Zone Tested LKC "I, J, K"
 Anchor Length 96' Drill Pipe Run 3893 Mud Wt. 9.3
 Top Packer Depth 4173 Drill Collars Run 276 Vis 55
 Bottom Packer Depth 4177 Wt. Pipe Run Ø WL 6.4
 Total Depth 4273 Chlorides 2800 ppm System LCM 2

Blow Description IF: 1 1/4" Blow.
ISI: NO Return.
FF: 4" Blow.
FSI: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of Goch</u>	<u>10</u>	<u>10</u>	<u>50</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 70 BHT 123 Gravity — API RW — @ — Chlorides — ppm
 (A) Initial Hydrostatic 2109 Test 1250 T-On Location 8:30
 (B) First Initial Flow 30 Jars 250 T-Started 9:47
 (C) First Final Flow 43 Safety Joint 75 T-Open 12:05
 (D) Initial Shut-In 504 Circ Sub N/C T-Pulled 16:28
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 18:31
 (F) Second Final Flow 62 Mileage 90 R/T 139.50
 (G) Final Shut-In 560 Sampler _____
 (H) Final Hydrostatic 2091 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Comments Stack in mud wait for tractor operator.
Final Flow supposed to be 60 min Not 90 min!
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

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

Sub Total 0
 Total 1714.50
 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52867

Well Name & No. Bentley #1-17 Test No. 2 Date 9/15/13
 Company Murfin Drilling Co., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Shaurifate Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4270-4325 Zone Tested LKC "L"
 Anchor Length 55' Drill Pipe Run 3986 Mud Wt. 9.3
 Top Packer Depth 4266 Drill Collars Run 276 Vis 60
 Bottom Packer Depth 4270 Wt. Pipe Run Ø WL 6.4
 Total Depth 4325 Chlorides 3400 ppm System LCM 2

Blow Description IF: 9 1/2" Blow.
IST: No Return.
FF: BOB @ 43 min.
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OWCM</u>	<u>5</u>	<u>35</u>	<u>60</u>	
<u>360</u>	<u>MW (oil spots)</u>		<u>90</u>	<u>10</u>	

Rec Total 430 BHT 125 Gravity — API RW .113 @ 77 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2156 Test 1250 T-On Location 4:30
 (B) First Initial Flow 25 Jars 250 T-Started 4:46
 (C) First Final Flow 148 Safety Joint 75 T-Open 6:44
 (D) Initial Shut-In 637 Circ Sub N/C T-Pulled 10:47
 (E) Second Initial Flow 156 Hourly Standby _____ T-Out 13:06
 (F) Second Final Flow 229 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 626 Sampler _____
 (H) Final Hydrostatic 2118 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1714.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1714.50

Approved By [Signature] Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52868

Well Name & No. Bentley #1-17 Test No. 3 Date 9/16/13
 Company Murfin Drilling Co., Inc Elevation 2720 KB 2709 GL
 Address 250 N W 4th St E 300 Wichita, KS 67202
 Co. Rep / Geo. Samah Sharifaie Rig Murfin #21
 Location: Sec. 17 Twp. 16N Rge. 27W Co. Lane State KS

Interval Tested 4346-4388 Zone Tested Marmaton
 Anchor Length 42' Drill Pipe Run 4052 Mud Wt. 9.2
 Top Packer Depth 4342 Drill Collars Run 270 Vis 57
 Bottom Packer Depth 4346 Wt. Pipe Run Ø WL 6.8
 Total Depth 4388 Chlorides 3300 ppm System LCM 4

Blow Description IP: 1/4" Blow down back to a weak surface Blow.
ISL: No Return.
FF: No Blow
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 123 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>2232</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1:30</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:41</u>
(C) First Final Flow	<u>22</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>3:23</u>
(D) Initial Shut-In	<u>165</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>6:28</u>
(E) Second Initial Flow	<u>23</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>8:40</u>
(F) Second Final Flow	<u>25</u>	<input checked="" type="checkbox"/> Mileage	<u>90 R/H</u> 139.50	Comments	
(G) Final Shut-In	<u>108</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2198</u>	<input type="checkbox"/> Straddle			

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
		<input type="checkbox"/> Accessibility	Total <u>1714.50</u>
		Sub Total <u>1714.50</u>	MP/DST Disc <u>—</u>

Approved By _____ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52869

Well Name & No. Bentley #1-17 Test No. 4 Date 9/17/13
 Company Murfin Drilling Co., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Samir Sharifaire Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4486-4520 Zone Tested Ft. Scott
 Anchor Length 34' Drill Pipe Run 4200 Mud Wt. 9.2
 Top Packer Depth 4482 Drill Collars Run 276 Vis 50
 Bottom Packer Depth 4486 Wt. Pipe Run Ø WL 8.0
 Total Depth 4520 Chlorides 4800 ppm System LCM 2

Blow Description IF: 5" Blow
ISI: No Return.
IF: BOB @ 59 min.
ESI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
120	Feet of <u>GOCM</u>	10	30		60
	Feet of <u>60' GIP</u>				
	Feet of				
	Feet of				
	Feet of				

Rec Total 120 BHT 126 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>222.8</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>300</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>3:19</u>
(C) First Final Flow	<u>37</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>5:07</u>
(D) Initial Shut-In	<u>1110</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>9:13</u>
(E) Second Initial Flow	<u>42</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>12:41</u>
(F) Second Final Flow	<u>65</u>	<input checked="" type="checkbox"/> Mileage	<u>90 RIT</u>	Comments	<u>Loaded to 15 @ 15:30 9/18/13</u>
(G) Final Shut-In	<u>1120</u>	<input type="checkbox"/> Sampler	<u>279</u>		
(H) Final Hydrostatic	<u>2197</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Day Standby <u>1d 2.75h</u>	Total <u>2654</u>
		<input type="checkbox"/> Accessibility	MP/DST Disc't
		Sub Total <u>1854</u>	

Approved By _____ Our Representative

Tribolite 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

ALLIED

OIL & GAS SERVICES, LLC

*acct.
Prod-LH*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 138601

Invoice Date: Sep 9, 2013

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

Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61856	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Sep 9, 2013	10/9/13

Quantity	Item	Description	Unit Price	Amount
		Bentley #1-17		
165.00	CEMENT MATERIALS	Class A Common	17.90	2,953.50
3.00	CEMENT MATERIALS	Gel	23.40	70.20
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
178.24	CEMENT SERVICE	Cubic Feet	2.48	442.04
325.60	CEMENT SERVICE	Ton Mileage	2.60	846.56
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT OPERATOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

CR 15 10

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

\$ 2,342.38

ONLY IF PAID ON OR BEFORE

Oct 4, 2013

Subtotal	6,692.55
Sales Tax	243.65
Total Invoice Amount	6,936.20
Payment/Credit Applied	
TOTAL	6,936.20

ALLIED OIL & GAS SERVICES, LLC 061856

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend

DATE <u>9-9-13</u>	SEC. <u>17</u>	TWP. <u>16</u>	RANGE <u>27 W</u>	CALLED OUT <u>4:00 PM</u>	ON LOCATION <u>6:30 PM</u>	JOB START <u>7:30 PM</u>	JOB FINISH <u>8 PM</u>
LEASE <u>BENTLEY</u>		WELL# <u>1-17</u>		LOCATION <u>PENDENNIS Redchief</u>		COUNTY <u>lane</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				RD <u>1 1/2 N EINTO</u>			

CONTRACTOR MARFIN 21 OWNER _____

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 223 CEMENT AMOUNT ORDERED 165 SKS CLASS A

CASING SIZE 8 7/8 2 1/4 DEPTH 226.4 3 1/2 CC 2 1/2 gel

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

DISPLACEMENT FRESH H2O 13.46 BBL

EQUIPMENT _____

PUMP TRUCK CEMENTER CHARLES KINSON

398 HELPER MIKE SCOTHORN

BULK TRUCK _____

344-170 DRIVER KEVIN WEIGHOUSE

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

BREAK CIRCULATION w/ Rig mud
HOOK UP SDBS H2O Ahead
MIX 165 SKS CLASS A 3 1/2 CC 2 1/2 gel
DISPLACE 13.46 BBL H2O
CEMENT DID CIRCULATE
SHUT IN FINISHED

SERVICE

DEPTH OF JOB 226.4

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ _____

MILEAGE Hum 40 @ 7.70 308.00

MANIFOLD Hum 40 @ 4.40 176.00

_____ @ _____

TOTAL 1.996.25

CHARGE TO: MARFIN DRILLING

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME X Juan Tinoco

SIGNATURE X Juan Tinoco

Thank you!

SALES TAX (if Any) _____

TOTAL CHARGES 6.692.54

DISCOUNT 2.342.38 IF PAID IN 30 DAYS

4.350.15

Acct
LH



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 138744

Invoice Date: Sep 18, 2013

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

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	61816	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Sep 18, 2013	10/18/13

Quantity	Item	Description	Unit Price	Amount
		Bentley Unit #1-8* # 1-17		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
120.00	CEMENT MATERIALS	Pozmix	9.35	1,122.00
10.00	CEMENT MATERIALS	Gel	23.40	234.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
322.20	CEMENT SERVICE	Cubic Feet	2.48	799.06
538.13	CEMENT SERVICE	Ton Mileage	2.60	1,399.14
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SUPERVISOR	Dustin Chambers		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

OKAD

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

\$ 3,488.28

ONLY IF PAID ON OR BEFORE

Oct 13, 2013

Subtotal	9,966.54
Sales Tax	712.61
Total Invoice Amount	10,679.15
Payment/Credit Applied	
TOTAL	10,679.15

ALLIED OIL & GAS SERVICES, LLC 061816

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Greer Bend 165

DATE <u>9-18-13</u>	SEC. <u>17</u>	TWP. <u>16S</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 AM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Bentley</u>	WELL # <u>1-17</u>	LOCATION <u>Pender's 1/2 E 1/2 N Einto</u>			COUNTY <u>Love</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR North Drilling #21

TYPE OF JOB Repair Plug

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 7/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 2160

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. A11

PERFS.

DISPLACEMENT Fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Dwight Chambers

3925 HELPER Mike Scott

BULK TRUCK

349-170 DRIVER Don Casper

BULK TRUCK

DRIVER

OWNER	CEMENT	AMOUNT ORDERED <u>300 sacks 60+ class A</u>
		<u>424.00 4 1/2 gal 1/2 lb</u>
COMMON <u>180</u>	@ <u>17.90</u>	<u>3,222.00</u>
POZMIX <u>120</u>	@ <u>9.35</u>	<u>1,122.00</u>
GEL <u>10</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE	@	
ASC	@	
<u>Flow seal 75</u>	@ <u>2.97</u>	<u>222.75</u>
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>322.2</u>	@ <u>2.48</u>	<u>799.05</u>
MILEAGE <u>13.45 x 40 x</u>	<u>2.60</u>	<u>1,399.40</u>
		TOTAL <u>6,998.96</u>

REMARKS:

- Fill hole with bit mud
- 6.2160 - 50 SKS
- 2.1350 - 80 SKS
- 3.690 - 50 SKS
- 4.240 - 50 SKS
- 5.60 - 20 SKS
- 6.14 - 30 SKS
- 7.14 - 20 SKS Plug Point - 10:15 pm

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE	<u>2483.59</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>Hum 40</u>	@ <u>7.70</u>	<u>308.00</u>
MANIFOLD	@	
<u>Hum 40</u>	@ <u>4.40</u>	<u>176.00</u>
	@	
		TOTAL <u>2,967.59</u>

CHARGE TO: North Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL _____

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

PRINTED NAME X Juan Truco

SIGNATURE X Juan Truco

Thank

SALES TAX (If Any) _____

TOTAL CHARGES 9,966.55

DISCOUNT 2,989.96 IF PAID IN 30 DAYS

6,976.58