

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

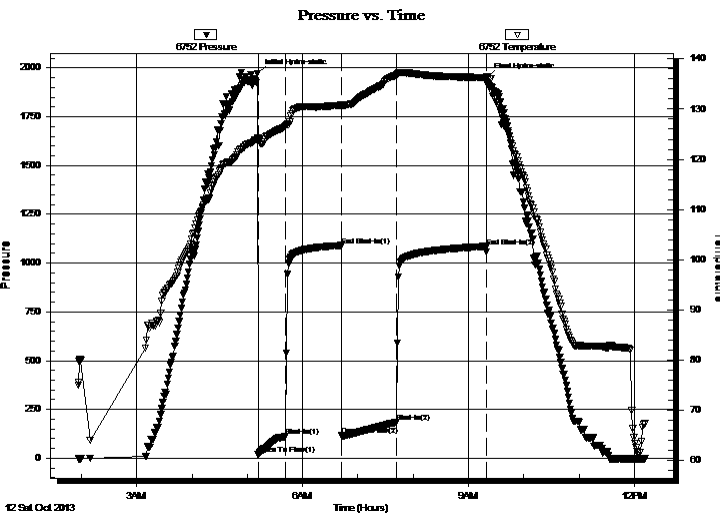
Last Calib.: 2013.10.12

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

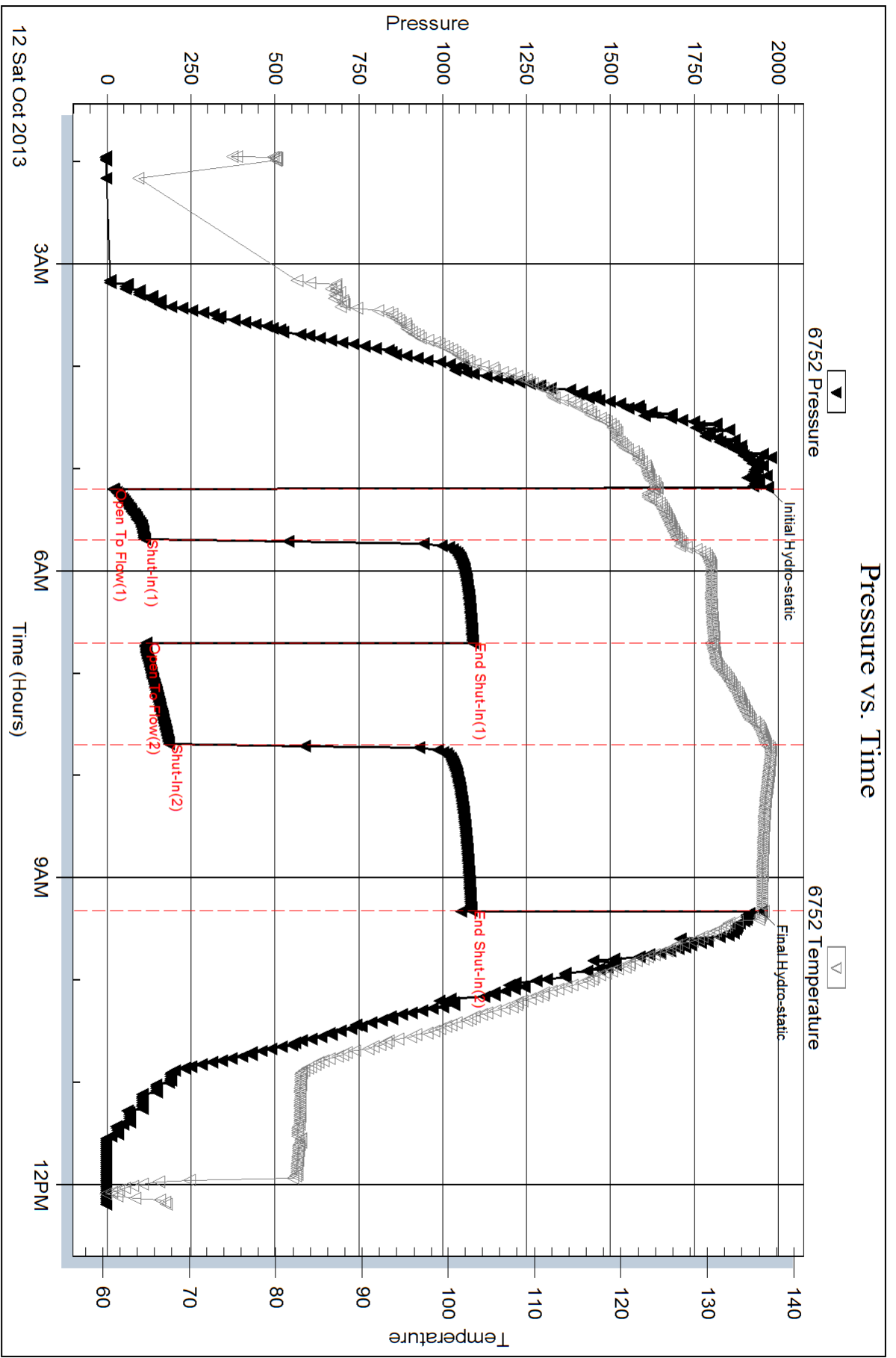
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 22 @ 70 DEG F

RW = .153 @ 73 DEG F

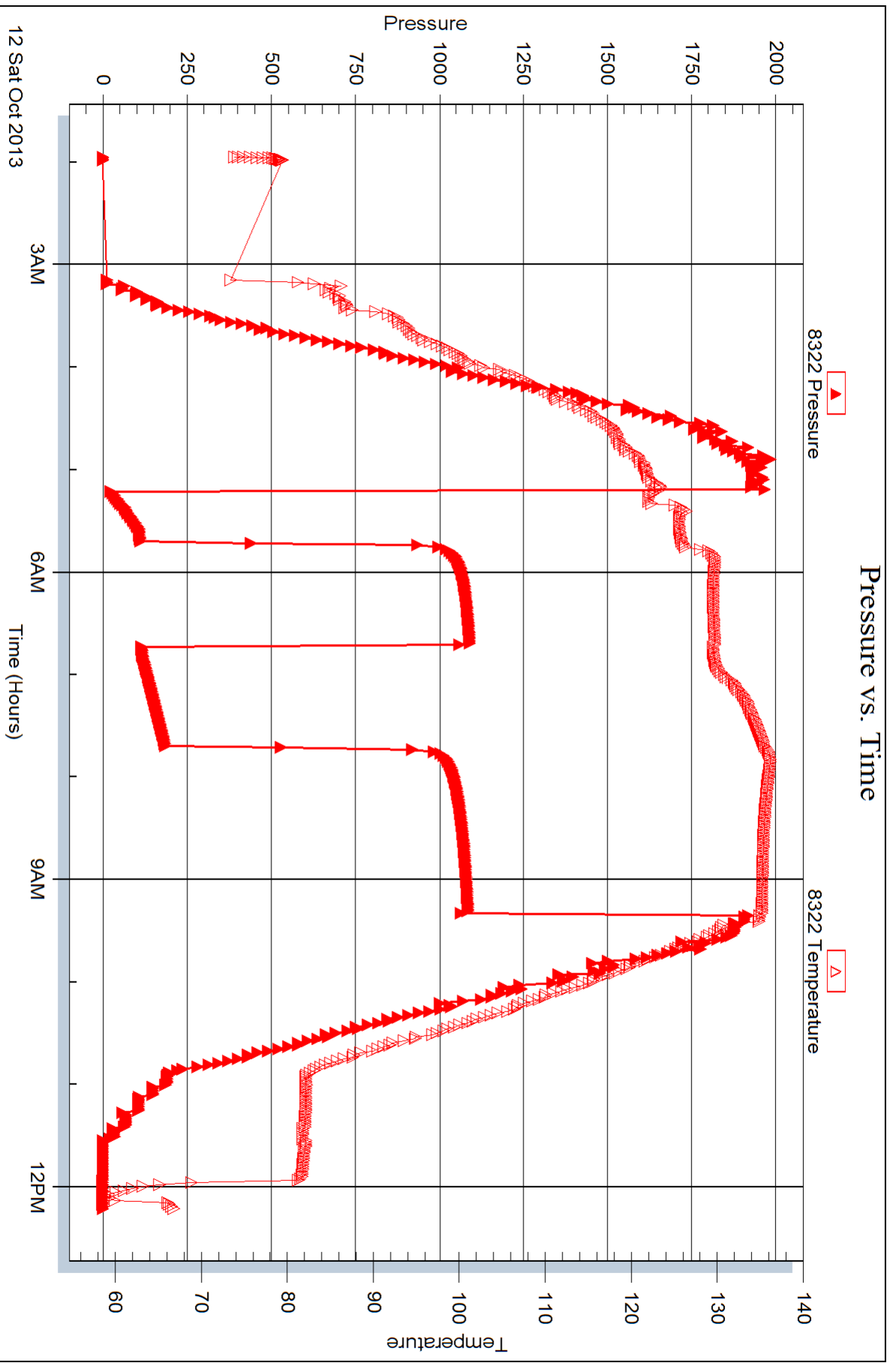


Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

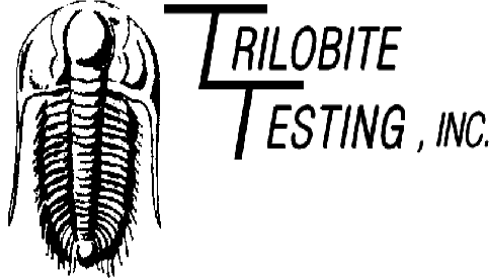
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55134

Printed: 2013.10.17 @ 10:22:42



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

Job Ticket: 55135

DST#: 2

ATTN: Robert Hendrix

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

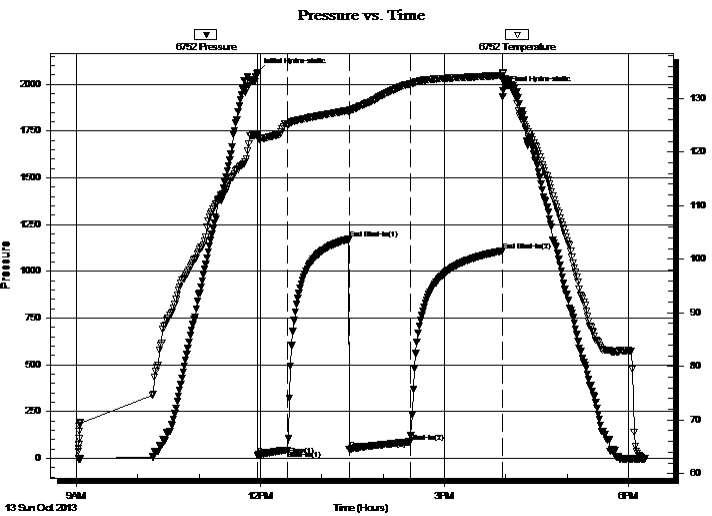
End Time:

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



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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

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 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 bbbl
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

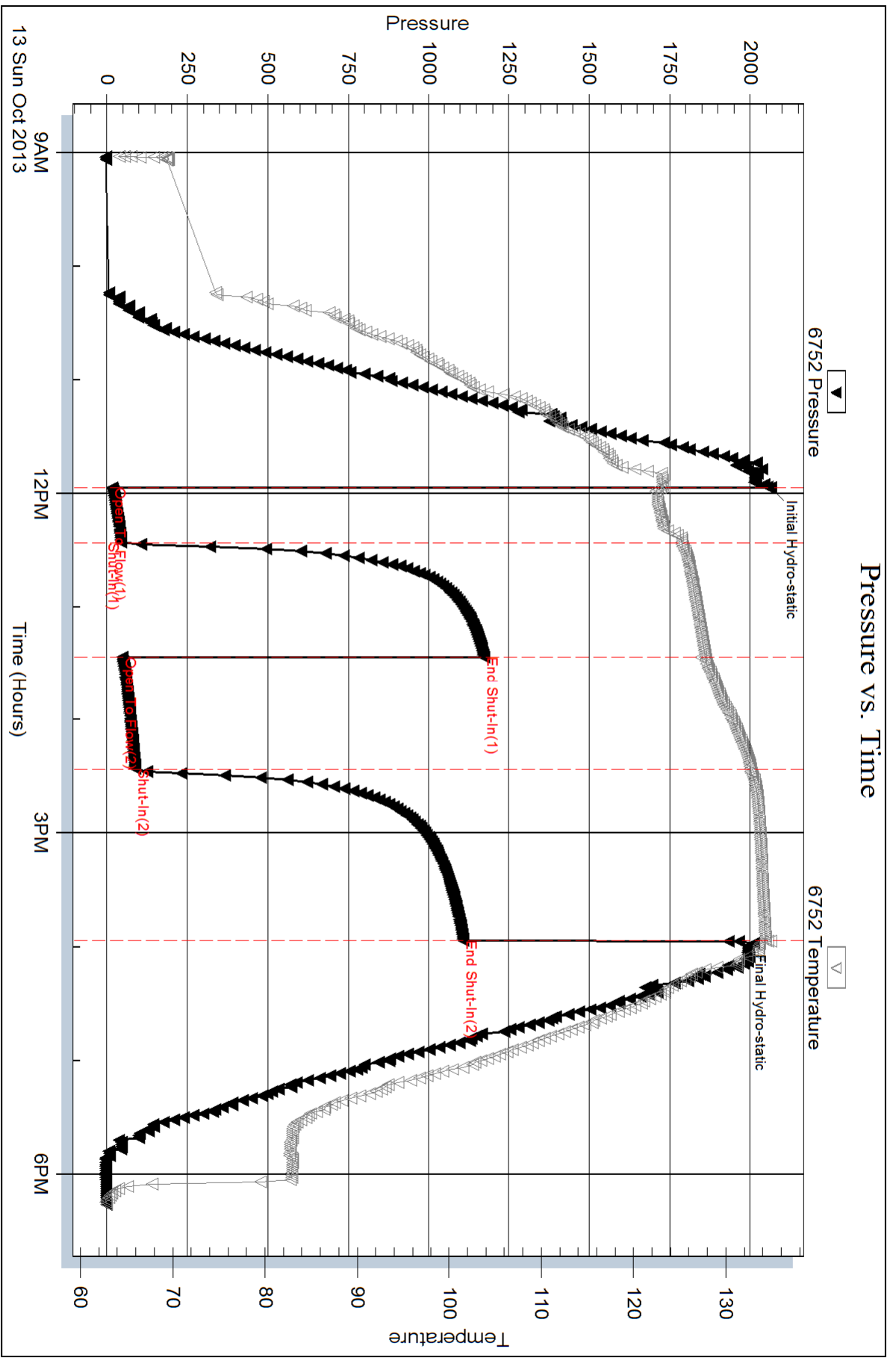
Serial #: 6752

Inside

Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55135

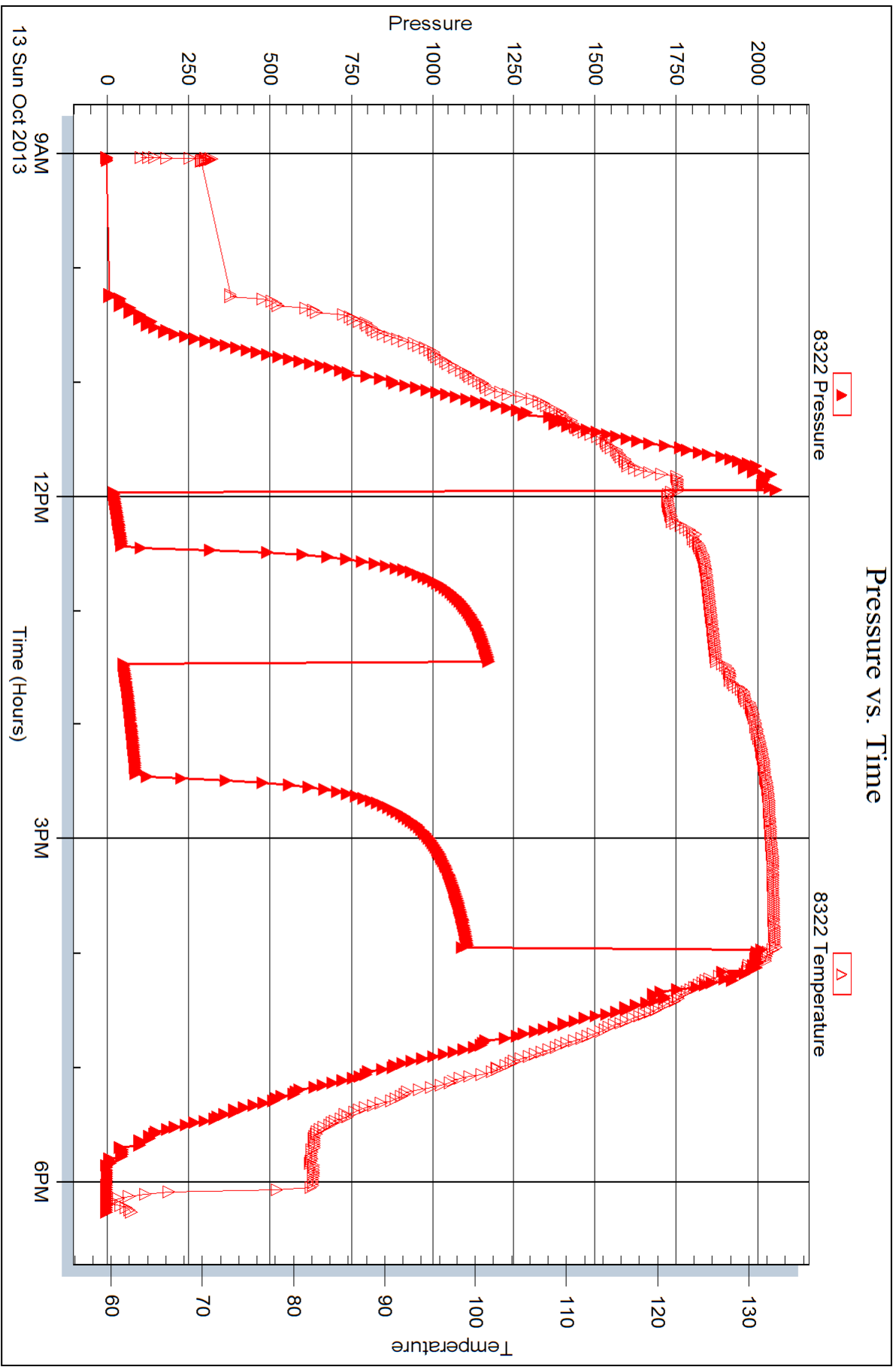
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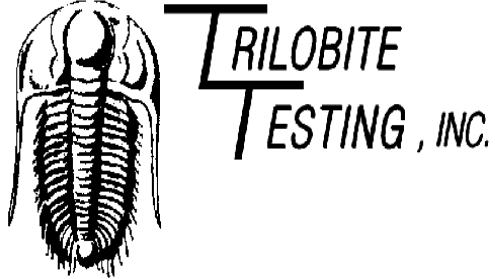
Serial #: 8322

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

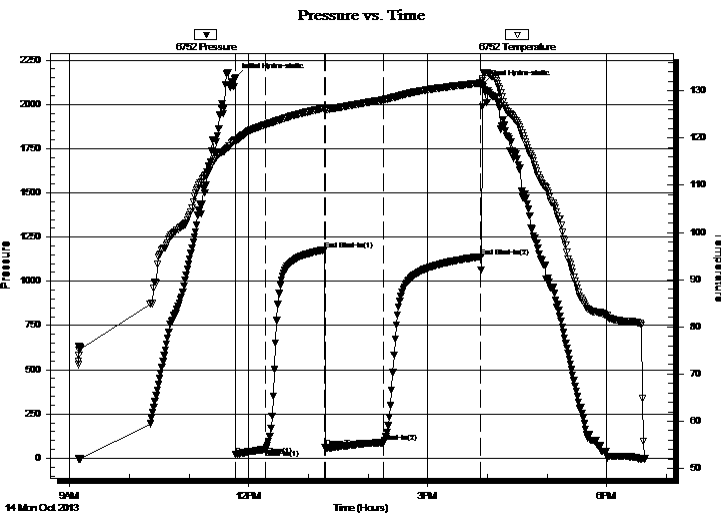
End Time:

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 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

* 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: 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

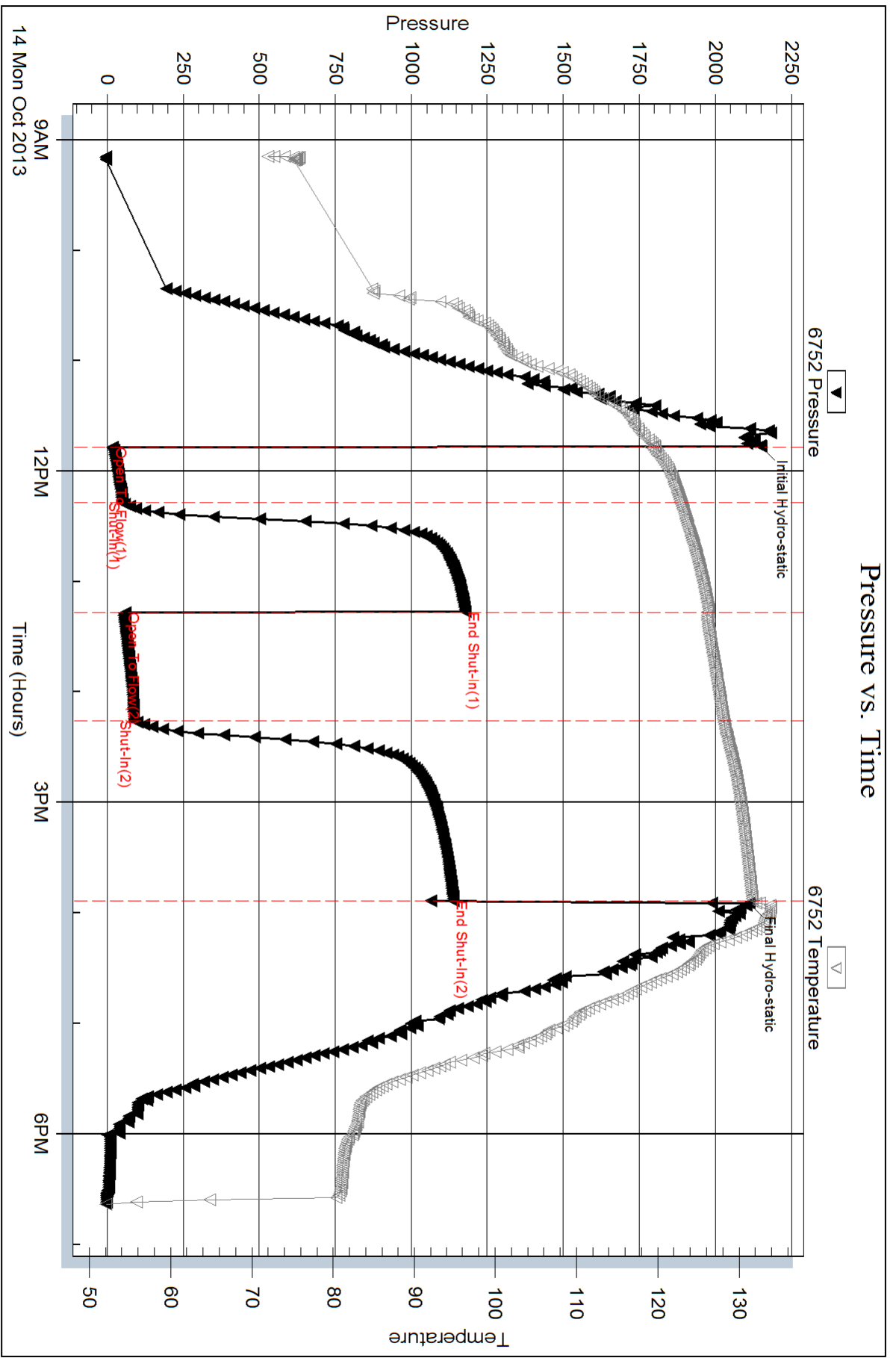
Serial #: 6752

Inside

Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55136

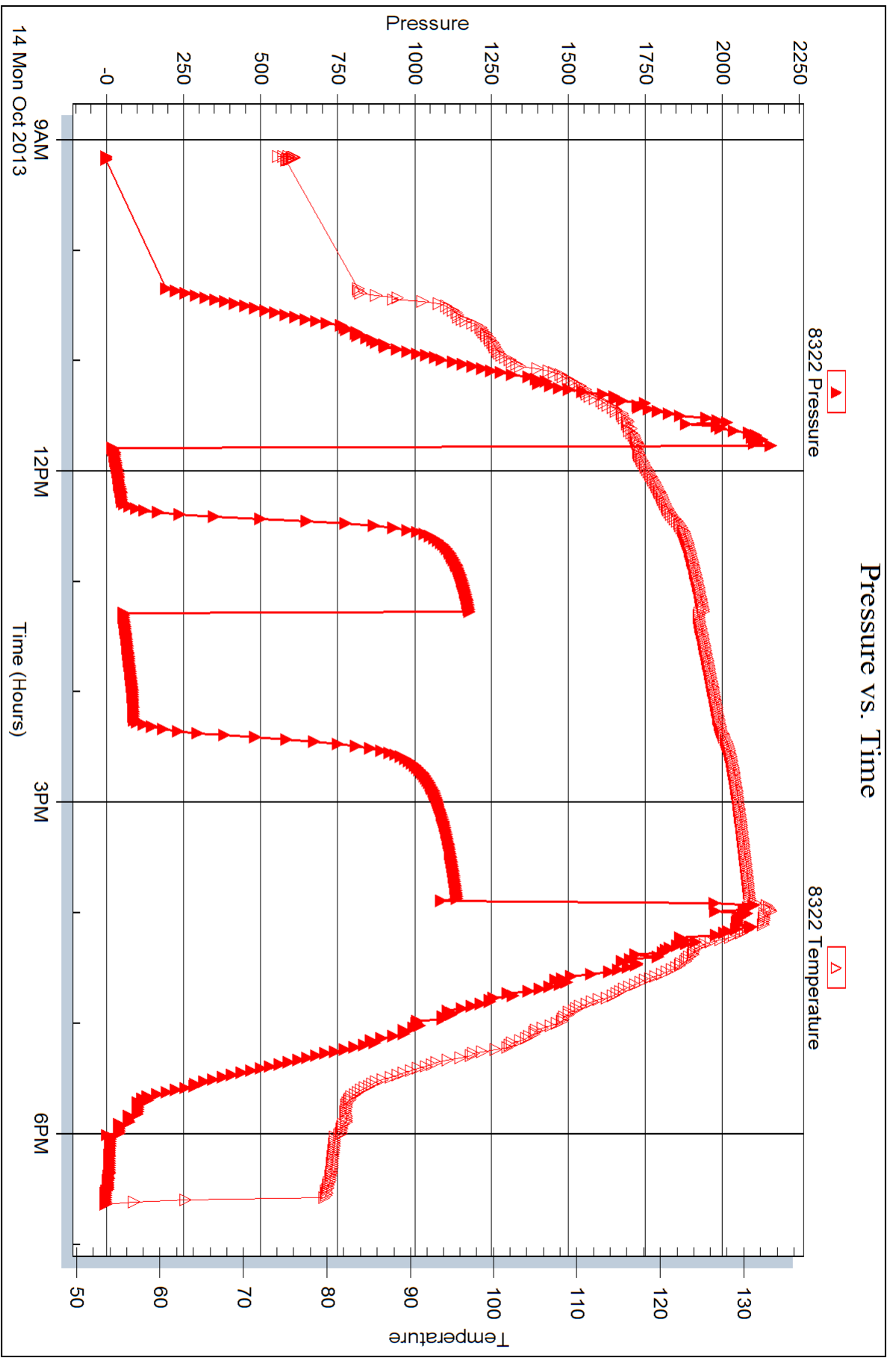
Printed: 2013.10.17 @ 10:17:07

Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 3





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

ATTN: Robert Hendrix

Job Ticket: 55137

DST#: 4

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

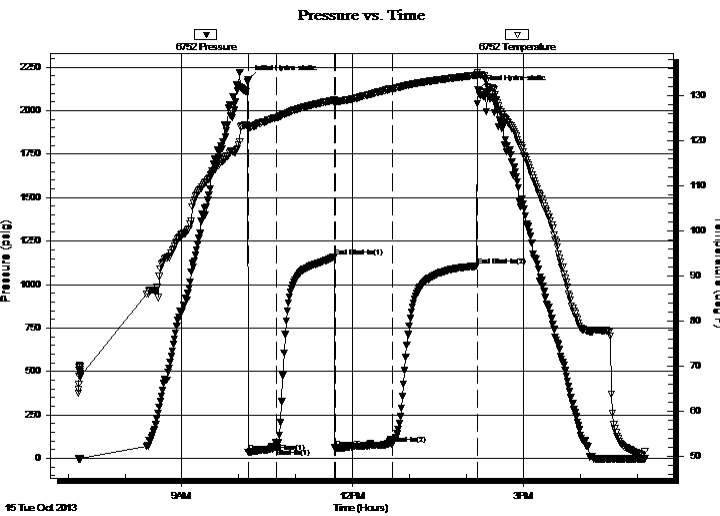
Last Calib.: 2013.10.15

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

* 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: 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

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

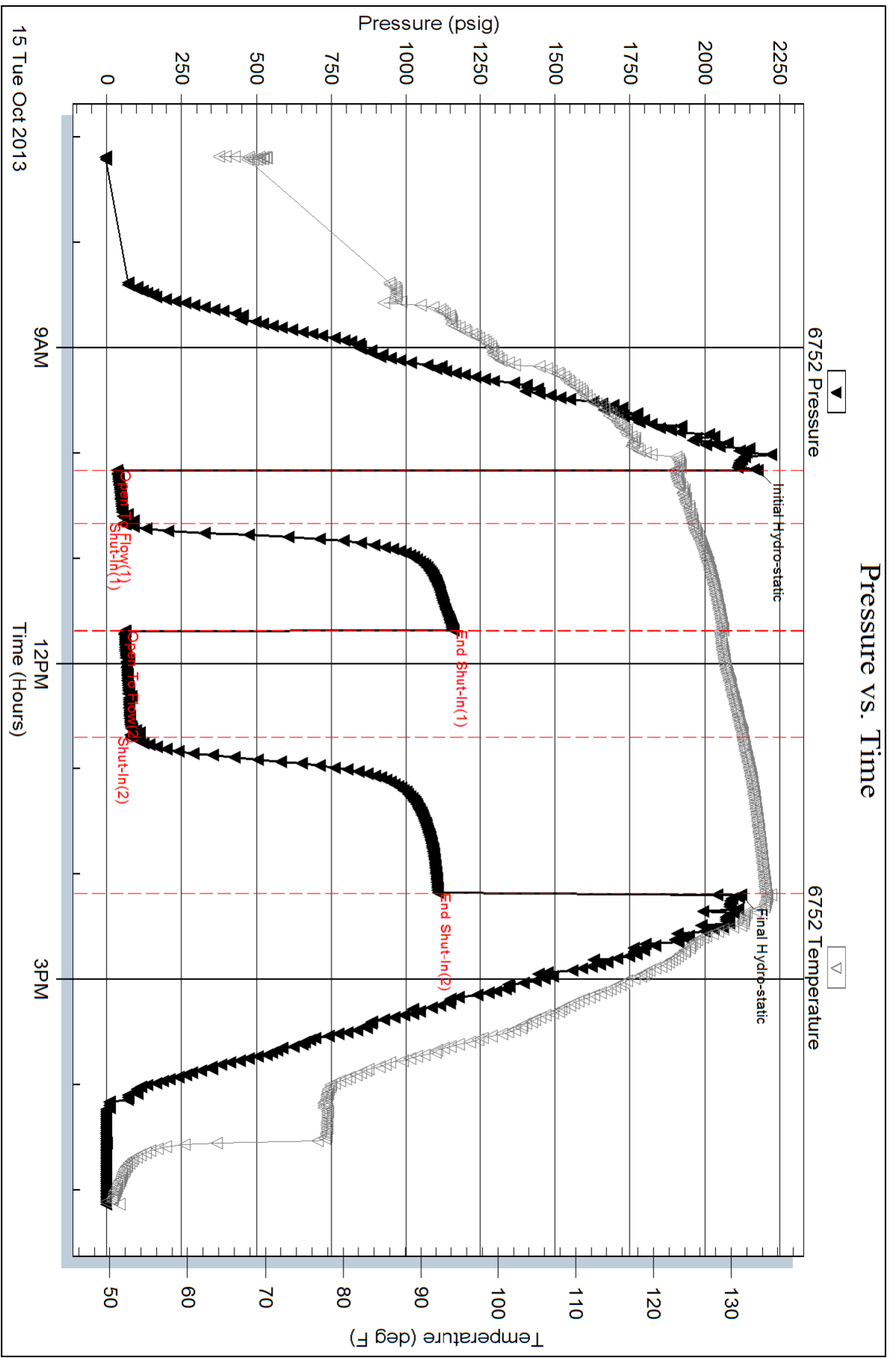
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

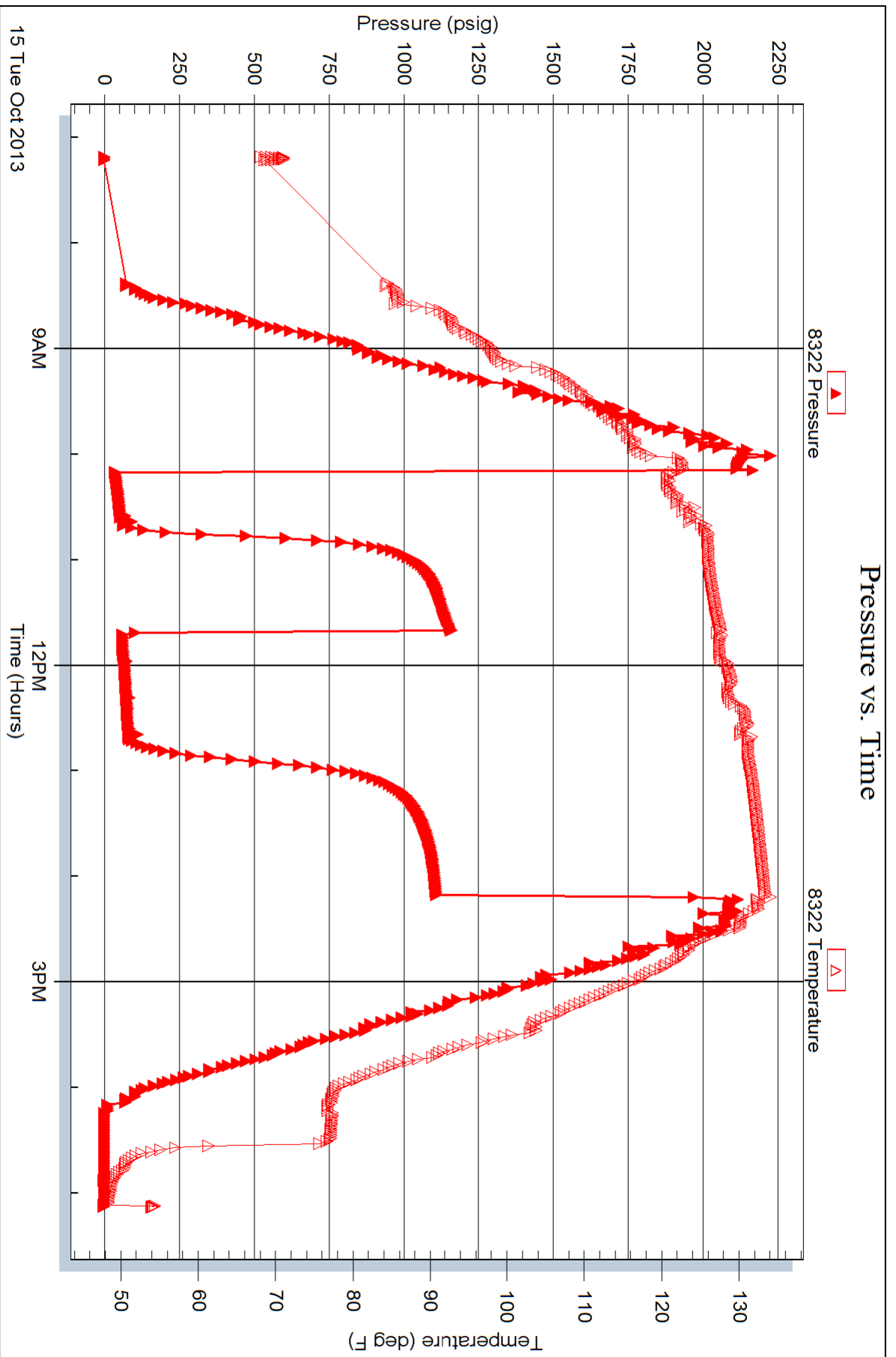


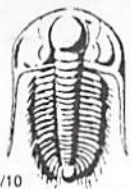
Serial #: 8322

Outside Murfin Drilling Company Inc.

Burk Trust C#2-22

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55134

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
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 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 18 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
 (H) Final Hydrostatic 1950

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

Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Ruined Shale Packer
 Ruined Packer
 Extra Copies

Sub Total 0
 Total 1945.50
 MP/DST Disc't _____

Sub Total 1945.50

Approved By _____ Our Representative [Signature]

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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	
(H) Final Hydrostatic <u>1964</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1745.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____

Sub Total 1745.50

Approved By _____ Our Representative [Signature]

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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 _____

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

Sub Total 1745.50

MP/DST Disc't _____

Approved By _____

Our Representative [Signature]

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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	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<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>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]

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