



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217783
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: _____

1217783

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
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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' 5-23
Doc ID	1217783

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #5-23

23-1s-36w Rawlins KS

Start Date: 2014.04.27 @ 22:54:00

End Date: 2014.04.28 @ 07:58:15

Job Ticket #: 58153 DST #: 1

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

Printed: 2014.05.01 @ 13:20:52



**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' #5-23

Job Ticket: 58153

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.04.27 @ 22:54:00

GENERAL INFORMATION:

Formation: **Lans. "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:30

Time Test Ended: 07:58:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4225.00 ft (KB) To 4275.00 ft (KB) (TVD)

Reference Elevations: 3268.00 ft (KB)

Total Depth: 4275.00 ft (KB) (TVD)

3257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 131.58 psig @ 4226.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.27

End Date:

2014.04.28

Last Calib.:

2014.04.28

Start Time: 22:54:05

End Time:

07:58:15

Time On Btm:

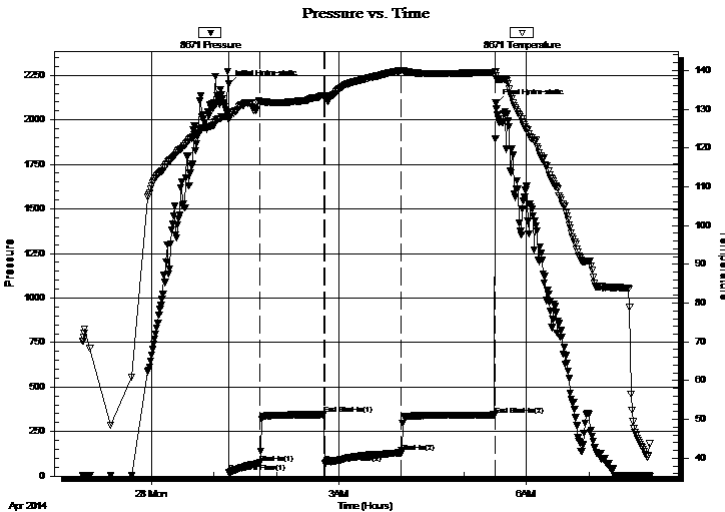
2014.04.28 @ 01:14:15

Time Off Btm:

2014.04.28 @ 05:30:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4 1/2"
60 - IS: No blow back
75 - FF: Blow started at 7 min., built to 7 3/4"
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.20	128.04	Initial Hydro-static
1	21.22	127.39	Open To Flow (1)
30	74.05	131.87	Shut-In(1)
91	345.35	133.59	End Shut-In(1)
92	72.92	133.37	Open To Flow (2)
166	131.58	140.02	Shut-In(2)
256	343.62	139.54	End Shut-In(2)
257	2093.29	138.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
178.00	SOWCM 56% _m , 38% _w , 4% _o , 2% _g	0.88
62.00	SOWCM 80% _m , 13% _w , 7% _o	0.60
7.00	OCM 78% _m , 22% _o	0.10
1.00	Free Oil	0.01

Gas Rates

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



**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' #5-23

ATTN: Robert Hendrix

Job Ticket: 58153 **DST#: 1**

Test Start: 2014.04.27 @ 22:54:00

GENERAL INFORMATION:

Formation: **Lans. "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:30

Time Test Ended: 07:58:15

Interval: 4225.00 ft (KB) To 4275.00 ft (KB) (TVD)

Total Depth: 4275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Reference Elevations: 3268.00 ft (KB)

3257.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8320

Outside

Press@RunDepth: psig @ 4226.00 ft (KB)

Start Date: 2014.04.27

End Date: 2014.04.28

Capacity: 8000.00 psig

Last Calib.: 2014.04.28

Start Time: 22:54:05

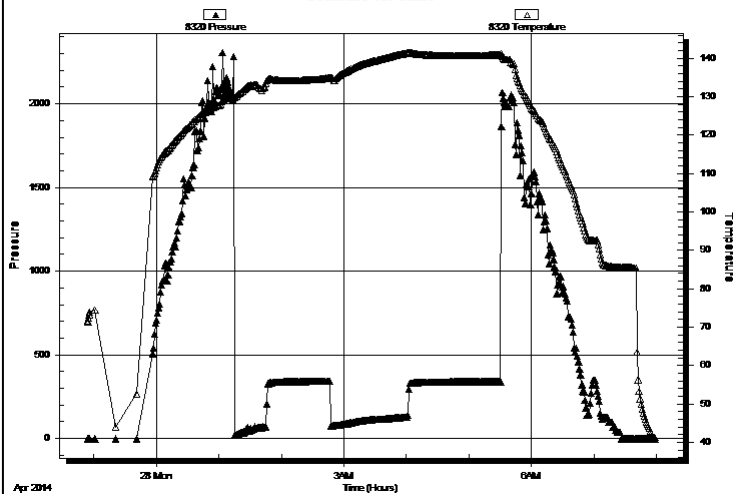
End Time: 07:58:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4 1/2"
60 - IS: No blow back
75 - FF: Blow started at 7 min., built to 7 3/4"
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
178.00	SOWCM 56% <i>m</i> , 38% <i>w</i> , 4% <i>o</i> , 2% <i>g</i>	0.88
62.00	SOWCM 80% <i>m</i> , 13% <i>w</i> , 7% <i>o</i>	0.60
7.00	OCM 78% <i>m</i> , 22% <i>o</i>	0.10
1.00	Free Oil	0.01

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' #5-23

Job Ticket: 58153

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.04.27 @ 22:54:00

Tool Information

Drill Pipe:	Length: 4007.00 ft	Diameter: 3.80 inches	Volume: 56.21 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 57.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	4225.00 ft			Final 100000.0 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			4202.00	
Hydraulic tool	5.00			4207.00	
Jars	5.00			4212.00	
Safety Joint	3.00			4215.00	
Packer	5.00			4220.00	28.00 Bottom Of Top Packer
Packer	5.00			4225.00	
Stubb	1.00			4226.00	
Recorder	0.00	8671	Inside	4226.00	
Recorder	0.00	8320	Outside	4226.00	
Perforations	13.00			4239.00	
Blank Spacing	33.00			4272.00	
Bullnose	3.00			4275.00	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' #5-23

Job Ticket: 58153

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.04.27 @ 22:54:00

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:

14000 ppm

Viscosity: 58.00 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 bbl
178.00	SOWCM 56% <i>m</i> , 38% <i>w</i> , 4% <i>o</i> , 2% <i>g</i>	0.875
62.00	SOWCM 80% <i>m</i> , 13% <i>w</i> , 7% <i>o</i>	0.596
7.00	OCM 78% <i>m</i> , 22% <i>o</i>	0.098
1.00	Free Oil	0.014

Total Length: 248.00 ft Total Volume: 1.583 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

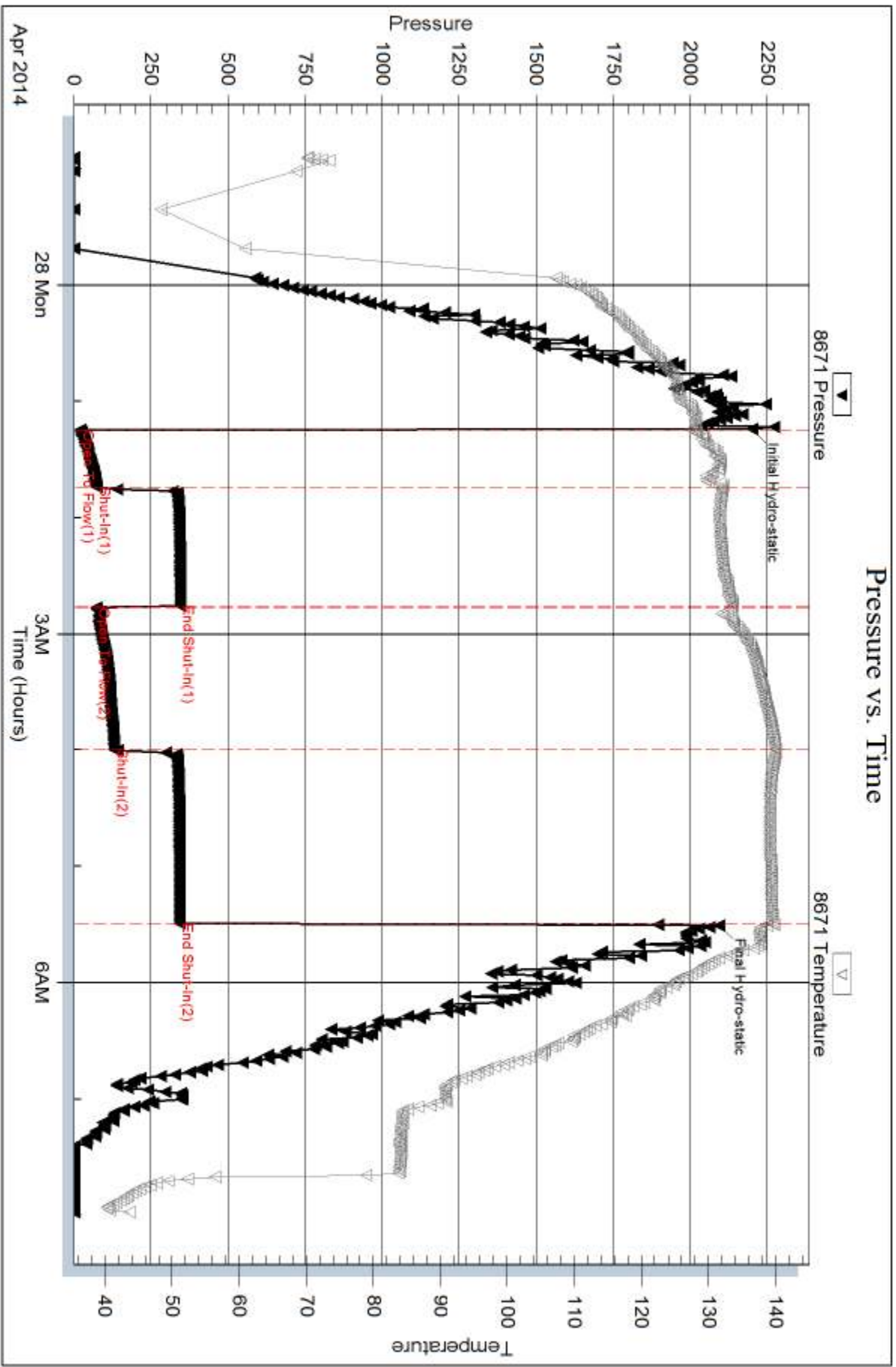
Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 10#

RW = .728 ohms @ 46.5 deg F

Chlorides = 14,000 ppm

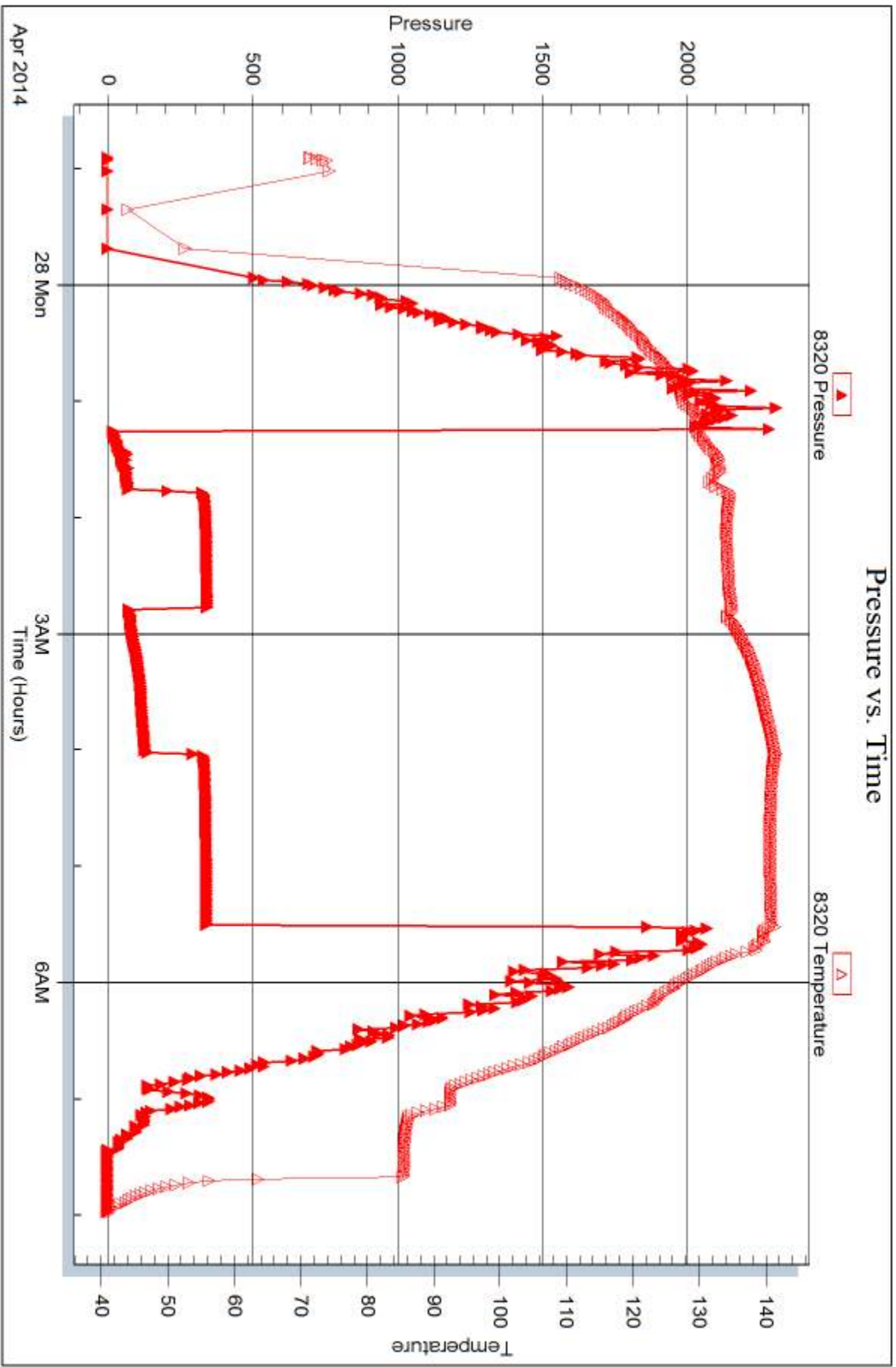


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #5-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58153

Printed: 2014.05.01 @ 13:20:53



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #5-23

23-1s-36w Rawlins KS

Start Date: 2014.04.29 @ 00:13:00

End Date: 2014.04.29 @ 08:23:15

Job Ticket #: 58154 DST #: 2

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

Printed: 2014.05.01 @ 13:20:16

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

Burk Trust 'A' #5-23

DST # 2

LKC "G - H"

2014.04.29



**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' #5-23

Job Ticket: 58154

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.04.29 @ 00:13:00

GENERAL INFORMATION:

Formation: **LKC "G - H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:00

Time Test Ended: 08:23:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4291.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 3268.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

3257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 71.14 psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.29

End Date:

2014.04.29

Last Calib.:

2014.04.29

Start Time: 00:13:05

End Time:

08:23:14

Time On Btm:

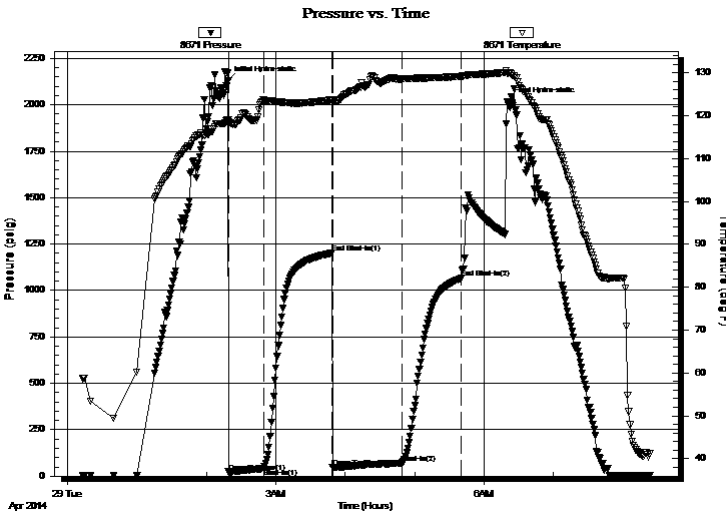
2014.04.29 @ 02:18:45

Time Off Btm:

2014.04.29 @ 06:20:00

TEST COMMENT: 30 - IF: Blow built to 2 3/4"
60 - IS: No blow back
60 - FF: Blow built to 2 1/2"
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.81	119.07	Initial Hydro-static
1	22.06	118.24	Open To Flow (1)
31	41.55	123.57	Shut-In(1)
90	1201.38	123.67	End Shut-In(1)
91	46.27	123.00	Open To Flow (2)
151	71.14	128.54	Shut-In(2)
202	1066.25	129.17	End Shut-In(2)
242	2018.60	129.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mud w /Oil spots 98%m, 2%o	0.54

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #5-23

Job Ticket: 58154

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.04.29 @ 00:13:00

GENERAL INFORMATION:

Formation: **LKC "G - H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:00

Time Test Ended: 08:23:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4291.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 3268.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

3257.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.29

End Date:

2014.04.29

Last Calib.:

2014.04.29

Start Time: 00:13:05

End Time:

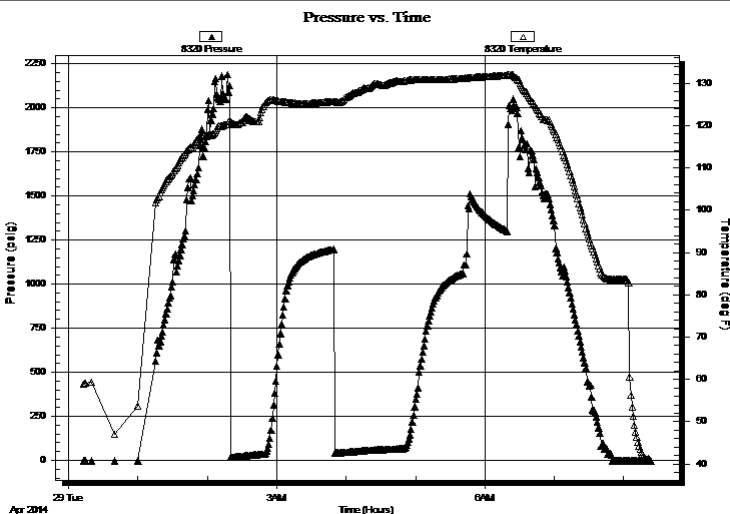
08:23:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 2 3/4"
60 - IS: No blow back
60 - FF: Blow built to 2 1/2"
90 - FS: No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mud w /Oil spots 98%m, 2%o	0.54

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #5-23

Job Ticket: 58154

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.04.29 @ 00:13:00

Tool Information

Drill Pipe:	Length: 4070.00 ft	Diameter: 3.80 inches	Volume: 57.09 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 58.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4291.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	117.00 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			4268.00	
Hydraulic tool	5.00			4273.00	
Jars	5.00			4278.00	
Safety Joint	3.00			4281.00	
Packer	5.00			4286.00	28.00 Bottom Of Top Packer
Packer	5.00			4291.00	
Stubb	1.00			4292.00	
Recorder	0.00	8671	Inside	4292.00	
Recorder	0.00	8320	Outside	4292.00	
Perforations	20.00			4312.00	
Blank Spacing	65.00			4377.00	
Bullnose	3.00			4380.00	89.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**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' #5-23

Job Ticket: 58154

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.04.29 @ 00:13:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Mud w /Oil spots 98% _m , 2% _o	0.541

Total Length: 110.00 ft Total Volume: 0.541 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

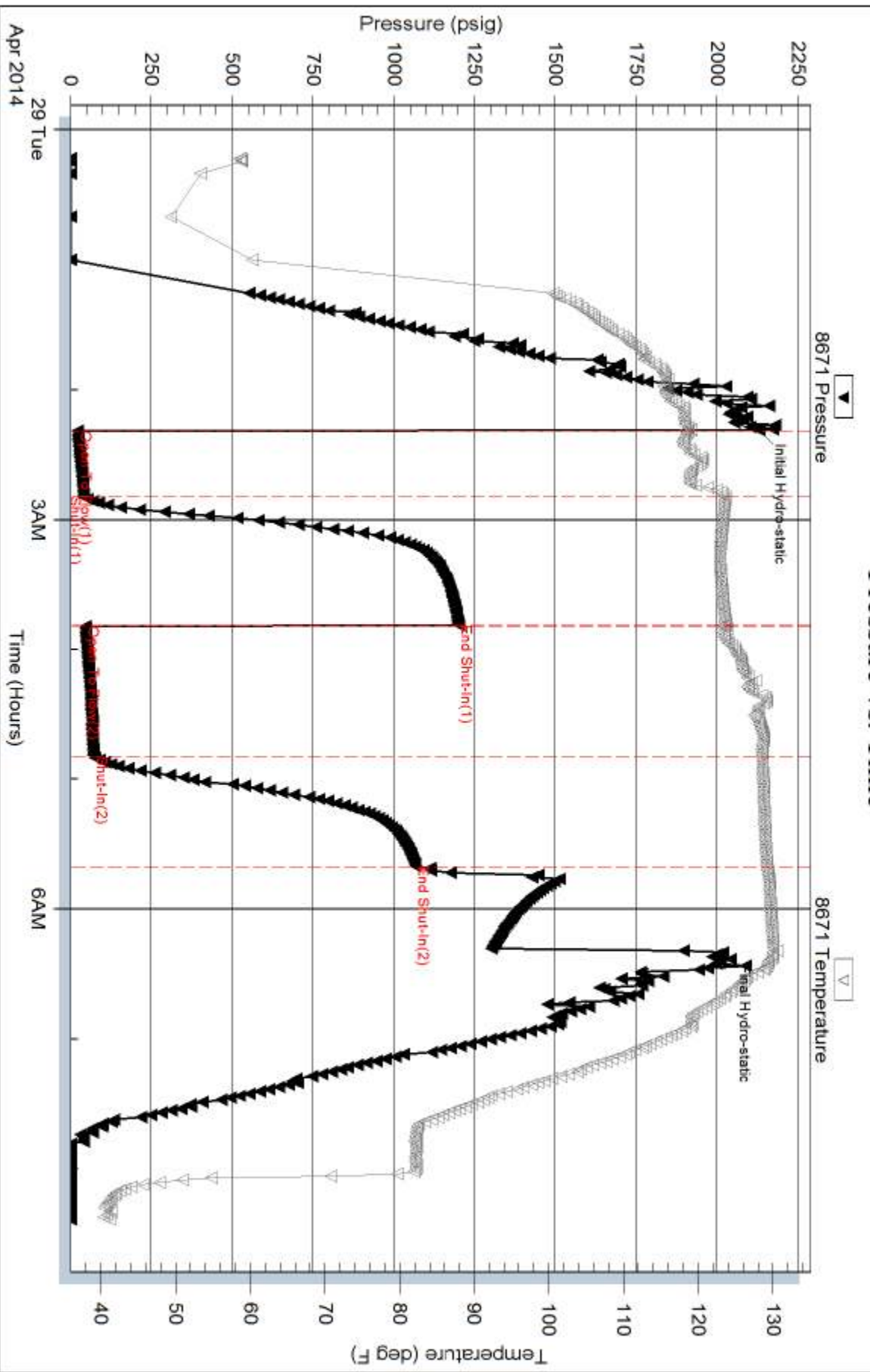
Serial #:

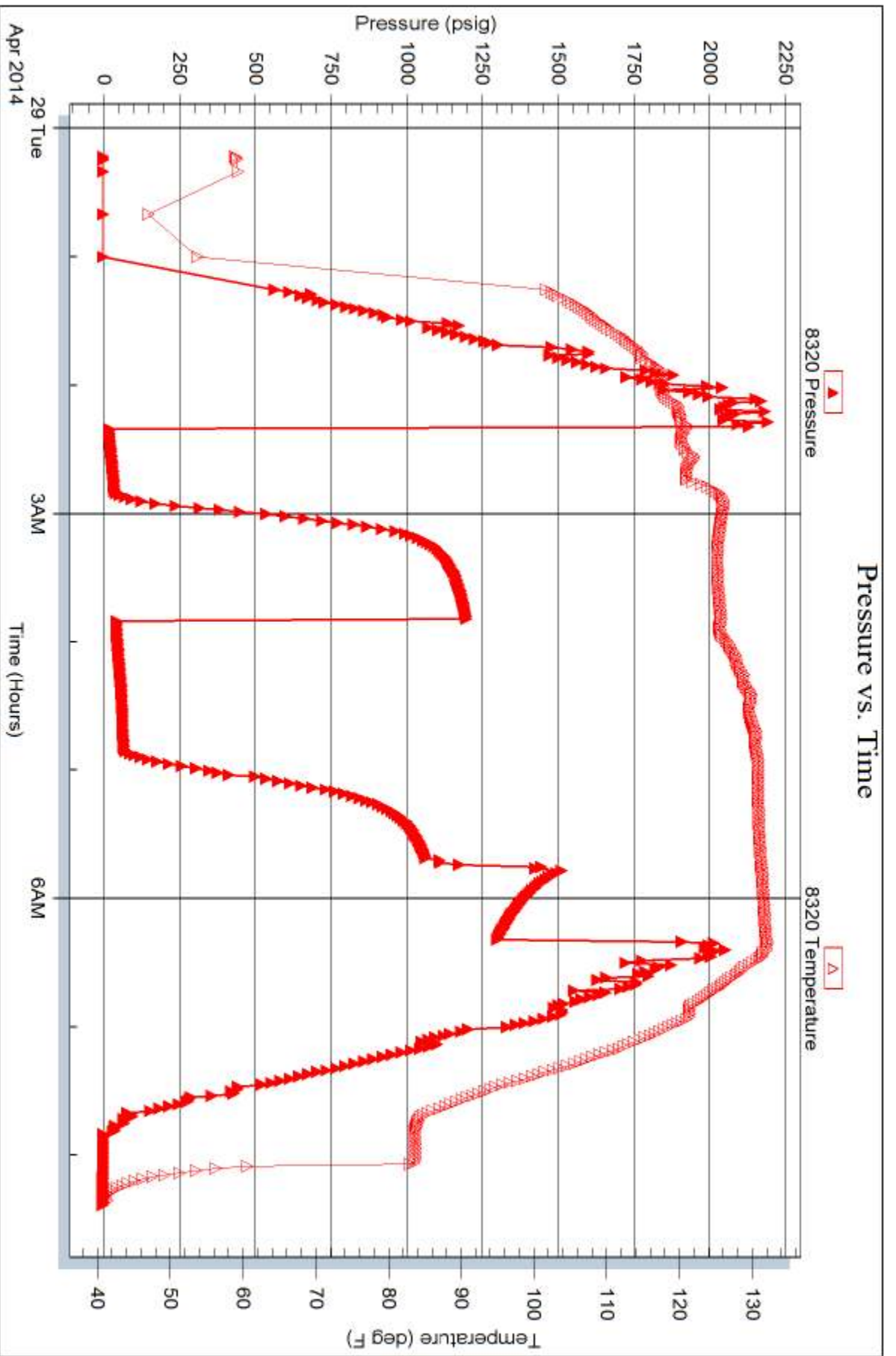
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58153

Well Name & No. Burk Trust 'A' # 5-23 Test No. 1 Date 4-27-14
 Company Murfin Drilling Co. Inc Elevation 3268 KB 3257 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin # 2
 Location: Sec. 23 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4225 - 4275 Zone Tested Lans. "D"
 Anchor Length 50 Drill Pipe Run 4007 Mud Wt. 9.1
 Top Packer Depth 4220 Drill Collars Run 208 Vis 58
 Bottom Packer Depth 4225 Wt. Pipe Run - WL 5.6
 Total Depth 4275 Chlorides 600 ppm System LCM 10
 Blow Description IF: 1/4" Blow at open, Built to 4 1/2"
ISI: No blowback
FF: Blow started at 7 min., built to 7 3/4"
FSE: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>				
<u>7</u>	<u>OCM</u>		<u>22</u>	<u>-</u>	<u>78</u>
<u>62</u>	<u>50Wcm</u>	<u>-</u>	<u>7</u>	<u>13</u>	<u>80</u>
<u>178</u>	<u>50Wcm</u>	<u>2</u>	<u>4</u>	<u>38</u>	<u>56</u>

Rec Total 248 BHT 140 Gravity API RW .728 @ 46.5 °F Chlorides 14,000 ppm

(A) Initial Hydrostatic 2200 Test 1250 T-On Location 21:00 4/27
 (B) First Initial Flow 21 Jars 250 T-Started 22:54
 (C) First Final Flow 74 Safety Joint 75 T-Open 1:14
 (D) Initial Shut-In 345 Circ Sub _____ T-Pulled 5:29
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 7:55 4/28
 (F) Second Final Flow 132 Mileage 108RT 167.40 Comments _____
 (G) Final Shut-In 344 Sampler _____
 (H) Final Hydrostatic 2093 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1742.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1742.40

Initial Open 30
 Initial Shut-In 60
 Final Flow 60 75
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58154**

Well Name & No. Burk Trust 'A' #5-23 Test No. 2 Date 4-29-14
 Company Murfin Drilling Co Inc Elevation 3268 KB 3257 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 4291 - 4380 Zone Tested Lans. "G - H"
 Anchor Length 89 Drill Pipe Run 4070 Mud Wt. 9.0
 Top Packer Depth 4286 Drill Collars Run 208 Vis 60
 Bottom Packer Depth 4291 Wt. Pipe Run - WL 6.0
 Total Depth 4380 Chlorides 700 ppm System LCM 10

Blow Description IF: Blow built to 2 3/4"
ISI: No blowback
FF: Blow built to 2 1/2"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>Mud w/oil spots</u>	<u>-</u>	<u>2</u>	<u>-</u>	<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BHT 129 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2131</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>23:30 4/28</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:13</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:19</u>
(D) Initial Shut-In <u>1201</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:40 6:18</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:20 4/29</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT X2</u> 334.80	Comments <u>Lost Partial Packer</u>
(G) Final Shut-In <u>1066 @ 5:40</u>	<input type="checkbox"/> Sampler _____	<u>seat at 50 min on Final Shut</u>
(H) Final Hydrostatic <u>2019</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1909.80

Sub Total 0
 Total 1909.80
 MP/DST Disc't _____

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.



PO Box 93999
Southlake, TX 76092

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

*acct
m6-Prod*

INVOICE

Invoice Number: 142824
Invoice Date: Apr 23, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62893	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Apr 23, 2014	5/23/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust #5-23		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
620.00	CEMENT MATERIALS	Chloride	0.80	496.00
237.86	CEMENT SERVICE	Cubic Feet Charge	2.48	589.89
813.75	CEMENT SERVICE	Ton Mileage Charge	2.60	2,115.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	OPERATOR ASSISTANT	Adam Flipse		
1.00	OPERATOR ASSISTANT	Brian Lang		

Subtotal	9,652.99
Sales Tax	357.68
Total Invoice Amount	10,010.67
Payment/Credit Applied	
TOTAL	10,010.67

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

\$ 3,378.55

ONLY IF PAID ON OR BEFORE
May 18, 2014

OK MSR

ALLIED OIL & GAS SERVICES, LLC 062893

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Granada

DATE <u>6-23-14</u>	SEC. <u>NR23</u>	TWP. <u>1S</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION <u>1:00 pm</u>	JOB START <u>6:30 am</u>	JOB FINISH <u>7:00 am</u>
LEASE <u>Berk Trust</u>		WELL # <u>5-23</u>		LOCATION		COUNTY <u>Rawlins</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR Murfin Drilling #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 267

CASING SIZE 8 1/2 DEPTH 265.23

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 5 Ft

PERFS.

DISPLACEMENT 15.45 bbl fresh water

OWNER _____

CEMENT AMOUNT ORDERED 220.5 kls Class A 39cc

EQUIPMENT

PUMP TRUCK CEMENTER John Green

395 HELPER Ben Newell

BULK TRUCK

373-308 DRIVER Adam Flipse

BULK TRUCK

DRIVER Brian Long

COMMON	220	@ 17.90	3,938.00
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	620	@ .80	496.00
ASC		@	
<u>Materials Total</u>			<u>4,527.60</u>
<u>Discount @ 35%</u>			<u>1,584.56</u>
<u>Handling</u>			<u>237.86</u>
<u>Mileage 10.85 x 75 x</u>			<u>2.60</u>
			<u>589.89</u>
			<u>2,115.75</u>

REMARKS:

All location Rig up - had Safety meeting.
Run 45/4 casing - Break in interval reported
Run 5 bbl fresh water -
mix 220 SKS Class A 39cc
Displace 15.45 bbl fresh water
Stand in 7 pm
Run and del Casing
Rig down

SERVICE

DEPTH OF JOB	265		
PUMP TRUCK CHARGE		1512.25	
EXTRA FOOTAGE		@	
MILEAGE Hum	75	@ 7.20	577.50
MANIFOLD		@	
	Lum 75	@ 4.40	330.00
		@	

CHARGE TO: Murfin Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 5,125.39
(35%) 1,793.89

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 Arturo Alvarez

SIGNATURE X Arturo Alvarez

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>9,652.99</u>
DISCOUNT	<u>3,378.59</u> 35%
	<u>6,274.40</u> IF PAID IN 30 DAYS

Thank you!



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 # 268038

Invoice Date: 05/14/2014 Terms: 10/10/30,n/30 Page 1

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

BURK TRUST A 5-23
46851
23-15-36W
05-01-2013

APPROVED FOR K 123
JJR
EH

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	250.00	23.7000	5925.00
1104D	CLASS "A" CEMENT CMD	450.00	27.9200	12564.00
1110A	KOL SEAL (50# BAG)	1250.00	.5600	700.00
1107	FLO-SEAL (25#)	225.00	2.9700	668.25
1144C	FLO-CHECK MUD FLUSH	1.00	740.0000	740.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-2368.65
9995-130	CEMENT EQUIPMENT DISCOUNT	-873.96

Description	Hours	Unit Price	Total
399 CEMENT PSI CHARGES	1.00	3400.00	3400.00
399 EQUIPMENT MILEAGE (ONE WAY)	85.00	5.25	446.25
T-127 TON MILEAGE DELIVERY	1.00	2446.65	2446.65
566 TON MILEAGE DELIVERY	1.00	2446.65	2446.65

Amount Due 34297.23 if paid after 06/13/2014

Parts:	23686.45	Freight:	.00	Tax:	1684.11	AR	30867.50
Labor:	.00	Misc:	.00	Total:	30867.50		
Sublt:	-3242.61	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

268038

TICKET NUMBER 46851

LOCATION Oakley, Ks

FOREMAN Jerry Y Walt

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
5-1-14	5406	Burk Trust 'A' 5-23	23	15	36w	Rawlins
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mailing Address <u>Martin Dr lg.</u>			399	Michael R		
			566	JaKCH		
			529-T127	Dale R		
CITY		STATE	ZIP CODE			

JOB TYPE logstring HOLE SIZE 7 7/8 HOLE DEPTH 5118 CASING SIZE & WEIGHT 5 1/2 15.5#
 CASING DEPTH 5117.66 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 11/14.2 SLURRY VOL 3/1.42 WATER gal/sk 21/6.7 CEMENT LEFT in CASING 20.53'
 DISPLACEMENT 121/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on Martin 2 run float equip turbolizers on 1,2,3,4,5,6,8,10, 12,14,16,18,19,46,65 Baskets on 20, 47,66 Circulated @ 70 ft for 30min run casing to bottom pump ball then circulate 1/2 mix Flocheck mud flush with 566l spacers mix 400 sks CMD 4 1/2# flo seal lead and 250 sks OWC with 5# Kol seal prsk tail shut down release plug & displace with 121 bbl H2O plug loaded @ 1950 with 1500# l/bt. had returns to 60 bbl out then lost it & never circulated cement to surface released and float held pressed back up to 300# psi & shut in

*Thank you
Jerry & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	3400 ⁰⁰	3400 ⁰⁰
5406	85	MILEAGE	5 ²⁵	446 ²⁵
5907A	32.9	ton mileage delivery	1 ²⁵	4893 ³⁰
1126	250 sks	OWC	23 ²⁰	5925 ⁰⁰
1104D	450 sks	CMD	27 ⁹²	12,564 ⁹⁰
11104	1250 [#]	Kolseal	5 ⁰⁰	700 ⁰⁰
1107	225 [#]	Flaseal	2 ⁹²	668 ²⁵
1144C	1	Flocheck caustic flush	740 ⁰⁰	740 ⁰⁰
1142A	2gal	KCL	41 ⁰⁰	82 ⁰⁰
4159	1	5 1/2 AFU Float shoe (W)	433 ²⁵	433 ²⁵
4454	1	5 1/2 latch down assy (W)	567 ⁰⁰	567 ⁰⁰
4136	15	5 1/2 turbolizers (W)	75 ²⁵	1136 ²⁵
4109	3	5 1/2 baskets (W)	290 ⁰⁰	870 ⁰⁰
			subtotal	32426 ⁰⁰
			less 10% disc	3242 ⁶¹
			subtotal	29183 ³⁹
			SALES TAX	1184 ¹¹
			ESTIMATED TOTAL	30867 ⁵⁰

completed

Revin 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' #5-23
 Daily Drilling Report
 Page Two

5/2/14

RTD: 5120'. CT: 15hrs. Ran 123jts of 5½" prod csg, set @ 5117'. C.O.W.S. cmt w/
 700sxs (450CMD, 250OWC). PD @ 6:00PM 5/1. 30sxs RH, 20sxs MH. RR @ 10:00PM
 5/1. FINAL REPORT.

MDCI Burk Trust 'A' #5-23 990' FNL 1650' FWL Sec. 23-T1S-R36W 3268' KB							MDCI Burk Trust 'A' #6-23 330' FNL 1650' FWL Sec. 23-T1S-R36W 3302' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3125	+143	+55	3170	+98	+10	3214	+88
B/Anhydrite	3213	+55	-2	3207	+61	+4	3245	+57
Neva	3665	-397	-1	3661	-393	+3	3698	-396
Red Eagle	3725	-457	Flat	3722	-454	+3	3759	-457
Foraker	3771	-503	+1	3770	-502	+2	3806	-504
Topeka	3988	-720	Flat	3986	-718	+2	4022	-720
Oread	4102	-834	-2	4098	-830	+2	4134	-832
Lansing	4202	-934	Flat	4198	-930	+4	4236	-934
Stark	4434	-1166	-8	4421	-1153	+5	4460	-1158
BKC	4475	-1207	-7	4470	-1202	-2	4502	-1200
RTD	5120						4605	
LTD				5118			4606	