



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #3-22

22 1s 36w Rawlins KS

Start Date: 2013.10.23 @ 16:35:00

End Date: 2013.10.24 @ 00:40:00

Job Ticket #: 53585 DST #: 1

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

Printed: 2013.10.29 @ 08:31:37

Murfin Drilling Co. 22 1s 36w Rawlins KS Burk Trust C #3-22 DST # 1 LKC-D 2013.10.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53585

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.10.23 @ 16:35:00

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:58:30

Time Test Ended: 00:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4230.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 3240.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

3235.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 159.98 psig @ 4231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.23

End Date:

2013.10.24

Last Calib.:

2013.10.24

Start Time: 16:35:01

End Time:

00:40:00

Time On Btm:

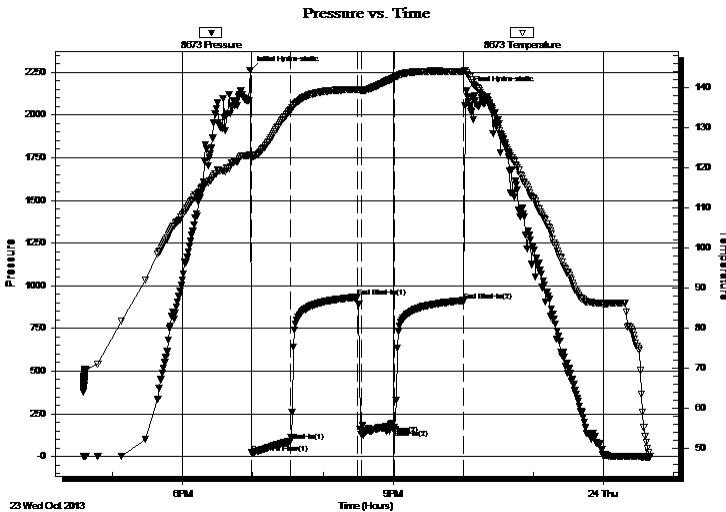
2013.10.23 @ 18:57:30

Time Off Btm:

2013.10.23 @ 22:02:30

TEST COMMENT: IF: Weak surface blow over 30 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.49	123.07	Initial Hydro-static
1	21.41	122.42	Open To Flow (1)
35	89.58	134.32	Shut-In(1)
92	933.07	139.49	End Shut-In(1)
95	129.85	139.20	Open To Flow (2)
124	159.98	142.45	Shut-In(2)
183	913.58	143.87	End Shut-In(2)
185	2140.24	143.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocw m-10%o40%m50%w	0.30
62.00	ocmw -10%o30%m50%w	0.30
62.00	ocw -20%o80%w	0.30
62.00	ocw -45%o55%w	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53585

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.10.23 @ 16:35:00

Tool Information

Drill Pipe:	Length: 4041.00 ft	Diameter: 3.80 inches	Volume: 56.68 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 57.59 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4230.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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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Shut In Tool	5.00			4207.00	
Hydraulic tool	5.00			4212.00	
Jars	5.00			4217.00	
Safety Joint	3.00			4220.00	
Packer	5.00			4225.00	28.00 Bottom Of Top Packer
Packer	5.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	8673	Inside	4231.00	
Recorder	0.00	8651	Outside	4231.00	
Perforations	6.00			4237.00	
Bullnose	3.00			4240.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53585

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.10.23 @ 16:35:00

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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	ocw m-10%o40%m50%w	0.305
62.00	ocmw -10%o30%m50%w	0.305
62.00	ocw -20%o80%w	0.305
62.00	ocw -45%o55%w	0.870

Total Length: 248.00 ft

Total Volume: 1.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

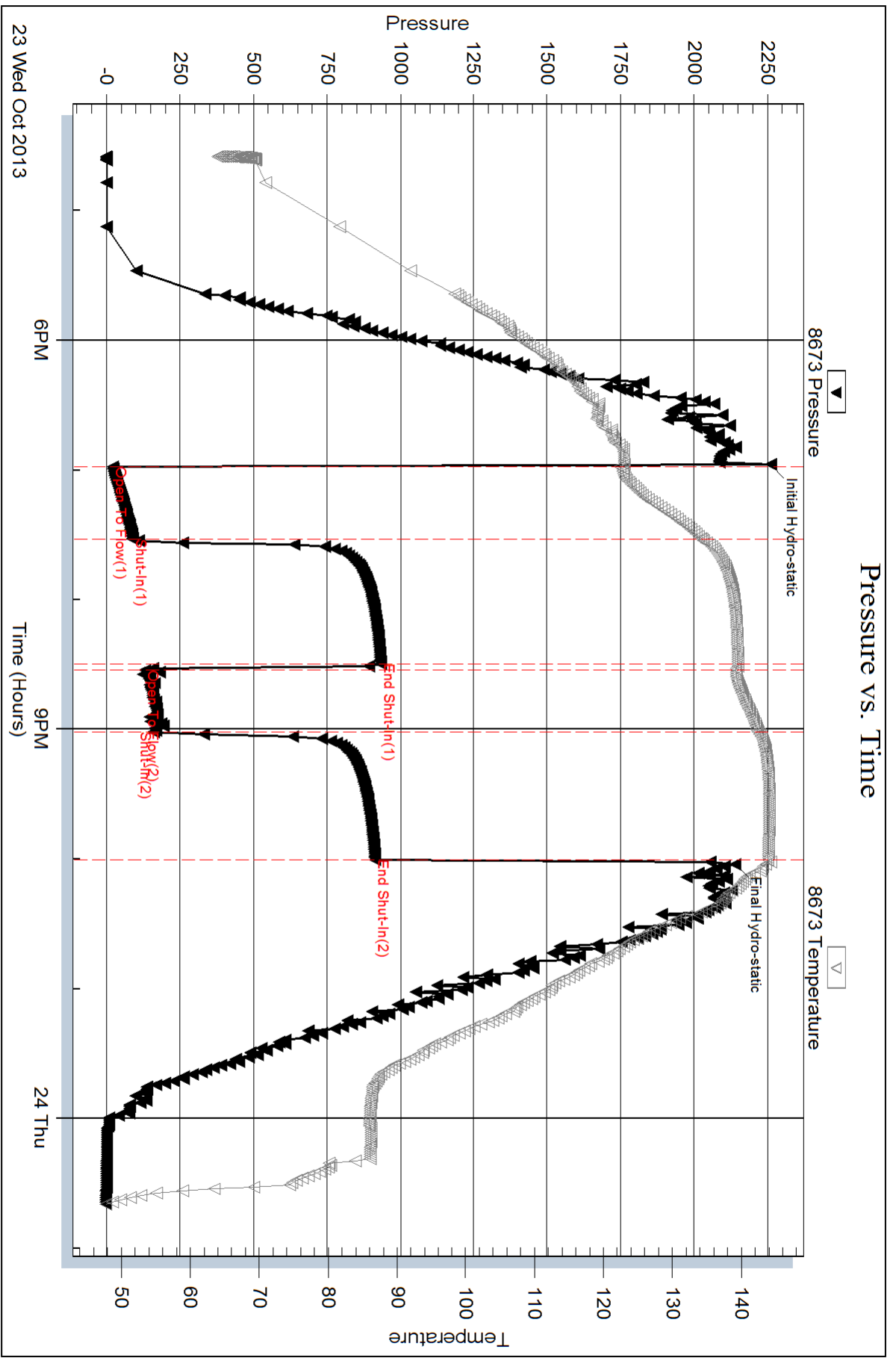
Serial #: 8673

Inside

Murfin Drilling Co.

Burk Trust C#3-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53585

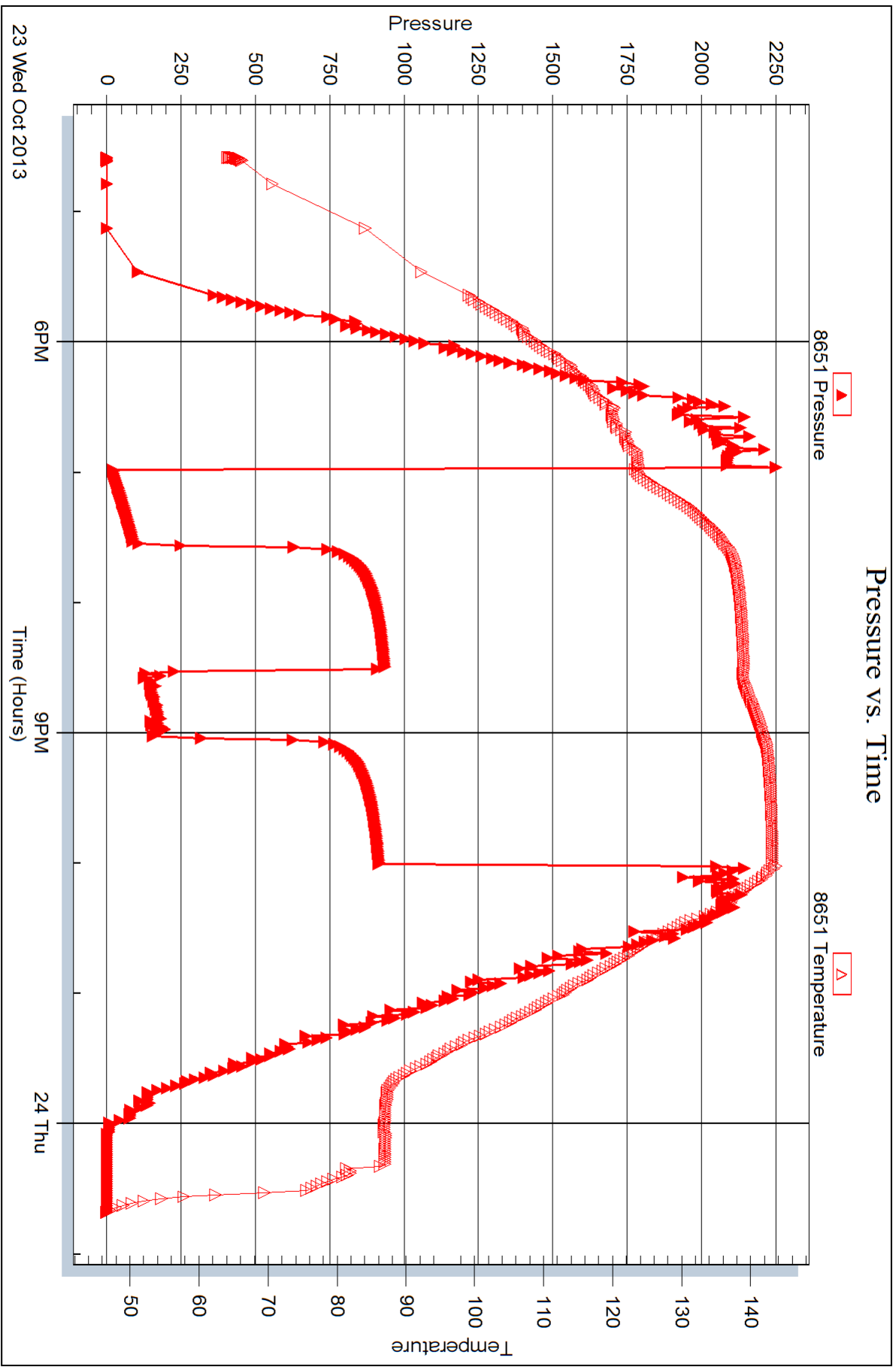
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Serial #: 8651

Outside Murfin Drilling Co.

Burk Trust C#3-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53585

Printed: 2013.10.29 @ 08:31:39



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #3-22

22 1s 36w Rawlins KS

Start Date: 2013.10.24 @ 13:05:00

End Date: 2013.10.24 @ 21:31:00

Job Ticket #: 53586 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.29 @ 08:31:06

Murfin Drilling Co. 22 1s 36w Rawlins KS Burk Trust C #3-22 DST # 2 LKC-G 2013.10.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

ATTN: Clayton Erickson

Job Ticket: 53586

DST#: 2

Test Start: 2013.10.24 @ 13:05:00

GENERAL INFORMATION:

Formation: **LKC-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:10:00

Time Test Ended: 21:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4256.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 3240.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

3235.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 43.85 psig @ 4257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.24

End Date:

2013.10.24

Last Calib.:

2013.10.24

Start Time: 13:05:01

End Time:

21:31:00

Time On Btm:

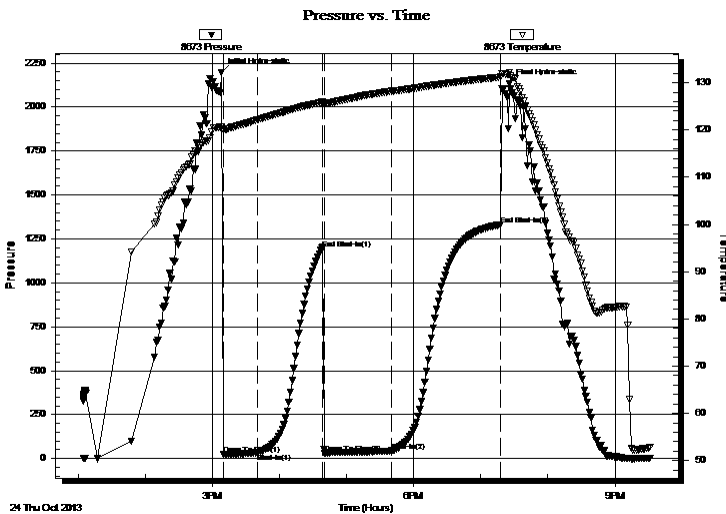
2013.10.24 @ 15:08:30

Time Off Btm:

2013.10.24 @ 19:25:30

TEST COMMENT: IF: Weak surface blow over 30 mins.
IS: No blow back over 60 mins
FF: Weak blow built to 3 in. over 60 mins.
FS: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.72	120.62	Initial Hydro-static
2	22.39	120.11	Open To Flow (1)
32	32.00	122.16	Shut-In(1)
90	1195.78	125.85	End Shut-In(1)
92	29.61	125.63	Open To Flow (2)
152	43.85	128.21	Shut-In(2)
249	1330.60	131.20	End Shut-In(2)
257	2133.17	132.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	ocm-40% m60%o	0.22

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.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53586

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.10.24 @ 13:05:00

Tool Information

Drill Pipe:	Length: 4073.00 ft	Diameter: 3.80 inches	Volume: 57.13 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 58.04 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4256.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	97.00 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			4233.00	
Hydraulic tool	5.00			4238.00	
Jars	5.00			4243.00	
Safety Joint	3.00			4246.00	
Packer	5.00			4251.00	28.00 Bottom Of Top Packer
Packer	5.00			4256.00	
Stubb	1.00			4257.00	
Recorder	0.00	8673	Inside	4257.00	
Recorder	0.00	8651	Outside	4257.00	
Perforations	2.00			4259.00	
change Over Sub	1.00			4260.00	
Drill Pipe	31.00			4291.00	
Change Over Sub	1.00			4292.00	
Perforations	30.00			4322.00	
Bullnose	3.00			4325.00	69.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53586

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.10.24 @ 13:05:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	ocm-40% m60%o	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

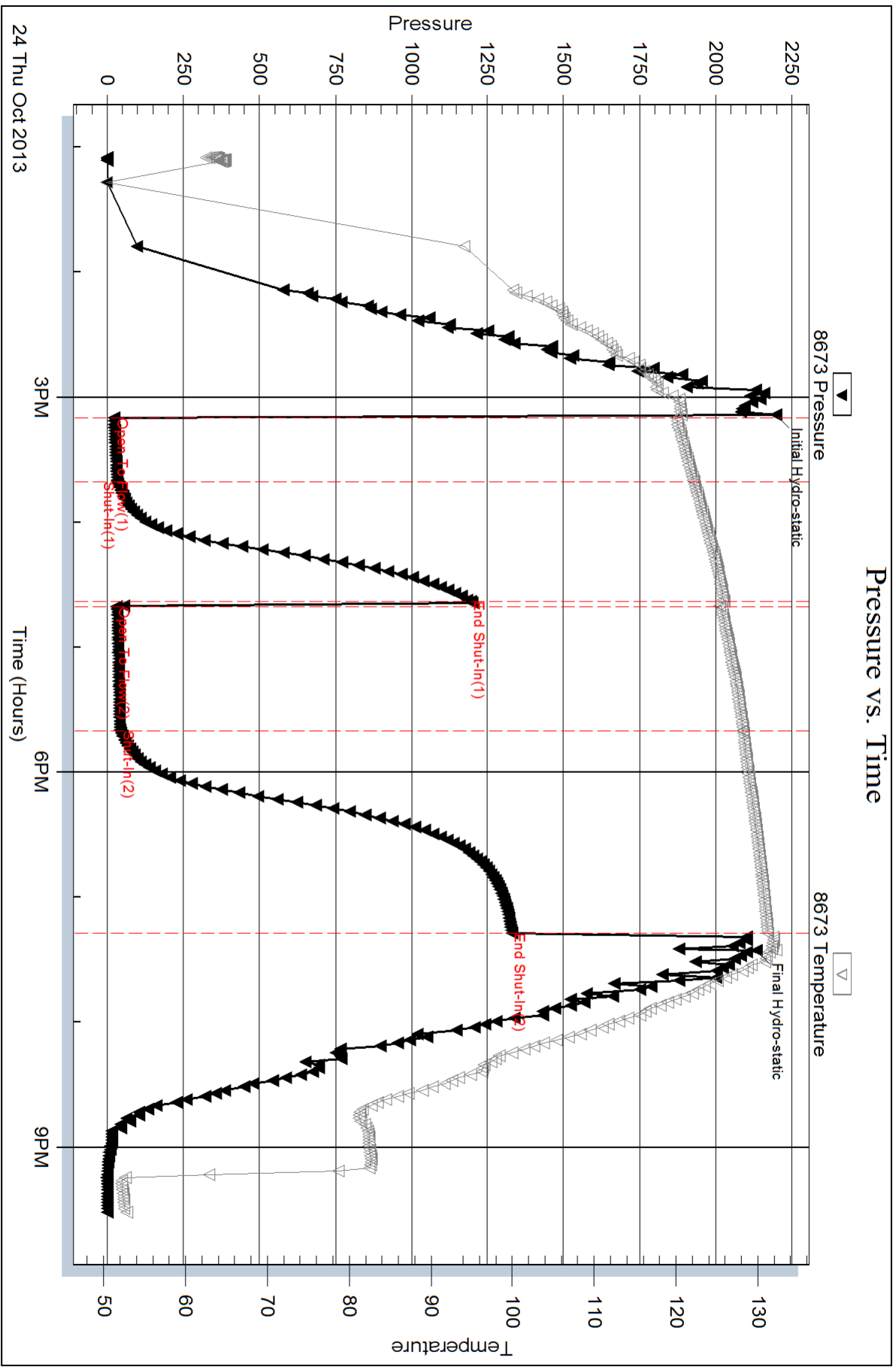
Serial #: 8673

Inside

Murfin Drilling Co.

Burk Trust C#3-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53586

Printed: 2013.10.29 @ 08:31:08



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste.300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #3-22

22 1s 36w Rawlins KS

Start Date: 2013.10.25 @ 10:40:00

End Date: 2013.10.25 @ 19:45:30

Job Ticket #: 53587 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.29 @ 08:30:24

Murfin Drilling Co. 22 1s 36w Rawlins KS Burk Trust C #3-22 DST # 3 LKC-J 2013.10.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53587

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.10.25 @ 10:40:00

GENERAL INFORMATION:

Formation: **LKC-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:21:30
 Time Test Ended: 19:45:30
 Interval: **4340.00 ft (KB) To 4395.00 ft (KB) (TVD)**
 Total Depth: 4395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreutzer Jr.
 Unit No: 61
 Reference Elevations: 3240.00 ft (KB)
 3235.00 ft (CF)
 KB to GR/CF: 5.00 ft

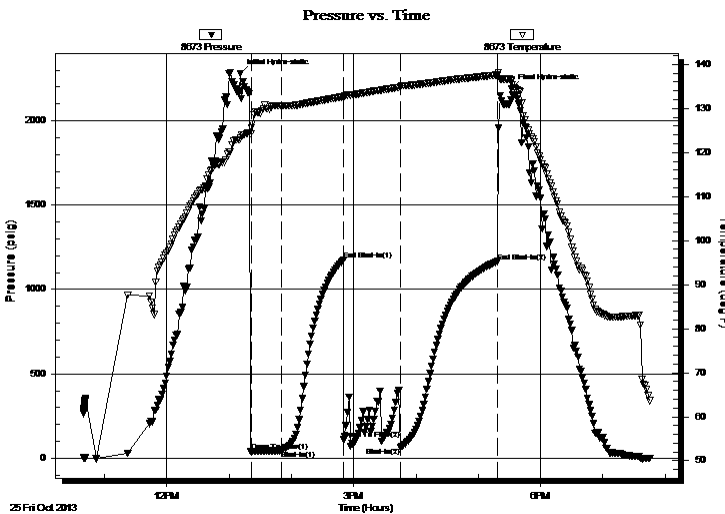
Serial #: 8673

Inside

Press @ Run Depth: 61.85 psig @ 4341.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.25 End Date: 2013.10.25 Last Calib.: 2013.10.25
 Start Time: 10:40:01 End Time: 19:45:30 Time On Btm: 2013.10.25 @ 13:11:00
 Time Off Btm: 2013.10.25 @ 17:32:00

TEST COMMENT: IF: Weak blow, Built to 1 in. over 30 mins.
 IS: No blow back
 FF: Weak blow off and on over 60 mins.
 FS: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.92	123.27	Initial Hydro-static
11	39.46	125.60	Open To Flow (1)
40	46.77	130.55	Shut-In(1)
99	1173.93	132.65	End Shut-In(1)
100	109.35	132.57	Open To Flow (2)
154	61.85	134.99	Shut-In(2)
248	1165.92	137.58	End Shut-In(2)
261	2191.61	136.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm-35%o65%m	0.15

* 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.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53587

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.10.25 @ 10:40:00

Tool Information

Drill Pipe:	Length: 4142.00 ft	Diameter: 3.80 inches	Volume: 58.10 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.01 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4340.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4317.00	
Hydraulic tool	5.00			4322.00	
Jars	5.00			4327.00	
Safety Joint	3.00			4330.00	
Packer	5.00			4335.00	28.00 Bottom Of Top Packer
Packer	5.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	8673	Inside	4341.00	
Recorder	0.00	8651	Outside	4341.00	
Perforations	2.00			4343.00	
change Over Sub	1.00			4344.00	
Drill Pipe	32.00			4376.00	
Change Over Sub	1.00			4377.00	
Perforations	15.00			4392.00	
Bullnose	3.00			4395.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22 1s 36w Rawlins KS

250 N. Water Ste.300
Wichita KS 67202

Burk Trust C #3-22

Job Ticket: 53587

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.10.25 @ 10:40:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm-35%o65%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

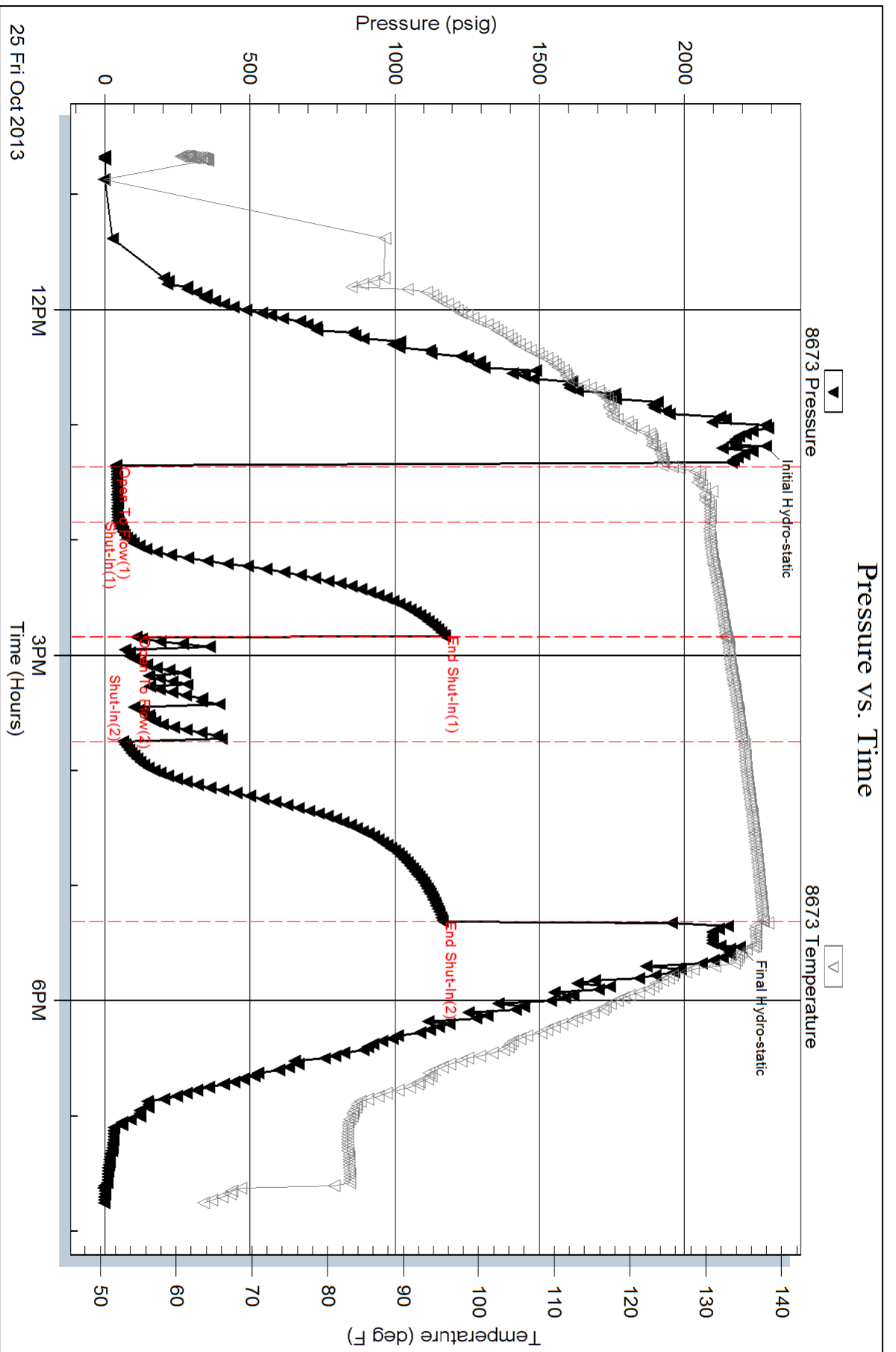
Serial #: 8673

Inside

Murfin Drilling Co.

Burk Trust C#3-22

DST Test Number: 3

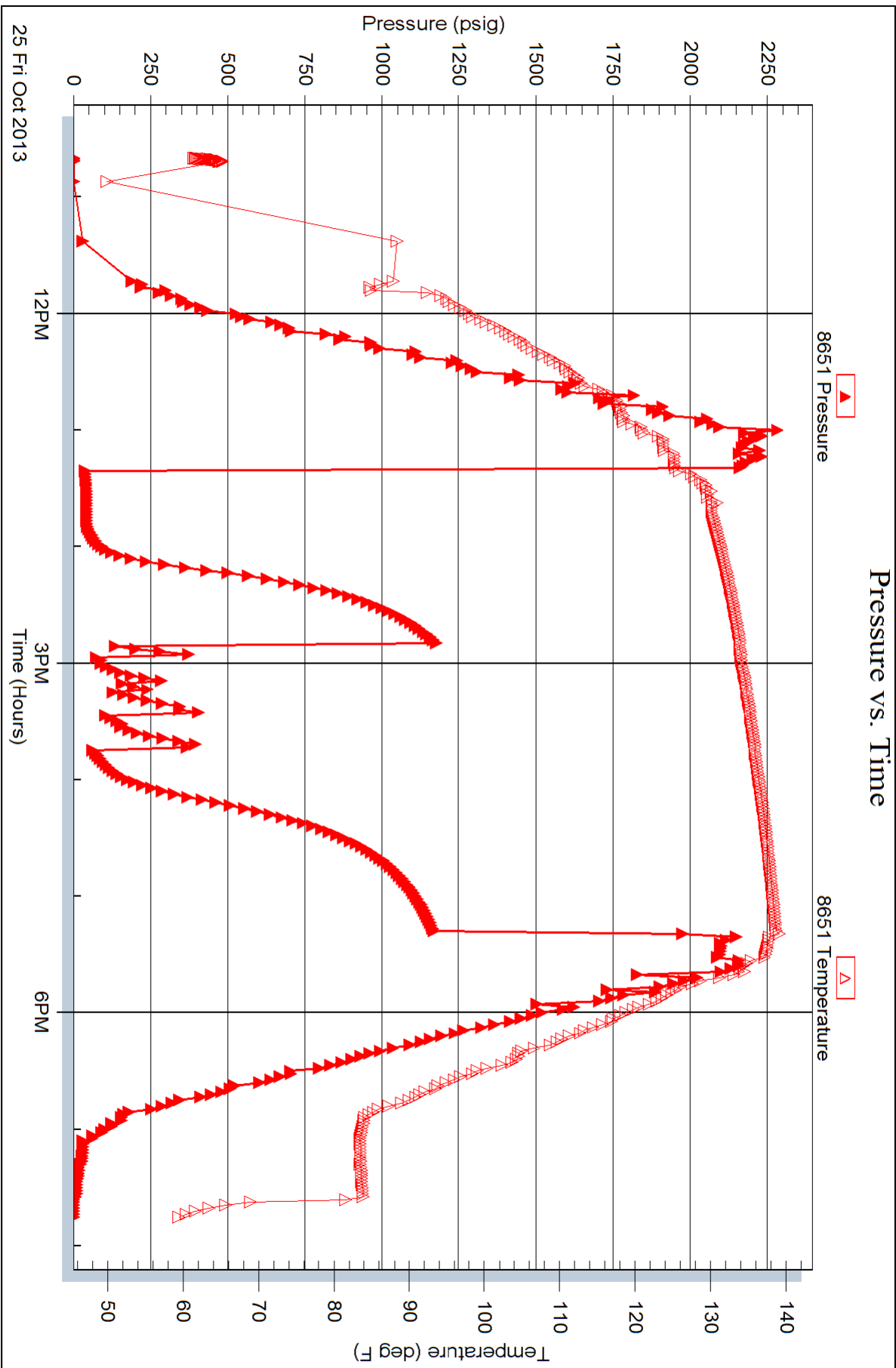


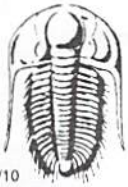
Serial #: 8651

Outside Murfin Drilling Co.

Burk Trust C#3-22

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53585

Well Name & No. AD Burk Trust 'C' #3-22 Test No. 1 Date 10-23-2013
 Company Murfin Drilling Co. Elevation 3240 KB 3235 GL
 Address 250 N. Water St. 300 Wichita KS.
 Co. Rep / Geo. Clayton Erickson Rig LKC-0
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4230 4240 Zone Tested LKC-0
 Anchor Length 10 Drill Pipe Run 4041 Mud Wt. 9.4
 Top Packer Depth 4225 Drill Collars Run 186 Vis 76
 Bottom Packer Depth 4230 Wt. Pipe Run -0- WL 6.0
 Total Depth 4240 Chlorides 300 ppm System LCM #4

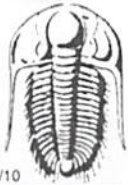
Blow Description IFI Weak surface blow over 30 mins
ISI: No blow back
FF: No blow
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
62	OCW	45		55	
62	OCW	20		80	4
62	OCMW	10		60	30
62	OCWM	10		50	40

Rec Total 248 BHT 142.4 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm
 (A) Initial Hydrostatic 2260 Test 1250 T-On Location 14:15
 (B) First Initial Flow 21 Jars 250 T-Started 16:35
 (C) First Final Flow 90 Safety Joint 75 T-Open 19:58
 (D) Initial Shut-In 933 Circ Sub _____ T-Pulled 10:00
 (E) Second Initial Flow 130 Hourly Standby _____ T-Out 06:40
 (F) Second Final Flow 160 Mileage 54 x 2 = 108 x 1.55 = 167.40 Comments _____
 (G) Final Shut-In 914 _____
 (H) Final Hydrostatic 2140 _____

Ruined Shale Packer _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1742.40
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1742.40
 MP/DST Disc't _____

Approved By _____ Our Representative Chuck Kuyper
 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. 53586

Well Name & No. Burk Trust '0' #3-22 Test No. 2 Date 10-24-2013
 Company Murfin Drilling Co. Elevation 3240 KB 3235 GL
 Address 250 N. water ste. 300 wichita ks.
 Co. Rep / Geo. Clayton Erickson Rig LKC-D
 Location: Sec. 22 Twp. 15 Rge. 36w Co. Rawlins State Ks

Interval Tested 4256 4325 Zone Tested LKC-G
 Anchor Length 69 Drill Pipe Run 4073 Mud Wt. 9.3
 Top Packer Depth 4251 Drill Collars Run 186 Vis 5.7
 Bottom Packer Depth 4256 Wt. Pipe Run -0- WL 5.8
 Total Depth 4325 Chlorides 300 ppm System LCM 4#

Blow Description IF: Weak surface Blow over 30mins.

ESI: No blow ball

FF: Weak blow built to 3in. over 60mins

FSF: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>OCM</u>		<u>60%</u>		<u>40%</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 45 BHT 124 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

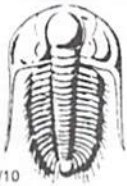
(A) Initial Hydrostatic 2198 Test 1250 T-On Location 13:13
 (B) First Initial Flow 22 Jars 250 T-Started 14:05
32 Safety Joint 75 T-Open 15:10
 (C) First Final Flow 1196 Circ Sub _____ T-Pulled 20:15
 (D) Initial Shut-In 30 Hourly Standby _____ T-Out 21:31
 (E) Second Initial Flow 44 Mileage 54x2 = 108x1.56 167.40
 (F) Second Final Flow 1331 Sampler _____
 (G) Final Shut-In 2133 Straddle _____
 (H) Final Hydrostatic 30 Shale Packer _____
60 Shale Packer _____
60 Extra Packer _____
40 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1742.40

MP/DST Disc't _____

Approved By _____ Our Representative Chad [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. 53587

Well Name & No. Burk Trust 'C' # 3-22 Test No. 3 Date 10-25-2013
 Company Murfin Drilling Co. Elevation 3240 KB 3235 GL
 Address 250 N. Water ste. 300 Wichita Ks,
 Co. Rep / Geo. Clayton Erickson Rig LKC-D
 Location: Sec. 22 Twp. 15 Rge. 36w Co. Rawlins State Ks.

Interval Tested 4340 4395 Zone Tested LKC-D
 Anchor Length 55 Drill Pipe Run 4142 Mud Wt. 9.3
 Top Packer Depth 4335 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 4340 Wt. Pipe Run -0- WL 5.8
 Total Depth 4395 Chlorides 200 ppm System LCM 4#

Blow Description IF: Weak blow, Built to 1in. over 30 mins.

ISF: No blow back

FF: Weak blow off and on over 60mins

FSJ: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>		<u>35</u>		<u>65</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 30 BHT 135 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>2281</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>10:00</u>
(B) First Initial Flow	<u>39</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>10:40</u>
(C) First Final Flow	<u>47</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>13:21</u>
(D) Initial Shut-In	<u>1174</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>17:15</u>
(E) Second Initial Flow	<u>109</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>19:45</u>
(F) Second Final Flow	<u>62</u>	<input checked="" type="checkbox"/> Mileage	<u>54 x 2 = 108 x 1.55 = 167.40</u>	Comments	
(G) Final Shut-In	<u>2148</u>	<input type="checkbox"/> Separator	<u>167.40 x 2 = 334.80</u>		<u>- Went out to load tools</u>
(H) Final Hydrostatic	<u>2192</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>1909.80</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1909.80</u>		

Approved By _____ Our Representative Chad [Signature]

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