



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1186544
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: _____

1186544

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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MDCI Burk Trust 'C' #2-22 2190' FSL 1750' FEL Sec. 22-T1S-R36W 3213' KB							MDCI Burk Trust 'C' #1-22 1980' FSL 660' FEL Sec. 22-T1S-R36W 3225' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3112	+101	-2	3113	+100	-3	3122	+103
B/Anhydrite	3146	+67	-6	3146	+67	-6	3152	+73
Neva	3597	-384	-4	3594	-381	-1	3605	-380
Red Eagle	3659	-446	-6	3656	-443	-3	3665	-440
Foraker	3707	-494	-5	3705	-492	-3	3714	-489
Topeka	3925	-712	-7	3926	-713	-8	3930	-705
Oread	4033	-820	-5	4033	-820	-5	4040	-815
Lansing	4141	-928	-5	4140	-927	-4	4148	-923
Stark	4360	-1147	-6	4361	-1148	-7	4366	-1141
BKC	4410	-1197	-8	4413	-1200	-11	4414	-1189
RTD	4510						4720	-1495
LTD				4510	-1297		4719	-1494

Robert D. Hendrix

Petroleum Geologist

GEOLGISTS REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Murfin Drilling Co. Inc.**

LEASE: **Burk Trust #2-22**

FIELD: **NA**

LOCATION: **2190' fsl & 1750' fe1**

SEC: **22** TWP: **1** RGE: **36**

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

CONTRACTOR: **Murfin Drilling Co Inc Rig #8**

SPUD: **10/7/2013** COMP: **10/16/2013**

RTD: **4:51:00** LPT: **4:51:00**

MUD UP: **3:56:97** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **3490'** TO: **TD**

DRILLING TIME KEPT FROM: **3500'** TO: **TD**

SAMPLES EXAMINED FROM: **3490'** TO: **TD**

GEOLOGICAL SUPERVISION FROM: **3552'**

GEOLOGIST ON WELL: **Robert D. Hendrix**

Neutron/Density/Gravimetric
Primar Energy Services

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Anhydrite

Sandstone

Limestone

Shale

Carb Sh

Cherty LS

Chert

Dolomite

KB: 3213'

DF: _____

GL: 3208'

Measurements by All From Kelly Bunting

CASING 5'

CONDUCTOR SURFACE: 8:18' @ 2138'

PRODUCTION: 5 1/2" @ 4508'

ELECTRICAL SURVEYS

APR# 15-153-20952

REMARKS:

APR# 15-153-20952

APR# 15-153-20952

APR# 15-153-20952

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APR#



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Burk Trust C #2-22

22-1s-36w Rawlins KS

Start Date: 2013.10.12 @ 01:57:00

End Date: 2013.10.12 @ 12:12:04

Job Ticket #: 55134 DST #: 1

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

Printed: 2013.10.17 @ 10:22:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55134

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.10.12 @ 01:57:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:11:45

Time Test Ended: 12:12:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 41

Interval: 4003.00 ft (KB) To 4041.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4041.00 ft (KB) (TVD)

3175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 184.47 psig @ 4004.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.12 End Date: 2013.10.12

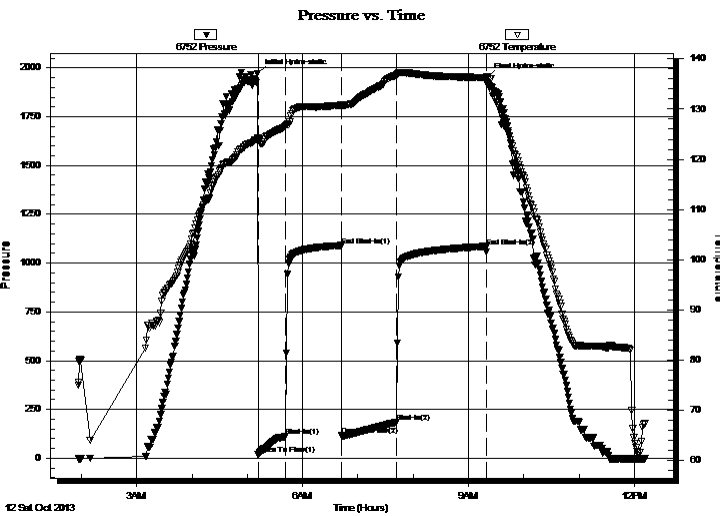
Last Calib.: 2013.10.12

Start Time: 01:57:01 End Time: 12:12:04

Time On Btm: 2013.10.12 @ 05:11:35

Time Off Btm: 2013.10.12 @ 09:19:54

TEST COMMENT: 30 IF - Surface blow built to 9 1/2"
60 ISI - Surface blow started @ 17 mins
60 FF - Surface blow started @ 1 min built to BoB @ 33 mins
90 FSI - Surface blow started @ 5 mins built to 3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.27	124.21	Initial Hydro-static
1	18.14	123.74	Open To Flow (1)
31	111.88	126.62	Shut-In(1)
91	1090.39	130.80	End Shut-In(1)
91	116.85	130.36	Open To Flow (2)
151	184.47	136.79	Shut-In(2)
248	1085.76	136.33	End Shut-In(2)
249	1949.64	136.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	OMCW - 2%o - 5%M - 93%W	1.04
63.00	OWCM - 5%o - 45%W - 50%M	0.88
126.00	OCM - 25%o - 75%M	1.77
15.00	Oil - 100% o	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55134

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.10.12 @ 01:57:00

Tool Information

Drill Pipe:	Length: 3823.00 ft	Diameter: 3.80 inches	Volume: 53.63 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4003.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Jars	5.00			3992.00	
Safety Joint	2.00			3994.00	
Packer	5.00			3999.00	27.00 Bottom Of Top Packer
Packer	4.00			4003.00	
Stubb	1.00			4004.00	
Recorder	0.00	6752	Inside	4004.00	
Recorder	0.00	8322	Outside	4004.00	
Perforations	34.00			4038.00	
Bullnose	3.00			4041.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55134

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.10.12 @ 01:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52500 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.98 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
189.00	OMCW - 2%o - 5%M - 93%W	1.039
63.00	OWCM - 5%o - 45%W - 50%M	0.884
126.00	OCM - 25%o - 75%M	1.767
15.00	Oil - 100% o	0.210

Total Length: 393.00 ft

Total Volume: 3.900 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

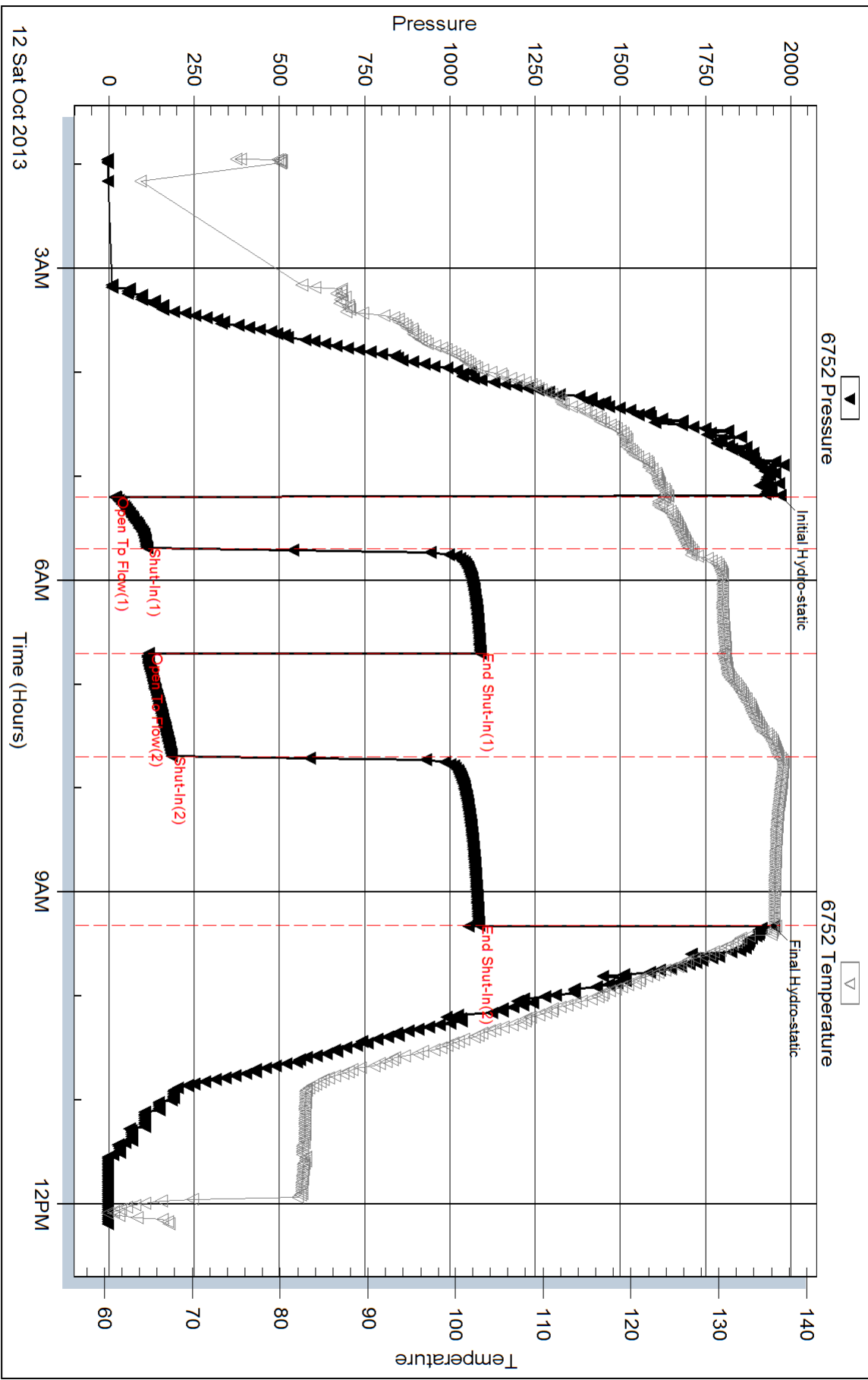
Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 22 @ 70 DEG F

RW = .153 @ 73 DEG F

Pressure vs. Time

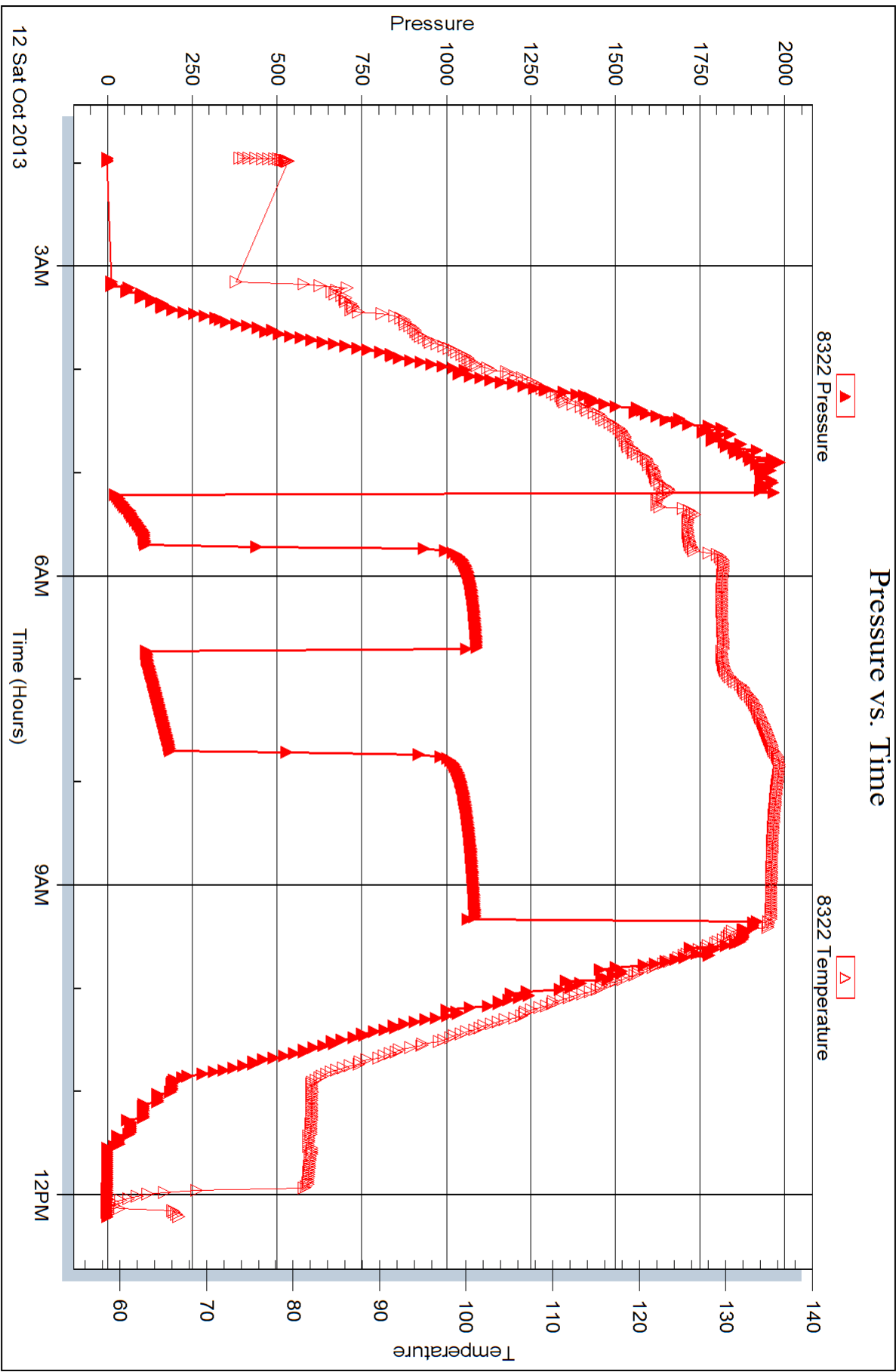


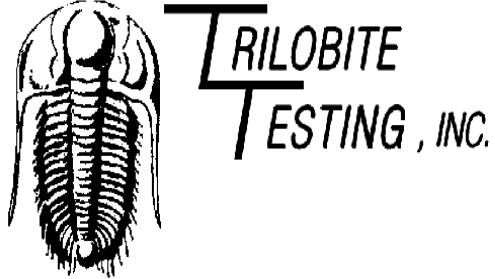
Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Burk Trust C #2-22

22-1s-36w Rawlins KS

Start Date: 2013.10.13 @ 09:02:00

End Date: 2013.10.13 @ 18:16:30

Job Ticket #: 55135 DST #: 2

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

Printed: 2013.10.17 @ 10:17:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

ATTN: Robert Hendrix

Job Ticket: 55135

DST#: 2

Test Start: 2013.10.13 @ 09:02:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:57:00

Time Test Ended: 18:16:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4147.00 ft (KB) To 4208.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4208.00 ft (KB) (TVD)

3175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 87.98 psig @ 4148.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.13

End Date:

2013.10.13

Last Calib.:

2013.10.13

Start Time: 09:02:01

End Time:

18:16:30

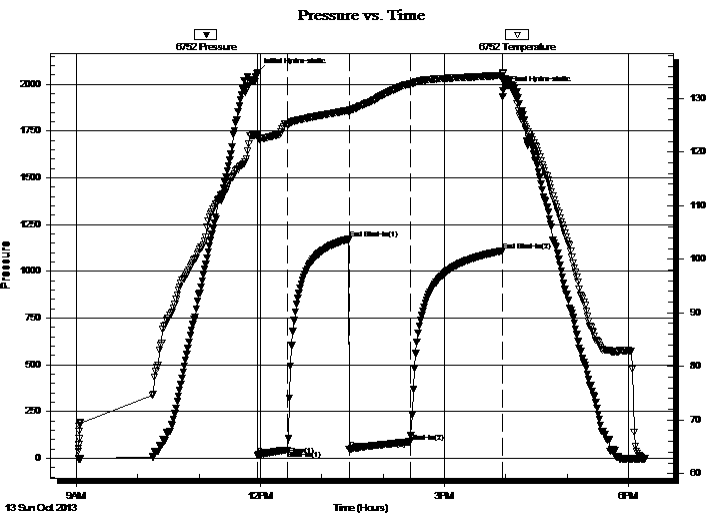
Time On Btm:

2013.10.13 @ 11:56:50

Time Off Btm:

2013.10.13 @ 15:57:09

TEST COMMENT: 30 IF - Surface blow built to 2 1/2"
60 ISI - No return
60 FF - Surface blow built to 3 1/2"
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.57	123.31	Initial Hydro-static
1	16.51	122.90	Open To Flow (1)
30	44.26	125.19	Shut-In(1)
90	1172.93	127.77	End Shut-In(1)
90	48.32	127.31	Open To Flow (2)
150	87.98	132.66	Shut-In(2)
240	1109.27	134.28	End Shut-In(2)
241	1965.60	134.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW - 20%M - 80%W	0.30
62.00	WCM - 2%W - 98%M	0.30
5.00	Mud w / oil spots 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55135

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.10.13 @ 09:02:00

Tool Information

Drill Pipe:	Length: 3950.00 ft	Diameter: 3.80 inches	Volume: 55.41 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 56.28 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4147.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4121.00	
Shut In Tool	5.00			4126.00	
Hydraulic tool	5.00			4131.00	
Jars	5.00			4136.00	
Safety Joint	2.00			4138.00	
Packer	5.00			4143.00	27.00 Bottom Of Top Packer
Packer	4.00			4147.00	
Stubb	1.00			4148.00	
Recorder	0.00	6752	Inside	4148.00	
Recorder	0.00	8322	Outside	4148.00	
Perforations	24.00			4172.00	
Change Over Sub	1.00			4173.00	
Drill Pipe	31.00			4204.00	
Change Over Sub	1.00			4205.00	
Bullnose	3.00			4208.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55135

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.10.13 @ 09:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 6.78 in³
Resistivity: ohm.m
Salinity: 800.00 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: 31000 ppm

Recovery Information

Recovery Table

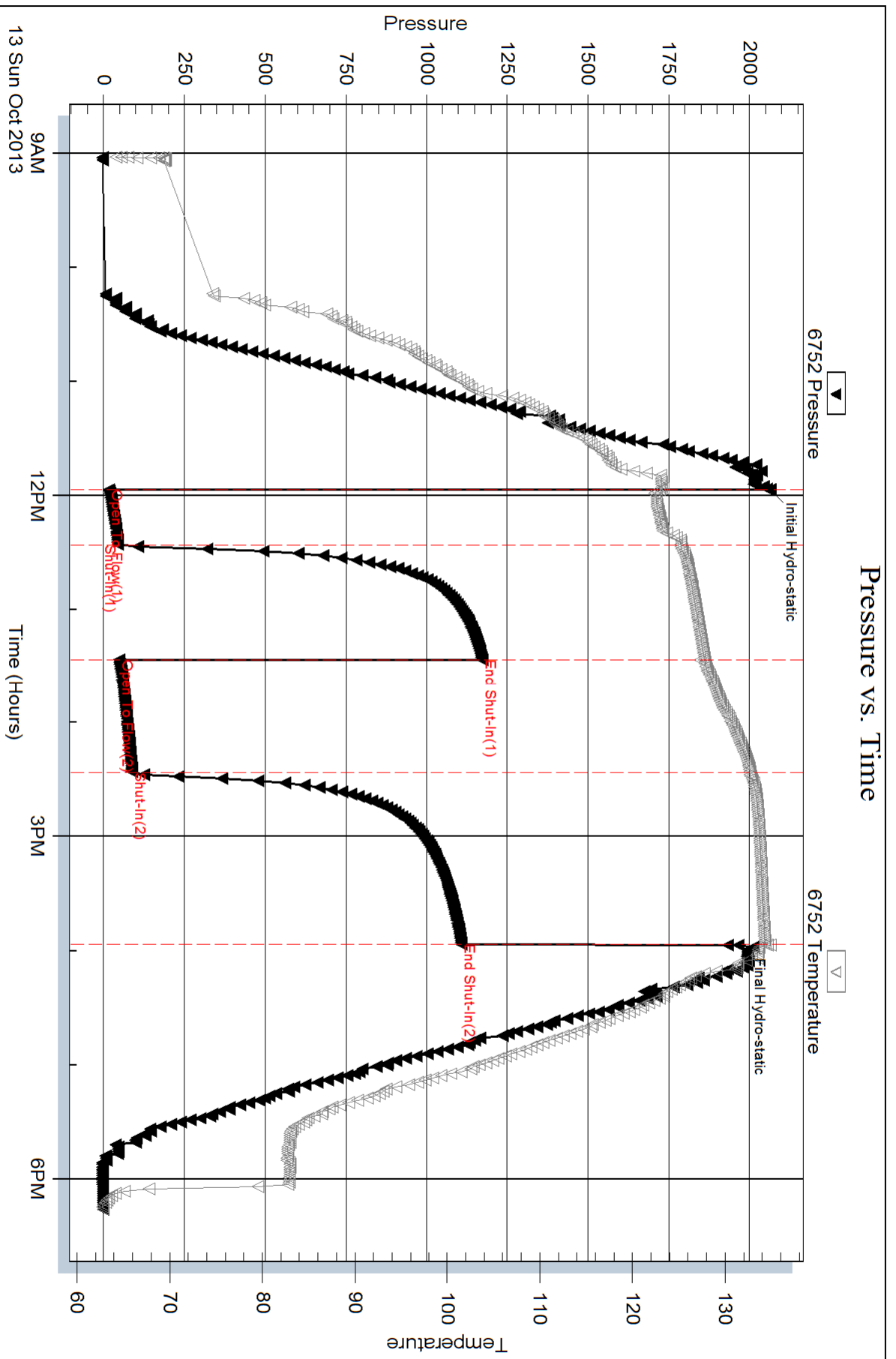
Length ft	Description	Volume bbl
62.00	MCW - 20%M - 80%W	0.305
62.00	WCM - 2%W - 98%M	0.305
5.00	Mud w / oil spots 100%M	0.025

Total Length: 129.00 ft Total Volume: 0.635 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .240 @ 67 DEG F
CHLORIDES = 31,000 PPM

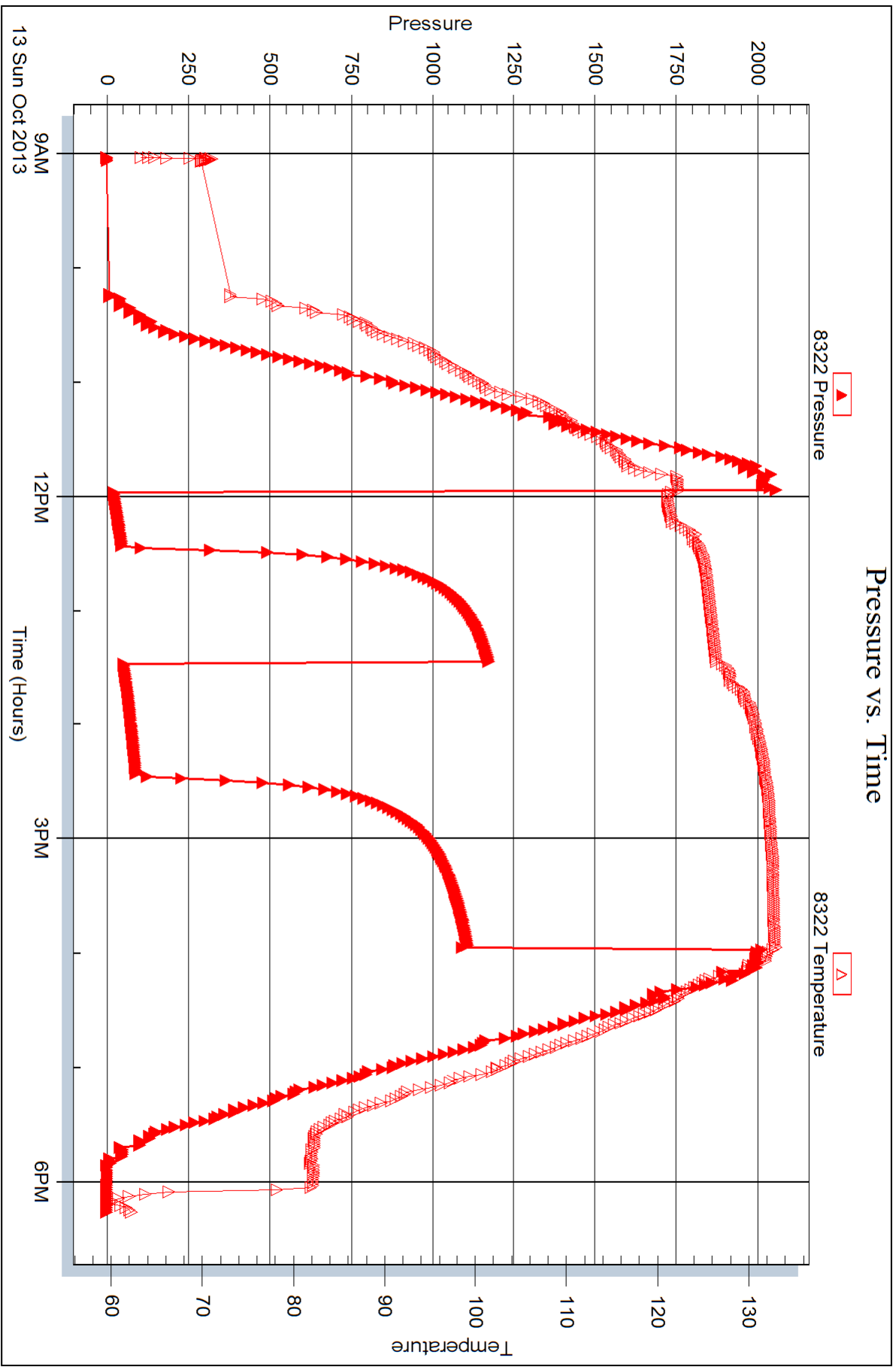


Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Burk Trust C #2-22

22-1s-36w Rawlins KS

Start Date: 2013.10.14 @ 09:09:00

End Date: 2013.10.15 @ 18:39:00

Job Ticket #: 55136 DST #: 3

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

Printed: 2013.10.17 @ 10:17:05

Murfin Drilling Company Inc. 22-1s-36w Rawlins KS Burk Trust C #2-22 DST # 3 LKC " G " 2013.10.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

ATTN: Robert Hendrix

Job Ticket: 55136

DST#: 3

Test Start: 2013.10.14 @ 09:09:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:46:50

Time Test Ended: 18:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4224.00 ft (KB) To 4296.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4296.00 ft (KB) (TVD)

3175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 88.15 psig @ 4225.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.14

End Date:

2013.10.14

Last Calib.: 2013.10.14

Start Time: 09:09:01

End Time:

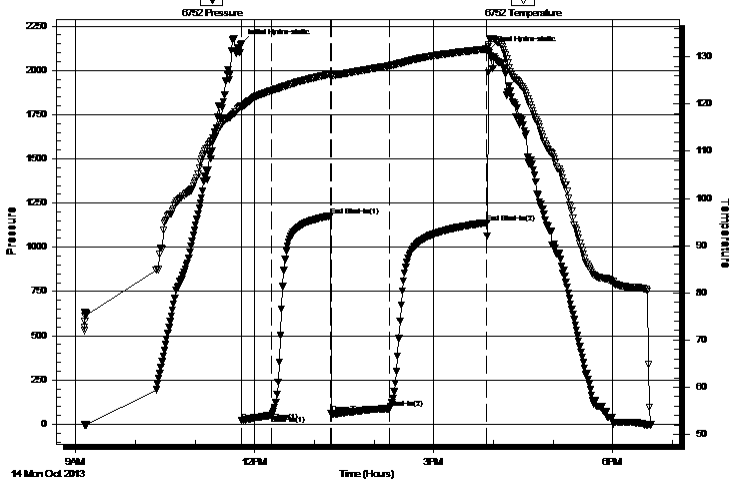
18:39:00

Time On Btm: 2013.10.14 @ 11:46:40

Time Off Btm: 2013.10.14 @ 15:54:50

TEST COMMENT: 30 IF - Surface blow built to 8"
60 ISI - Surface blow started @ 3 mins built to 1"
60 FF - Surface blow built to BoB @ 45 mins
90 FSI - Surface blow died @ 50 mins

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.08	119.67	Initial Hydro-static
1	18.82	119.09	Open To Flow (1)
31	49.36	122.82	Shut-In(1)
90	1178.42	126.32	End Shut-In(1)
90	61.22	126.09	Open To Flow (2)
150	88.15	128.11	Shut-In(2)
247	1139.79	131.65	End Shut-In(2)
249	2110.08	132.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCO - 25%G - 25%M - 50%o	0.30
62.00	GMCO - 10%G - 10%M - 80%o	0.30
62.00	GMCO - 5%G - 10%M - 85%o	0.39
5.00	GO - 5%G - 95%o	0.07

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 Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55136

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.10.14 @ 09:09:00

Tool Information

Drill Pipe:	Length: 4044.00 ft	Diameter: 3.80 inches	Volume: 56.73 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 57.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4224.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4198.00	
Shut In Tool	5.00			4203.00	
Hydraulic tool	5.00			4208.00	
Jars	5.00			4213.00	
Safety Joint	2.00			4215.00	
Packer	5.00			4220.00	27.00 Bottom Of Top Packer
Packer	4.00			4224.00	
Stubb	1.00			4225.00	
Recorder	0.00	6752	Inside	4225.00	
Recorder	0.00	8322	Outside	4225.00	
Perforations	3.00			4228.00	
Change Over Sub	1.00			4229.00	
Drill Pipe	63.00			4292.00	
Change Over Sub	1.00			4293.00	
Bullnose	3.00			4296.00	72.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55136

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.10.14 @ 09:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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
62.00	GMCO - 25%G - 25%M - 50%o	0.305
62.00	GMCO - 10%G - 10%M - 80%o	0.305
62.00	GMCO - 5%G - 10%M - 85%o	0.387
5.00	GO - 5%G - 95%o	0.070

Total Length: 191.00 ft

Total Volume: 1.067 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 31 @ 66 DEG F

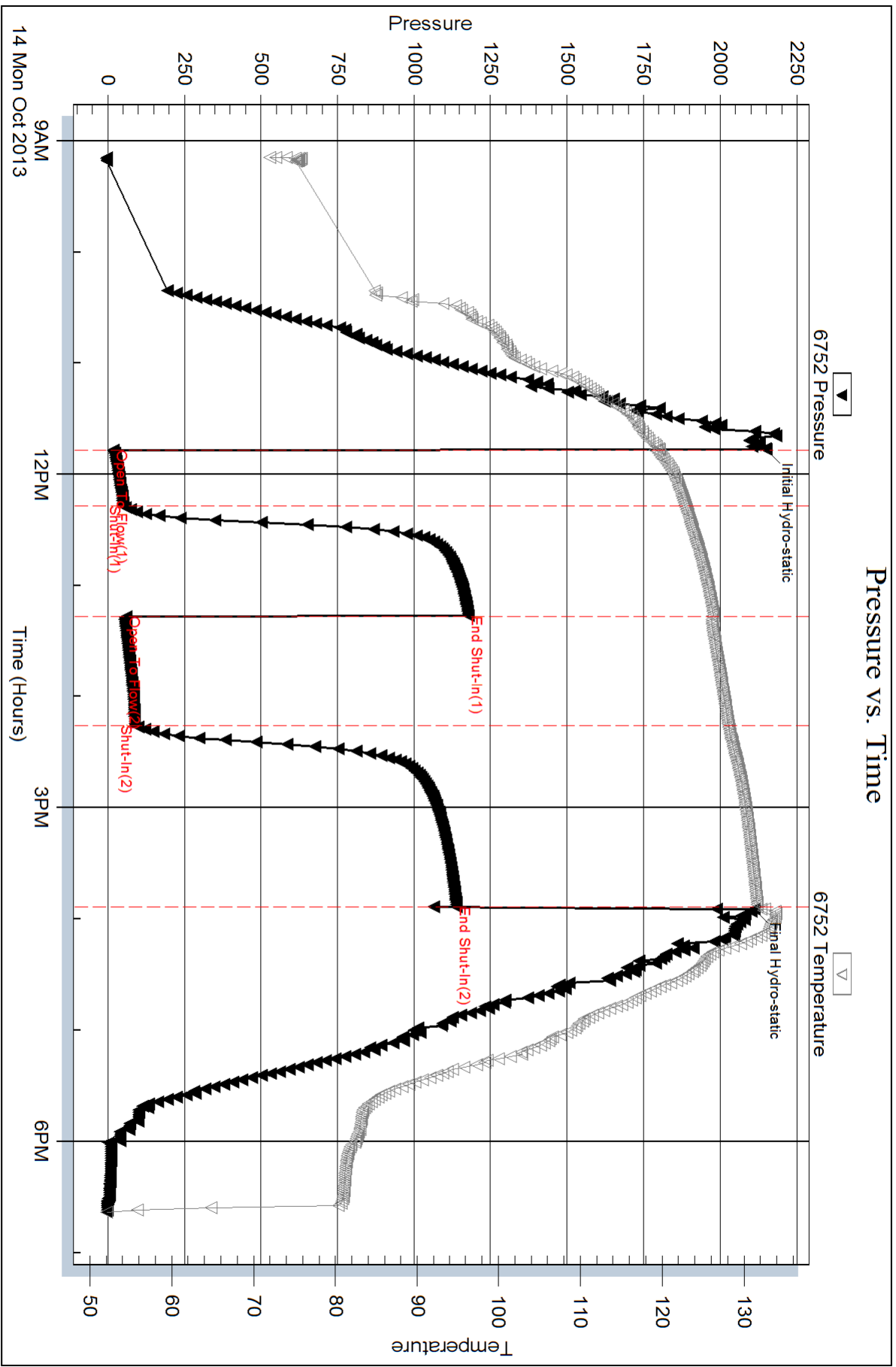
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Inside

Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 3

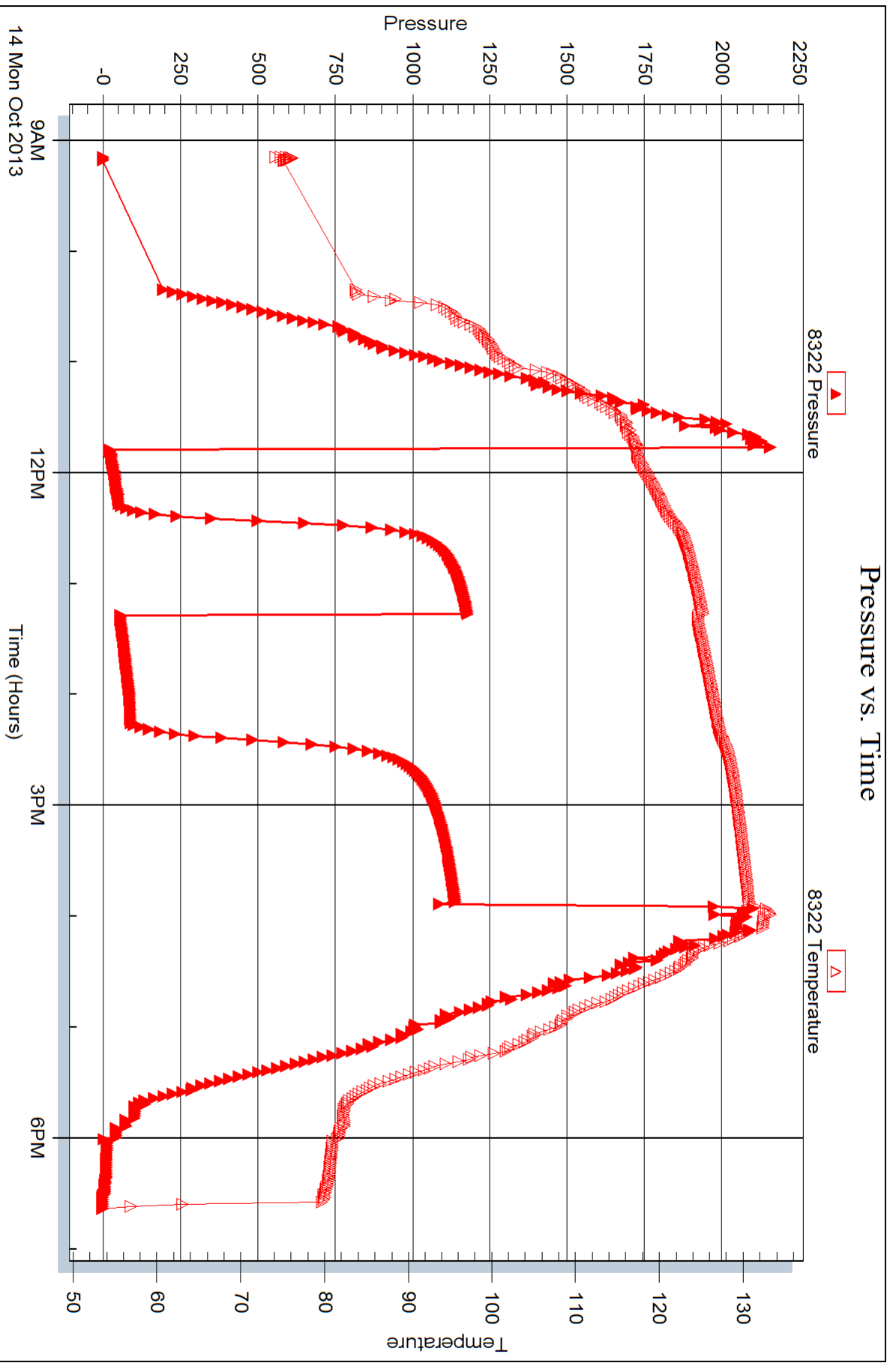


Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55136

Printed: 2013.10.17 @ 10:17:07



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Burk Trust C #2-22

22-1s-36w Rawlins KS

Start Date: 2013.10.15 @ 07:11:00

End Date: 2013.10.15 @ 17:08:30

Job Ticket #: 55137 DST #: 4

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

Printed: 2013.10.17 @ 10:16:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55137

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.10.15 @ 07:11:00

GENERAL INFORMATION:

Formation: **LKC " I - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:09:50

Time Test Ended: 17:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4306.00 ft (KB) To 4360.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4360.00 ft (KB) (TVD)

3175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ RunDepth: 83.00 psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.15

End Date:

2013.10.15

Last Calib.: 2013.10.15

Start Time: 07:11:01

End Time:

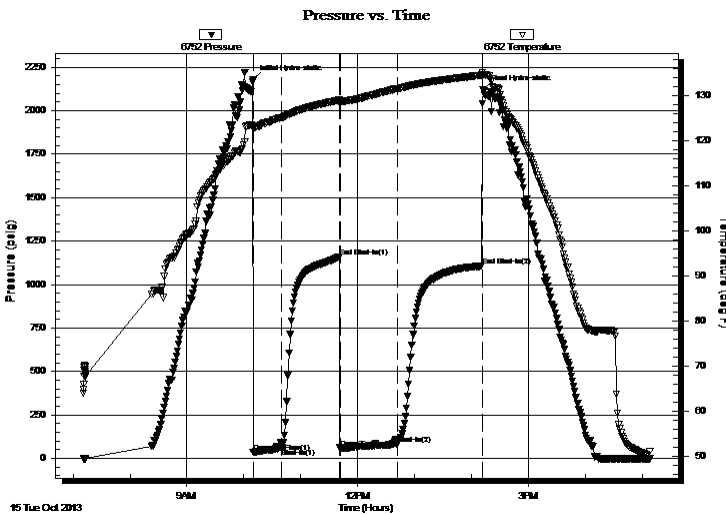
17:08:30

Time On Btm: 2013.10.15 @ 10:09:40

Time Off Btm: 2013.10.15 @ 14:12:09

TEST COMMENT: 30 IF - Surface blow built to 2 1/4"
60 ISI - No return
60 FF - Surface blow started @ 3 mins built to 1 1/2"
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.39	123.02	Initial Hydro-static
1	33.92	122.56	Open To Flow (1)
31	54.77	125.06	Shut-In(1)
92	1160.20	128.96	End Shut-In(1)
92	59.83	128.72	Open To Flow (2)
153	83.00	131.46	Shut-In(2)
242	1105.83	134.46	End Shut-In(2)
243	2120.35	134.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	OCM - 5%O - 95%M	0.61

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 Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55137

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.10.15 @ 07:11:00

Tool Information

Drill Pipe:	Length: 4108.00 ft	Diameter: 3.80 inches	Volume: 57.62 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 58.49 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	4306.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			4280.00	
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Jars	5.00			4295.00	
Safety Joint	2.00			4297.00	
Packer	5.00			4302.00	27.00 Bottom Of Top Packer
Packer	4.00			4306.00	
Stubb	1.00			4307.00	
Recorder	0.00	6752	Inside	4307.00	
Recorder	0.00	8322	Outside	4307.00	
Perforations	17.00			4324.00	
Change Over Sub	1.00			4325.00	
Drill Pipe	31.00			4356.00	
Change Over Sub	1.00			4357.00	
Bullnose	3.00			4360.00	54.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

22-1s-36w Rawlins KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #2-22

Job Ticket: 55137

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.10.15 @ 07:11:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	OCM - 5%o - 95%M	0.615

Total Length: 125.00 ft Total Volume: 0.615 bbl

Num Fluid Samples: 0

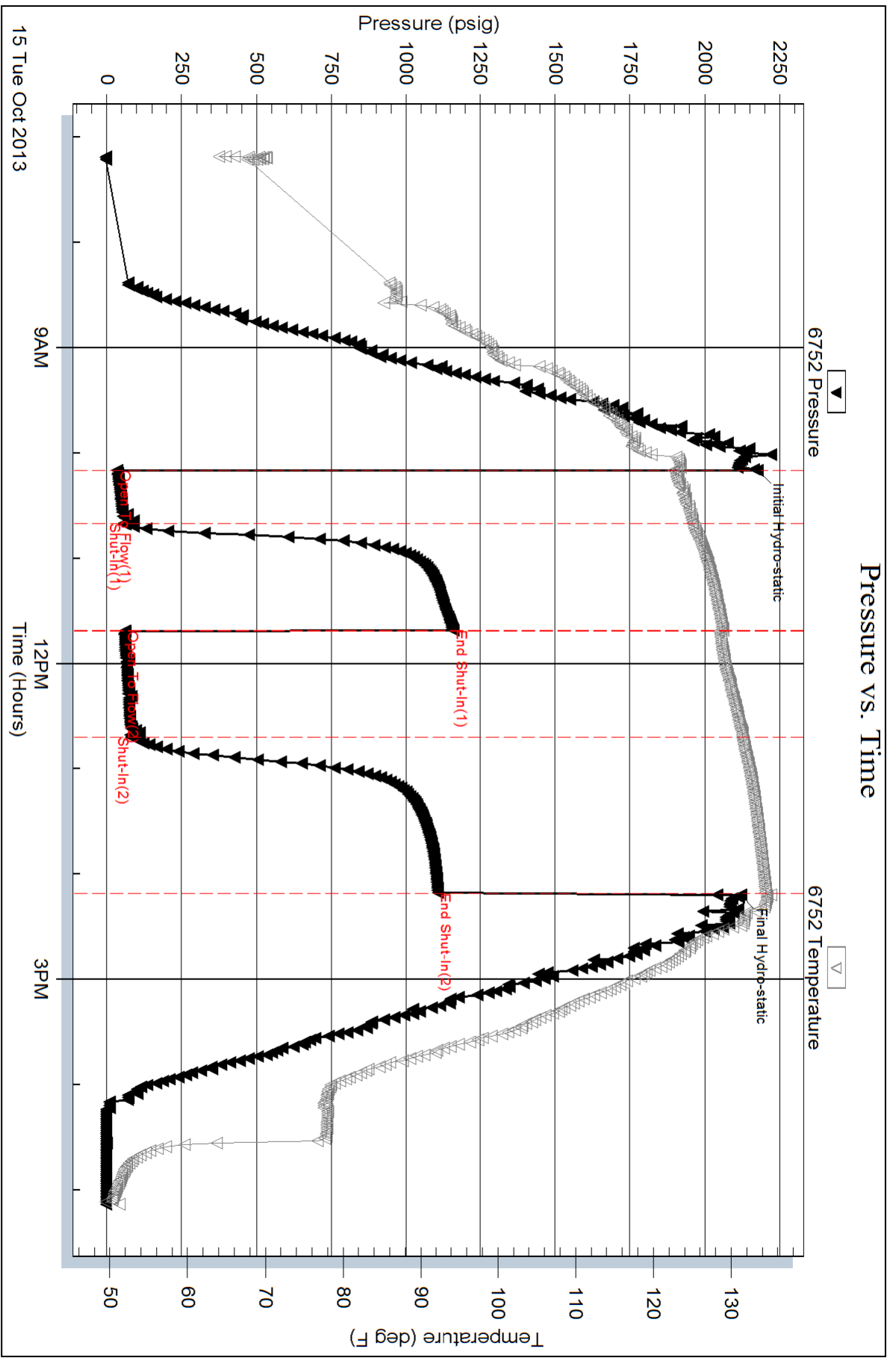
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

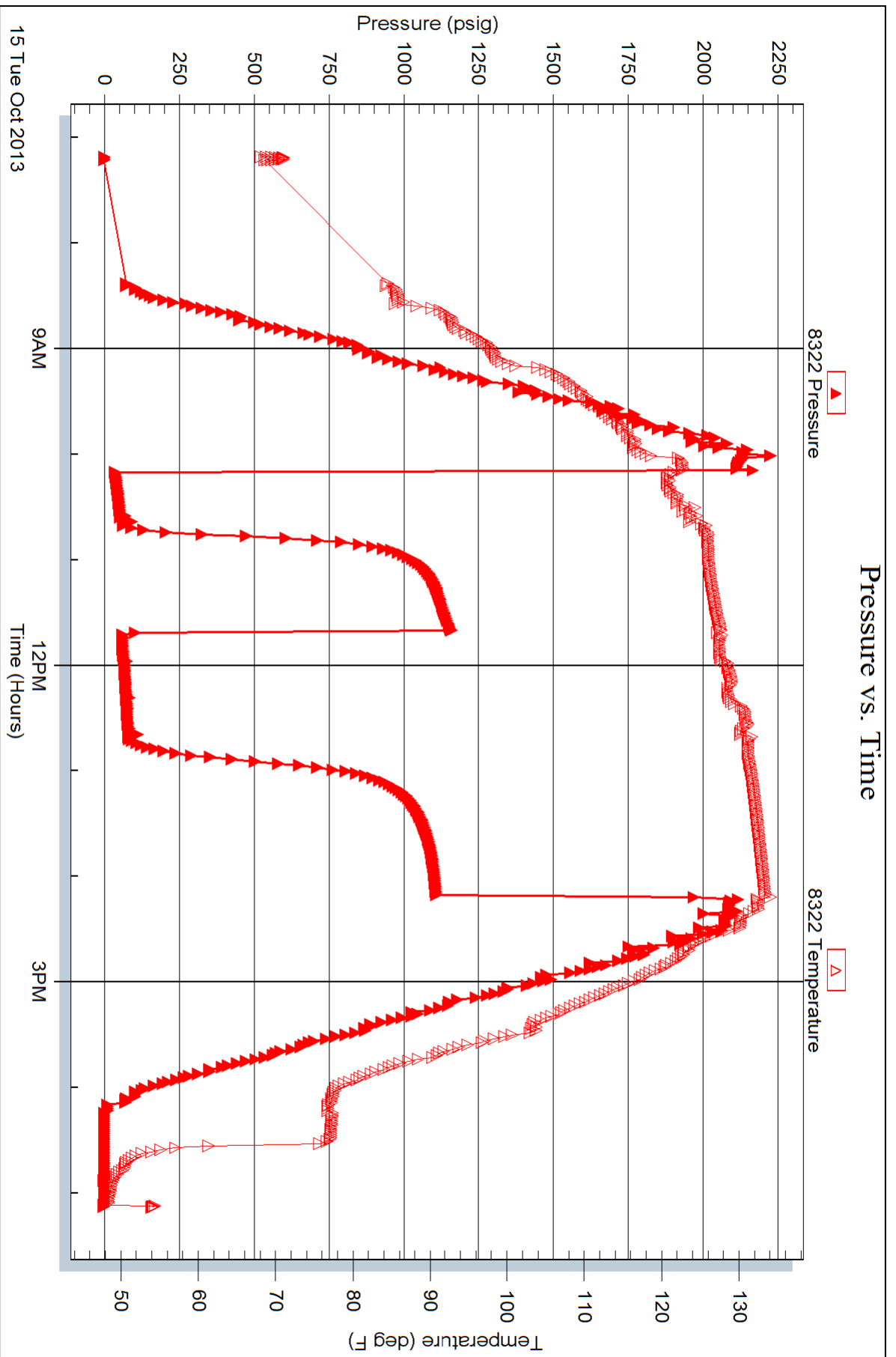


Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

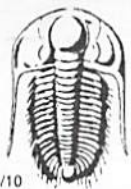
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55137

Printed: 2013.10.17 @ 10:16:39



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55134**

4/10

Well Name & No. Bark Trust "C" #2-22 Test No. 1 Date 10/11/13
 Company Murfin Drilling Company Inc. Elevation 3180 KB 3175 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 22 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4003 - 4041 Zone Tested Oread
 Anchor Length 38' Drill Pipe Run 3823 Mud Wt. 9.2
 Top Packer Depth 3998 Drill Collars Run 177' Vis 13
 Bottom Packer Depth 4003 Wt. Pipe Run 0' WL 7.0
 Total Depth 4041 Chlorides 600 ppm System LCM 8

Blow Description IF - Surface blow built to 9 1/2"
ISI - Surface blow started @ 17 mins ~~built~~
FF - Surface blow started @ 1 min built to Bob @ 33 mins
FSI - Surface blow started @ 5 mins built to 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>Oil</u>		<u>100</u>		
<u>126'</u>	<u>OCM</u>	<u>25</u>		<u>75</u>	
<u>63'</u>	<u>OWCM</u>	<u>5</u>	<u>45</u>	<u>50</u>	
<u>189'</u>	<u>OMCW</u>	<u>2</u>	<u>5</u>	<u>93</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 393' BHT 136° Gravity 21 API RW .153 @ 73° F Chlorides 52,500 ppm

(A) Initial Hydrostatic 1971 Test 1250 T-On Location 00:01
 (B) First Initial Flow 16 Jars 250 T-Started 01:57
 (C) First Final Flow 112 Safety Joint 75 T-Open 05:13
 (D) Initial Shut-In 1090 Circ Sub NC T-Pulled 09:13
 (E) Second Initial Flow 117 Hourly Standby X2 200 T-Out 12:12
 (F) Second Final Flow 184 Mileage 110 RT 170.50
 (G) Final Shut-In 1086 Sampler
 (H) Final Hydrostatic 1950 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1945.50
 Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1945.50

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55135**

Well Name & No. Burk Trust C #2-22 Test No. 2 Date 10/13/18
 Company Murfin Drilling Company Inc. Elevation 3180 KB 3175 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4147-4208 Zone Tested LKC "D"
 Anchor Length 61' Drill Pipe Run 3950 Mud Wt. 9.0
 Top Packer Depth 4142 Drill Collars Run 177' Vis 47
 Bottom Packer Depth 4147 Wt. Pipe Run 0' WL 6.8
 Total Depth 4208 Chlorides 800 ppm System LCM 8
 Blow Description IF - Surface blow built to 2 1/2"
ISI - No return
FF - Surface blow built to
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
5	Mud			100	
62	WCM		2	98	
62	MCW		80	20	

Rec Total 129' BHT 134° Gravity — API RW .240 @ 67° F Chlorides 31,000 ppm

(A) Initial Hydrostatic <u>2064</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>08:00</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>09:02</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>11:57</u>
(D) Initial Shut-In <u>1173</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>15 @ 1:57</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:16</u>
(F) Second Final Flow <u>88</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT</u> 170.50	Comments _____
(G) Final Shut-In <u>1109</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1964</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1745.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1745.50</u>	

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55136

Well Name & No. Burk Trust c #2-22 Test No. 3 Date 10/14/13
 Company Murfin Drilling Company Inc. Elevation 3180 KB 3175 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin # 8
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4224 - 4296 Zone Tested LKC "G"
 Anchor Length 72' Drill Pipe Run 4044' Mud Wt. 9.2
 Top Packer Depth 4219 Drill Collars Run 177' Vis 53
 Bottom Packer Depth 4224 Wt. Pipe Run 0' WL 8.0
 Total Depth 4296 Chlorides 700 ppm System LCM 8

Blow Description IF - Surface blow built to 8"
ISI - Surface blow started @ 3 mins built to 1"
FF - Surface blow built to BoB @ 45 mins
FSI - Surface blow ~~started~~ died @ 50 mins

Rec	Feet of	%gas	%oil	%water	%mud
5'	60	5	95		
62	GMCO	5	85		10
62	GMCO	25	50		25
62	GMCO	10	80		10

Rec Total 191' BHT 1320 Gravity 30.4 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2149 Test 1250 T-On Location 08:30
 (B) First Initial Flow 19 Jars 250 T-Started 09:09
 (C) First Final Flow 49 Safety Joint 75 T-Open 11:48
 (D) Initial Shut-In 1178 Circ Sub NC T-Pulled 15:48
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 18:39
 (F) Second Final Flow 88 Mileage 110 RT 170.50
 (G) Final Shut-In 1140 Sampler _____
 (H) Final Hydrostatic 2111 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1745.50
 MP/DST Disc't _____

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

Sub Total 1745.50
 Our Representative [Signature]

Approved By _____
 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. **55137**

Well Name & No. Burk Trust C #2-22 Test No. 4 Date 10/15/13
 Company Martin Drilling Company Inc. Elevation 3180 KB 3175 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Martin #8
 Location: Sec. 22 Twp. 15 Rge. 36 W Co. Rawlins State KS

Interval Tested 4306 - 4360 Zone Tested LKC "I-J"
 Anchor Length 54' Drill Pipe Run 4108' Mud Wt. 9.3
 Top Packer Depth 4301 Drill Collars Run 177' Vis 61
 Bottom Packer Depth 4306 Wt. Pipe Run 0' WL 8.0
 Total Depth 4360 Chlorides 800 ppm System LCM 8
 Blow Description IF - Surface blow built to 2 1/4"
ISI - No return
FF - Surface blow started @ 3 mins built to 1 1/2"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>125'</u>	<u>OCM</u>	<u>5</u>		<u>95</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 125' BHT 135° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2176</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>06:30</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:11</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:10</u>
(D) Initial Shut-In <u>1160</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>14:10</u>
(E) Second Initial Flow <u>60</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:08</u>
(F) Second Final Flow <u>88</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT</u> 170.50	Comments
(G) Final Shut-In <u>1106</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2120</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1745.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1745.50</u>	

Approved By _____ Our Representative [Signature]

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

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

*Acct
Prod - LH*

INVOICE

Invoice Number: 1391 32
Invoice Date: Oct 7, 2013
Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61144	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 7, 2013	11/6/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust C #2-22		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
7.75	CEMENT MATERIALS	Chloride	64.00	496.00
231.00	CEMENT SERVICE	Cubic Feet	2.48	572.88
798.75	CEMENT SERVICE	Ton Mileage	2.60	2,076.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	David Scariano		

PK 110

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

\$ 3,422.43

ONLY IF PAID ON OR BEFORE
Nov 1, 2013

Subtotal	9,778.38
Sales Tax	350.29
Total Invoice Amount	10,128.67
Payment/Credit Applied	
TOTAL	10,128.67

- 3422.43

ALLIED OIL & GAS SERVICES, LLC 061144

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley KS

DATE <u>10/7/13</u>	SEC <u>22</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>6:00 p.m.</u>	JOB START <u>7:00 p.m.</u>	JOB FINISH <u>7:30 p.m.</u>
LEASE <u>Burt Trust</u>	WELL # <u>2-22</u>	LOCATION <u>McDonald N to Rd W E</u>			COUNTY <u>Rawlins</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>Follow curves to Rds. 52 NW N into</u>			

CONTRACTOR Murfin B OWNER Same

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 218' CEMENT AMOUNT ORDERED 220 sks Com
 CASING SIZE 8 5/8 DEPTH 223' 3% C.C.

TUBING SIZE	DEPTH	COMMON	<u>220</u>	@	<u>17.90</u>	<u>3938.00</u>
DRILL PIPE	DEPTH	POZMIX		@		
TOOL	DEPTH	GEL		@		
PRES. MAX	MINIMUM	CHLORIDE	<u>7.75 sks</u>	@	<u>64.00</u>	<u>496.00</u>
MEAS. LINE	SHOE JOINT	ASC		@		
CEMENT LEFT IN CSG. <u>15'</u>				@		
PERFS.				@		
DISPLACEMENT <u>13.25 bbl</u>				@		

EQUIPMENT

PUMP TRUCK CEMENTER <u>Paul Beaver</u>						
# <u>120</u> HELPER <u>Tyler Flipse</u>						
BULK TRUCK						
# <u>386</u> DRIVER <u>David Scario</u>						
BULK TRUCK						
#	DRIVER					

REMARKS: mix 220 sks Com 3% CC
Displace with water
Cement did circulate

CHARGE TO: Murfin Drilling Co.

STREET _____

CITY _____ STATE _____ ZIP _____

SALES TAX (If Any) _____

TOTAL CHARGES 9,778.38

DISCOUNT 3,422.43 IF PAID IN 30 DAYS

6,355.94 Net.

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 Rodney T. All

SIGNATURE Rodney T. All



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



11013 —
cc: W F
cc: L i z
cc: L-1

Invoice

DATE	INVOICE #
10/16/2013	25217

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-22	Burk Trust C	Rawlins	Murfin Drilling	Oil	Development	5-1/2" LongString	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
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	285.00	855.00T
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				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.00	2,800.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	17.00	5,100.00T
276	Flocele				125	Lb(s)	2.00	250.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,814	Ton Miles	1.00	3,814.00
	Subtotal							20,869.00
	Sales Tax Rawlins County						7.90%	1,078.75
<p>USED FOR <u>IC 103</u></p> <p>APPROVED <u>JLR</u></p>								
We Appreciate Your Business!							Total	\$21,947.75



Services, Inc.

CHARGE TO: Murkin Drig.

TICKET 25217

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS	Hays, ks	WELL/PROJECT NO.	2-22	LEASE	Burk Trust 2"	COUNTY/PARISH	Rawlins	STATE	KS	CITY		DATE	10-16-13	OWNER	
2.	Ness City, ks	TICKET TYPE	SALES	CONTRACTOR	Murkin	RIG NAME/NO.	8	SHIPPED VIA	CT	DELIVERED TO	Locatvin	ORDER NO.			
3.		WELL TYPE	Oil	WELL CATEGORY	Development	JOB PURPOSE	5 1/2 Longstring	WELL PERMIT NO.		WELL LOCATION	See 22 Twp 15, R 36 W				
4.		INVOICE INSTRUCTIONS													

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE ^A 112	150	mi			6.00	900.00
578		1			Pump Charge Long String	1	ea			1500.00	1500.00
221		1			Loguid Kel	4	gal			25.00	100.00
281		1			Mud Flush	500	gal			1.25	625.00
290		1			D-Air	5	gal			42.00	210.00
403		1			Cement Basket	3	ea			285.00	855.00
406		1			Latch Down Plug + Baffle	1	ea			275.00	275.00
467		1			Insert Plug Shoe w/ Auto Fill	1	ea			375.00	375.00
409		1			Turbolizer	15	ea			90.00	1350.00
413		1			Auto wall Scratchers	10	ea			40.00	400.00
419		1			Rotating Head Rental	1	ea			200.00	200.00

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

X *[Signature]*

DATE SIGNED: 10-16-13

TIME SIGNED: 2:30

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?

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? YES NO

CUSTOMER DID NOT WISH TO RESPOND

Page 1 of 2	Subtotal	20,869.00
Page 2 of 2	Tax	1,078.75
TOTAL		21,947.75

SWIFT OPERATOR: *[Signature]*

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

APPROVAL: *[Signature]*

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 20-10-13 PAGE NO.

CUSTOMER *Murphy only* WELL NO. *2-22* LEASE *Buck Trust 1 1/2"* JOB TYPE *5 1/2 Long String* TICKET NO. *25217*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							On location
								TO 4570 SS 21
								TP 4508 Insert 4487
								centralizers 1,2,3,4,5,6,7,8,9,10,11,12,13,34,44
								Baskets 10, 35, 45
	0230							Start Pipe
	0130							Break Circulation Come back Drop Ball Circulate
	0230							Finish Running Pipe Ball Down
	0345							Drop Ball circulate Rotate
	0445	6	12		✓		300	Start mudflush
		6	20		✓		300	Start KCL
		5	138		✓		200	Start SMD 250 sks SMD
		5	48		✓		200	Start EA-2 200 sks EA-2
	0553							Wash out Pump + Lines
	0555	6.5	20		✓		400	Start P.3 placement w/20bbl KCL
								finish with H ₂ O
	0615	6.5	106.8		✓		1200/1600	Land Plug
								Release Dry
	0630		7/5					Plug BH 30 sks, MH 20 sks
								Circulate 10 sks to pit
	0730							Wash up Back up
								Job Complete
								Thank You
								Josh, Brian, Doug, Isaac