



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219327
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: _____

1219327

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Burk Trust 'A' 4-23
Doc ID	1219327

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Robert D. Hendrix

Petroleum Geologist

GEOLOGISTS REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Company Inc.**

LEASE **Burk Trust A #4-23**

FIELD **East Fork**

LOCATION **23107mi & 1650fwi**

SEC **23** TWP **1S** RGE **36W**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Inc. Rig #2**

SPUD **5/16/2014** COMP **5/24/2014**

RTD **4:58PM** LTD **4:57PM**

MUD UP **3:40PM** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3560'** TO **TD**

DRILLING TIME KEPT FROM **3:56PM** TO **TD**

SAMPLES EXAMINED FROM **3560'** TO **TD**

GEOLOGICAL SUPERVISION FROM **3560'**

GEOLOGIST ON WELL **Robert D. Hendrix**

PROBES: Induction, Micro, Sonic

PROBES: Energy, Services

ELEVATIONS **KB-3276'**

DF **3265'**

GL **3265'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR

SURFACE **8:88" @ 225'**

PRODUCTION **5 1/2" @ 4576'**

ELECTRICAL SURVEYS

FORMATION TOPS

ANHYDRITE

NEVA

FORAKER

TOPEKA

OREAD

LANSING

STARK SHALE

BKC

RTD

AP# 15-153-21013

REMARKS:

LEGEND

	Anhydrite
	Sandstone
	Limestone
	Shale
	Carb Sh
	Cherty LS
	Chert
	Dolomite

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3150			Anhydrite 3180 (+96)
3200			Base Anhydrite 3218 (+58)
3230			Geologist on location 3502' at 12:00 pm 5/18/2014
3550		Shale: red, brown, some gray, silty, sl sandy	
3600		Shale: red, sandy	
3650		Shale: red, gray, blocky, silty	
3700		Shale: red, brown, some gray, silty, sl sandy	
3750		Limestone: tan to white, f-mxn, sl chalky, sl oolitic, fossiliferous, no vis por, ns	Neva 3667 (-391)
3800		Shale: red, gray, blocky, silty	
3850		Shale: red, brown, gray, silty, sandy	
3900		Sandstone: white to gray, vf gr, md, well srt, calcareous cmnt, friable, no vis por, ns	Red Eagle 3727 (-451)
3950		Limestone: white to tan, f-mxn, chalky, sl oolitic, fossiliferous, no vis por	
4000		Limestone: lt gray to tan, fxn, fossiliferous, no vis por	
4050		Shale: red, brown, gray, silty	
4100		Limestone: white, f-mxn, sl chalky, fossiliferous, sl interxn por, 80% sample fr dark spotty flaky dead stain, nfo, no odor	Foraker 3776 (-500)
4150		Limestone: white to lt brown, f-mxn, chalky, fossiliferous, no vis por	
4200		Limestone: tan to brown, fxn, dense, no vis por	
4250		Shale: gray, brown, silty	
4300		Dolomite: tan, fxn, sl chalky, granular, pr pp por, ns	8:00am, 5/19/2014 wt 9.1, vis. 62, lcm 12# Morgan Mud, Dave Lines
4350		Shale: red, gray, silty, sandy	
4400		Limestone: tan to white, fxn, chalky, sl oolitic, fossiliferous, no vis por	
4450		Shale: gray, brown, red, silty, blocky in part	
4500		Limestone: tan (red stained), fxn, sl chalky, granular, no vis por, ns	
4550		Shale: red, gray, black	
4600		Limestone: tan to white, f-mxn, sl chalky, v-fossiliferous, no vis por	
4650		Shale: red, gray, green, silty	
4700		Limestone: tan to gray to white, fxn, sl chalky, sl fossiliferous, no vis por, ns	
4750		Shale: red, gray, silty	
4800		Limestone: tan to white, mxn, oolitic in part, v-fossiliferous, no vis por, ns	
4850		Shale: red, gray, silty	
4900		Limestone: tan to white, f-mxn, oolitic, v-fossiliferous with abundant calcite replacement with several large pieces of calcite float, no vis por	Topeka 3995 (-719)
4950		Limestone: white to tan red stained, f-mxn, sl chalky, v-fossiliferous, no vis por, ns	
5000		Limestone: white, fxn, dense, sl fossiliferous, no vis por, ns	
5050		Shale: red, brown, v-sandy, silty	
5100		Shale: gray, dark gray, red (sandy)	
5150		Limestone: white, f-mxn, oolitic, fossiliferous, no vis por, ns	
5200		Shale: purple, brown, gray, red, silty	
5250		Shale: red, gray, silty	
5300		Dolomite: white to tan, f-mxn, granular, pr vug por, ns	Oread 4106 (-830)
5350		Dolomite W Limestone: tan to white, f-mxn, sl oolitic, fossiliferous, pr interxn por, 3 pieces w dead flaky oil stain, nfo, no odor	8:00am, 5/20/2014 wt 9.0, vis. 69, lcm 7# Morgan Mud, Dave Lines
5400		Limestone: gray, fxn, dense, no vis por	
5450		Shale: dark gray, gray, silty	
5500		Limestone: tan to white, mxn, oolitic in part, v-fossiliferous, no vis por, ns	
5550		Shale: red, gray, black, silty	
5600		Shale: red, gray, silty	
5650		Limestone: tan to lt gray, fxn, sl chalky, dense, no vis por, ns	Lansing 4208 (-932)
5700		Shale: gray, red, silty	
5750		Sandstone: gray, vf-gr, md, well srt, hard, calcareous, argillaceous, no vis por, ns	
5800		Shale: red, gray, muddy, silty	
5850		Shale: red, brown, gray, silty, sandy	
5900		Limestone: tan to white, fxn, sl pyritic, fossiliferous, pr interxn por, 10% sample dark spotty to sat stain, slsfo, faint odor	DST #1 4226-4280 30-60-60-90 1st open: blow built to 9 1/2" 1st shut in: wk bb built to 1 1/4" 2nd open: blow built to 11" 2nd shut in: wk kb, died off Rec: 20' slg&mco 2/6/92 25' slg&mco 2/35/63 118' slg&wcm 3/7/21/69 178' slg&wcm 3/5/36/56 hydro: 2210-2087 psi lf: 25-95 psi ff: 105-147 psi sip: 412-400 psi bht: 139°F gravity: 24°api
5950		Shale: red, gray, silty, sl sandy	
6000		Limestone: tan to gray, fxn, chalky, pr vug por, 3 pieces dark spotty stain, nfo, no odor	8:00am, 5/21/2014 wt 9.3, vis. 62, lcm 10# Morgan Mud, Dave Lines
6050		Shale: gray, dark gray, red	
6100		Limestone: white to tan, f-mxn, sl chalky, oolitic in part, fossiliferous, pr pp to vug por, 10% sample dark sat stain, slsfo, faint odor	DST #2 4294-4340 30-60-60-90 1st open: blow built to 4 1/2" 2nd open: blow built to 6" no returns Rec: 45' slg&mco 4/5/91 80' slg&ocm 8/35/67 hydro: 2224-2064 psi lf: 27-53 psi ff: 55-68 psi sip: 282-238 psi bht: 137°F gravity: 31.6°api
6150		Limestone: white, fxn, chalky, sl oolitic, v-fossiliferous, no vis por	
6200		Shale: gray, red, green, silty	
6250		Limestone: tan to white, fxn, dense, no vis por, 2 pieces dark spotty stain, nfo, no odor	8:00am, 5/22/2014
6300		Shale: gray, green, red, pyritic	
6350		Limestone: tan to white, f-mxn, oolitic in part, fossiliferous, pr interxn por, ns	
6400		Shale: gray, green, red	
6450		Limestone: tan to gray, fxn, sl chalky, sl fossiliferous, no vis por	
6500		Shale: red, gray, silty	
6550		Limestone: white to tan, f-mxn, sl chalky, oolitic in part, fossiliferous, pr pp to vug por, 5% sample dark spotty to sat stain, slsfo, faint odor	DST #3 4380-4430 30-60-60-90 1st open: blow built to 9" 2nd open: blow began at 8 min blow built to 8" no returns Rec: 126' mw-w-trace oil 40/60 235' mcw-w-trace oil 17/63 hydro: 2314-2146 psi lf: 105-123 psi ff: 122-185 psi sip: 302-299 psi bht: 145°F chlorides: 20,000 ppm
6550		Shale: gray, black	
6600		Shale: red, gray, brown silty	
6650		Shale: red, sl gray, silty	
6700		Limestone: white to lt gray, fxn, granular in part, fossiliferous, no vis por	
6750		Shale: red, sl gray, silty	
6800		Limestone: tan to gray, fxn, fossiliferous, no vis por	
6850		Shale: red, gray, green, silty	
6900		Limestone: white, f-mxn, sl chalky, fossiliferous, pr interxn por, ns	8:00am, 5/23/2014
6950		Shale: gray, red silty	
7000		Limestone: tan to lt gray, fxn, chalky, sl fossiliferous, soft, no vis por, ns	
7050		Shale: gray, red silty	
7100		Sandstone: clear white, lt, fn-md grn, sub, md, mod sorted, pr intergranular por, ns	
7150		Shale: gray, red brown, yellow, sandy, silty	
7200		Limestone: white to tan, f-mxn, sl cherty, oolitic in part, fossiliferous, no vis por, ns	
7250		Shale: gray, silty	
7300		Limestone: white to gray, fxn, dense, silty, sl fossiliferous, no vis por, ns	RTD 4580 (-1304)
7350			Geologist off location at 2:20pm, 5/24/2014



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.21 @ 02:48:00

End Date: 2014.05.21 @ 10:42:30

Job Ticket #: 58167 DST #: 1

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

Printed: 2014.05.23 @ 10:00:15

Murfin Drilling Co., Inc.
23-1s-36w Rawlins KS
Burk Trust 'A' #4-23
DST # 1
LKC "D"
2014.05.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:41:45

Time Test Ended: 10:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4226.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 146.65 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 02:48:05

End Time:

10:42:29

Time On Btm:

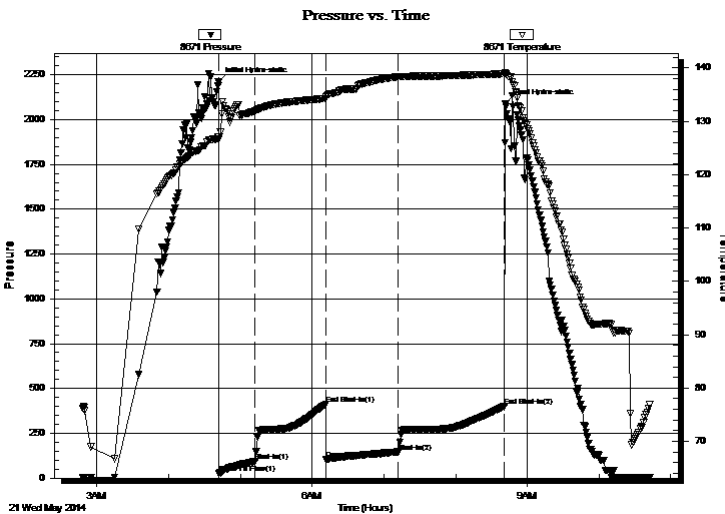
2014.05.21 @ 04:41:30

Time Off Btm:

2014.05.21 @ 08:41:45

TEST COMMENT: 30 - IF: Blow built to 9 1/2"
60 - IS: Blow back built to 1/8"
60 - FF: Blow built to BOB (11") at 60 min.
90 - FS: Weak blow back then died off

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.61	127.16	Initial Hydro-static
1	25.46	126.54	Open To Flow (1)
31	94.95	131.94	Shut-In(1)
90	411.69	134.30	End Shut-In(1)
91	104.74	134.51	Open To Flow (2)
151	146.65	138.38	Shut-In(2)
240	400.02	138.92	End Shut-In(2)
241	2087.27	138.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	SO/WCM 56% _m , 36% _w , 5% _g , 3% _o	0.58
118.00	OWCM 69% _m , 21% _w , 7% _o , 3% _g	0.86
25.00	MCO 63% _o , 35% _m , 2% _g	0.35
20.00	CO 92% _o , 6% _m , 2% _g	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

Tool Information

Drill Pipe:	Length: 4005.00 ft	Diameter: 3.80 inches	Volume: 56.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4226.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4203.00	
Hydraulic tool	5.00			4208.00	
Jars	5.00			4213.00	
Safety Joint	3.00			4216.00	
Packer	5.00			4221.00	28.00 Bottom Of Top Packer
Packer	5.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	8671	Inside	4227.00	
Recorder	0.00	8320	Outside	4227.00	
Perforations	15.00			4242.00	
Blank Spacing	33.00			4275.00	
Perforations	2.00			4277.00	
Bullnose	3.00			4280.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
117.00	SO/WCM 56%m, 36%w, 5%g, 3%o	0.575
118.00	OWCM 69%m, 21%w, 7%o, 3%g	0.863
25.00	MCO 63%o, 35%m, 2%g	0.351
20.00	CO 92%o, 6%m, 2%g	0.281

Total Length: 280.00 ft Total Volume: 2.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

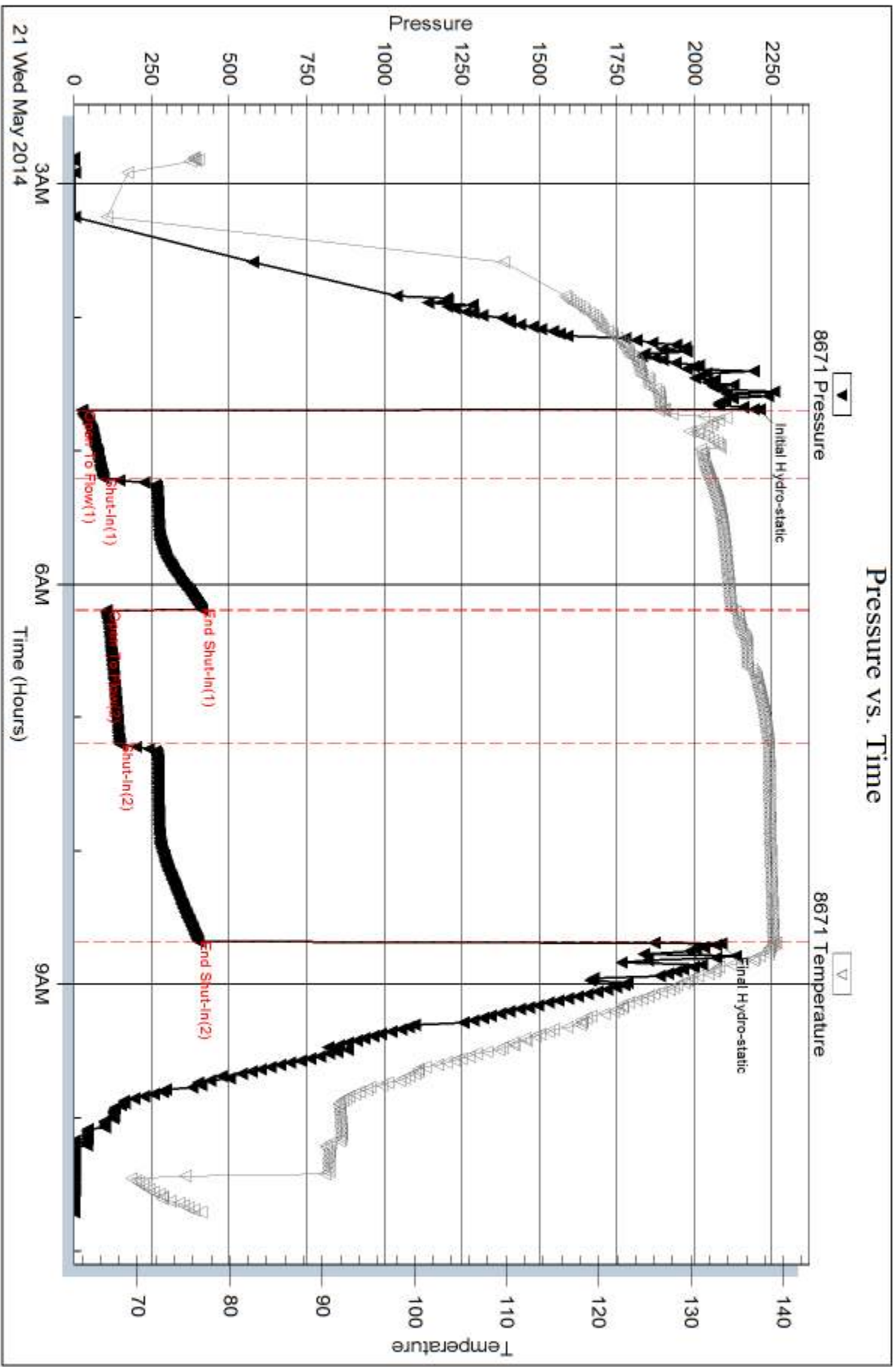
Serial #:

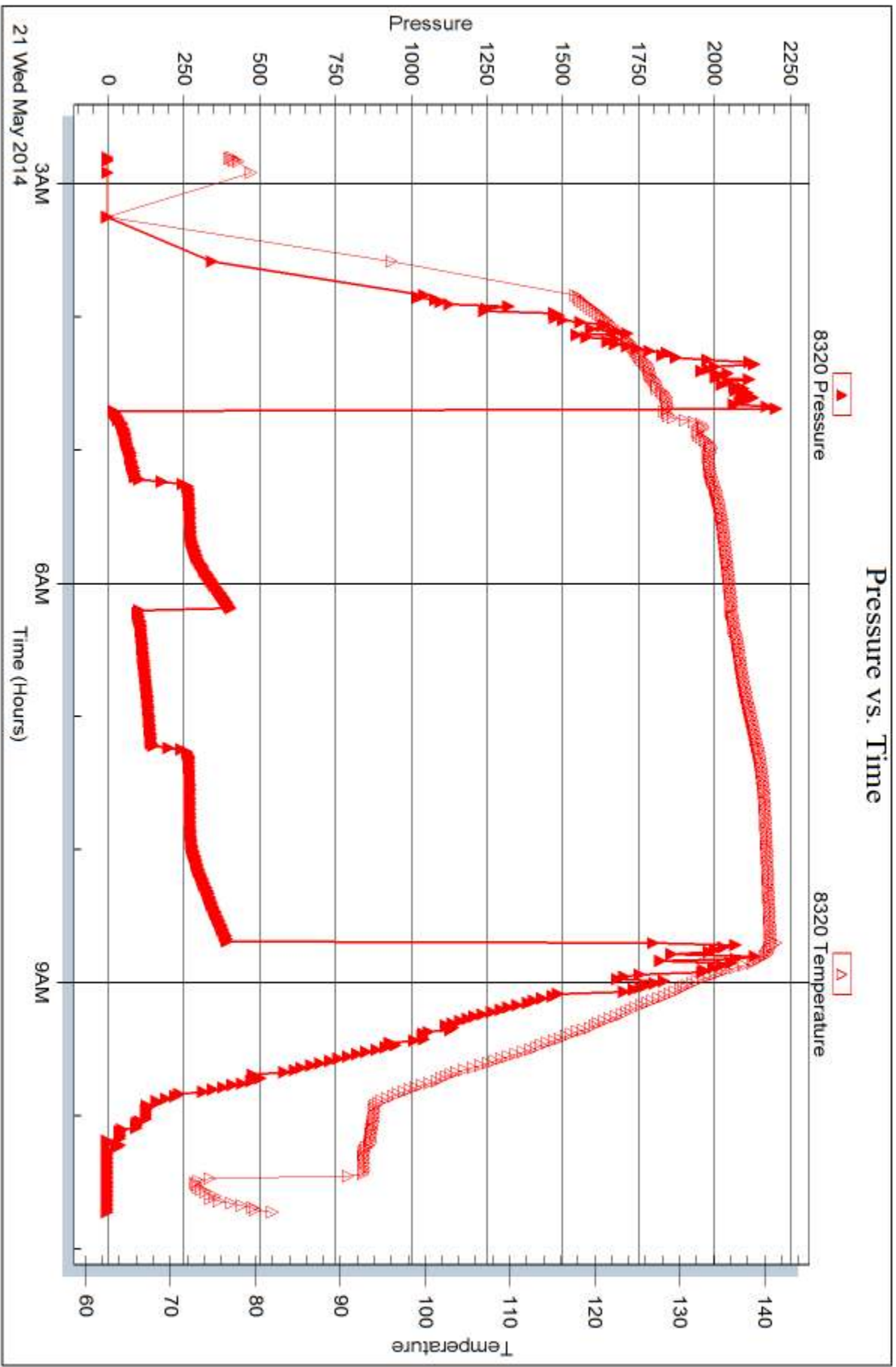
Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 10#

Gravity = 26 api @ 80 deg F Corrected Gravity = 24 api







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.21 @ 21:00:00

End Date: 2014.05.22 @ 04:41:15

Job Ticket #: 58168 DST #: 2

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

Printed: 2014.05.23 @ 09:50:11

Murfin Drilling Co., Inc.
23-1s-36w Rawlins KS
Burk Trust 'A' #4-23
DST # 2
LKC "G"
2014.05.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:32:45

Time Test Ended: 04:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4294.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 67.95 psig @ 4295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.22

Last Calib.:

2014.05.22

Start Time: 21:00:05

End Time:

04:41:14

Time On Btm:

2014.05.21 @ 22:32:15

Time Off Btm:

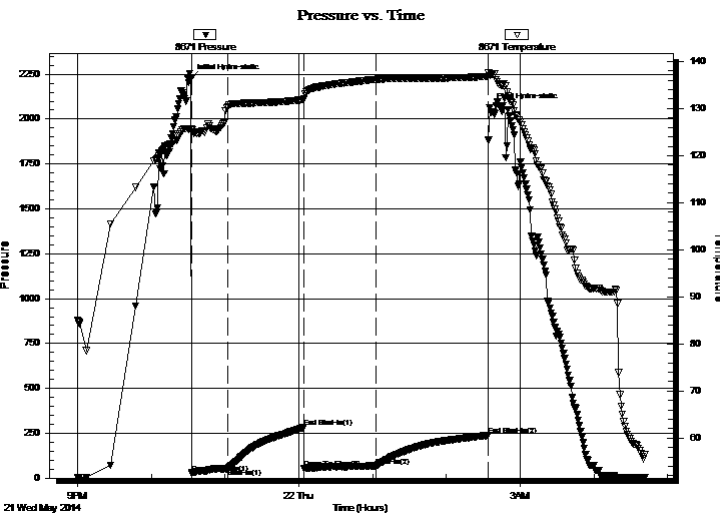
2014.05.22 @ 02:35:15

TEST COMMENT: 30 - IF: Blow built to 4 1/2"

60 - IS: No blow back

60 - FF: Blow built to 6"

90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.67	125.75	Initial Hydro-static
1	26.51	124.95	Open To Flow (1)
30	53.18	130.36	Shut-In(1)
92	282.05	131.88	End Shut-In(1)
92	55.34	132.02	Open To Flow (2)
151	67.95	136.20	Shut-In(2)
242	237.62	136.83	End Shut-In(2)
243	2063.92	137.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	CO 91%o, 5%m, 4%g	0.22
80.00	OCM 67%m, 25%o, 8%g	0.39

* 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.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4069.00 ft	Diameter: 3.80 inches	Volume: 57.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4294.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			4271.00	
Hydraulic tool	5.00			4276.00	
Jars	5.00			4281.00	
Safety Joint	3.00			4284.00	
Packer	5.00			4289.00	28.00 Bottom Of Top Packer
Packer	5.00			4294.00	
Stubb	1.00			4295.00	
Recorder	0.00	8671	Inside	4295.00	
Recorder	0.00	8320	Outside	4295.00	
Perforations	9.00			4304.00	
Blank Spacing	33.00			4337.00	
Bullnose	3.00			4340.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	CO 91%o, 5%m, 4%g	0.221
80.00	OCM 67%m, 25%o, 8%g	0.393

Total Length: 125.00 ft Total Volume: 0.614 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

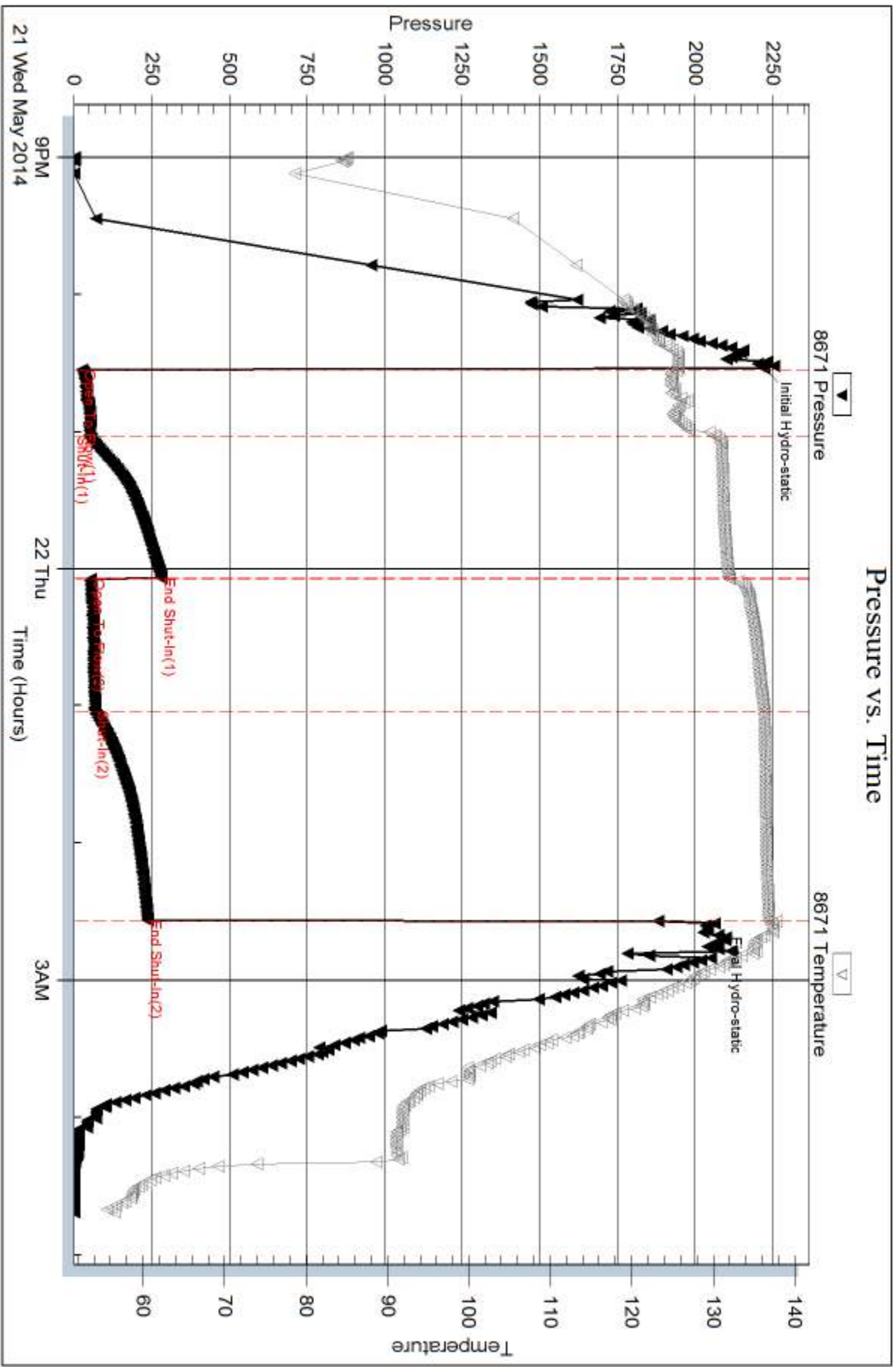
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 31.2 api @ 56 deg F

Corrected Gravity = 31.6 api

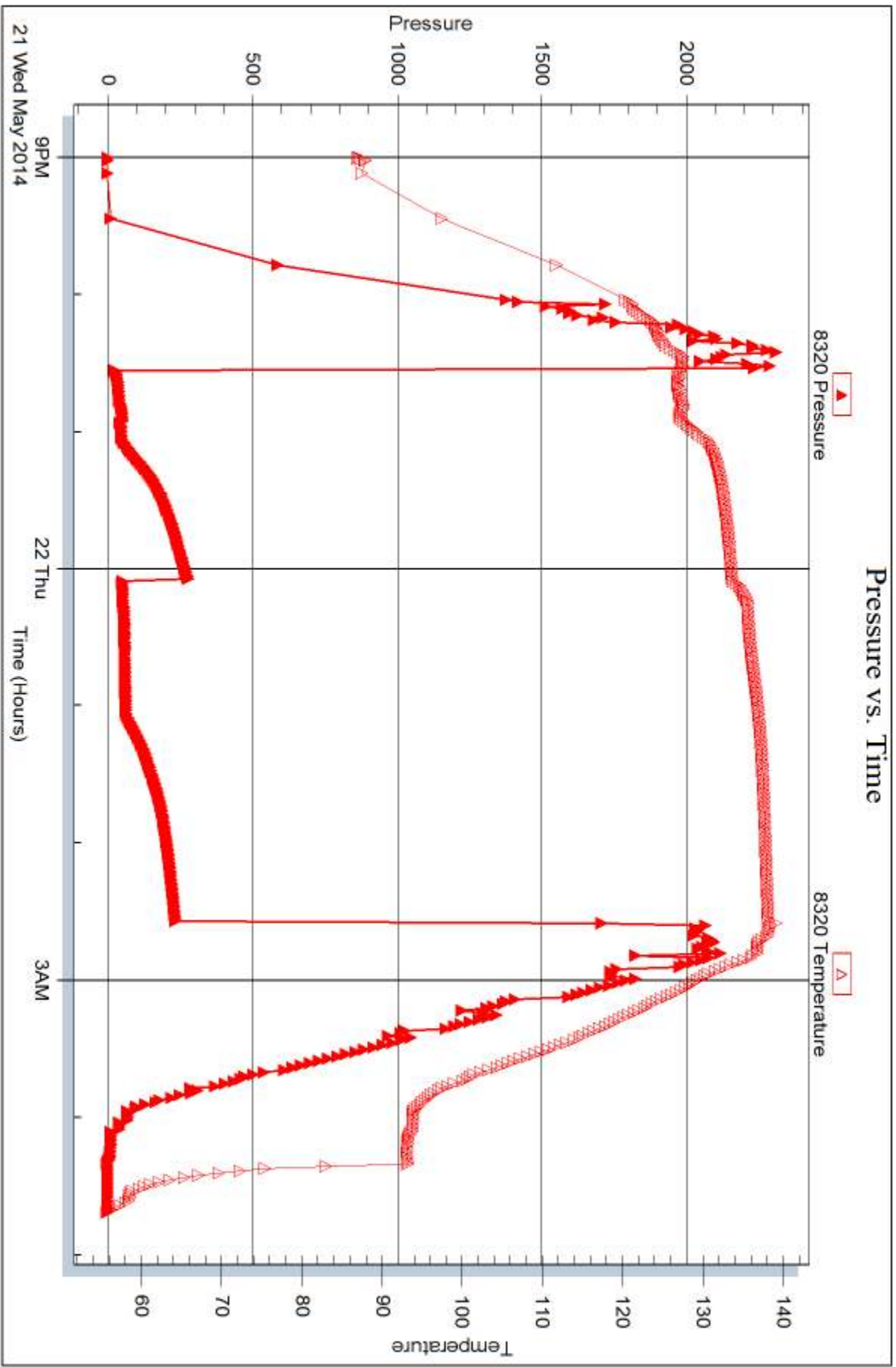


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58168

Printed: 2014.05.23 @ 09:50:12



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.22 @ 17:08:00

End Date: 2014.05.23 @ 01:21:00

Job Ticket #: 58169 DST #: 3

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

Printed: 2014.05.23 @ 09:49:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:13:30

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4380.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 184.84 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22

End Date:

2014.05.23

Last Calib.:

2014.05.23

Start Time:

17:08:05

End Time:

01:20:59

Time On Btm:

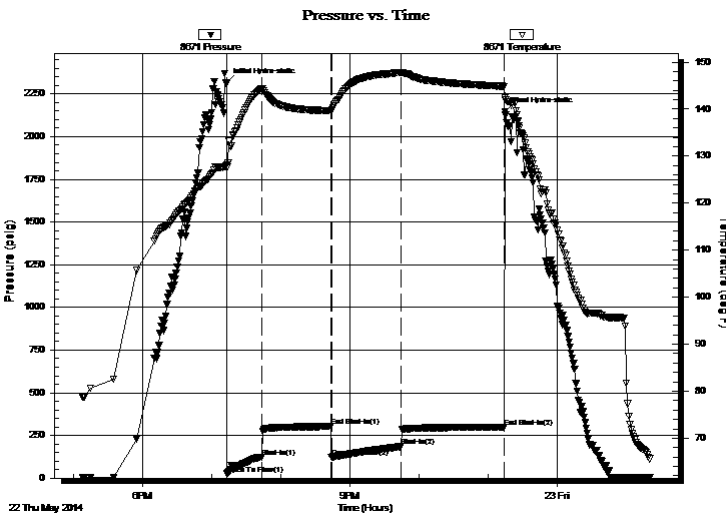
2014.05.22 @ 19:13:15

Time Off Btm:

2014.05.22 @ 23:15:00

TEST COMMENT: 30 - IF: Blow built to 9"
60 - IS: No blow back
60 - FF: Blow started at 8 min., built to 8"
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.74	128.26	Initial Hydro-static
1	24.77	127.66	Open To Flow (1)
31	122.77	144.33	Shut-In(1)
91	302.08	139.67	End Shut-In(1)
91	121.63	139.70	Open To Flow (2)
151	184.84	147.82	Shut-In(2)
241	299.18	144.86	End Shut-In(2)
242	2145.88	142.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	MCW w/trace oil 83%w, 17%m	1.44
126.00	MW w/trace oil 60%w, 40%m	1.77

* 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.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

Tool Information

Drill Pipe:	Length: 4163.00 ft	Diameter: 3.80 inches	Volume: 58.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4380.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			4357.00	
Hydraulic tool	5.00			4362.00	
Jars	5.00			4367.00	
Safety Joint	3.00			4370.00	
Packer	5.00			4375.00	28.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8671	Inside	4381.00	
Recorder	0.00	8320	Outside	4381.00	
Perforations	9.00			4390.00	
Blank Spacing	33.00			4423.00	
Perforations	4.00			4427.00	
Bullnose	3.00			4430.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 20000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
235.00	MCW w /trace oil 83%w , 17%m	1.438
126.00	MW w /trace oil 60%w , 40%m	1.767

Total Length: 361.00 ft Total Volume: 3.205 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .371 ohms @ 64.5 deg F
Chlorides = 20,000 ppm

Serial #: 8671

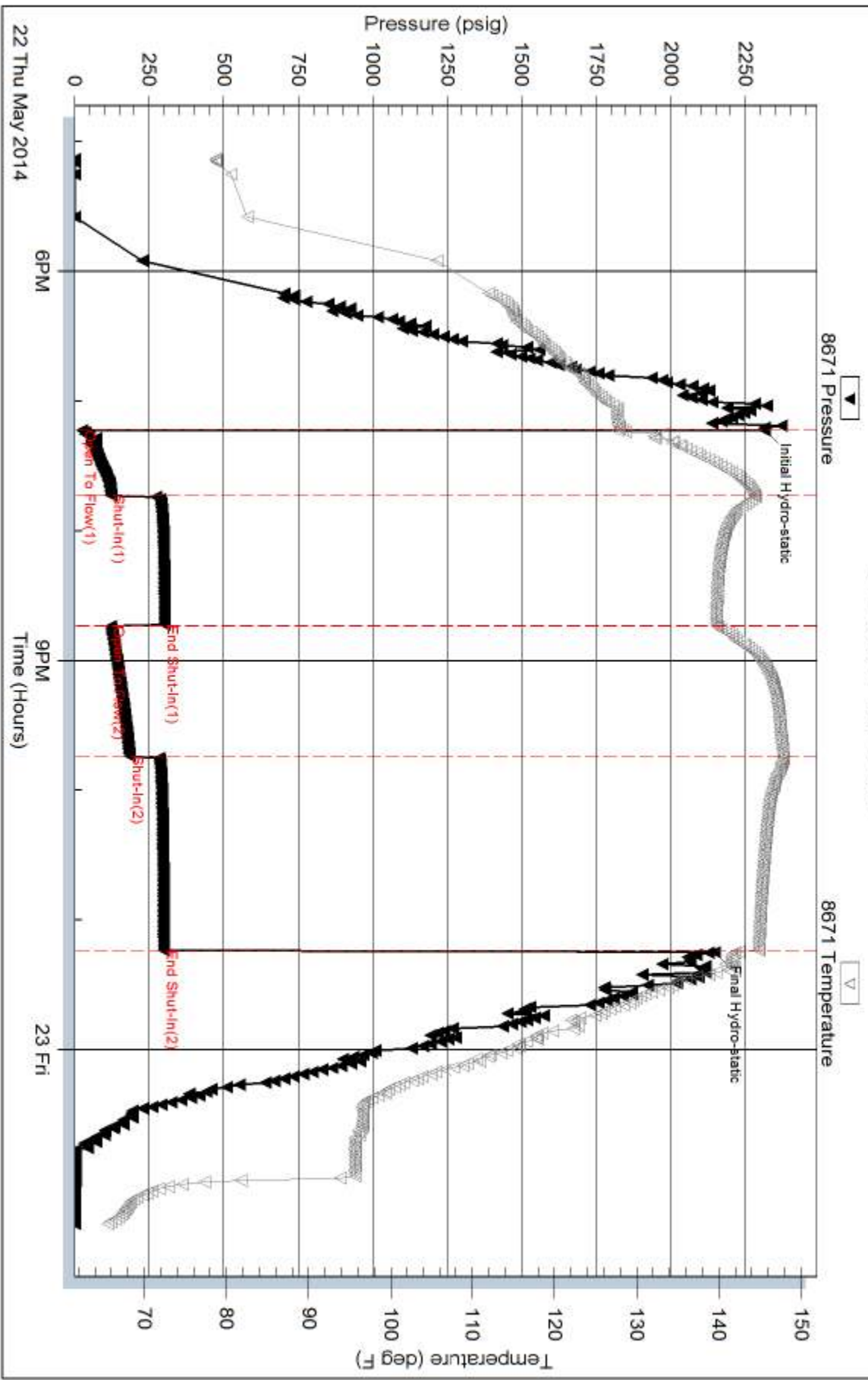
Inside

Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 3

Pressure vs. Time

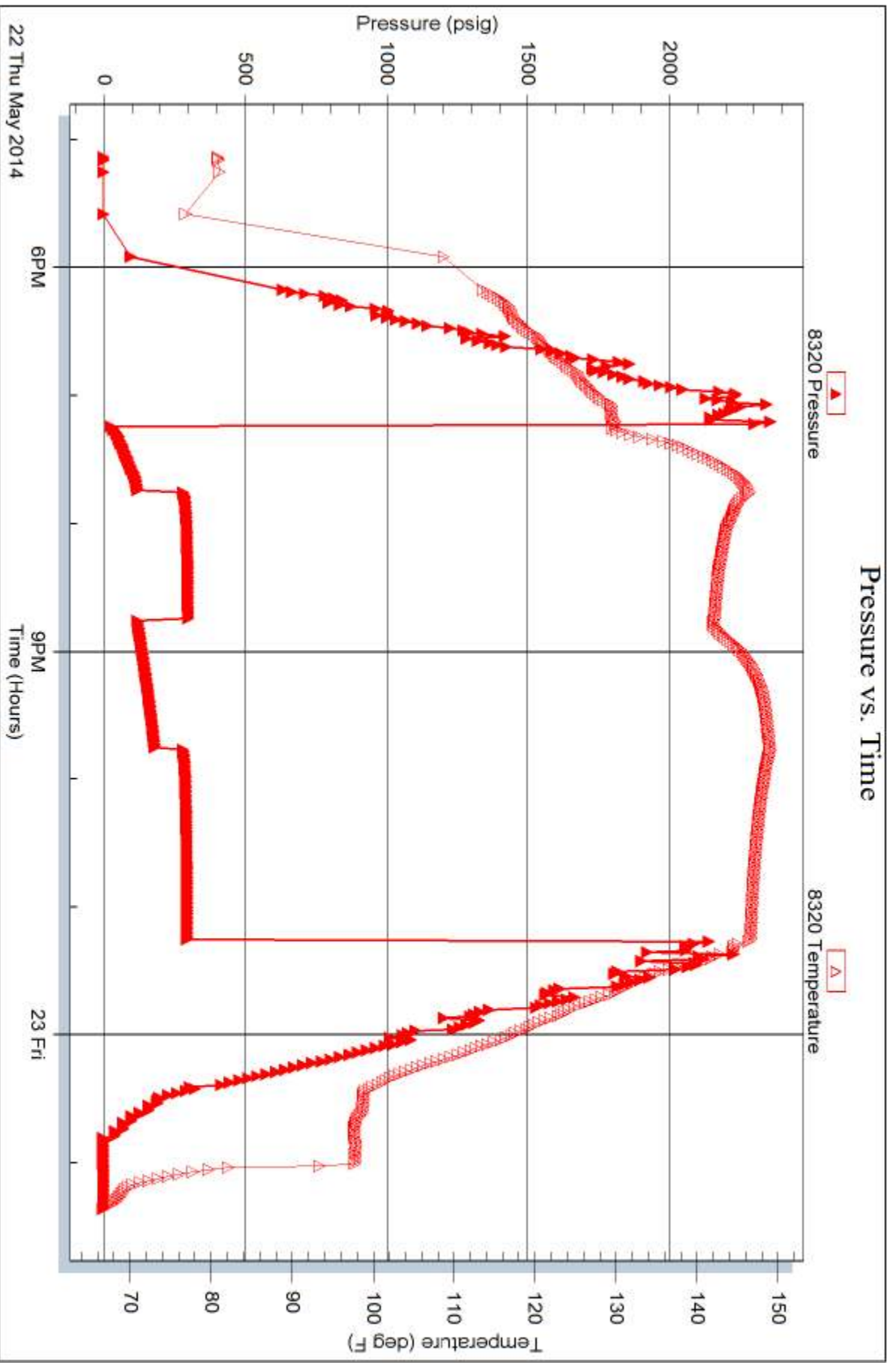


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58169

Printed: 2014.05.23 @ 09:49:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58167

4/10

Well Name & No. Burk Trust 'A' #4-23 Test No. 1 Date 5-21-14
 Company Murfin Drilling Co. Inc Elevation 3276 KB 3265 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 10S Rge. 36W Co. Rawlins State KS

Interval Tested 4226 - 4280 Zone Tested LKC "D"
 Anchor Length 54 Drill Pipe Run 4005 Mud Wt. 9.1
 Top Packer Depth 4221 Drill Collars Run 204 Vis 60
 Bottom Packer Depth 4226 Wt. Pipe Run - WL 5.6
 Total Depth 4280 Chlorides 600 ppm System LCM 10

Blow Description IF: Blow built to 9 1/2"
ISI: Blowback built to 1/8"
FF: Blow built to BOB (11") at 60 min.
FSI: Weak blowback, then died off

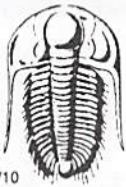
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>CO</u>	<u>2</u>	<u>92</u>	<u>-</u>	<u>6</u>
<u>25</u>	<u>MCO</u>	<u>2</u>	<u>63</u>	<u>-</u>	<u>35</u>
<u>118</u>	<u>OWCM</u>	<u>3</u>	<u>7</u>	<u>21</u>	<u>69</u>
<u>117</u>	<u>SOWCM</u>	<u>5</u>	<u>3</u>	<u>36</u>	<u>56</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 280 BHT 139 Gravity 24 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 2210 Test 1250 T-On Location 1:15
 (B) First Initial Flow 25 Jars 250 T-Started 2:48
 (C) First Final Flow 95 Safety Joint 75 T-Open 4:41
 (D) Initial Shut-In 412 Circ Sub _____ T-Pulled 8:40
 (E) Second Initial Flow 105 Hourly Standby _____ T-Out 10:35
 (F) Second Final Flow 147 Mileage 108RT 167.40 Comments _____
 (G) Final Shut-In 400 Sampler _____
 (H) Final Hydrostatic 2087 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1742.40
 MP/DST Disc't _____
 Sub Total 1742.40

Approved By [Signature] Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements 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. **58168**

Well Name & No. Burk Trust 'A' #4-23 Test No. 2 Date 5-21-14
 Company Murfin Drilling Co Inc. Elevation 3276 KB 3265 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4294 - 4340 Zone Tested LKC "6"
 Anchor Length 46 Drill Pipe Run 4069 Mud Wt. 9.3
 Top Packer Depth 4289 Drill Collars Run 204 Vis 62
 Bottom Packer Depth 4294 Wt. Pipe Run - WL 6.0
 Total Depth 4340 Chlorides 1200 ppm System LCM 10

Blow Description IF: Blow built to 4'2"
ISI: No blowback
FF: Blow built to 6"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>CO</u>	<u>4</u>	<u>91</u>	<u>-</u>	<u>5</u>
<u>80</u>	<u>OCM</u>	<u>8</u>	<u>25</u>	<u>-</u>	<u>67</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125 BHT 137 Gravity 31.6 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2224 Test 1250 T-On Location 20:30 5/21
 (B) First Initial Flow 27 Jars 250 T-Started 21:00
 (C) First Final Flow 53 Safety Joint 75 T-Open 22:32
 (D) Initial Shut-In 282 Circ Sub _____ T-Pulled 2:34
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 4:30 5/22
 (F) Second Final Flow 68 Mileage 108 RT 167.40 Comments _____
 (G) Final Shut-In 238 Sampler _____
 (H) Final Hydrostatic 2064 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1742.40
 Total 1742.40
 MP/DST Disc't _____

Approved By [Signature] Our Representative James Winde

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. 58169

Well Name & No. Burk Trust 'A' #4-23 Test No. 3 Date 5-22-14
 Company Murfin Drilling Co. Inc Elevation 3276 KB 3265 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4380 - 4430 Zone Tested LKC "J"
 Anchor Length 50 Drill Pipe Run 4163 Mud Wt. 9.3
 Top Packer Depth 4375 Drill Collars Run 204 Vis 57
 Bottom Packer Depth 4380 Wt. Pipe Run - WL 6.4
 Total Depth 4430 Chlorides 1200 ppm System LCM 7
 Blow Description IF: Blow built to 9"
ISI: No blowback
FF: Blow started at 8min., built to 8"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>MW w/trace of oil</u>	<u>trace</u>	<u>60</u>	<u>40</u>	
<u>235</u>	<u>MCW w/trace of oil</u>	<u>trace</u>	<u>83</u>	<u>17</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 361 BHT 145 Gravity _____ API RW .371 @ 64.5° F Chlorides 20,000 ppm

(A) Initial Hydrostatic <u>2314</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>16:15</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:08</u>
(C) First Final Flow <u>123</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:13</u>
(D) Initial Shut-In <u>302</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:14</u>
(E) Second Initial Flow <u>122</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:15</u>
(F) Second Final Flow <u>185</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> <u>167.40</u>	Comments _____
(G) Final Shut-In <u>299</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2146</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1742.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1742.40</u>	

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

Approved By [Signature]

Our Representative James Winder

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



*acct
Prod - MG*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143267

Invoice Date: May 16, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62498	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 16, 2014	6/15/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust A #4-23		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
231.00	CEMENT SERVICE	Cubic Feet Charge	2.48	572.88
852.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,215.20
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

Subtotal	9,993.33
Sales Tax	351.55
Total Invoice Amount	10,344.88
Payment/Credit Applied	
TOTAL	10,344.88

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

\$ 3,497.66 *25%*

ONLY IF PAID ON OR BEFORE

Jun 10, 2014

*OK
NR*

*- 3497.66
6847.22*



CONSOLIDATED
Oil Well Services, LLC

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

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

INVOICE

Invoice # 270475

Invoice Date: 08/21/2014 Terms: 10/10/10,n/30

Page 1

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

BURK TRUST A 4-23 BEARDSLEY
43025
23-1S-36W
5-24-14
KS

Part Number	Description	Qty	Unit Price	Total
1104D	CLASS "A" CEMENT CMD	300.00	27.9200	8376.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4314	RECIPROCATING SCRATCHERS	10.00	82.0000	820.00
4454	5 1/2" LATCH DOWN PLUG	1.00	318.2500	318.25

Sublet Performed	Description	Total
9995-130	CEMENT EQUIPMENT DISCOUNT	-693.85
9996-130	CEMENT MATERIAL DISCOUNT	-1828.19

Description	Hours	Unit Price	Total
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	85.00	5.25	446.25
530 TON MILEAGE DELIVERY	1.00	3317.12	3317.12

Amount Due 26664.58 if paid after 08/31/2014

Parts:	18281.95	Freight:	.00	Tax:	1299.83	AR	23998.11
Labor:	.00	Misc:	.00	Total:	23998.11		
Sublt:	-2522.04	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

270 4175

TICKET NUMBER 43025

LOCATION Oakley KS

FOREMAN Dane Ratzloff

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-24-14	5406	Berk Trust A 4-23	23	14	36W	Rawlins
CUSTOMER			KS			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			T118	code		
STATE			530	J-H		
ZIP CODE						

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 4580 CASING SIZE & WEIGHT 5 1/2 15.5 LBS
 CASING DEPTH 4576 DRILL PIPE 4.5" TUBING _____ OTHER _____
 SLURRY WEIGHT 102/13.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 18.32
 DISPLACEMENT 102.47 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, Rig up. Run float equip. Cements on 1-10, 12, 14, 16, 27, 62 Baskets
 17, 34, 63 Circulate. Finish running casing, mix 5 ahead mudflush 5 (w/line).
 mix 265 sks of CMI 1/2 lb. mix 200 sks mix #5 KCL. Displace 161 gals of water when
 trans locked up on pump. Finish with much Popped nail at 1780 psi. Shut in
 with swedge and valve.

Thanks Dane & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54012	1	PUMP CHARGE	3175.00	3175.00 ✓
5406	85	MILEAGE	5.25	446.25 ✓
54074	22.3	Top Mileage Delivery	1.75	3317.12 ✓
11040	200 sks	CMI	27.92	2,376.00 ✓
1107	150	FLO SEAL	2.97	445.50 ✓
11102	1000	KCL seal	.56	560.00 ✓
1126	200 sks	OWC	23.70	4740.00 ✓
11426	2 gal	KCL	41.10	82.20 ✓
11440	500 gal	mudflush	1.00	500.00 ✓
4104	3	5 1/2 Rodent	290.00	870.00 ✓
4136	15	5 1/2 Centralizers	75.75	1136.25 ✓
4159	1	5 1/2 Float shoe	433.75	433.75 ✓
4214	10	Reciprocating Satchers	82.00	820.00 ✓
4454	1	5 1/2 Latchdown	319.25	319.25 ✓
			5.66	25220.32 ✓
			128.1090	25220.4 ✓
			9.66	226.9828 ✓
			SALES TAX	1299.83 ✓
			ESTIMATED TOTAL	23,998.11 ✓

completed

Rawin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

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

Burk Trust 'A' #4-23
 Daily Drilling Report
 Page Two

5/23/14 Depth 4466'. Cut 126'. DT: None. CT: 16½ hrs. Dev.: ¾° @ 4430'. **LKC J**: Ist, f-mxln, sl chalky, oolitic in part, foss, pr pp to vug por, 5% sample dark spotty to sat stain, slsfo, faint odor. **DST #3 4380-4430 (LKC J)**: 30-60-60-90. IF: blw built to 9". FF: blw started @ 8mins, built to 8". Rec.: 126'MW w/trc oil (60%W, 40%M), 235'MCW w/trc oil (83%W, 17%M). HP: 2314-2146. FP: 25/123, 122/185. SIP: 302-299. BHT: 145°.

5/24/14 RTD 4580'. Cut 114'. DT: None. CT: 17½ hrs. Dev.: ¾° @ 4580'. Pioneer logged 7:45PM 5/23 – 1:15AM 5/24. LTD: 4579'. LD Pipe

5/25/14 RTD: 4580'. CT: 11½ hrs. Ran 110jts of 5 ½" surf csg, set @ 4576'. C.O.W.S cmt w/250sxs CMD, 200sxs OWC. PD @ 2:20PM 5/24. 30sxs RH, 20sxs MH. Pump truck broke w/44BBL disp left to pump, finished pumping w/mud. Circ 30sxs to pit. RR @ 6:20PM 5/24/14. FINAL REPORT

		MDCI Burk Trust 'A' #4-23 2310' FNL 1650' FWL Sec. 23-T1S-R36W 3276' KB				MDCI Burk Trust 'A' #2-23 2310' FNL 1650' FWL Sec. 23-T1S-R36W 3268' KB			
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	
Anhydrite	3180	+96	-5	3177	+99	-2	3167	+101	
B/Anhydrite	3218	+58	-9	3213	+63	-4	3201	+67	
Neva	3667	-391	-6	3664	-388	-3	3653	-385	
Red Eagle	3727	-451	-5	3725	-449	-3	3714	-446	
Foraker	3776	-500	-6	3774	-498	-4	3762	-494	
Topeka	4001	-725	-9	3989	-713	+3	3984	-716	
Oread	4106	-830	-10	4102	-826	-6	4088	-820	
Lansing	4208	-932	-10	4206	-930	-8	4190	-922	
Stark	4426	-1150	-9	4420	-1144	-3	4409	-1141	
BKC	4472	-1196		4472	-1196	-6	4458	-1190	
RTD	4580						4560	-1293	
LTD				4579			4561	-1292	