



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1208036
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: _____

1208036

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> _____ <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 'J' 1-25
Doc ID	1208036

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS .67202

ATTN: Chuck Schmaltz

Burk Trust 'J' #1-25

25 1s 36w Rawlins,KS

Start Date: 2014.02.19 @ 13:15:01

End Date: 2014.02.19 @ 22:35:30

Job Ticket #: 56792 DST #: 1

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

Printed: 2014.03.03 @ 11:00:45

Murfin Drilling Co. 25 1s 36w Rawlins,KS Burk Trust 'J' #1-25 DST # 1 LKC A-D 2014.02.19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56792

DST#: 1

ATTN: Chuck Schmalz

Test Start: 2014.02.19 @ 13:15:01

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:35:30

Time Test Ended: 22:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4142.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 3255.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8651 Outside

Press@RunDepth: 664.78 psig @ 4143.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.19

End Date:

2014.02.19

Last Calib.:

2014.02.19

Start Time: 13:15:01

End Time:

22:35:30

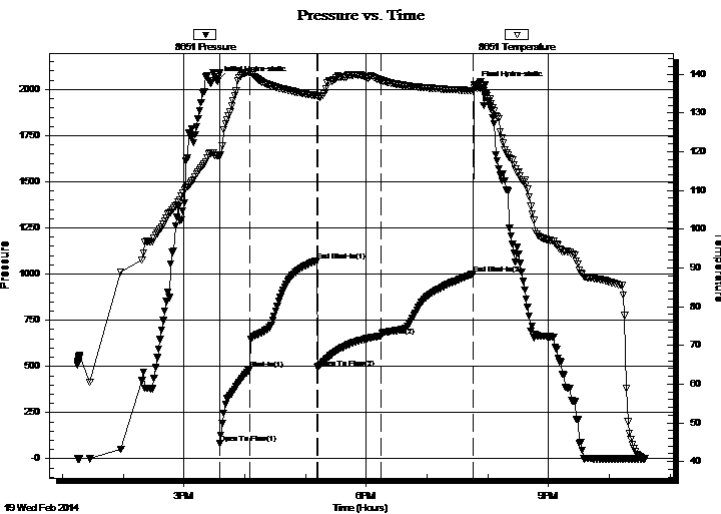
Time On Btm:

2014.02.19 @ 15:33:00

Time Off Btm:

2014.02.19 @ 19:47:30

TEST COMMENT: IF: Strong blow , Built to B.O.B in 4 mins.
IS: Bled off blow , Weak blow back. Built to 1/4 in. over 20 mins. Dead in 60 mins.
FF: Strong blow , Built to B.O.B in 7 mins
IS: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.70	119.09	Initial Hydro-static
3	80.99	118.65	Open To Flow (1)
32	486.84	140.46	Shut-In(1)
98	1072.26	134.48	End Shut-In(1)
99	493.50	134.33	Open To Flow (2)
162	664.78	138.47	Shut-In(2)
253	999.46	135.76	End Shut-In(2)
255	2022.22	136.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	mcw -10%m90%w	2.74
194.00	mcw -40%m60%w	2.72
564.00	w cm-50%w 50%m	7.91
193.00	ocmw -15%o20%w 65%m	2.71
0.00	94 ft. gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56792

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.02.19 @ 13:15:01

Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.80 inches	Volume: 50.29 bbl	Tool Weight: 2600.00 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 53.03 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4142.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	125.00 ft			
Tool Length:	153.00 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			4119.00	
Hydraulic tool	5.00			4124.00	
Jars	5.00			4129.00	
Safety Joint	3.00			4132.00	
Packer	5.00			4137.00	28.00 Bottom Of Top Packer
Packer	5.00			4142.00	
Packer - Shale	0.00			4142.00	
Stubb	1.00			4143.00	
Recorder	0.00	8673	Inside	4143.00	
Recorder	0.00	8651	Outside	4143.00	
Perforations	25.00			4168.00	
change Over Sub	1.00			4169.00	
Drill Pipe	94.00			4263.00	
Change Over Sub	1.00			4264.00	
Bullnose	3.00			4267.00	125.00 Bottom Packers & Anchor

Total Tool Length: 153.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56792

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.02.19 @ 13:15:01

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:

ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 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 bbbl
558.00	mcw -10%m90%w	2.744
194.00	mcw -40%m60%w	2.721
564.00	w cm-50%w 50%m	7.911
193.00	ocmw -15%o20%w 65%m	2.707
0.00	94 ft. gas in pipe	0.000

Total Length: 1509.00 ft

Total Volume: 57.245 bbl

Num Fluid Samples: 0

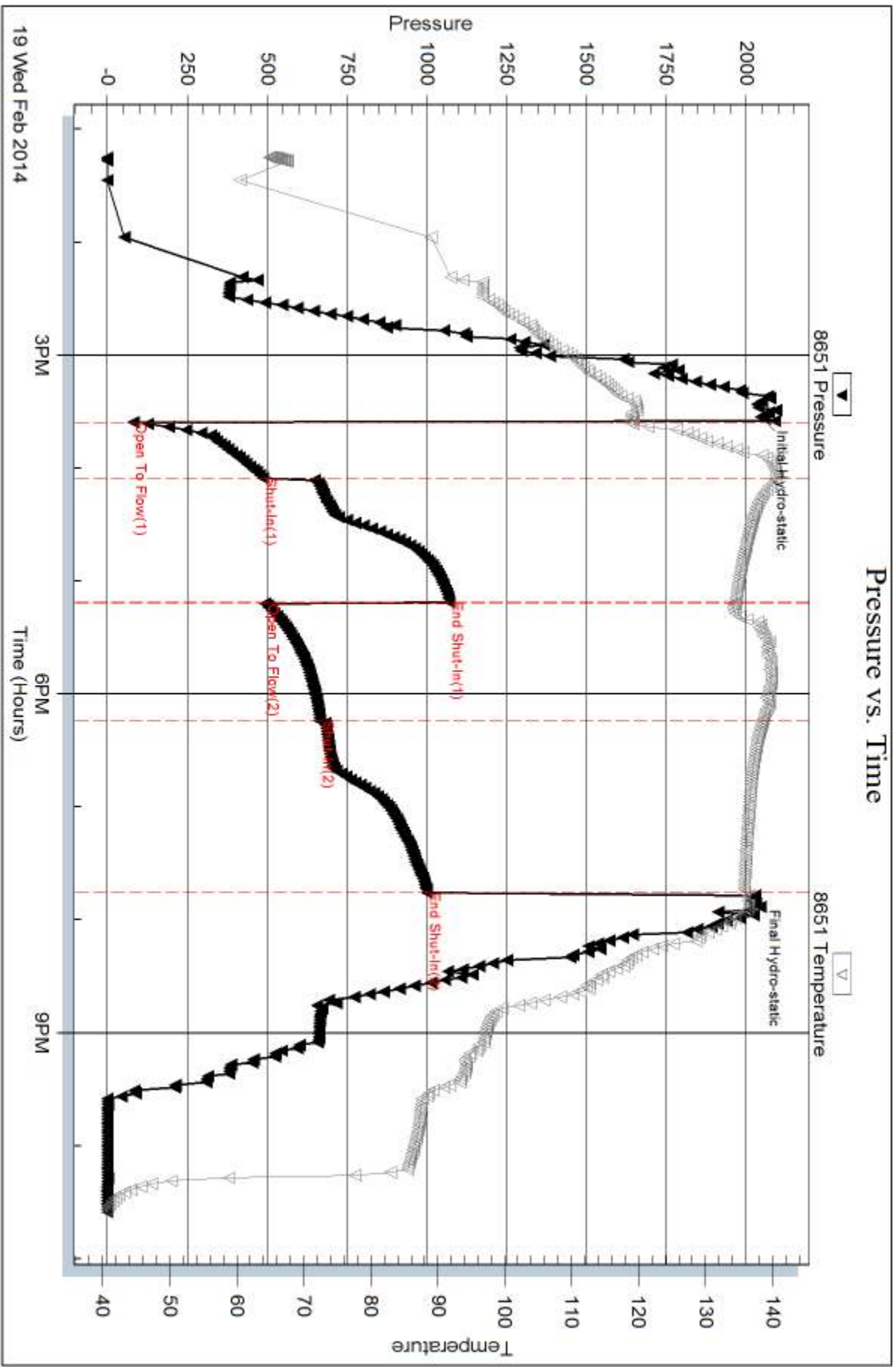
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS .67202

ATTN: Chuck Schmaltz

Burk Trust 'J' #1-25

25 1s 36w Rawlins,KS

Start Date: 2014.02.20 @ 14:18:00

End Date: 2014.02.21 @ 02:02:00

Job Ticket #: 56793 DST #: 2

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

Printed: 2014.03.03 @ 11:00:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56793

DST#: 2

ATTN: Chuck Schmalz

Test Start: 2014.02.20 @ 14:18:00

GENERAL INFORMATION:

Formation: **LKC-EF**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:49:00

Time Test Ended: 02:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4273.00 ft (KB) To 4385.00 ft (KB) (TVD)

Reference Elevations: 3255.00 ft (KB)

Total Depth: 4385.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8673

Inside

Press@RunDepth: 52.54 psig @ 4274.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.20

End Date:

2014.02.21

Last Calib.: 2014.02.21

Start Time: 14:18:01

End Time:

02:02:00

Time On Btm: 2014.02.20 @ 19:45:30

Time Off Btm: 2014.02.20 @ 23:11:00

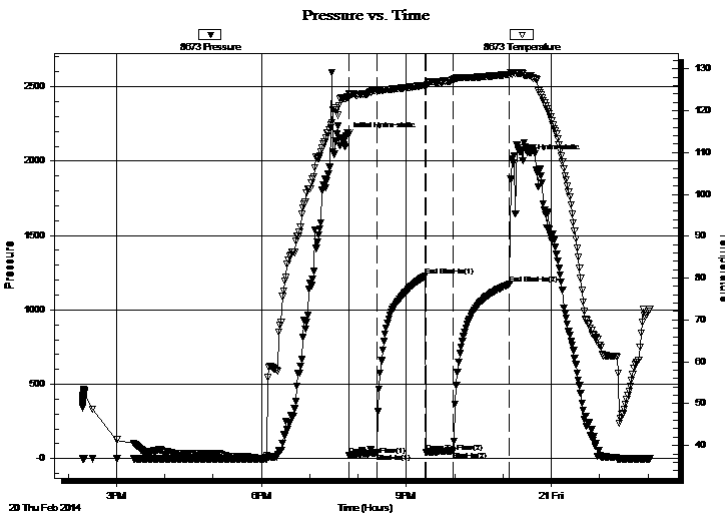
TEST COMMENT: IF: Weak blow 1/2 in Died in 22 mins.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.24	122.96	Initial Hydro-static
4	21.22	123.20	Open To Flow (1)
38	37.00	124.70	Shut-In(1)
98	1228.40	126.04	End Shut-In(1)
99	41.44	125.94	Open To Flow (2)
133	52.54	127.36	Shut-In(2)
203	1172.50	128.63	End Shut-In(2)
206	2015.29	128.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud-100%	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

25 1s 36w Rawlins, KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56793

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.02.20 @ 14:18:00

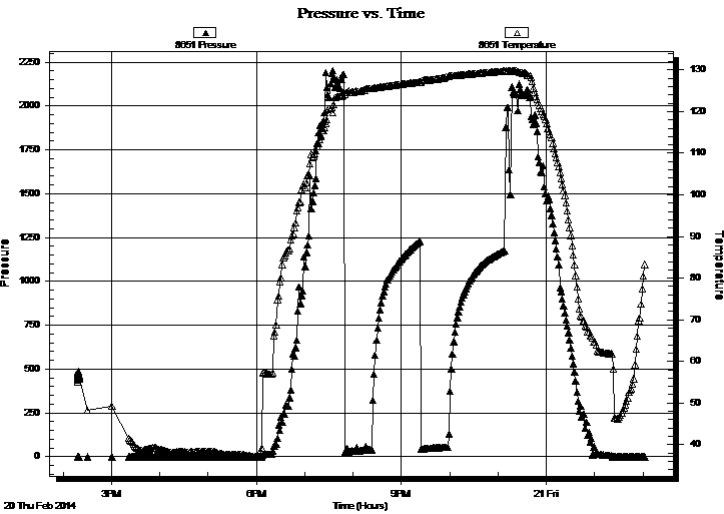
GENERAL INFORMATION:

Formation: **LKC-EF**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:49:00
 Tester: Chuck Kreuzer Jr.
 Time Test Ended: 02:02:00
 Unit No: 61
Interval: 4273.00 ft (KB) To 4385.00 ft (KB) (TVD)
 Reference Elevations: 3255.00 ft (KB)
 Total Depth: 4385.00 ft (KB) (TVD)
 3245.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8651 Outside

Press@RunDepth: psig @ 4274.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.20 End Date: 2014.02.21 Last Calib.: 2014.02.21
 Start Time: 14:18:01 End Time: 02:02:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow 1/2 in Died in 22 mins.
 IS: No blow back
 FF: No blow
 FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud-100%	0.10

* 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.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56793

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.02.20 @ 14:18:00

Tool Information

Drill Pipe:	Length: 3702.00 ft	Diameter: 3.80 inches	Volume: 51.93 bbl	Tool Weight: 2600.00 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 54.67 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4273.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	140.00 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			4250.00	
Hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
Safety Joint	3.00			4263.00	
Packer	5.00			4268.00	28.00 Bottom Of Top Packer
Packer	5.00			4273.00	
Packer - Shale	0.00			4273.00	
Stubb	1.00			4274.00	
Recorder	0.00	8673	Inside	4274.00	
Recorder	0.00	8651	Outside	4274.00	
Perforations	11.00			4285.00	
change Over Sub	1.00			4286.00	
Drill Pipe	95.00			4381.00	
Change Over Sub	1.00			4382.00	
Bullnose	3.00			4385.00	112.00 Bottom Packers & Anchor

Total Tool Length: 140.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56793

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.02.20 @ 14:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud-100%	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

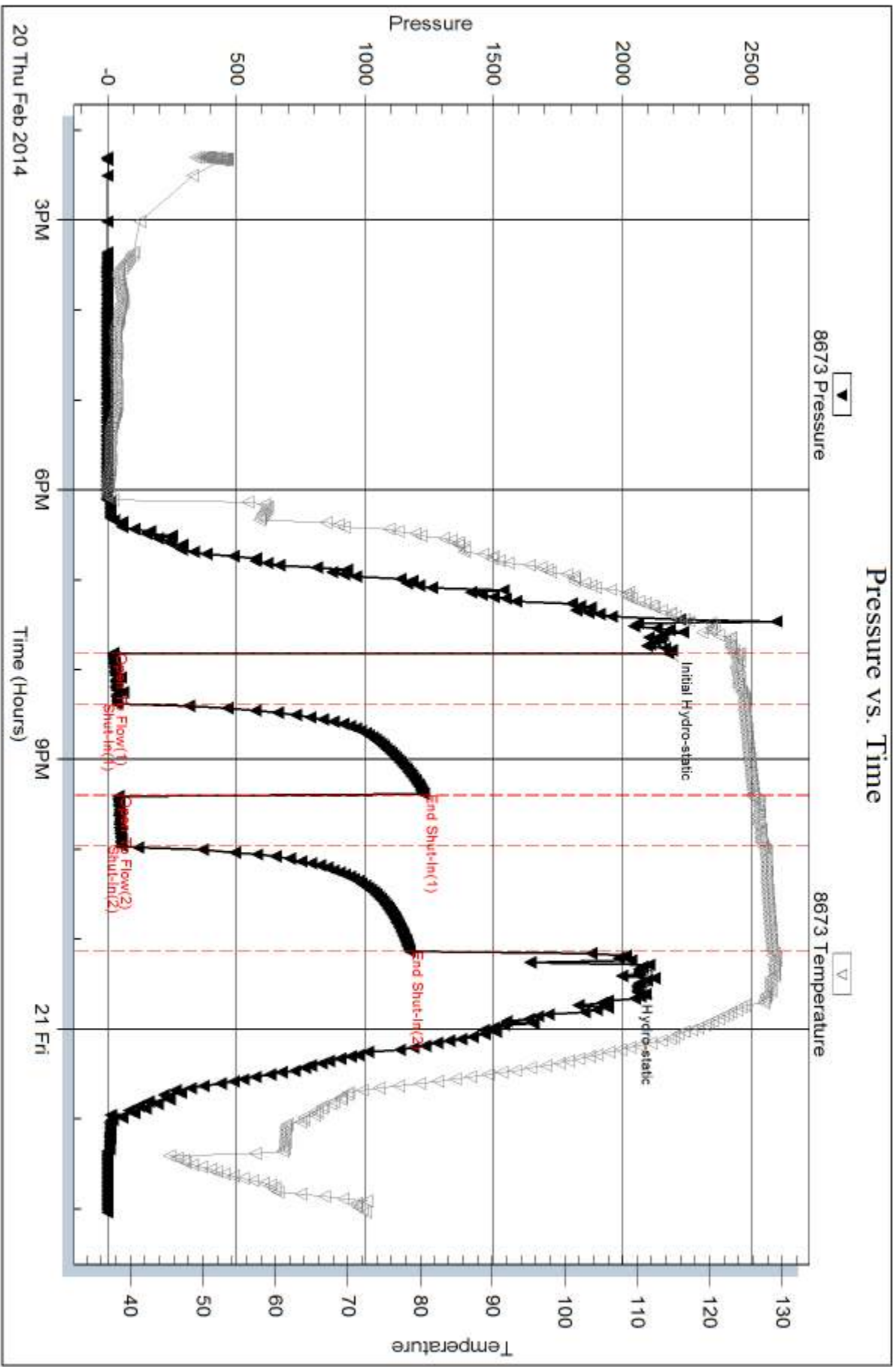
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

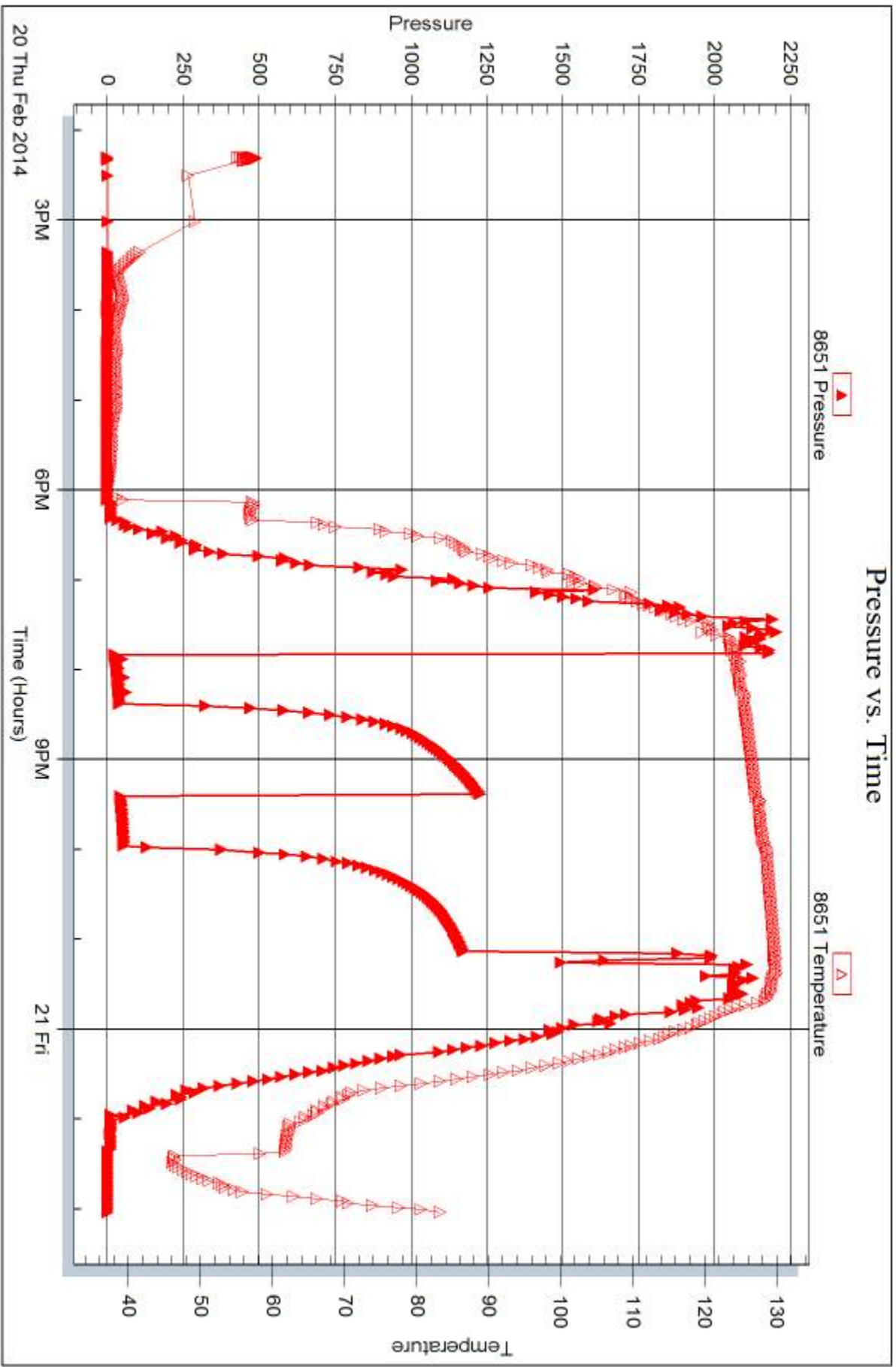


Serial #: 8651

Outside Murfin Drilling Co.

Burk Trust 'J' #1-25

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS .67202

ATTN: Chuck Schmaltz

Burk Trust 'J' #1-25

25 1s 36w Rawlins,KS

Start Date: 2014.02.21 @ 11:10:00

End Date: 2014.02.21 @ 19:26:30

Job Ticket #: 56794 DST #: 3

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

Printed: 2014.03.03 @ 10:58:15

Murfin Drilling Co.
25 1s 36w Rawlins,KS
Burk Trust 'J' #1-25
DST # 3
LKC-J
2014.02.21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56794

DST#: 3

ATTN: Chuck Schmalz

Test Start: 2014.02.21 @ 11:10:00

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:30

Time Test Ended: 19:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4368.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 3255.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8673

Inside

Press@RunDepth: 138.70 psig @ 4369.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.21

End Date:

2014.02.21

Last Calib.:

2014.02.21

Start Time: 11:10:01

End Time:

19:26:30

Time On Btm:

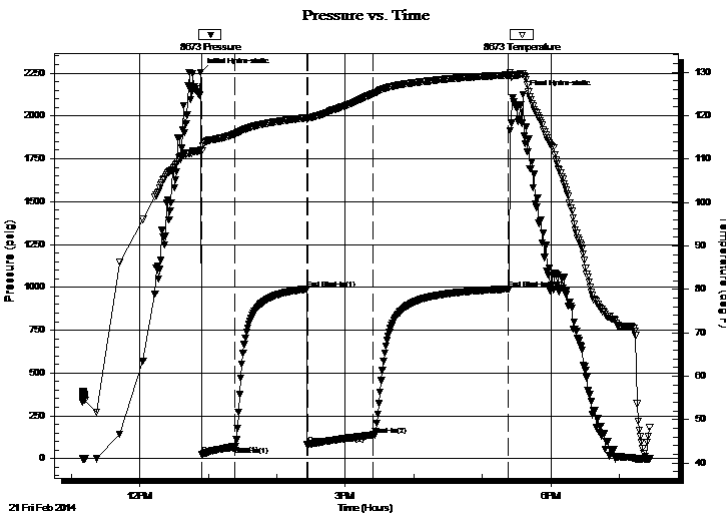
2014.02.21 @ 12:53:30

Time Off Btm:

2014.02.21 @ 17:35:30

TEST COMMENT: IF: Weak blow built to 2 in. over 30 mins.
IS: No blow back
FF: Weak blow built to 2 in. over 60 mins.
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.22	112.12	Initial Hydro-static
1	23.31	111.90	Open To Flow (1)
30	72.11	115.83	Shut-In(1)
93	990.25	119.56	End Shut-In(1)
94	83.38	119.40	Open To Flow (2)
151	138.70	125.03	Shut-In(2)
270	990.60	129.37	End Shut-In(2)
282	2124.78	129.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
188.00	ocm-30%o70%m	0.92
50.00	mco-30%m70%o	0.25
14.00	oil on top	0.07
0.00	134 ft gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

25 1s 36w Rawlins, KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56794

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.02.21 @ 11:10:00

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:30

Time Test Ended: 19:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 4368.00 ft (KB) To 4420.00 ft (KB) (TVD)

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3255.00 ft (KB)

3245.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8651 Outside

Press@RunDepth: psig @ 4369.00 ft (KB)

Start Date: 2014.02.21

End Date:

2014.02.21

Start Time: 11:10:01

End Time:

19:26:30

Capacity: 8000.00 psig

Last Calib.:

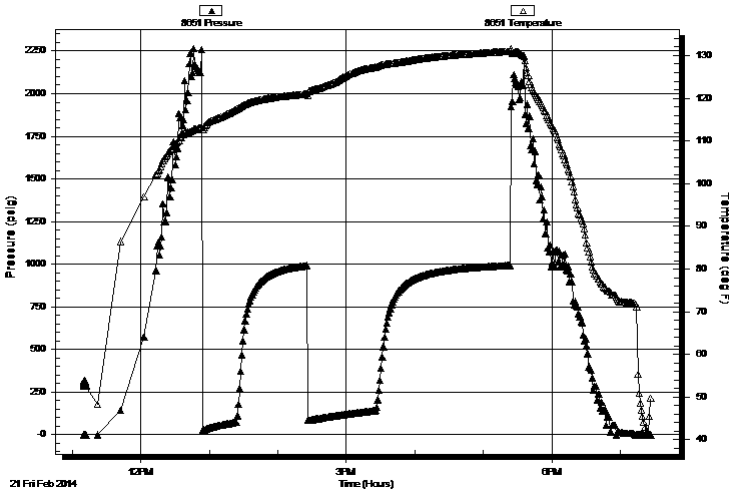
2014.02.21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow built to 2 in. over 30 mins.
IS: No blow back
FF: Weak blow built to 2 in. over 60 mins.
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
188.00	ocm-30%o70%m	0.92
50.00	mco-30%m70%o	0.25
14.00	oil on top	0.07
0.00	134 ft gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56794

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.02.21 @ 11:10:00

Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 bbl	Tool Weight: 2600.00 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: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.07 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4368.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			4345.00	
Hydraulic tool	5.00			4350.00	
Jars	5.00			4355.00	
Safety Joint	3.00			4358.00	
Packer	5.00			4363.00	28.00 Bottom Of Top Packer
Packer	5.00			4368.00	
Packer - Shale	0.00			4368.00	
Stubb	1.00			4369.00	
Recorder	0.00	8673	Inside	4369.00	
Recorder	0.00	8651	Outside	4369.00	
Perforations	14.00			4383.00	
change Over Sub	1.00			4384.00	
Drill Pipe	32.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	52.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

25 1s 36w Rawlins,KS

250 N. Water Ste.300
Wichita KS .67202

Burk Trust 'J' #1-25

Job Ticket: 56794

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.02.21 @ 11:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
188.00	ocm-30%o70%m	0.925
50.00	mco-30%m70%o	0.246
14.00	oil on top	0.069
0.00	134 ft gas in pipe	0.000

Total Length: 252.00 ft

Total Volume: 1.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

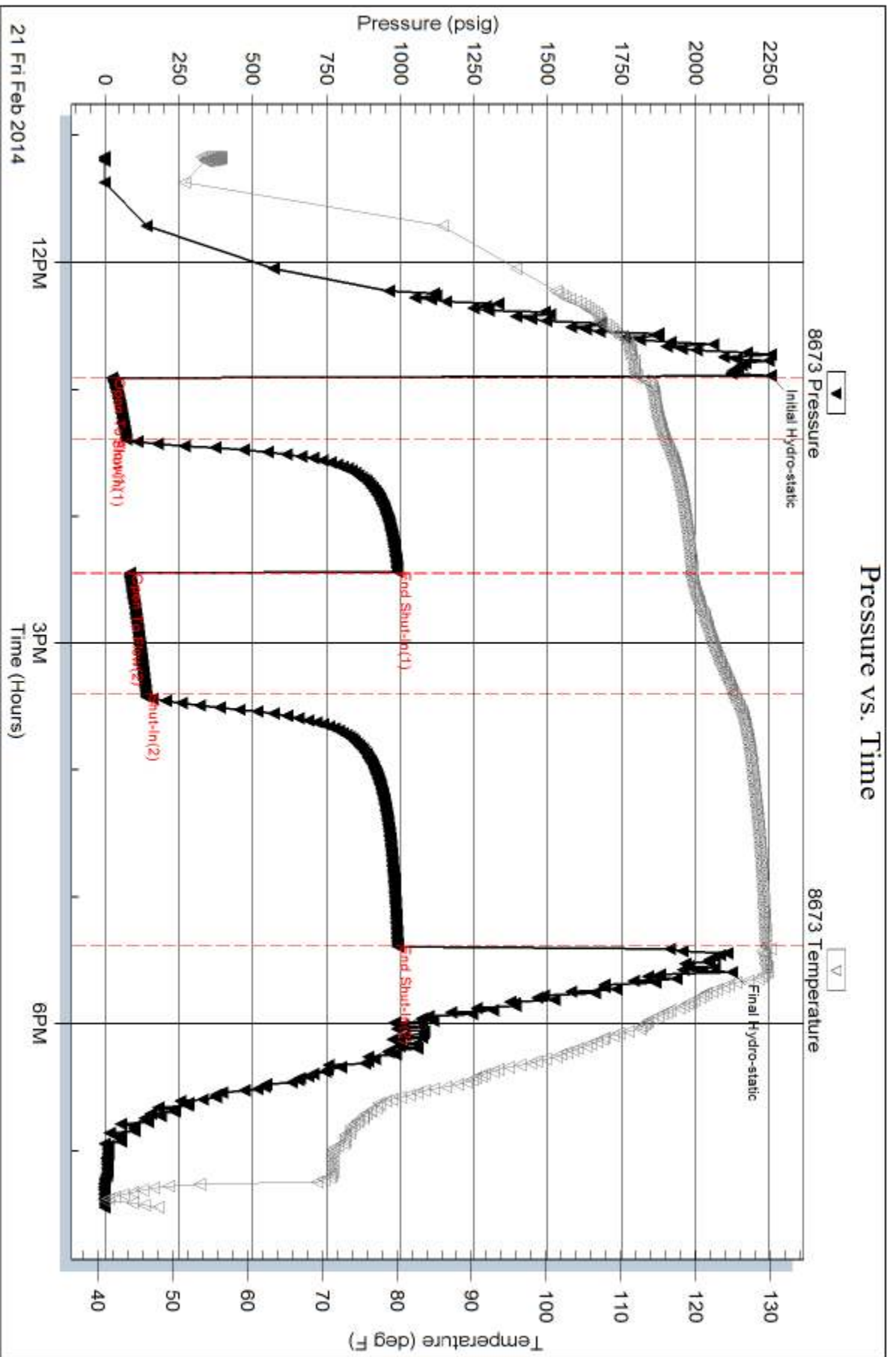
Serial #: 8673

Inside

Murfin Drilling Co.

Burk Trust 'J' #1-25

DST Test Number: 3

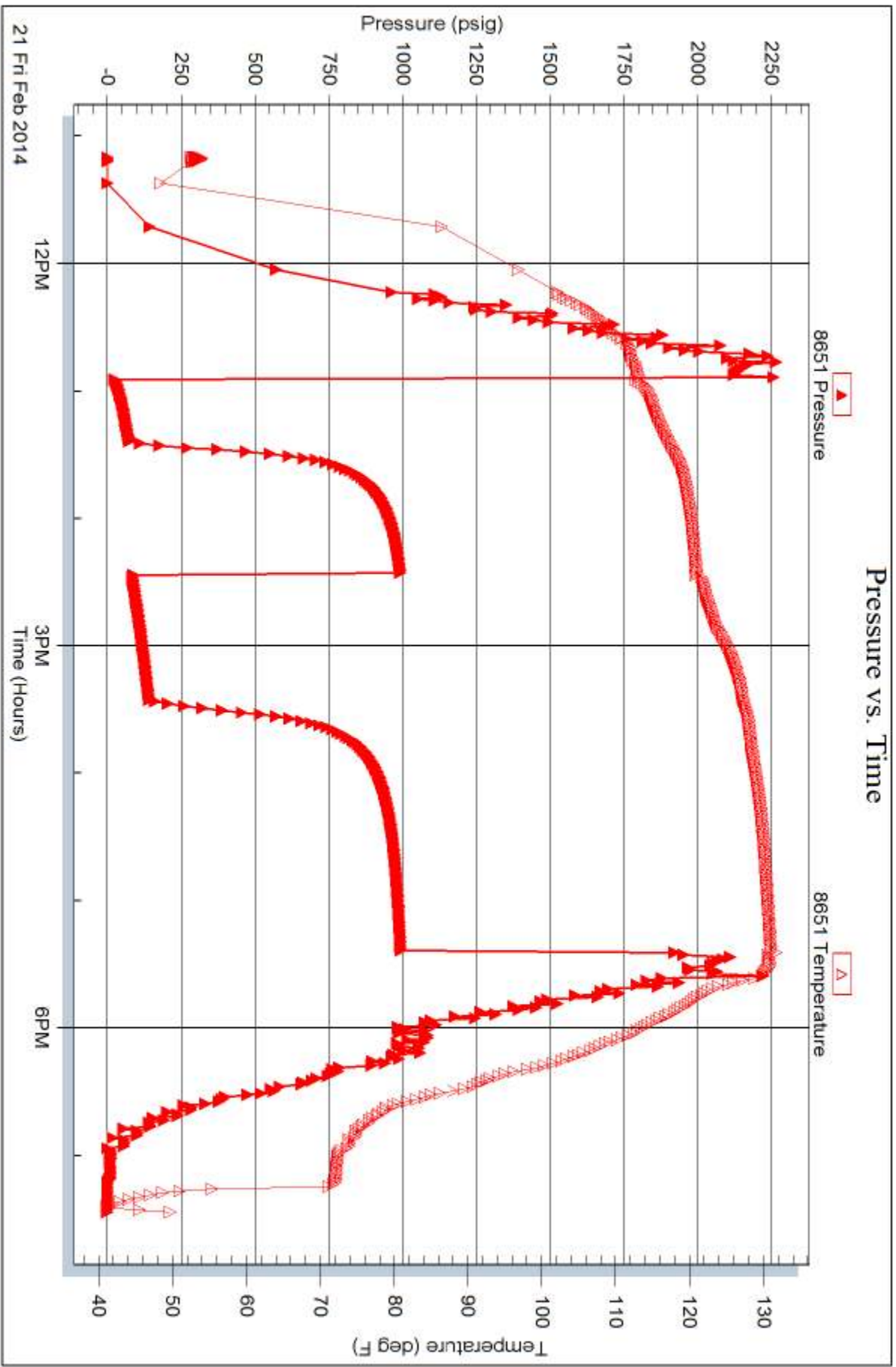


Serial #: 8651

Outside Murfin Drilling Co.

Burk Trust 'J' #1-25

DST Test Number: 3



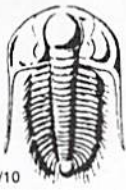
21 Fri Feb 2014

12PM

3PM

6PM

Time (Hours)



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56792

Well Name & No. Burk Trust 'J' #1-25 Test No. 1 Date 2-19-14
 Company Murfin Drilling Co. Elevation 3255 KB 3245 GL
 Address 256 N. water ste. 300 Wichita Ks 67202
 Co. Rep / Geo. check Rig Murfin #14
 Location: Sec. 25 Twp. 15 Rge. 36W Co. Rawlins State Ks

Interval Tested 4142 4270 Zone Tested LKC-A-D
 Anchor Length 128 Drill Pipe Run 3585 Mud Wt. 9.0
 Top Packer Depth 4137 Drill Collars Run 558 Vis 80
 Bottom Packer Depth 4142 Wt. Pipe Run 0 WL 6.4
 Total Depth 4270 Chlorides 700 ppm System LCM 4#

Blow Description IF: strong blow, Built to B.O. Bin 4 mins.
ISI: Bled off, Weak blow back, Built to 1/4 in. over 20 mins. Dead in 60 mins.
FF: strong blow, Built to B.O. B in 7 mins.
FSE: Bled off: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>198</u>	Feet of <u>ocmw</u>		<u>15</u>	<u>20</u>	<u>65</u>
<u>564</u>	Feet of <u>wcm</u>			<u>50</u>	<u>50</u>
<u>194</u>	Feet of <u>wcm</u>			<u>60</u>	<u>40</u>
<u>588</u>	Feet of <u>mcw</u>			<u>90</u>	<u>10</u>
<u>0</u>	Feet of <u>94 ft. gas into pipe</u>				

Rec Total 1509 ~~1509~~ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2199</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:30</u>
(B) First Initial Flow <u>82</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:15</u>
(C) First Final Flow <u>482</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:35</u>
(D) Initial Shut-In <u>1069</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>19:40</u>
(E) Second Initial Flow <u>492</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:35</u>
(F) Second Final Flow <u>663</u>	<input checked="" type="checkbox"/> Mileage <u>12.27 = 12.4 x 1.55</u> 192.20	Comments _____
(G) Final Shut-In <u>997</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2039</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>80</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>2017.20</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>2017.20</u>	

Approved By _____ Our Representative Chad Taylor
 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. 56793

Well Name & No. Burk Trust '5' #1-25 Test No. 2 Date 2-20-2014
 Company Murfin Drilling Co Elevation 3255 KB 3245 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. chuck Rig Murfin #14
 Location: Sec. 25 Twp. 15 Rge. 36w Co. Rawlins State Ks

Interval Tested 4073 4385 Zone Tested LKC-E, F
 Anchor Length 112 Drill Pipe Run 3702 Mud Wt. 9.5
 Top Packer Depth 4267 Drill Collars Run 558 Vis 53
 Bottom Packer Depth 4273 Wt. Pipe Run - 0- WL 7.6
 Total Depth 4385 Chlorides 1,100 ppm System LCM 4#

Blow Description IF: Weak surface, Died in 22 mins.
ISI: No blow back
FF: No blow
FSE: No blow back

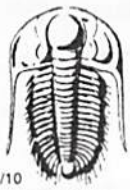
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 124 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2597</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>14:17</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:18</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:48</u>
(D) Initial Shut-In <u>1228</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:15</u>
(E) Second Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2 hrs</u> <u>200</u>	T-Out <u>2:02</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>6242 = 124 x 1.55</u> <u>192.20</u>	Comments <u>Rig waited on wind</u>
(G) Final Shut-In <u>1173</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2248</u>	<input type="checkbox"/> Straddle _____	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2217.20</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2217.20</u>	

Approved By _____ Our Representative Chuck Riggs

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

56794

NO.

Well Name & No. Bark Trust 4' #1-25 Test No. 3 Date 2-21-2014
 Company Murfin Drilling Co Elevation 3255 KB 2245 GL
 Address 250 N. Water Ste - 300 Wichita Ks 67202
 Co. Rep / Geo. Chuck Rig Murfin #14
 Location: Sec. 25 Twp. 15 Rge. 36w Co. Rawlins State Ks

Interval Tested 4368 4420 Zone Tested LRC-5
 Anchor Length 52 Drill Pipe Run 3802 Mud Wt. 9.5
 Top Packer Depth 4363 4368 Drill Collars Run 558 Vis 53
 Bottom Packer Depth 4368 4373 Wt. Pipe Run -0- WL 7.6
 Total Depth 4420 4305 Chlorides 1,100 ppm System LCM 4#

Blow Description IFI weak blow built to 2 in over 30 min

ISI: No blow back

FF: Weak blow, built to 2 in. over 30 mins

FJI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>gas & pipe 134</u>				
<u>14</u>	<u>oil on top</u>		<u>100%</u>		
<u>50</u>	<u>mco</u>		<u>70%</u>		<u>30%</u>
<u>188</u>	<u>ocm</u>		<u>30%</u>		<u>70%</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 252 BHT 125 Gravity 1250 API RW 192.20 @ 124 °F Chlorides 1,100 ppm

(A) Initial Hydrostatic 2254 Test 1250 T-On Location 11:08
 (B) First Initial Flow 23 Jars 250 T-Started 11:00
 (C) First Final Flow 70 Safety Joint 75 T-Open 12:54
 (D) Initial Shut-In 990 Circ Sub T-Pulled 5:00
 (E) Second Initial Flow 83 Hourly Standby T-Out 19:26
 (F) Second Final Flow 139 Mileage 62x124x1.55 192.20 Comments _____
 (G) Final Shut-In 991 Sampler _____
 (H) Final Hydrostatic 2125 Straddle _____
 Shale Packer Ruined Shale Packer _____
 Extra Packer Ruined Packer _____
 Extra Recorder Extra Copies _____
 Day Standby Sub Total 0
 Accessibility Total 1767.20
 Sub Total 1767.20 MP/DST Disc't _____

Approved By _____

Our Representative Chuck

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CHARLES SCHWALTZ
CONSULTING GEOLOGIST
WICHITA, KANSAS

GEOLOGIC
REPORT
LOG

MURFIN DRILLING CO.
BURK TRUST J. #1-25
WELL NO. 15
FIELD NO. 25

LOCATION: **610' FNL. 1598' FEL**
TWP. **15** R. **31W**
COUNTY: **KANSAS**

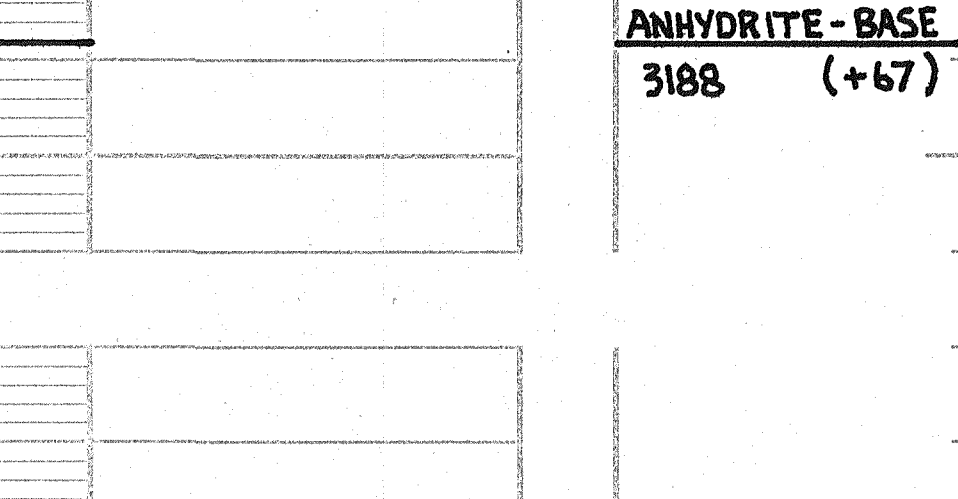
FORMATION	THICKNESS (FEET)	DESCRIPTION
ANHYDRITE - TOP	2152	3152
ANHYDRITE - BASE	2152	3152
RED EAGLE	2152	3152
FORAKER	2152	3152
DEER CREEK	2152	3152
LANING	2152	3152
STARK	2152	3152
BKC	2152	3152
PAWNEE	2152	3152
MURFIN DRILLING CO.	2152	3152
DAVING W. #1-19	2152	3152
630' FNL. 2050' FNL. 522' R-TIS 133W RIMMENCY	2152	3152

FORMATION	THICKNESS (FEET)	DESCRIPTION
ANHYDRITE - TOP	2152	3152
ANHYDRITE - BASE	2152	3152
RED EAGLE	2152	3152
FORAKER	2152	3152
DEER CREEK	2152	3152
LANING	2152	3152
STARK	2152	3152
BKC	2152	3152
PAWNEE	2152	3152
MURFIN DRILLING CO.	2152	3152
DAVING W. #1-19	2152	3152
630' FNL. 2050' FNL. 522' R-TIS 133W RIMMENCY	2152	3152

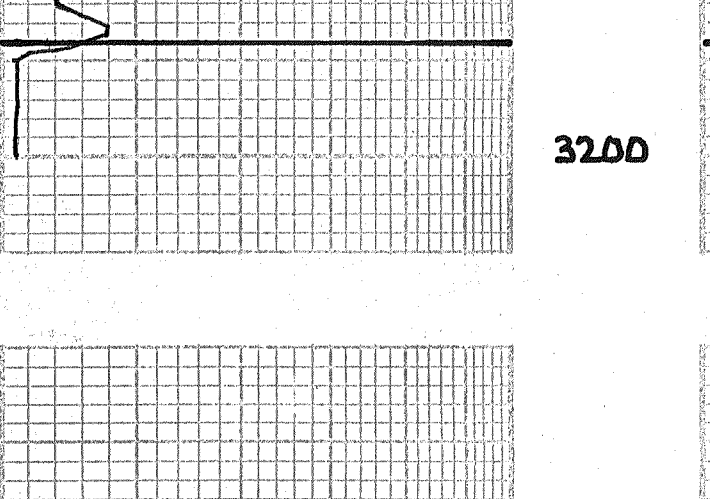
NO.	DEPTH	DIAMETER	FEET	REMARKS
1	4112	8 1/2"	497'	94' GIP
2	4170	4 1/2"	203'	198' OCM
3	4273	2 1/2"	173'	131' M.W. (32% M. 68% W)
4	4385	2 1/2"	224'	20' MUD N.S.
5	4388	2 1/2"	224'	134' GIP
6	4420	3 3/4"	212'	20' MUD N.S.
7	4420	3 3/4"	212'	188' OCM

NO.	DEPTH	DIAMETER	FEET	REMARKS
1	4112	8 1/2"	497'	94' GIP
2	4170	4 1/2"	203'	198' OCM
3	4273	2 1/2"	173'	131' M.W. (32% M. 68% W)
4	4385	2 1/2"	224'	20' MUD N.S.
5	4388	2 1/2"	224'	134' GIP
6	4420	3 3/4"	212'	20' MUD N.S.
7	4420	3 3/4"	212'	188' OCM

LEGEND



DRILLING TIME IN MINUTES PER FOOT



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
3100				ANHYDRITE - TOP 3152 (+103)
3150				ANHYDRITE - BASE 3188 (+67)
3200				
3550		sh: rust, v. silty; ss: wh. lt. gray, v. fr. grained, sh. calc, no vis. N.S.		
3600		sh: rust, rust-brown, silty, sp. scatt. lt. calc. nodules, imbedded anhy. nodules		
3650		sh: rust, silty → red siltstone, wh. lt. gray siltstone → v. fr. gr. ss; no vis. N.S.		NEVA 3649 (-394)
3700		sh: rust, brown, silty		
3750		sh: rust, brown, silty, some gray gn.		RED EAGLE 3712 (-457)
3800		sh: rust, brown, silty, some gray gn.		
3850		sh: rust, brown, silty, some gray gn.		
3900		sh: rust, brown, silty, some gray gn.		FORAKER 3759 (-504)
3950		sh: rust, brown, silty, some gray gn.		
4000		sh: rust, brown, silty, some gray gn.		STOTLER 3913 (-658)
4050		sh: rust, brown, silty, some gray gn.		
4100		sh: rust, brown, silty, some gray gn.		TOPEKA 3977 (-722)
4150		sh: rust, brown, silty, some gray gn.		
4200		sh: rust, brown, silty, some gray gn.		DEER CREEK 3994 (-739)
4250		sh: rust, brown, silty, some gray gn.		
4300		sh: rust, brown, silty, some gray gn.		LECOMPTON 4043 (-788)
4350		sh: rust, brown, silty, some gray gn.		
4400		sh: rust, brown, silty, some gray gn.		OREAD 4095 (-840)
4450		sh: rust, brown, silty, some gray gn.		
4500		sh: rust, brown, silty, some gray gn.		LANING 4199 (-944)
4550		sh: rust, brown, silty, some gray gn.		DST #1 (4142-4270) 30" - 60" - 60" - 90" IFB: BOB IN 4" ISIP: BLOW BUILT TO 1/4" & DIED FFP: BOB IN 7" FSIP: NO BLOW RECOVERY: 94' GIP 194' OCM W (15% O, 20% M, 65% W) 131' MW (32% M, 68% W) CML: 4000 PPM MUD: 700 PPM HSP: 2199' - 2039' FP: 82' - 482' / 492' - 663' SIP: 1069' - 997' BHT: 120' F
4600		sh: rust, brown, silty, some gray gn.		DST #2 4273 - 4385 30" - 60" - 60" - 60" IFB: BOB IN 4" ISIP: BLOW BUILT TO 1/4" & DIED FFP: BOB IN 7" FSIP: NO BLOW RECOVERY: 25' MUD N.S. HSP: 2597' - 2248' FP: 21' - 37' / 41' - 53' SIP: 1278' - 1173' BHT: 124' F W DPT: 2 FTS VERY MINOR BLEEDING
4650		sh: rust, brown, silty, some gray gn.		DST #3 4388 - 4420 30" - 60" - 60" - 90" IFB: SURF BLOW BLDG TO 2" ISIP: SURF BLOW BLDG TO 2" FFP: NO BLOW FSIP: NO BLOW RECOVERY: 134' GIP 14' CO 50' MUD (30% M, 70% W) 188' OCM (20% O, 70% W) HSP: 2254' - 2248' FP: 21' - 37' / 41' - 53' SIP: 990' - 991' BHT: 125 F
4700		sh: rust, brown, silty, some gray gn.		STARK 4415 (-1160)
4750		sh: rust, brown, silty, some gray gn.		BKC 4463 (-1208)
4800		sh: rust, brown, silty, some gray gn.		MARMATON 4503 (-1248)
4850		sh: rust, brown, silty, some gray gn.		PAWNEE 4583 (-1328)
4900		sh: rust, brown, silty, some gray gn.		CHEROKEE 4668 (-1413)
4950		sh: rust, brown, silty, some gray gn.		RTD 478D (-1525)



PO Box 93999
Southlake, TX 76092

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

INVOICE

over - Prod - LH

Invoice Number: 141364

Invoice Date: Feb 15, 2014

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	61464	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 15, 2014	3/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust J #1-25		
230.00	CEMENT MATERIALS	Class A Common	17.90	4,117.00
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
241.50	CEMENT SERVICE	Cubic Feet Charge	2.48	598.92
946.05	CEMENT SERVICE	Ton Mileage Charge	2.60	2,459.73
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
85.00	CEMENT SERVICE	Pump Truck Mileage	7.70	654.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
85.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	374.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

D2

Subtotal	10,503.40
Sales Tax	365.69
Total Invoice Amount	10,869.09
Payment/Credit Applied	
TOTAL	10,869.09

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

\$ 3,676.19 *25%*

ONLY IF PAID ON OR BEFORE
Mar 12, 2014

- 3676.19
2192.90

ALLIED OIL & GAS SERVICES, LLC 061464

Federal Tax I.D. # 20-8651475

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

SERVICE POINT
Oakley KS

DATE <u>2-15-14</u>	SEC. <u>25</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 p.m.</u>	JOB FINISH <u>3:00 p.m. #21</u>
LEASE <u>Brickyard</u> WELL # <u>J</u>		LOCATION <u>Beardsley N to AA W to Rd 6 Simco</u>			COUNTY <u>Rawlins</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR <u>Martin 14</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>13 1/4</u>	T.D. <u>267'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>267'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>11.25 bbl water</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Paul Bauer</u>	
# <u>20</u> HELPER <u>John Price</u>	
BULK TRUCK	
# <u>375</u> DRIVER <u>Thomas (TWS)</u>	
BULK TRUCK	
#	DRIVER

CEMENT AMOUNT ORDERED	<u>230 sks Corn</u>		
<u>3%</u> CC			
COMMON	<u>230 sks @ 17.70</u>	<u>4117.00</u>	
POZMIX			
GEL			
CHLORIDE	<u>8 sks @ 64.00</u>	<u>512.00</u>	
ASC			
HANDLING <u>241.5 @ 2.48</u>	<u>598.92</u>		
MILBAGE <u>11.13 tons @ 85 ml @ 2.40</u>	<u>2452.73</u>		
TOTAL		<u>7687.65</u>	

REMARKS:
mix 230 sks
Displace w/ water
cement did circulate

Thank you!

CHARGE TO: Martin Drly.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE			
DEPTH OF JOB	<u>267'</u>		
PUMP TRUCK CHARGE		<u>452.25</u>	
EXTRA FOOTAGE			
MILBAGE <u>11.13 @ 85</u>	<u>946.75</u>		
MANIFOLD <u>Sweet</u>		<u>275.00</u>	
MILV <u>85</u>	<u>4.40</u>	<u>374.00</u>	
TOTAL		<u>2815.75</u>	

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 Craig Howard

SIGNATURE

SALES TAX (If Any) _____

TOTAL CHARGES 10,503.40

DISCOUNT 3,676.19 IF PAID IN 30 DAYS

6,827.21 Net.



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
2/23/2014	25385

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 103</u>
APPROVED <u>JJK</u> <u>FH</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-25	Burk Trust J	Rawlins		Oil	Development	Cement Top To ...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString - 4746 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				5	Each	40.00	200.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
276	Flocele				50	Lb(s)	2.50	125.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.50	634.50T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				150	Lb(s)	2.50	375.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,814.43	Ton Miles	1.00	3,814.43
	Subtotal							22,083.93
	Sales Tax Rawlins County						7.90%	1,135.19

We Appreciate Your Business!

Total

\$23,219.12



CHARGE TO: Murfin Dng Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 25385
 PAGE 1 OF 2

SERVICE LOCATIONS		WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE
1. <u>Hays, KS</u>		<u>1-25</u>	<u>Bank Trust 'S'</u>	<u>Rawlins</u>	<u>KS</u>		<u>2-23-14</u>
2. <u>Ness City, KS</u>		TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.		<u>Co</u>		<u>#14</u>	<u>CT</u>	<u>Nu/Bendley, KS</u>	
4. REPERAL LOCATION		WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
		<u>D11</u>	<u>Isolated</u>	<u>Cement Linstriping</u>		<u>TOP TO BOTTOM</u>	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE #113		150	mi			140	90000
579		1			Pump Phase - CUT TOP TO BOTTOM		1	ea		4746	800000	300000
281		1			Liquid KIL		4	gal			2800	11200
281		1			Mixed Flush		5	gal			125	62500
290		1			D-Air		5	gal			4200	21000
403		1			Cement Baskets		3	ea		5 1/2 in	3200	9600
416		1			Label Drive Plug & Bottle		1	ea		5 1/2 in	29500	29500
409		1			Insect Flot Sine W/ Auto-Feed		1	ea		5 1/2 in	37500	37500
413		1			Turbalizers		15	ea		5 1/2 in	9000	135000
419		1			Rotating Head Rental		5	ea		5 GA.	4000	20000

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 2-23-14 TIME SIGNED: 1400 A.M. P.M.

DATE SIGNED: 2-23-14 TIME SIGNED: 1400 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 7135.00
 SUBTOTAL: 14948.93
 TAX: 1135.19
 TOTAL: 23,214.12

SWIFT OPERATOR: Alan Stearns APPROVAL: _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 25385

CUSTOMER
MURFIN D & C

WELL # 1-25 Buck Truss 23-14

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT	
		LOC	ACCT			DF	QTY	UM	QTY				UM
325		2			Standard cement	200	SK	18800	lbs	23-14	1450	2900.00	
276		2			Flux	50	lbs				3150	157.50	
283		2			Salt	1000	lbs				30	30000	
284		2			Calceol	940	lbs	10	SK		35000	350000	
285		2			CFR-1	141	lbs				4500	634.50	
330		2			SWED Cement	300	SK	29798	lbs		1850	555000	
276		2			Flux	150	lbs				2100	315000	
581		2									800	120000	
583		2									100	3814.43	
SERVICE CHARGE						Concrete		500 SK					
MILEAGE CHANGE						TOTAL WEIGHT		LOADED MILES		CUBIC FEET		TON MILES	
						50859 lb		150		3814.43		500 SK	
CONTINUATION TOTAL												14948.93	

JOB LOG

SWIFT Services, Inc.

DATE 2-23-14 PAGE NO. 1

CUSTOMER Mountain Drilling Co.

WELL NO. 1-25

LEASE Burk Trust 'J' JOB TYPE Cement Longstring

TICKET NO. 25389

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1345					15.5 #	5 1/2	TO 4780' On location - Float Equip.
	1445							Rig changing over to run casing Start 5 1/2 - 15.5 #/ft casing to 4760'
								Insert Float Shoe w/ Auto - RLL (118.6)
								L.D. Baffle - 55-21' @ 4746' = 113
								Cent - 1 to 10 - 12 - 14 - 16 - 38 - 62
	1600							Baskets # 15-39-63 (25' Reto walls)
								Brk cir # 63
	1715							Drop fill-up ball 5 percent
	1730							Fin run casing
	1740							Start cir / Reto
	1830							Lost cir - Rig mix mud
	1915							Circulation back
			9					Plug RH - MH 30/20 SMD cut
		5	12			700		Pump 500 gal Mud flush
		6	20			700		Pump 20 BBL KCL flush
		5				600		Start 250 SKS SMD @ 11.2 #/gal
		4	1600			300		Fin SMD - Start 200 SKS EA-2 cut
			198			Vac		Fin cut
								Wash out pump & lines
		9				500		Drop L.D. Plug - Start Displ.
		9	55			500		Caught lift press
		9				600		Slow rate
		8				1000		Slow rate
		6 1/2	98			1200		Lost returns
		6 1/2	108			1300		Returns back - cut cir
			112			1400		cir press
	2045		113			1900		Plug Down Hold - Release & Hold
	2055							5 to 10 SKS cut circulate
	2100							Job Complete
								Wash up & Rack up
	2145							

[Signature]
 Man, Son of Craig
 of Isaac

Depth 4330'. Cut 60'. DT: None. CT: 19¾ hrs. Dev.: ¾° @ 4270'. **DST #1 4142 – 4270 (LKC A-D)**: 30-60-60-90. IF: strong blw BOB 4mins. ISI: wk blw back, built to ¼" after 20mins. FF: strong blw, built to BOB in 7mins. Rec.: 558'MCW (10%M, 90%W), 194'MCW (40%M, 60%W), 564'WCM (50%W, 50%M), 193'OCMW(15%O, 20%W, 65%M), 94'GIP. HP: 2199-2039. FP: 82/482, 492/663. SIP: 1069-997. BHT: 135°. **LKC 'G'**: ls: wh, tan, fn-medxtln, sli ool, foss (fusil), chalky in part, scat pr-some fr interxtln & vuggypor, spotty med-dk brwn st, P-tr FSO on brk, no odor. Drld 4-5"/ft to 3,2.5,3,3,2,3,2,2.5,2.5,2,3 to 4-5's. **LKC 'G'**: ls: off, tan, fn-medxtln, scat vpr interxtln por, pr spotty st, NSFO, no odor. **LKC 'H'**: ls: tan, lt brwn, fn-medxtln, foss, sli ool, chalky in part, pr-some scat fr interxtln, pr - few pcs fr st w/ patchy sat, S-few pcs FSFO on brk, slow - med streaming cut, no odor. Drld 3.5/4.5" to 4' @ 2" to 3.5/4" **LKC 'I'**: ls: lt grey, lt brown, fnxtln, trace, foss, chalky, no vis por, NS. **DST #2 4273-4385 (LKC G-I)**:

2/21/14 Depth 4400'. Cut 70'. DT: None. CT: 19hrs. Dev.: None. DST #2 waited F/2:00-6:00PM (4hrs) on high winds. **DST #2 4273-4385 (LKC G-I)**: 30-60-30-60. IF: wk blw ½" died 22mins. FF: no blw. Rec.: 20'M. HP 2597-2248. FP: 21/37, 41/53. SIP: 1228-1173. BHT: 129°. **LKC 'J'**: ls: off-wh, tan, fn-medxtln, sli foss, app pr- fr ppt & fr vuggy por, scat pcs recemented ls frags w/ fr inter particle por, fr - cpl pcs gd med-dk st, scat st along small fracs, S-FSO (gassey) on brk, cpl pcs w/ sli natural bleed, no odor. **DST #3 (4368-4420) LKC J**:

2/22/14 Depth 4540'. Cut 140'. DT: None. CT: 14¼ hrs. Dev.: None. **DST #3 4368-4420 (LKC J)**: 30-60-60-90. IF: wk blw built to 2" over 30 min. FF: wk blw, built to 2" over 60 min. Rec.: 134'GIP, 14'CO, 50'MCO (30%M, 70%O), 188'OCM (30%O, 70%M). HP: 2254-2125. FP: 23/72, 83/139. SIP: 990-991. BHT: 130°.

2/23/14 RTD: 4780'. Cut 240'. DT: None. CT: 11¾ hrs. Dev.: 1° @ 4780'. TD @ 7:15PM 2/22. Pioneer logged 1:00AM – 7:00AM 2/23. LTD: 4781'. Plan to run 5 ½" prod csg.

2/24/14 RTD: 4780'. CT: 18hrs. Ran 114 jts of 15.5# 5½" prod csg, set @ 4767'. Swift cmt w/250sxs SMD, 200sxs EA-2. PD @ 9:00PM 2/23. 30sxs RH, 20sxs MH. Circ 5BBLs. RR @ 1:00AM 2/24. FINAL REPORT

MDCI Burk Trust 'J' #1-25 610' FNL 1590' FEL Sec. 25-T1S-R36W 3255' KB							MDCI Downing 'A' #1-19 330' FNL 2060' FWL Sec. 19-T1S-R35W 3211' KB		
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	
Anhydrite	3152	+103	-8	3157	+98	-13	3100	+111	
B/Anhydrite	3188	+67	-4	3190	+65	-6	3140	+71	
Neva	3647	-392	-4	3653	-398	-10	3599	-388	
Red Eagle	3710	-455	-4	3714	-459	-8	3662	-451	
Foraker	3759	-504	-4	3764	-509	-9	3711	-500	
Topeka	3977	-722	-8	3976	-721	-7	3925	-714	
Oread	4095	-840	-10	4094	-839	-9	4041	-830	
Lansing	4199	-944	-9	4199	-944	-9	4146	-935	
Stark	4415	-1160	-14	4411	-1156	-10	4357	-1146	
BKC	4464	-1209	-13	4461	-1206	-10	4407	-1196	
Pawnee	4585	-1330	-13	4580	-1325	-8	4528	-1317	
Cherokee	4669	-1414	-15	4663	-1408	-9	4610	-1399	
Mississippi	NR			NR					
RTD	4780	-1525					4700	-1489	
LTD				4781	-1526		4698	-1487	