



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1199012
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: _____

1199012

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Coppen 1-7
Doc ID	1199012

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated Sonic

Remarks

The Coppen # 1-7 was declared dry and abandoned.
 All sample shows of oil were drill stem tested and condemned.

Electric log measurements correlate about 2' high compared to rotary measurements.

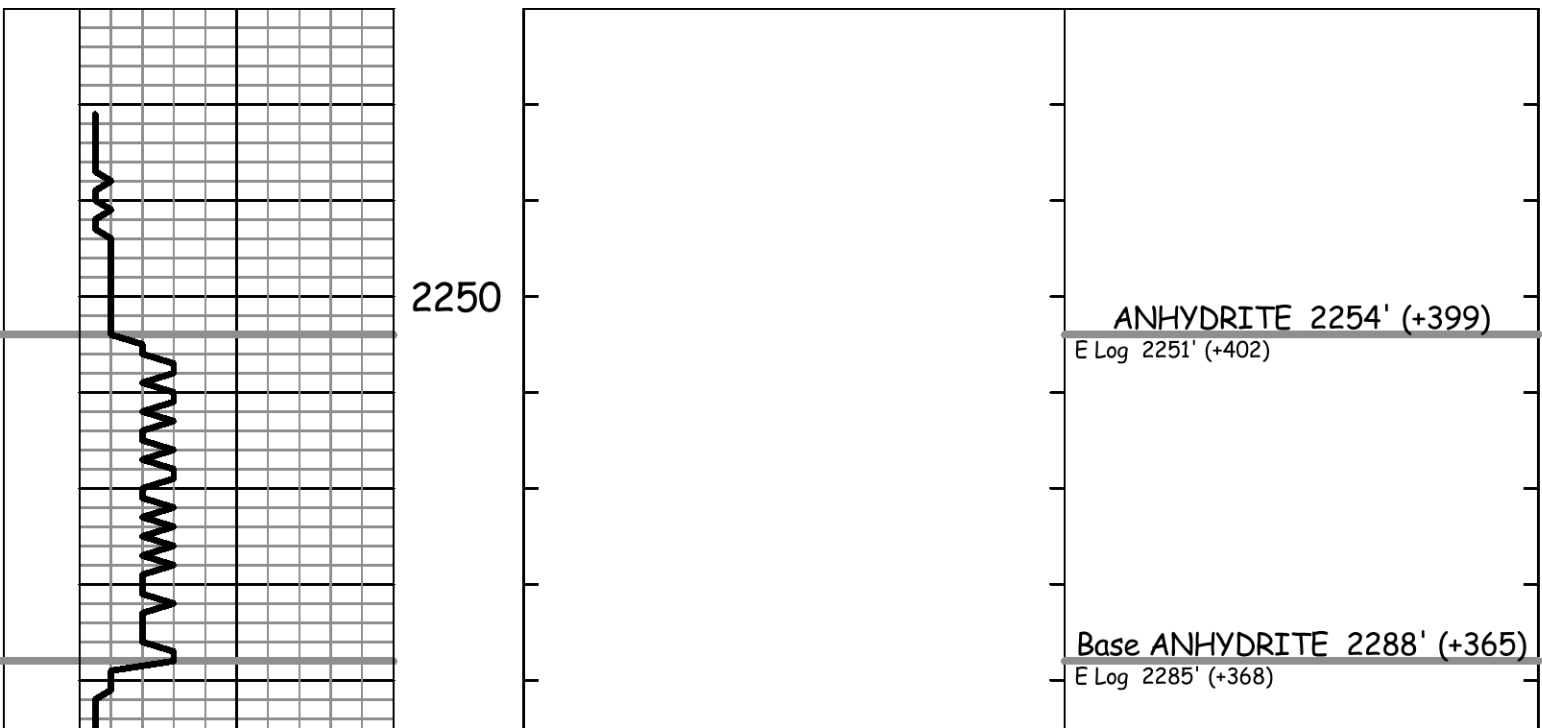
Samples deposited at the Kansas Geological Survey.

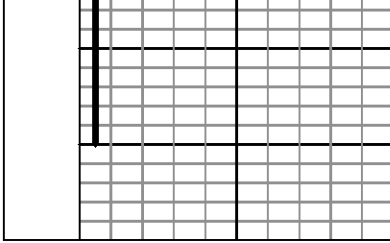
Respectfully Submitted,



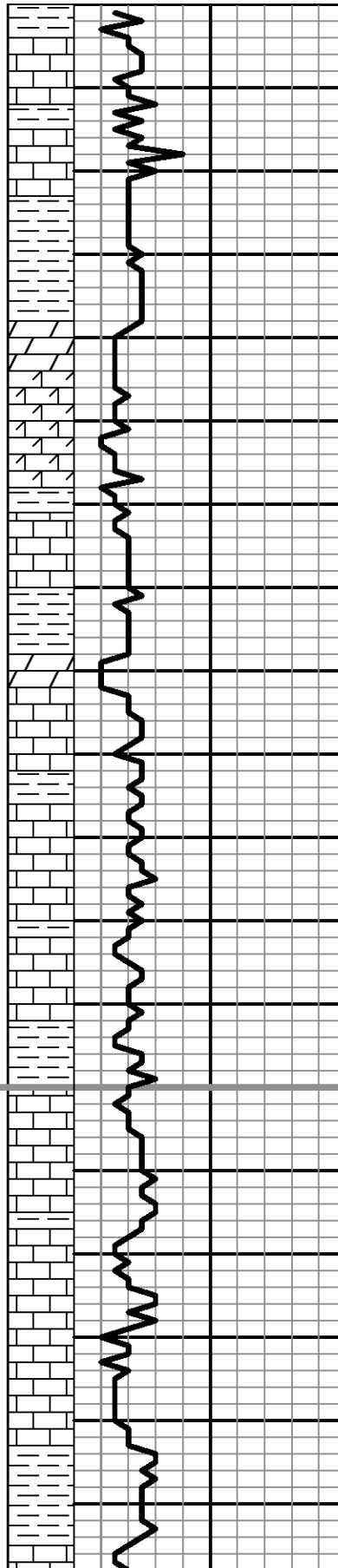
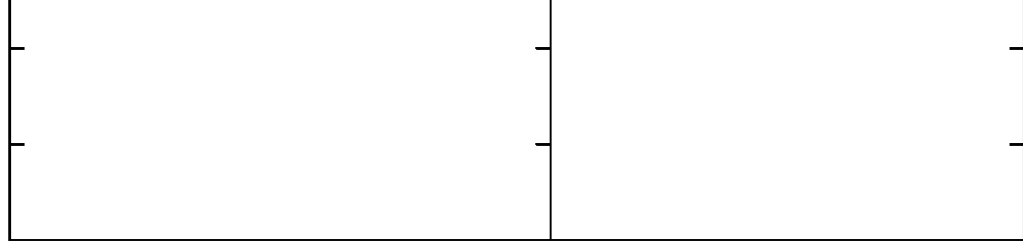
Jeff Christian

LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH	SHW	SAMPLE DESCRIPTIONS	REMARKS
-------	---	---------------------	----	-------	-----	---------------------	---------





2300



3400

Ls: crm-lt gry, fn xln, dns, foss, pr vis por, ns

Sh: gry-some red/brn w/ Ls: lt brn-lt gry, fn xln, dns, foss, ns

Dolo: crm-lt brn, fn-some med xln, suc, fr intrxln-trc vug por, ns

3450

Dolo: as above w/ Ls: crm-lt gry, fn xln, subchlky, part dns, ns

Sh: gry w/ Ls: crm-lt gry, fn xln, dns, foss-mott, pr vis por, ns

Dolo: crm-lt brn, fn xln, suc, fr intrxln-vug por, ns

Ls: off wt-crm-lt gry, fn xln, part chlky, part dns, sli foss, pr vis por, ns

3500

Sh: gry-trc grn

Ls: lt brn-lt gry-gry, fn xln, dns, sli foss, pr vis por, ns

Ls: lt gry-gry, fn xln, dns, sli foss, pr vis por, ns

Sh: gry

Ls: crm, fn xln, sli grnlr, sli foss, pr intrxln por, ns

TOPEKA 3530' (-877)

E Log 3528' (-875)

3550

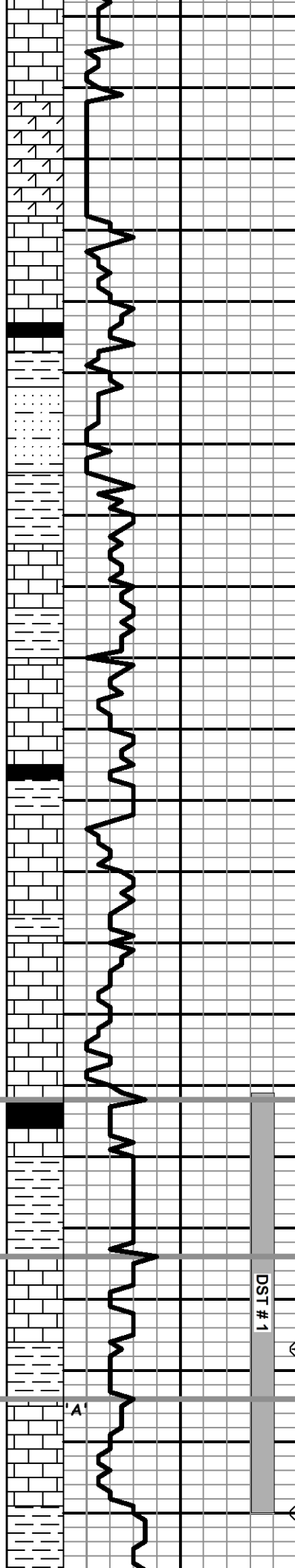
Ls: as above w/ Ls: lt gry, fn xln, dns, pr vis por, ns

Ls: crm-lt gry, fn xln, sli grnlr, part dns, sli foss, sli chrt, sct pr-fr pp-intrxln por, ns

Ls: crm-lt gry, fn xln, subchlky, part dns, sli foss, trc chrt, vy sct pp-vug por, ns

Sh: gry w/ Slst: gry, calc, hard

Ls: crm-lt gry, fn xln, sli grnlr, sli foss, trc chrt, fn



3600

Ls: crm-lt gry, fn xln, grnlr, sli foss, pr intrxln-vug por, ns

Dolo Ls: crm-lt brn, fn xln, grnlr, chlky, sli foss, fr intrxln-pp por, ns

Same

Ls: crm, fn xln, sli grnlr, subchlky, sli foss, pr-fr intrxln por, ns

Sh: blk, carb

3650

Sst: lt gry-gry, vy fn-some fn grn, calc, subfri-hard, pr vis por, ns

Sh: gry-red/brn, sndy in part

Ls: crm-lt gry, fn xln, part dns, foss, pr foss-vug por, ns

Sh: gry-red/brn

Ls: crm-lt gry, fn xln, subchlky, foss-sli ool, trc pp-vug por, ns

3700

Sh: blk, carb

Ls: crm-lt brn-lt gry, fn xln, dolo in part, foss in part, pr intrxln por, ns

Ls: as above, part dns

Same w/ sct wt chlky

Ls: crm-lt gry, fn xln, sli grnlr in part, sli foss, vy sct intrxln-vug por, ns

HEEBNER 3742' (-1089)

E Log 3740' (-1087)

3750

Sh: blk, carb

Ls: brn, fn xln, dns, foss

Sh: gry, trc grn & red/brn w/ Slst: gry, vy fn grn, calc, hard, ns

Sh: red/brn, some gry & grn

Ls: crm-lt gry, fn xln, ool in part, chrty, pr-trc fr introol-vug por, cpl pcs vssfo, no odor, blk sptd stn in wet, drk brn sptd stn dry

Ls: crm-lt brn, fn-some med xln, chrty, pr-fr intrxln por, ns

Sh: gry-grn-some red/brn

TORONTO 3764' (-1111)

E Log 3762' (-1109)

Morgan Mud: 3777'; 1/22/14
Wt. 9.0, Vis. 56, WL. 5.6, Chl. 1,200, LCM. 2.0

3800

Ls: crm-lt gry, fn xln, foss-ool in part, chrty, pr-trc fr intrpart-vug por, cpl pcs vssfo, no odor, blk sptd stn

Ls: crm-lt gry, fn xln, sli grnlr, sli chlky, sct chrty, pr-trc fr intrxln-vug por, nsfo, no odor, vy scy blk sptd stn

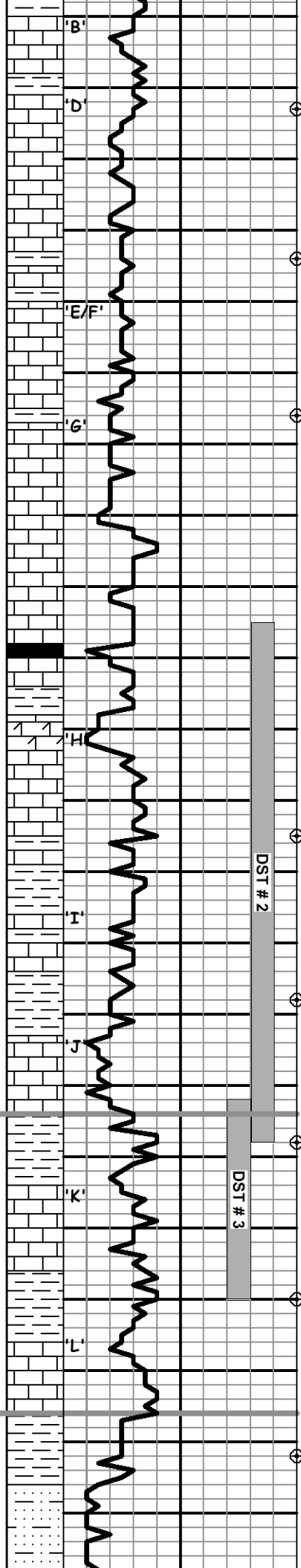
LANSING 3784' (-1131)

E Log 3782' (-1129)

DST # 1 3741' to 3800'
IF: BOB/ 30" ISI: No Return
FF: BOB/28" FSI: No Return
RECOVERY: 577' total fluid
451' SWCM (5%W, 95%M)
126' SMCW (90%W, 10%M)

DST # 1

'A'



3850

B' Ls: crm-lt gry, fn xln, subchlky, sli foss-ool, sct pr-fr intrpart-vug por, ns

D' Ls: crm-lt gry, fn xln, subchlky, part dns, sli foss-ool in part, mostly pr vis por, cpl pcs/tray fr vug por, sptd drk stn, nsfo, no odor

E/F' Ls: lt brn-lt gry, fn xln, dns, sli chlky in part, foss-ool in part, pr vis por, 1 pc/tray hvy dead oil stn, nsfo, no odor

G' Ls: crm-lt brn, fn xln, chlky, sli foss-ool in part, pr vis por, trc dull sptd stn, nsfo, no odor

Ls: crm-lt brn, fn xln, dns, chlky in part, micro ool in part, pr vis por, ns

Same

Ls: crm-lt brn-lt gry, fn xln, dns, chlky in part, chrty, pr vis por, ns

3900

Sh: blk, carb

Sh: gry-red/brn, some grn

H' Dolo Ls: lt brn-brn, fn xln, dns, sli suc, chrty, pr vis por, vy sct pcs w/ xtl ovgrwth, sfo, brn sptd-subsat stn, no odor

Ls: crm-lt gry, fn xln, dns, sli foss, pr vis por, ns

I' Ls: lt gry, fn xln, dns, sli foss, ns

Sh: vari color

J' Ls: lt gry-gry, fn xln, dns, shly, pr vis por, ns

3950

Sh: red/brn, slty & sndy in part, some gry & grn sh

Ls: crm-lt gry, fn-some med xln, grnlr, chlky in part, pr-some fr intrxln-pp por, ns

K' Sh: gry-red/brn, some grn

L' Ls: wt-crm-lt gry, fn xln, chlky in part, sli foss, pr intrfoss-vug por, few pcs ssfo, fnt odor, dull brn sptd-sat stn

Sh: gry-red/brn

4000

Ls: lt gry, fn xln, dns, sli foss, sct wt chlk, pr vis por, ns

Sh: gry-red/brn-grn

Ltst: lt gry, vy fn grn, calc, fri-mushy, pr vis por, sct pcs w/ dead stn, nsfo, no odor, no flur, no cut

IFP: 39-143# ISIP: 1063#
 FFP: 146-285# FSIP: 1055#
 IHP: 1824# FHP: 1812#
 BHT: 123 deg. F
 CHL: 23,000 ppm

Pipe Strap: 1.24' long to board dev. 1/2 deg.

Morgan Mud: 3873'; 1/23/14
 Wt. 9.1, Vis. 51, WL. 6.0, Chl. 1,600, LCM. 2.0

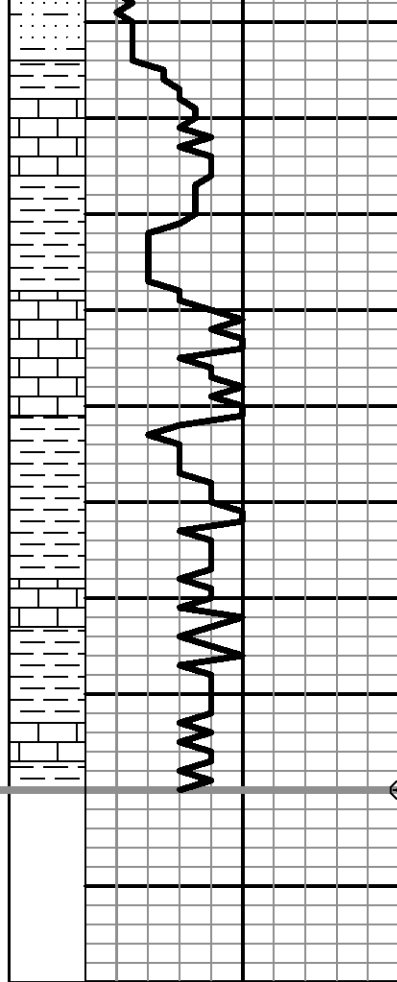
DST # 2 3895' to 3968'
 IF: BOB/ 4" ISI: No Return
 FF: BOB/6" FSI: No Return
 RECOVERY: 1953' total fluid
 504' WCM (20%W, 80%M)
 315' SMCW (95%W, 5%M)
 1,139 Wtr
 IFP: 51-295# ISIP: 1174#
 FFP: 303-641# FSIP: 1128#
 IHP: 1898# FHP: 1891#
 BHT: 126 deg. F
 CHL: 46,000 ppm

STARK 3964' (-1311)
 E Log 3962' (-1309)

DST # 3 3962' to 3990'
 IF: Blow Built to 1"/ Died Back to Surface
 FF: Surface Blow/30"
 RECOVERY: 3' Mud w/ oil spts
 IFP: 19-22# ISIP: 1170#
 FFP: 22-24# FSIP: 1157#
 IHP: 2035# FHP: 1982#
 BHT: 111 deg. F

BKC 4006' (-1353)
 E Log 4004' (-1351)

Morgan Mud: 3990'; 1/24/14
 Wt. 9.0, Vis. 55, WL. 5.6, Chl. 1,900, LCM. 1.0



4050

4100

Ls: lt gry, fn xln, dns, some wt-crm chlky, pr vis por, ns

Sh: red/brn-gry, some grn, sndy in part

Ls: lt gry-discolor, fn xln, dns, sli foss in part, pr vis por, ns

Sh: red/brn, some gry & grn

Ls: wt-crm-lt gry, fn xln, chlky, part dns w/ Sh: as above

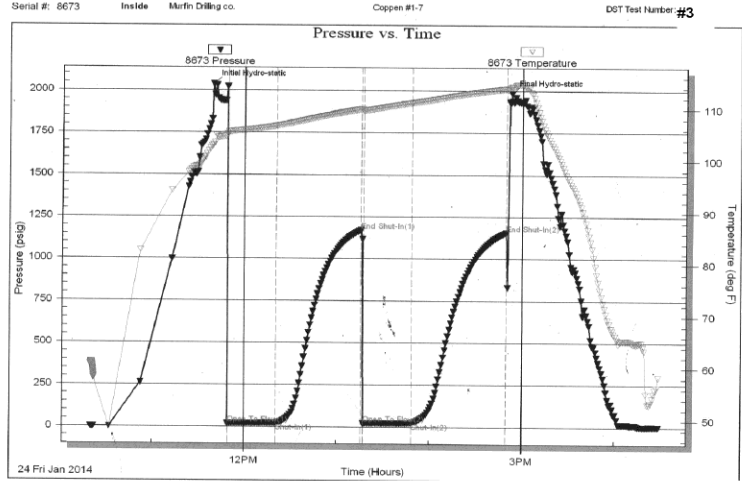
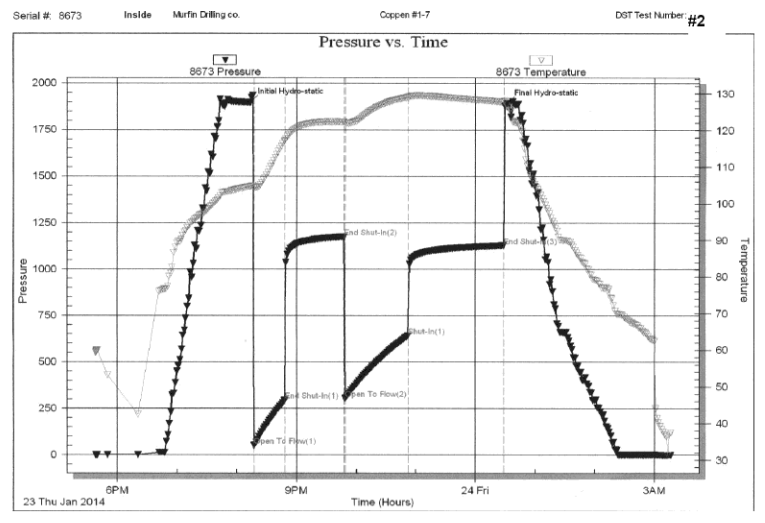
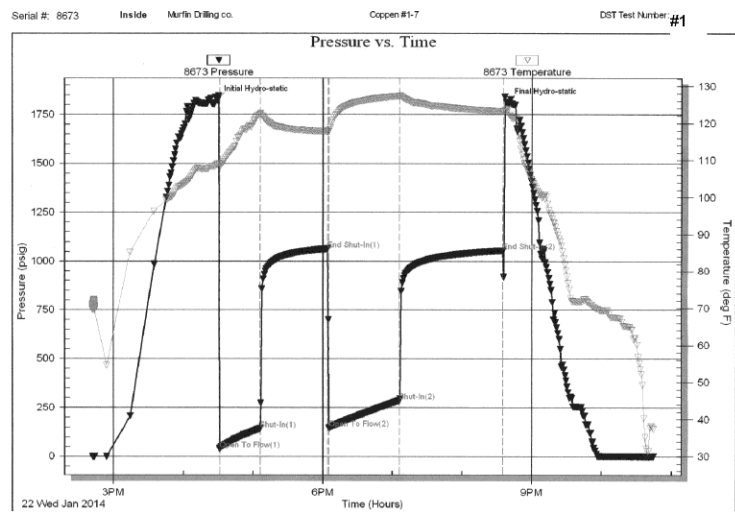
Sh: red/brn-gry, some grn, sndy in part

Sh: as above w/ Ls: lt gry-brn, fn xln, dns, some wt chlky, ns

RTD 4110' (-1457)

E Log 4005' (-1452)

Drill Stem Test Charts







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling co.**

250 N. Water Suite 300 Wichita KS. 67202

ATTN: Jeff Christian / Sco

Coppen #1-7

7-9s-27w Sheridan,KS

Start Date: 2014.01.22 @ 14:42:00

End Date: 2014.01.22 @ 22:44:30

Job Ticket #: 56687 DST #: 1

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

Printed: 2014.01.27 @ 15:22:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling co.
 250 N. Water Suite 300 Wichita KS. 67202
 ATTN: Jeff Christian / Sco

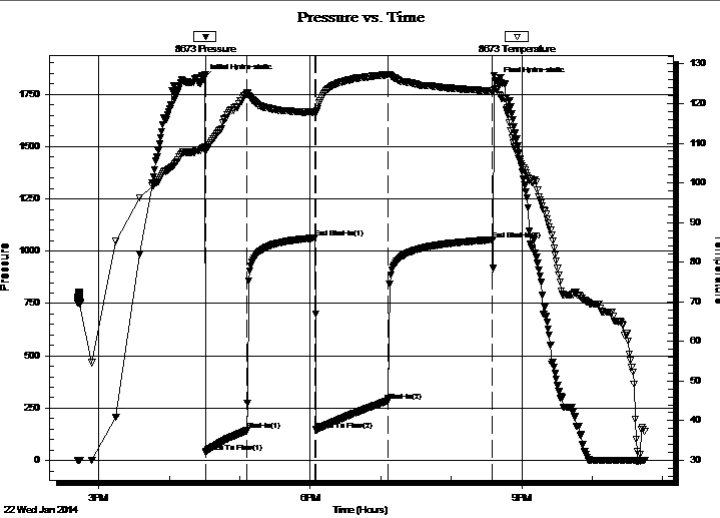
7-9s-27w Sheridan,KS
Coppen #1-7
 Job Ticket: 56687 **DST#: 1**
 Test Start: 2014.01.22 @ 14:42:00

GENERAL INFORMATION:

Formation: **Toronto-LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:31:00
 Time Test Ended: 22:44:30
 Interval: **3741.00 ft (KB) To 3800.00 ft (KB) (TVD)**
 Total Depth: 3800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 61
 Reference Elevations: 2653.00 ft (KB)
 2648.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8673 Inside
 Press@RunDepth: 285.19 psig @ 3778.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.22 End Date: 2014.01.22 Last Calib.: 2014.01.22
 Start Time: 14:42:01 End Time: 22:44:30 Time On Btm: 2014.01.22 @ 16:29:00
 Time Off Btm: 2014.01.22 @ 20:38:30

TEST COMMENT: I.F. - 30 - BOB in 30 min
 I.S.I - 60 - No blow back
 F.F - 60 - BOB in 28 min
 F.S.I. - 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.96	108.88	Initial Hydro-static
2	38.09	107.84	Open To Flow (1)
37	142.59	122.37	Shut-In(1)
95	1063.34	117.80	End Shut-In(1)
96	145.97	117.81	Open To Flow (2)
157	285.19	127.28	Shut-In(2)
246	1054.60	123.21	End Shut-In(2)
250	1811.61	123.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	S,M,C,W 10%MUD 90% WATER	1.48
451.00	S,W,C,M, 5% WATER 95%MUD	6.33

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling co.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56687

DST#: 1

ATTN: Jeff Christian / Sco

Test Start: 2014.01.22 @ 14:42:00

Tool Information

Drill Pipe:	Length: 3701.00 ft	Diameter: 3.80 inches	Volume: 51.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3741.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 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
Shut In Tool	5.00			3718.00	
Hydraulic tool	5.00			3723.00	
Jars	5.00			3728.00	
Safety Joint	3.00			3731.00	
Packer	5.00			3736.00	28.00 Bottom Of Top Packer
Packer	5.00			3741.00	
Stubb	1.00			3742.00	
Perforations	2.00			3744.00	
Change Over Sub	1.00			3745.00	
Drill Pipe	32.00			3777.00	
Change Over Sub	1.00			3778.00	
Recorder	0.00	8673	Inside	3778.00	
Recorder	0.00	8651	Outside	3778.00	
Perforations	19.00			3797.00	
Bullnose	3.00			3800.00	59.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56687

DST#: 1

ATTN: Jeff Christian / Sco

Test Start: 2014.01.22 @ 14:42:00

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:

23000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	S,M,C,W 10%MUD 90% WATER	1.476
451.00	S,W,C,M, 5% WATER 95%MUD	6.326

Total Length: 577.00 ft Total Volume: 7.802 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

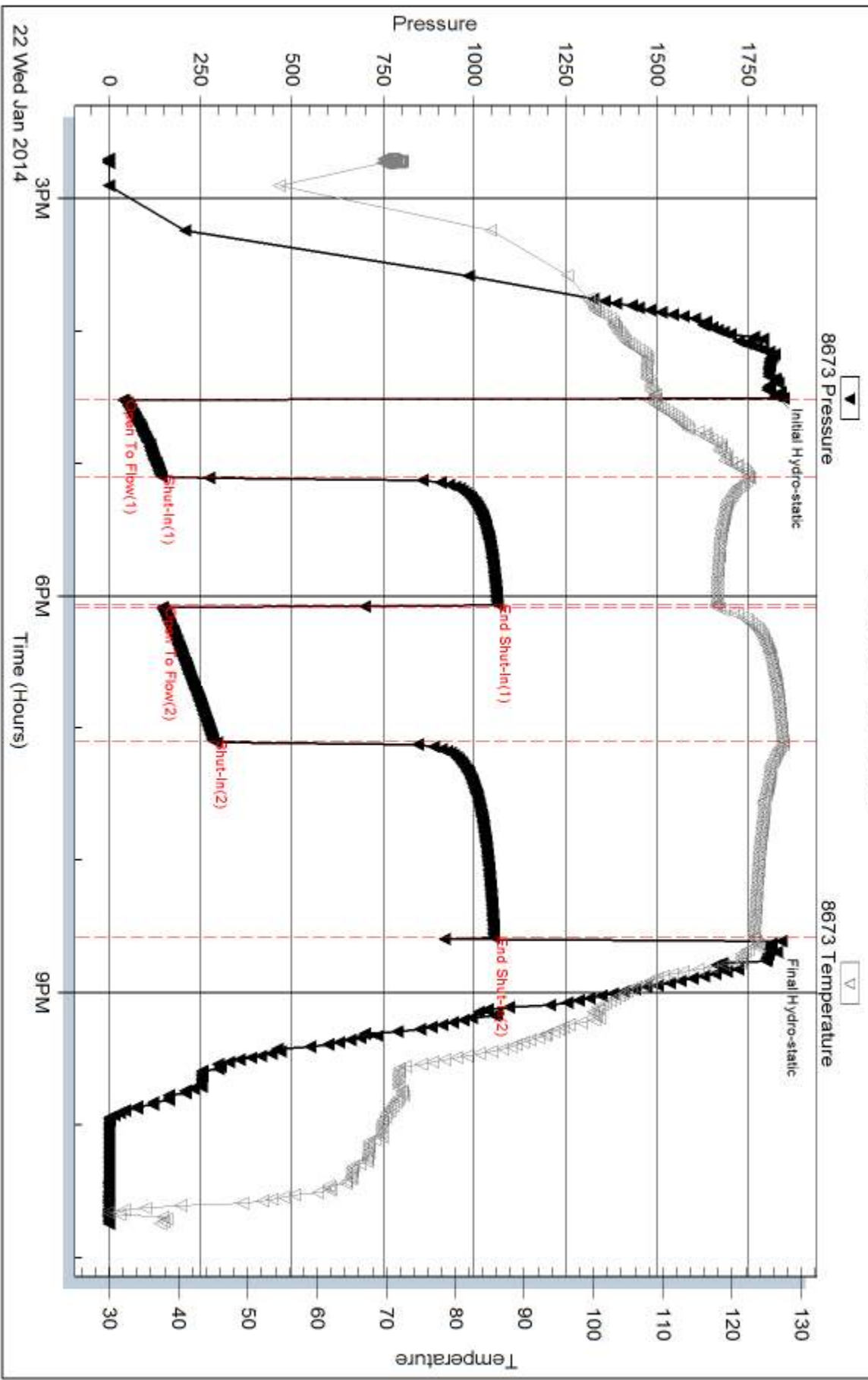
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 0.6 OHMS @ 35 DEG.

Pressure vs. Time



22 Wed Jan 2014 3PM

6PM Time (Hours)

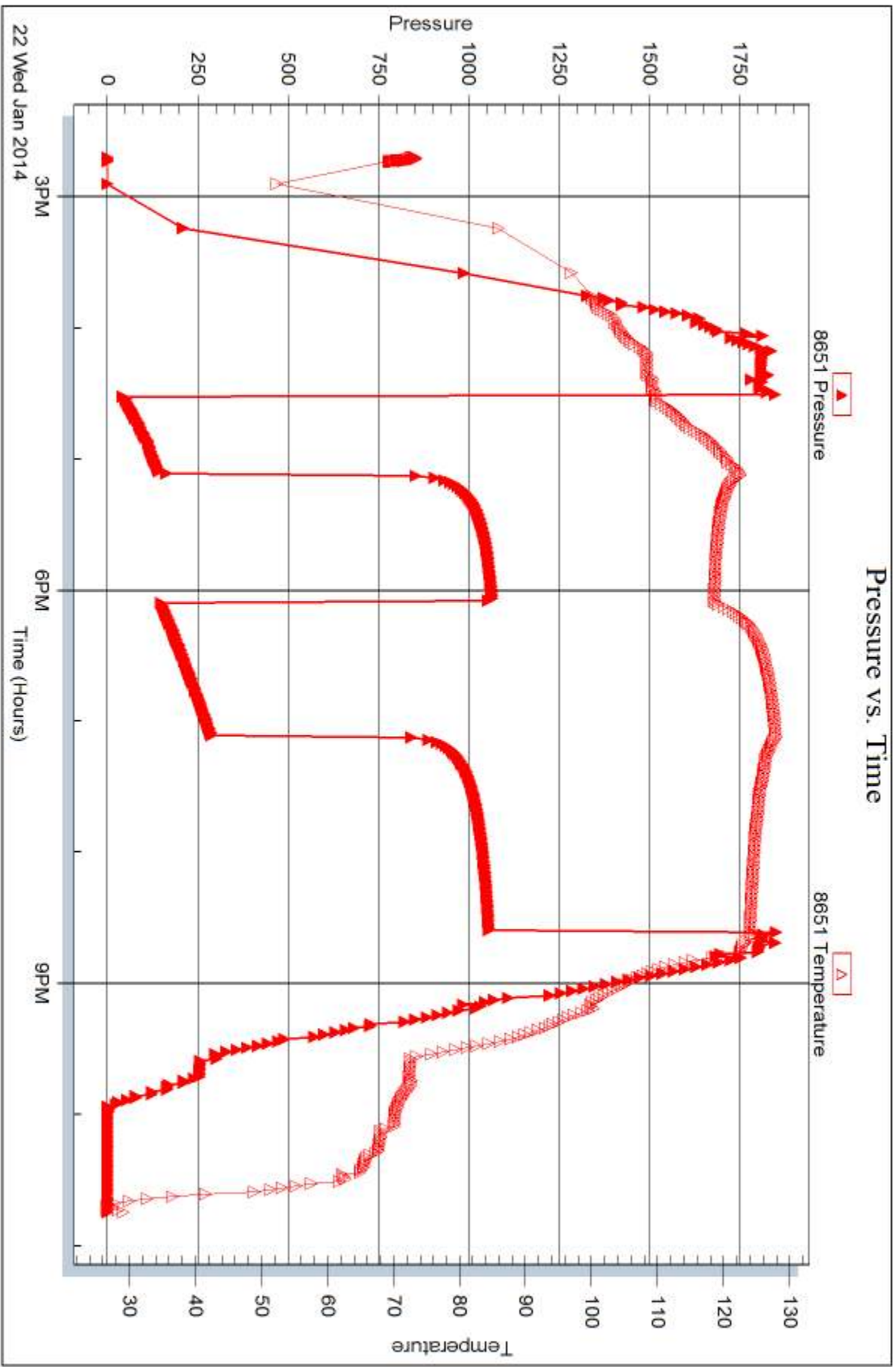
9PM

Serial #: 8651

Outside Murfin Drilling co.

Coppen #1-7

DST Test Number: 1



22 Wed Jan 2014 3PM

6PM

9PM

Triobite Testing, Inc

Ref. No: 56687

Printed: 2014.01.27 @ 15:22:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling co.**

250 N. Water Suite 300 Wichita KS. 67202

ATTN: Jeff Christian / Sco

Coppen #1-7

7-9s-27w Sheridan,KS

Start Date: 2014.01.23 @ 17:38:01

End Date: 2014.01.24 @ 03:16:30

Job Ticket #: 56688 DST #: 2

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

Printed: 2014.01.27 @ 15:20:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling co.
 250 N. Water Suite 300 Wichita KS. 67202
 ATTN: Jeff Christian / Sco

7-9s-27w Sheridan,KS
Coppen #1-7
 Job Ticket: 56688 **DST#: 2**
 Test Start: 2014.01.23 @ 17:38:01

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:17:00
 Time Test Ended: 03:16:30
 Interval: **3895.00 ft (KB) To 3968.00 ft (KB) (TVD)**
 Total Depth: 3968.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 61
 Reference Elevations: 2653.00 ft (KB)
 2648.00 ft (CF)
 KB to GR/CF: 5.00 ft

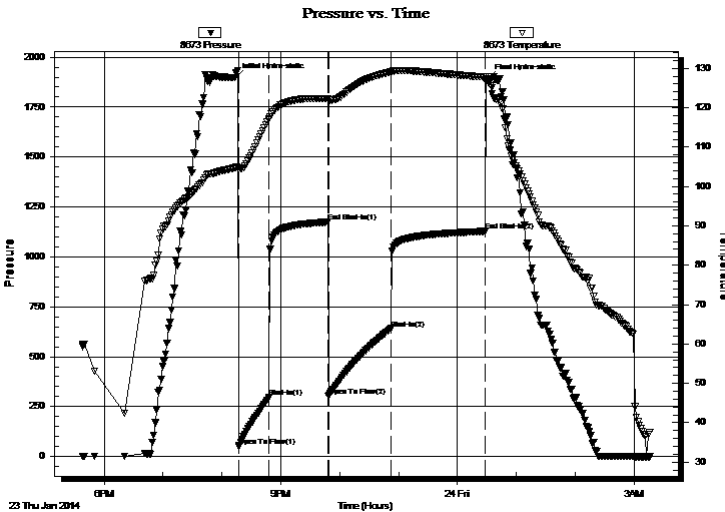
Serial #: 8673

Inside

Press@RunDepth: 640.63 psig @ 3902.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.23 End Date: 2014.01.24 Last Calib.: 2014.01.23
 Start Time: 17:38:01 End Time: 03:16:30 Time On Btm: 2014.01.23 @ 20:13:30
 Time Off Btm: 2014.01.24 @ 00:31:30

TEST COMMENT: I.F. - 30 - BOB in 4 min
 I.S.I. - 60 - Weak surface blow started at 40 min
 F.F. - 60 - BOB in 6 min
 F.S.I. - 90 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1897.63	104.77	Initial Hydro-static
4	50.56	104.32	Open To Flow (1)
35	295.08	117.23	Shut-In(1)
94	1174.24	122.27	End Shut-In(1)
95	302.83	121.96	Open To Flow (2)
159	640.63	129.09	Shut-In(2)
255	1127.98	127.75	End Shut-In(2)
258	1890.92	126.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
504.00	W,C,M, 20% WATER 80% MUD	6.78
315.00	S,M,C,W, 5% MUD 95% WATER	4.42
1134.00	WATER 100%	15.91

* 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.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56688

DST#: 2

ATTN: Jeff Christian / Sco

Test Start: 2014.01.23 @ 17:38:01

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3895.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	28.00 Bottom Of Top Packer
Packer	5.00			3895.00	
Stubb	1.00			3896.00	
Perforations	5.00			3901.00	
Change Over Sub	1.00			3902.00	
Recorder	0.00	8673	Inside	3902.00	
Recorder	0.00	8651	Outside	3902.00	
Drill Pipe	62.00			3964.00	
Change Over Sub	1.00			3965.00	
Bullnose	3.00			3968.00	73.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56688

DST#: 2

ATTN: Jeff Christian / Sco

Test Start: 2014.01.23 @ 17:38:01

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:

46000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
504.00	W,C,M, 20% WATER 80% MUD	6.778
315.00	S,M,C,W, 5% MUD 95% WATER	4.419
1134.00	WATER 100%	15.907

Total Length: 1953.00 ft Total Volume: 27.104 bbl

Num Fluid Samples: 0

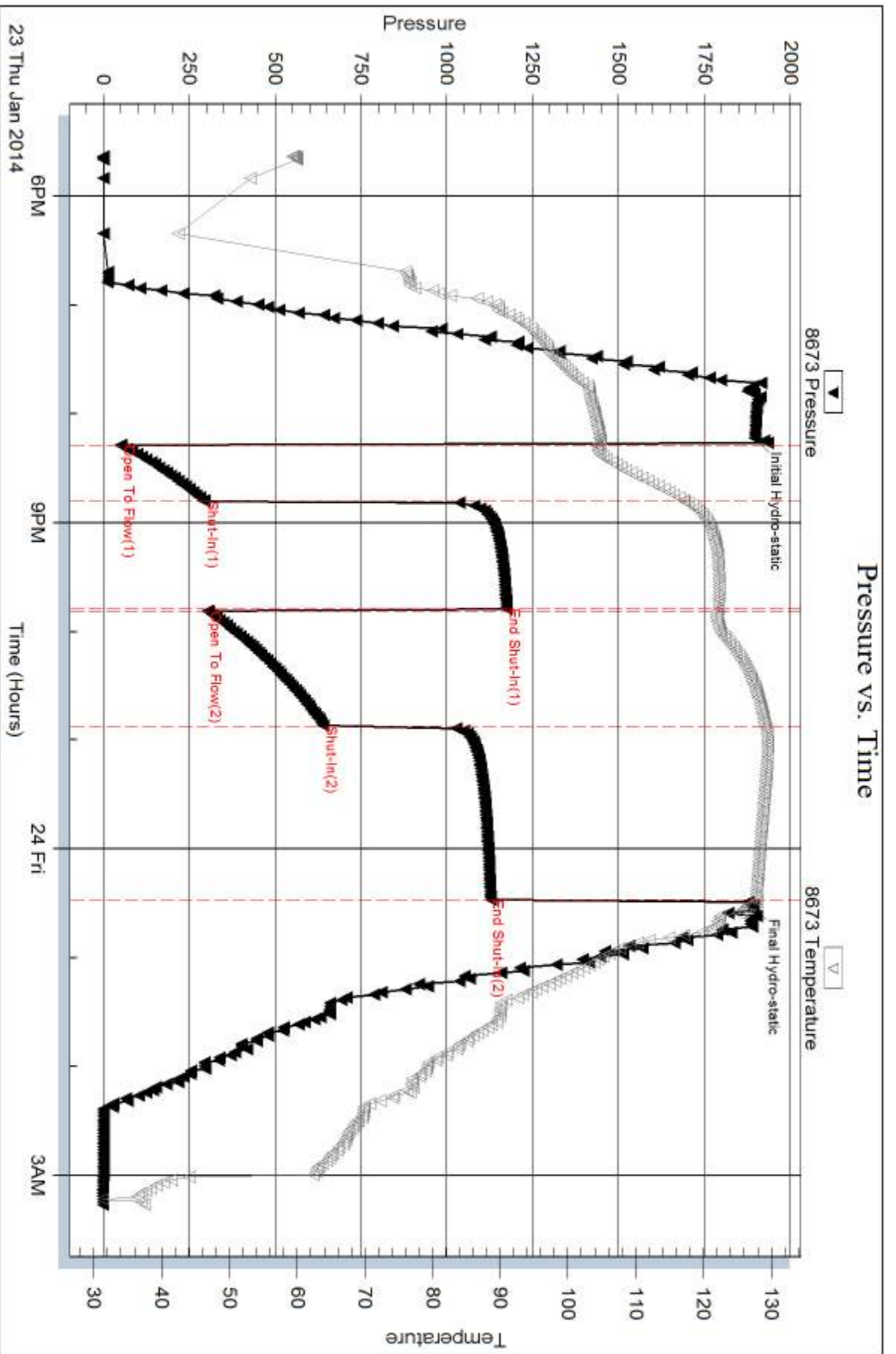
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 0.3 OHMS @ 37 DEG

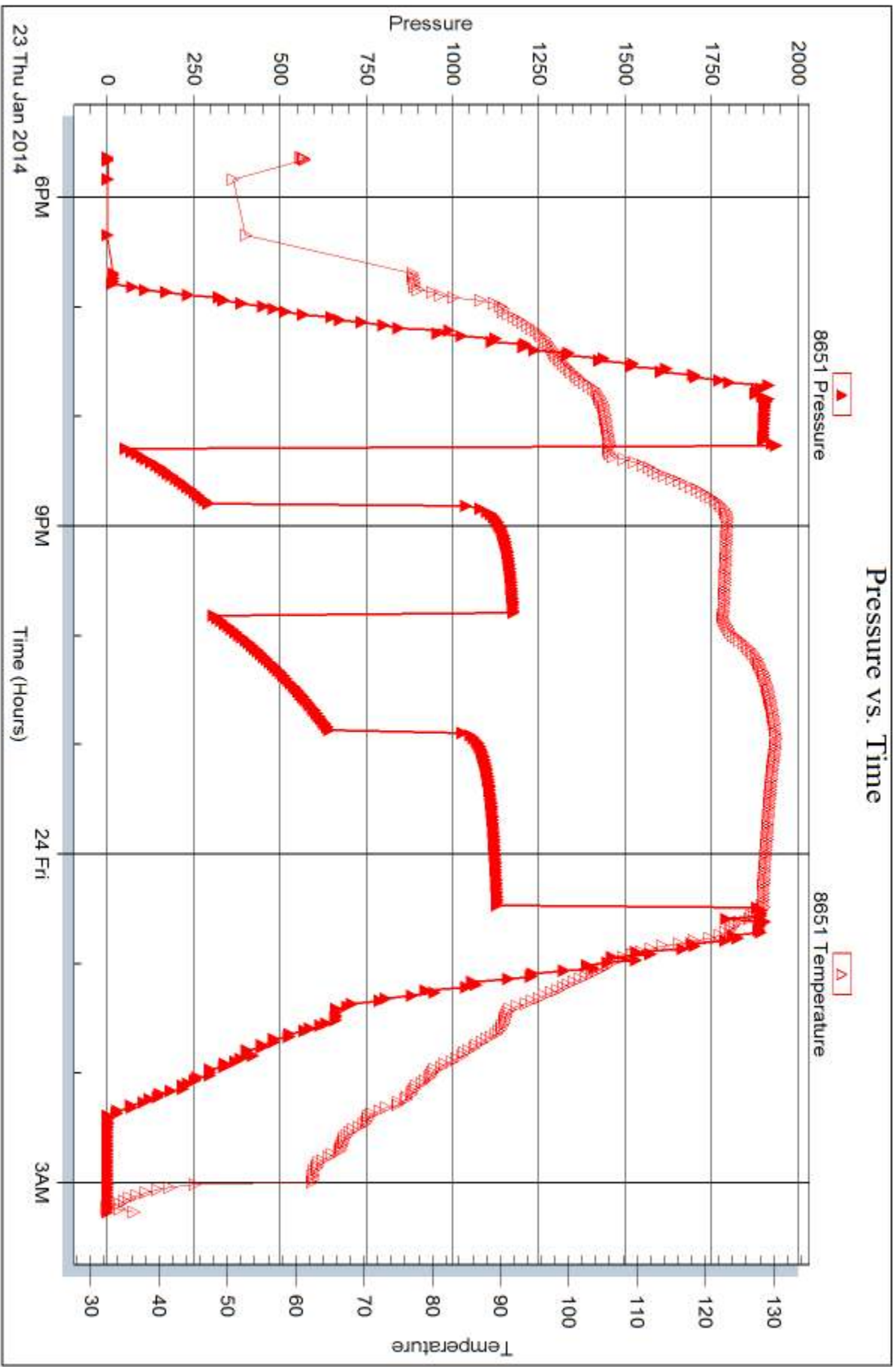


Serial #: 8651

Outside Murfin Drilling co.

Coppen #1-7

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling co.**

250 N. Water Suite 300 Wichita KS. 67202

ATTN: Jeff Christian / Sco

Coppen #1-7

7-9s-27w Sheridan,KS

Start Date: 2014.01.24 @ 10:20:00

End Date: 2014.01.24 @ 16:29:00

Job Ticket #: 56776 DST #: 3

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

Printed: 2014.01.27 @ 15:17:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling co.
250 N. Water Suite 300 Wichita KS. 67202
ATTN: Jeff Christian / Sco

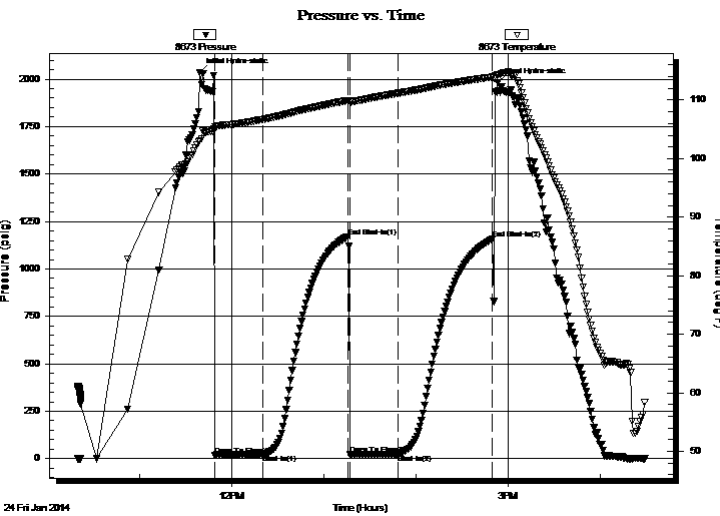
7-9s-27w Sheridan,KS
Coppen #1-7
Job Ticket: 56776 **DST#: 3**
Test Start: 2014.01.24 @ 10:20:00

GENERAL INFORMATION:

Formation: **LKC-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:00
Time Test Ended: 16:29:00
Interval: **3962.00 ft (KB) To 3990.00 ft (KB) (TVD)**
Total Depth: 3990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 2653.00 ft (KB)
2648.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 Inside
Press@RunDepth: 23.90 psig @ 3963.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.24 End Date: 2014.01.24 Last Calib.: 2014.01.24
Start Time: 10:20:01 End Time: 16:29:00 Time On Btm: 2014.01.24 @ 11:39:30
Time Off Btm: 2014.01.24 @ 14:53:00

TEST COMMENT: -----Slid 10 ft. to bottom.
IF: Weak blow, Built to 1 in. over 15 mins. Died back to surface over 30 mins.
IS: No blow back over 60 mins..
FF: Weak surface blow over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.43	103.02	Initial Hydro-static
10	19.12	105.03	Open To Flow (1)
41	21.60	106.69	Shut-In(1)
96	1170.08	109.93	End Shut-In(1)
98	21.97	109.65	Open To Flow (2)
129	23.90	111.14	Shut-In(2)
190	1156.53	113.93	End Shut-In(2)
194	1982.41	114.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud w ith oil specs	0.01

* 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.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56776

DST#: 3

ATTN: Jeff Christian / Sco

Test Start: 2014.01.24 @ 10:20:00

Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.25 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3962.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	3.00			3952.00	
Packer	5.00			3957.00	28.00 Bottom Of Top Packer
Packer	5.00			3962.00	
Stubb	1.00			3963.00	
Recorder	0.00	8673	Inside	3963.00	
Recorder	0.00	8651	Outside	3963.00	
Perforations	24.00			3987.00	
Bullnose	3.00			3990.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

7-9s-27w Sheridan,KS

250 N. Water Suite 300 Wichita KS. 67202

Coppen #1-7

Job Ticket: 56776

DST#: 3

ATTN: Jeff Christian / Sco

Test Start: 2014.01.24 @ 10:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud w ith oil specs	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

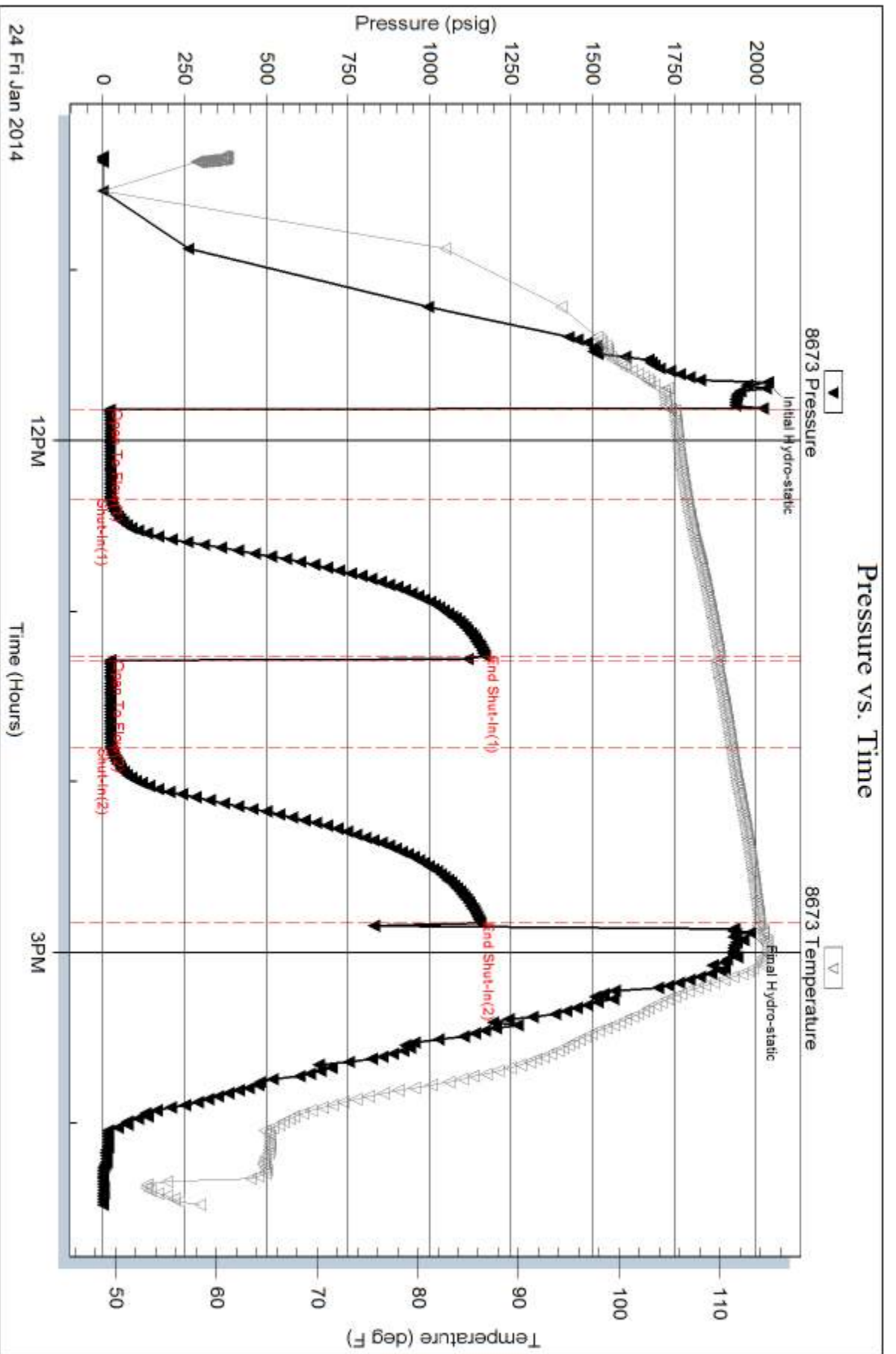
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

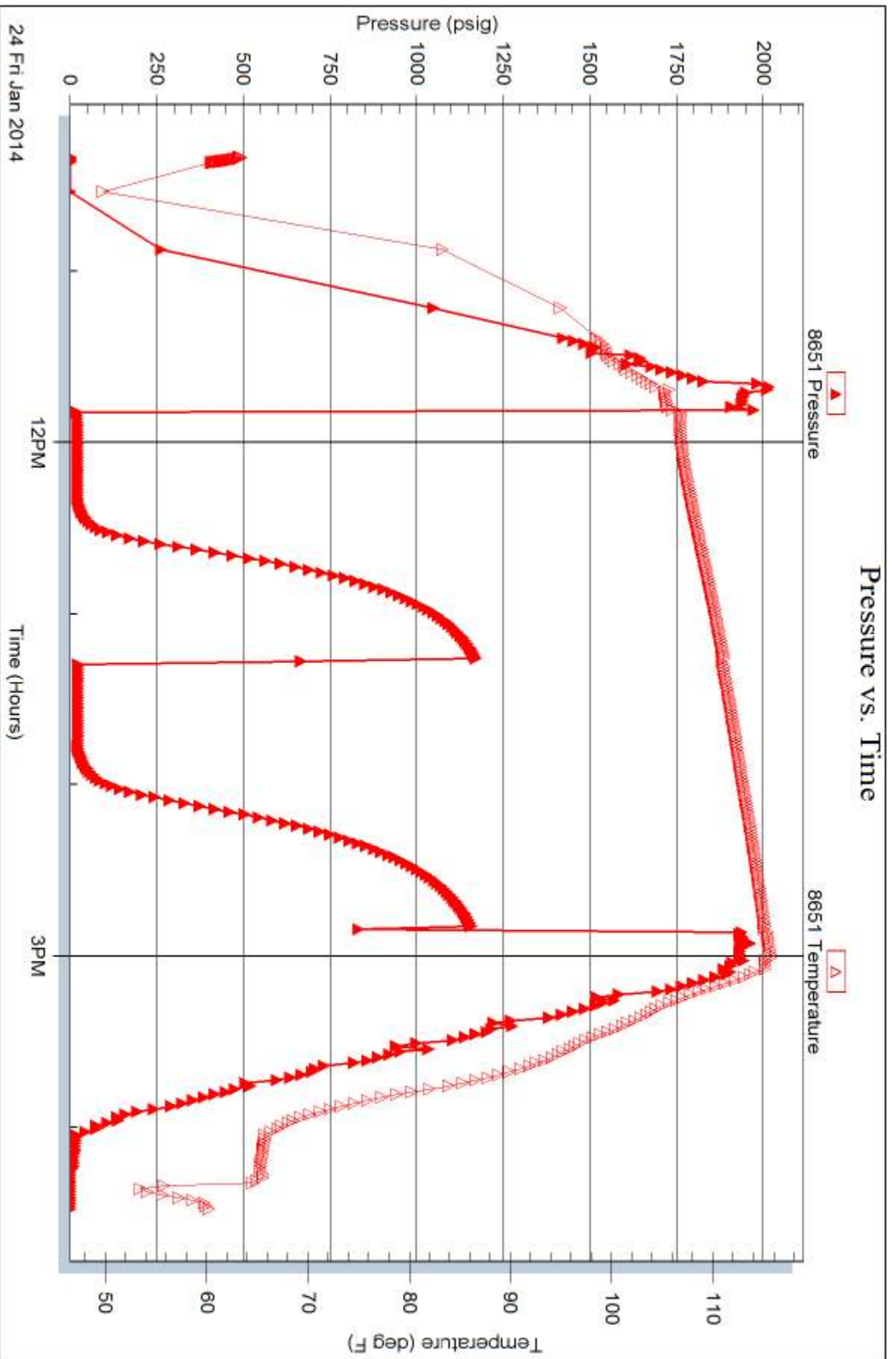


Serial #: 8651

Outside Murfin Drilling co.

Coppen #1-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56776

Printed: 2014.01.27 @ 15:17:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56687

Well Name & No. Copper #1-7 Test No. 1 Date 1-22-14
 Company Murfin Drilling Co. Elevation 2653 KB 2648 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin Rig #14
 Location: Sec. 7 Twp. 9-5 Rge. 27-W Co. Sheridan State KS.

Interval Tested 3,741 - 3800 Zone Tested toronto-LKC "A"
 Anchor Length 59' Drill Pipe Run 3,701 Mud Wt. 9.0
 Top Packer Depth 3,736 Drill Collars Run 32' Vis 56
 Bottom Packer Depth 3,741 Wt. Pipe Run --- WL 5.6
 Total Depth 3,800 Chlorides 4,200 ppm System LCM 2

Blow Description IF-30-W.S.B. (Died for 15 Min) then (B.O.B. ± N 30 Min.)
I.S.I-60-No B.B.
E.F-60-W.S.B. @ 2 min. Built to (B.O.B. in 28 Min.)
E.S.I-90-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec 500	Feet of				
Rec <u>451</u>	Feet of <u>S,W,C,M</u>			<u>5</u>	<u>95</u>
Rec <u>126</u>	Feet of <u>S,M,C,W</u>			<u>90</u>	<u>10</u>
Rec	Feet of				
Rec	Feet of				

Rec Total 577 BHT 123 Gravity --- API RW 0.6 @ 35° F Chlorides 23,000 ppm

(A) Initial Hydrostatic 1,824 Test 1150 T-On Location 13:25:00
 (B) First Initial Flow 39 Jars 250 T-Started 14:42:00
 (C) First Final Flow 143 Safety Joint 75 T-Open 16:33:00
 (D) Initial Shut-In 1,063 Circ Sub _____ T-Pulled 20:33:00
 (E) Second Initial Flow 146 Hourly Standby _____ T-Out 22:44:00
 (F) Second Final Flow 285 Mileage 96 Mi. R.T. 148.80 Comments _____
 (G) Final Shut-In 1,055 Sampler _____ "Thank-you"
 (H) Final Hydrostatic 1,812 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1623.80
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1623.80

Approved By _____ Our Representative Bob Howard

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. 56688

Well Name & No. Coppen #1-7 Test No. 2 Date 1-23-14
 Company Murfin Drilling Co. Elevation 2,653 KB 2,648 GL
 Address 250 N. Water suite 300 Wichita KS. 67202
 Co. Rep / Geo. Jeff Christian / Scott Robinson Rig Murfin Rig #16
 Location: Sec. 7 Twp. 9-S. Rge. 27-W Co. Sheridan State KS.

Interval Tested 3,895 - 3,968 Zone Tested h.k.c. "H-I-J"
 Anchor Length 73' Drill Pipe Run 3,862 Mud Wt. 9.1
 Top Packer Depth 3,890 Drill Collars Run 32' Vis 51
 Bottom Packer Depth 3,895 Wt. Pipe Run --- WL 6.0
 Total Depth 3,968 Chlorides 1,000 ppm System LCM 2

Blow Description I.F.-30-1/2 INT. Blow Built to (B.O.B. in 4 Min.)
I.S.I-60-~~---~~ Weak Surface @ 40 Min. Buil
E.F.-60-1/4 INT Blow Built to (B.O.B. in 6 min.)
F.S.I-90- No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>504</u>	<u>W, C, M</u>		<u>20</u>	<u>80</u>	
<u>315</u>	<u>S, M, C, W,</u>		<u>95</u>	<u>5</u>	
<u>1,134</u>	<u>W</u>		<u>100</u>		

Rec Total 1,953 BHT 126 Gravity --- API RW 0.3 @ 37° F Chlorides 96,000 ppm

(A) Initial Hydrostatic ~~1,898~~ 1,898 Test 1150 T-On Location 16:15:00
 (B) First Initial Flow 51 Jars 250 T-Started 17:38:00
 (C) First Final Flow 295 Safety Joint 75 T-Open 20:20:00
 (D) Initial Shut-In 1,174 Circ Sub _____ T-Pulled 00:20:00
 (E) Second Initial Flow 303 Hourly Standby _____ T-Out 03:16:00
 (F) Second Final Flow 641 Mileage 96 RT 148.80 Comments _____
 (G) Final Shut-In 1,128 Sampler _____ "Thank-you"
 (H) Final Hydrostatic 1,891 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1623.80
 Final Shut-In 90 Accessibility _____ MP/DST Disc'n _____
 Sub Total 1623.80

Approved By _____ Our Representative B. Ham

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. 56776

Well Name & No. Copper # 1-7 Test No. 3 Date 1-24-2013
 Company Murfin # 1-7 Elevation 2653 KB 2648 GL
 Address 250 N. Water St. 300 Wichita Ks. 67202
 Co. Rep / Geo. Jeff Christensen Rig Murfin # 16
 Location: Sec. 7 Twp. 9S Rge. 27W Co. Sheridan State Ks

Interval Tested 3962 3990 Zone Tested LKC-K
 Anchor Length 28 Drill Pipe Run 3927 Mud Wt. 9.0
 Top Packer Depth 3957 Drill Collars Run 32 Vis SS
 Bottom Packer Depth 3962 Wt. Pipe Run -0- WL 5.6
 Total Depth 3990 Chlorides 1,500 ppm System LCM 1#

Blow Description IF: Work blow, built to 1 in over 15 mins. Died back to surface over 30 mins
IST: No blow back over 60 mins.
FF: Work surface over 30 mins.
FST: No blow over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>mud with oil specs</u>				

Rec Total 3 BHT 111 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2035</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:16</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:20</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:44</u>
(D) Initial Shut-In <u>1170</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:50</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>16:29</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>55 x 2 = 110 x 1.55 = 170.50 = 341</u>	Comments <u>loaded tools 1/25 10:00</u>
(G) Final Shut-In <u>1157</u>	<input type="checkbox"/> Sampler <u>297.60</u> <u>Load tools</u>	
(H) Final Hydrostatic <u>1482</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>66</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1772.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1772.60</u>	

Approved By _____ Our Representative Chris Hoge

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.

Coppen #1-7
 Daily Drilling Report
 Page Two

1/25/14 RTD: 4110'. Cut 135'. DT: None. CT: 16¾ hrs. Dev.: ¾° @ 4110'. **DST #3 3961-3990' (LKC K):** 30-60-30-60. Slid 10' to bottom. IF: wk blw, built to 1" over 15mins. died back to surf over 30mins. FF: wk surf blw. Rec.: 3'M w/oil specs. HP: 2035-1982. FP: 19/22, 22/24. SIP: 1170-1157. BHT: 114°. HC @ 2:15AM 1/25. Pioneer started logging @ 6:00AM 1/25. LTD 4105'.

1/26/14 RTD: 4110'. CT: 13½ hrs. Pioneer finished logging @ 10:45AM 1/25. Allied plugged hole as follows using 60/40Poz, 4%Gel, 25sxs @ 2271', 100sxs 1385', 40sxs @ 268', 10sxs @ 40', 30sxs RH, 15sxs MH. Started @ 1:15PM, Compl @ 4:30PM 1/25. Orders by Pat Staab, Hays KCC. RR @ 8:30PM 1/25. FINAL REPORT

Coppen #1-7 725' FNL 1270' FWL Sec. 7-T9S-R27W 2653' KB	Haffner #1 2130' FNL 1065' FWL Sec. 12-T9S-R28W 2745' KB
--	---

Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2254	+399	+16	2251	+402	+19	2362	+383
B/Anhydrite	2288	+365	+15	2286	+367	+17	2395	+350
Topeka	3532	-879	Flat	3528	-875	+4	3624	-879
Heebner	3742	-1089	+3	3740	-1087	+5	3837	-1092
Lansing	3783	-1130	+3	3782	-1129	+4	3878	-1133
Stark	3963	-1310	+3	3962	-1309	+4	4058	-1313
BKC	4006	-1353	+6	4004	-1351	+8	4104	-1359
RTD	4110						4176	
LTD				4105			4175	



PO Box 93999
Southlake, TX 76092

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

*acct
Prod - LH*

INVOICE

Invoice Number: 140898

Invoice Date: Jan 18, 2014

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	61447	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 18, 2014	2/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Coppen #1-7		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
210.00	CEMENT SERVICE	Cubic Feet Charge	2.48	520.80
387.20	CEMENT SERVICE	Ton Mileage Charge	2.60	1,006.72
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Adam Flipse		

Q15N

Subtotal	7,826.77
Sales Tax	328.28
Total Invoice Amount	8,155.05
Payment/Credit Applied	
TOTAL	8,155.05

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

\$ 2,739.36 *35%*

ONLY IF PAID ON OR BEFORE

Feb 12, 2014

- 2739.36
5415.69

ALLIED OIL & GAS SERVICES, LLC 061447

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>1-18-14</u>	SEC. <u>7</u>	TWP. <u>9</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>4:15 p.m.</u>	JOB START <u>6:00 p.m.</u>	JOB FINISH <u>6:30 p.m.</u>
LEASE <u>Coppen</u>		WELL # <u>1-7</u>		LOCATION <u>Grainfield N to Redline</u>		COUNTY <u>Shelby</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>Rd 26 2N 1E</u>			

CONTRACTOR Murfin 16 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 220' CEMENT AMOUNT ORDERED 200 sks Com

CASING SIZE 8 5/8 DEPTH 220' 3% CC

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.06 bbl water

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

120 HELPER Tyler Flipse

BULK TRUCK

386 DRIVER Adam Flipse/Thomas (FWS)

BULK TRUCK

DRIVER

HANDLING 210 #3 @ 2.48 520.80

MILEAGE 9.68 hrs x 40 mi/hr = 387.2 @ 2.60 1006.72

TOTAL 5555.50

REMARKS:

mix 200 sks Com 3% CC
Displace w/ water (13 bbl)
Cement did circulate

Thank You!

SERVICE

DEPTH OF JOB 220

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE mi/hr 40 @ 7.70 308.00

MANIFOLD Head @ 275.00

MILV 40 @ 4.40 176.00

TOTAL 2276.25

CHARGE TO: Murfin Drlg.

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 AFD

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 7,826.77

DISCOUNT 2,739.36 IF PAID IN 30 DAYS

5,087.40 Net.



*acct
Prod-LH*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 141025

Invoice Date: Jan 25, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62484	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jan 25, 2014	2/24/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Coppen #1-7		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.27	CEMENT SERVICE	Cubic Feet Charge	2.48	585.95
394.40	CEMENT SERVICE	Ton Mileage Charge	2.60	1,025.44
1.00	CEMENT SERVICE	Plug to Abandon	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	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

AD

Subtotal	8,225.13
Sales Tax	670.35
Total Invoice Amount	8,895.48
Payment/Credit Applied	
TOTAL	8,895.48

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

\$ 2,840.29

ONLY IF PAID ON OR BEFORE

Feb 19, 2014

ALLIED OIL & GAS SERVICES, LLC 062484

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: oshley

DATE <u>1-25-11</u>	SEC. <u>7</u>	TWP. <u>9</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:30 PM</u>
LEASE <u>Coppen</u>	WELL# <u>1-2</u>	LOCATION <u>Grainfield 11N 2E</u>			COUNTY <u>Sheridan</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>2N 1E</u>				

CONTRACTOR <u>Murfin 2/6</u>	OWNER <u>same</u>
TYPE OF JOB <u>DTA</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D. <u>4110</u>	AMOUNT ORDERED <u>220 sks 2 1/2" @</u>
CASING SIZE _____ DEPTH _____	<u>4009 el 1/4" flo-seal</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE <u>2 1/2</u> DEPTH <u>2271</u>	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>132 sks @ 17.90 2362.80</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX <u>88 sks @ 9.35 822.80</u>
CEMENT LEFT IN CSG. _____	GEL <u>8 sks @ 23.40 187.20</u>
PERFS. _____	CHLORIDE _____ @ _____
DISPLACEMENT _____	ASC _____ @ _____

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>Andrew Forstaud</u>	<u>Flo-seal 55#</u>	@ <u>8.97</u>	<u>163.35</u>
	HELPER <u>Brandon Wilkinson</u>		@	
BULK TRUCK # <u>396</u>	DRIVER <u>Thomas (TMS)</u>		@	
BULK TRUCK # _____	DRIVER _____		@	
		HANDLING <u>236.27 @/ft</u>	@ <u>2.48</u>	<u>585.94</u>
		MILEAGE <u>2.60 ton/mile</u>	@ <u>9.86 ton</u>	<u>1025.44</u>
				TOTAL 5147.53

REMARKS:

25 sks @ 2271'
100 sks @ 1385'
40 sks @ 268'
10 sks @ 40'
15 sks mousehole
30 sks Rat hole

Thank you

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

SERVICE

DEPTH OF JOB <u>2271</u>	
PUMP TRUCK CHARGE _____	<u>2483.59</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>47 miles</u>	@ <u>7.20 308.00</u>
MANIFOLD _____ @ _____	
<u>Light vehicle</u>	@ <u>4.40 176.00</u>
	@ _____
	TOTAL 2962.59

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	
<u>1 wooden Plug</u>	@ <u>110.00</u>
	@ _____
	@ _____
	@ _____
	@ _____
	TOTAL 110.00

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 AEF
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 8,225.12
DISCOUNT 2,740.29 IF PAID IN 30 DAYS
5,384.82 Net.