



DRILL STEM TEST REPORT

Prepared For: **Murfin Driling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Raile " A " #12-32

32-2s-41w Cheyenne KS

Start Date: 2013.11.16 @ 11:46:00

End Date: 2013.11.16 @ 19:00:00

Job Ticket #: 55149 DST #: 1

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

Printed: 2013.11.22 @ 14:36:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55149

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.11.16 @ 11:46:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:10:10

Time Test Ended: 19:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 41

Interval: 4485.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3682.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3669.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6752

Inside

Press@RunDepth: 18.74 psig @ 4486.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.16

End Date:

2013.11.16

Last Calib.: 2013.11.16

Start Time: 11:46:01

End Time:

19:00:00

Time On Btm: 2013.11.16 @ 14:10:00

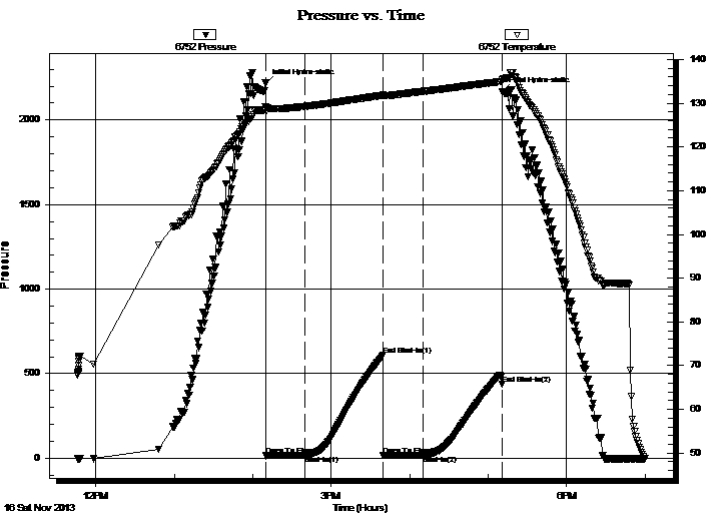
Time Off Btm: 2013.11.16 @ 17:10:50

TEST COMMENT: 30 IF - Surface blow built to 1/4"

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.01	129.27	Initial Hydro-static
1	14.89	128.18	Open To Flow (1)
30	17.09	129.26	Shut-In(1)
90	609.11	131.83	End Shut-In(1)
90	17.72	131.68	Open To Flow (2)
120	18.74	132.69	Shut-In(2)
181	438.63	134.93	End Shut-In(2)
181	2165.48	135.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55149

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.11.16 @ 11:46:00

Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 57.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4485.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	102.00 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			4459.00	
Shut In Tool	5.00			4464.00	
Hydraulic tool	5.00			4469.00	
Jars	5.00			4474.00	
Safety Joint	2.00			4476.00	
Packer	5.00			4481.00	27.00 Bottom Of Top Packer
Packer	4.00			4485.00	
Packer - Shale	0.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	6752	Inside	4486.00	
Recorder	0.00	8322	Outside	4486.00	
Perforations	6.00			4492.00	
Blank Spacing	65.00			4557.00	
Bullnose	3.00			4560.00	75.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55149

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.11.16 @ 11:46:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 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
5.00	Mud w / oil spots 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

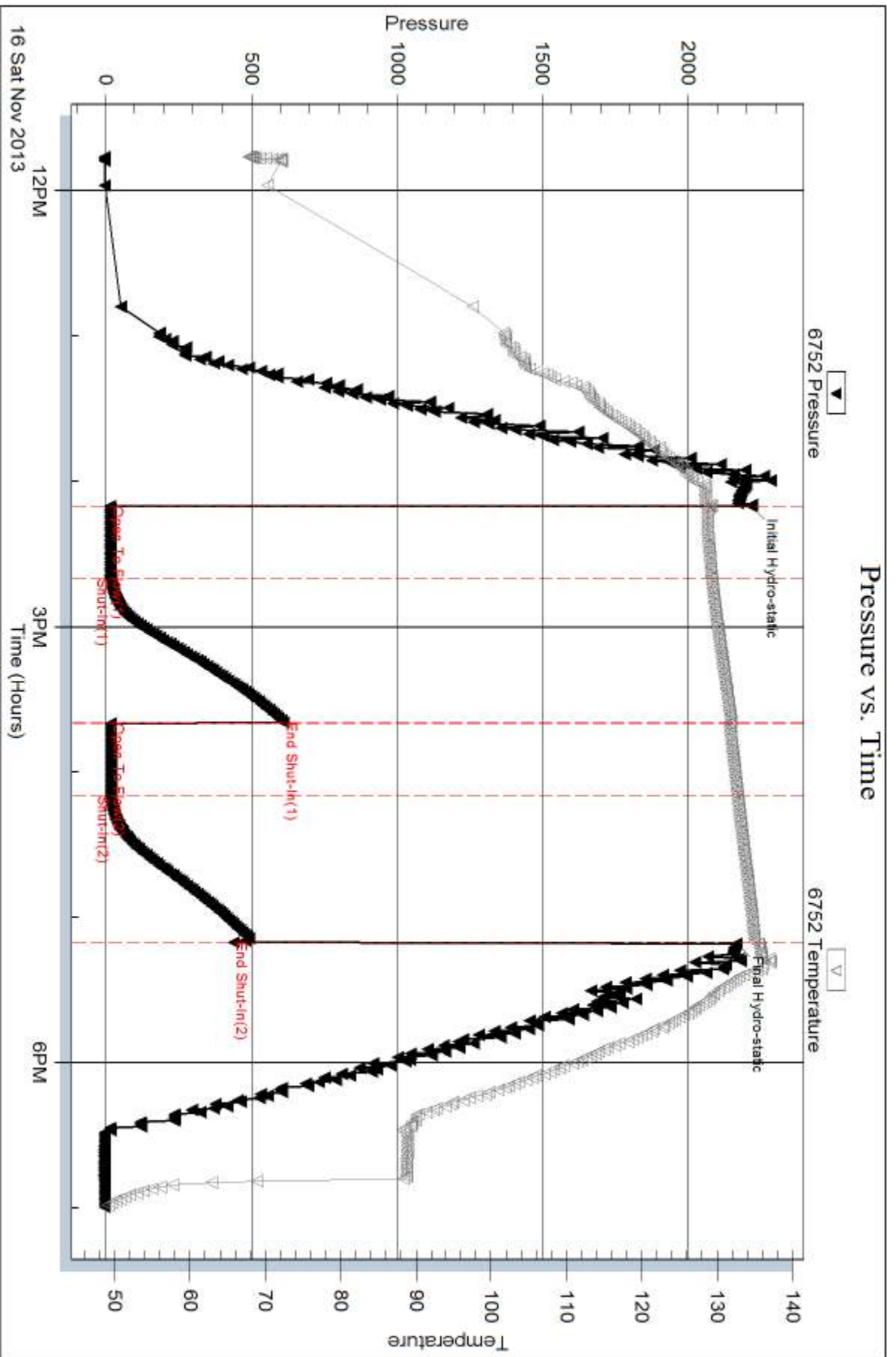
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

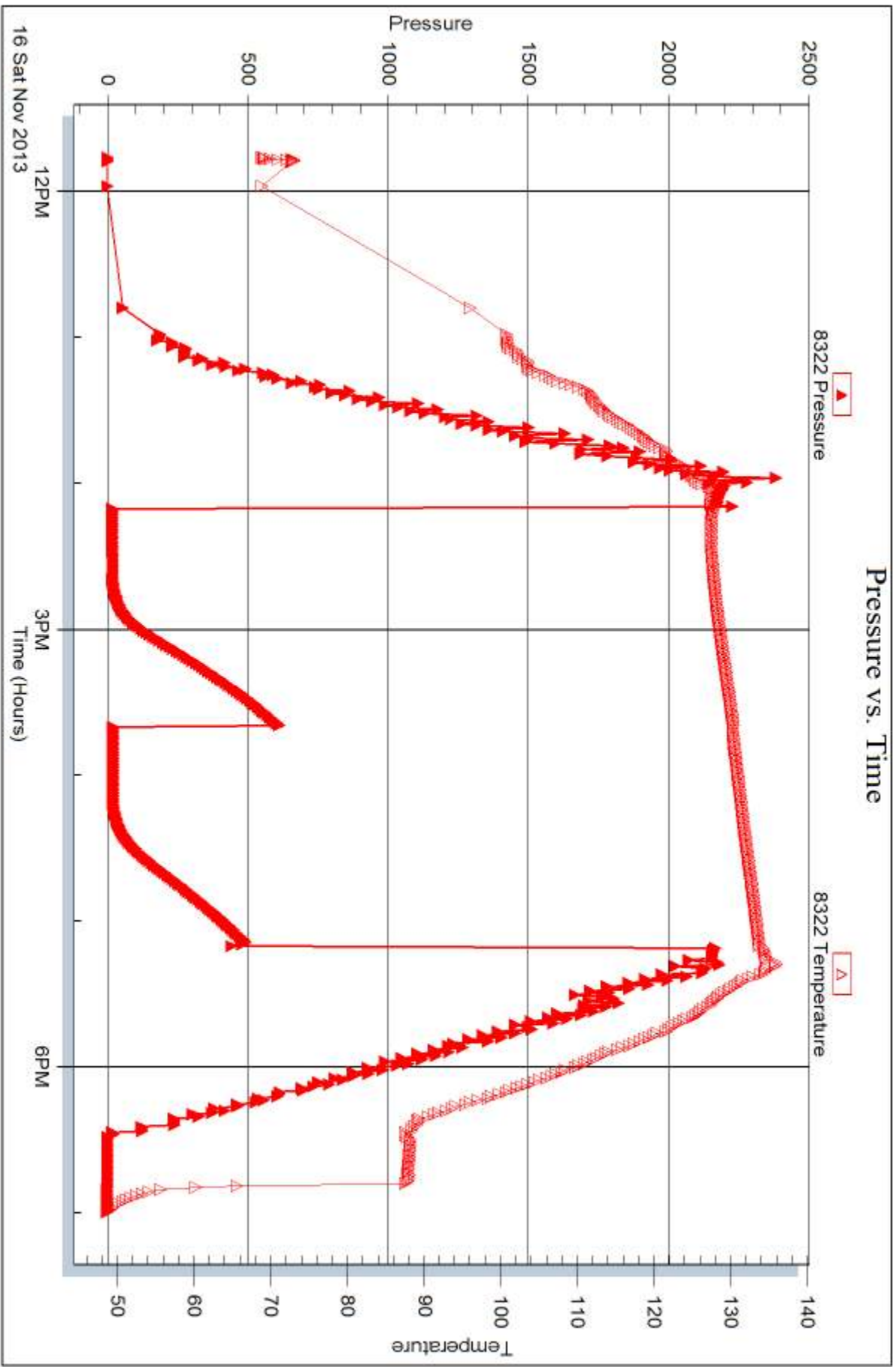


Serial #: 8322

Outside Murfin Drilling Company

Rate "A" #12-32

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Driling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Raile " A " #12-32

32-2s-41w Cheyenne KS

Start Date: 2013.11.17 @ 04:04:00

End Date: 2013.11.17 @ 15:08:42

Job Ticket #: 55150 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.22 @ 14:35:29

Murfin Driling Company

32-2s-41w Cheyenne KS

Raile " A " #12-32

DST # 2

LKC " D "

2013.11.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55150

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.11.17 @ 04:04:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:02

Time Test Ended: 15:08:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4545.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 3682.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3669.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8322 Outside

Press@RunDepth: 21.00 psig @ 4546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.17 End Date: 2013.11.17

Last Calib.: 2013.11.17

Start Time: 04:04:01 End Time: 15:08:42

Time On Btm: 2013.11.17 @ 06:32:52

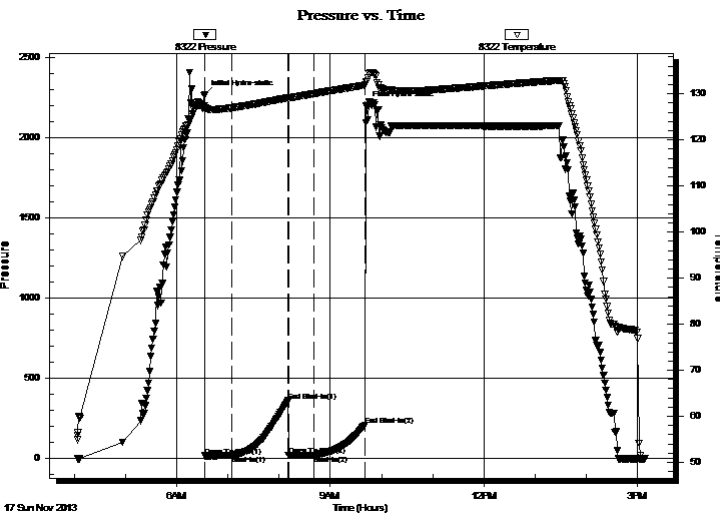
Time Off Btm: 2013.11.17 @ 09:42:12

TEST COMMENT: 30 IF - Surface blow built to 1/2"

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.90	127.32	Initial Hydro-static
1	16.14	126.69	Open To Flow (1)
32	17.99	126.95	Shut-In(1)
98	359.22	129.17	End Shut-In(1)
99	19.18	129.11	Open To Flow (2)
129	21.00	130.04	Shut-In(2)
188	208.45	131.89	End Shut-In(2)
190	2196.92	132.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM - 10%o - 90%M	0.02

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55150

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.11.17 @ 04:04:00

Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.80 inches	Volume: 55.62 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 58.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4545.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	102.00 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			4519.00	
Shut In Tool	5.00			4524.00	
Hydraulic tool	5.00			4529.00	
Jars	5.00			4534.00	
Safety Joint	2.00			4536.00	
Packer	5.00			4541.00	27.00 Bottom Of Top Packer
Packer	4.00			4545.00	
Packer - Shale	0.00			4545.00	
Stubb	1.00			4546.00	
Recorder	0.00	6752	Inside	4546.00	
Recorder	0.00	8322	Outside	4546.00	
Perforations	6.00			4552.00	
Blank Spacing	65.00			4617.00	
Bullnose	3.00			4620.00	75.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55150

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.11.17 @ 04:04:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 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
5.00	OCM - 10%o - 90%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

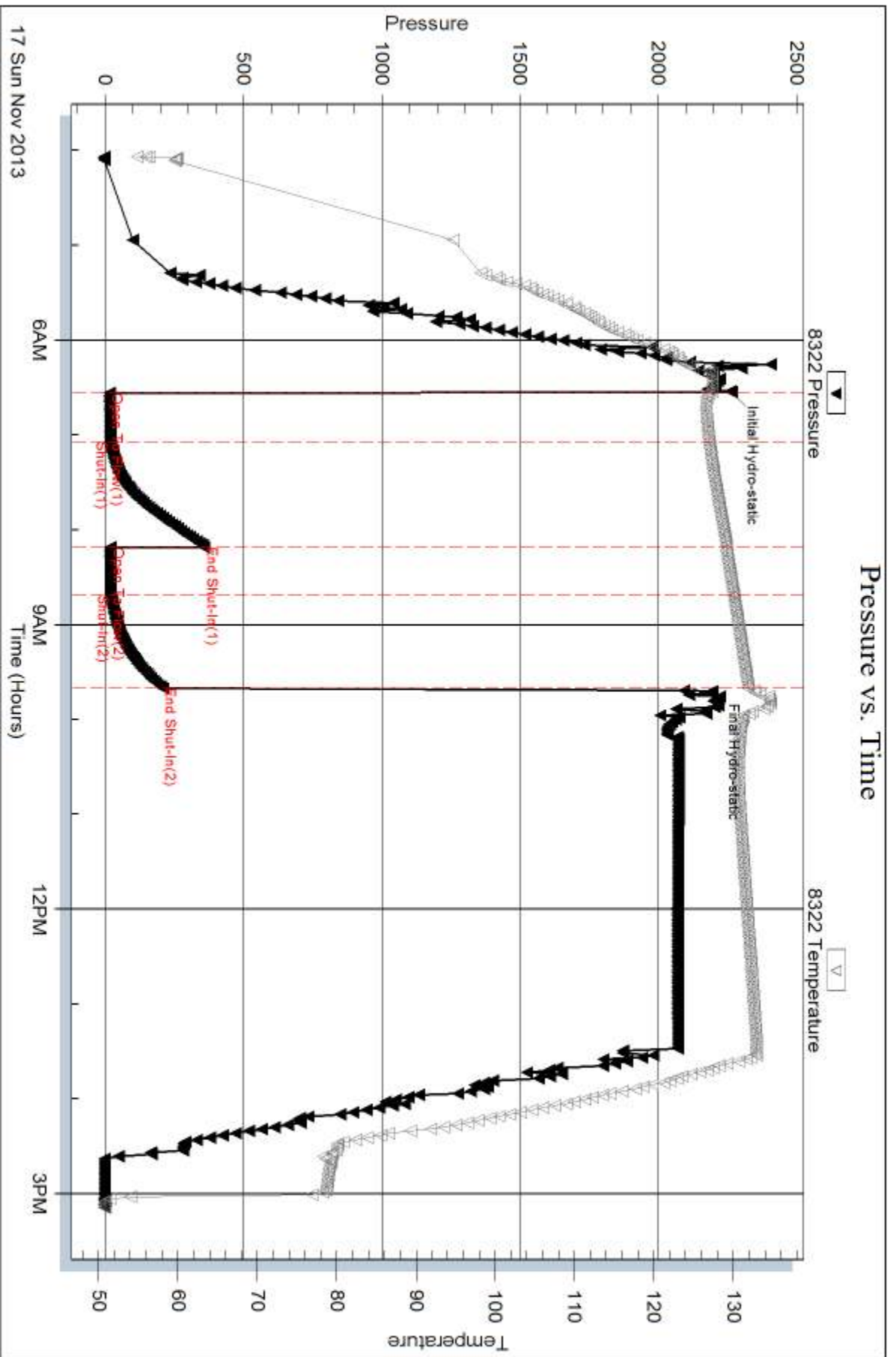
Num Gas Bombs: 0

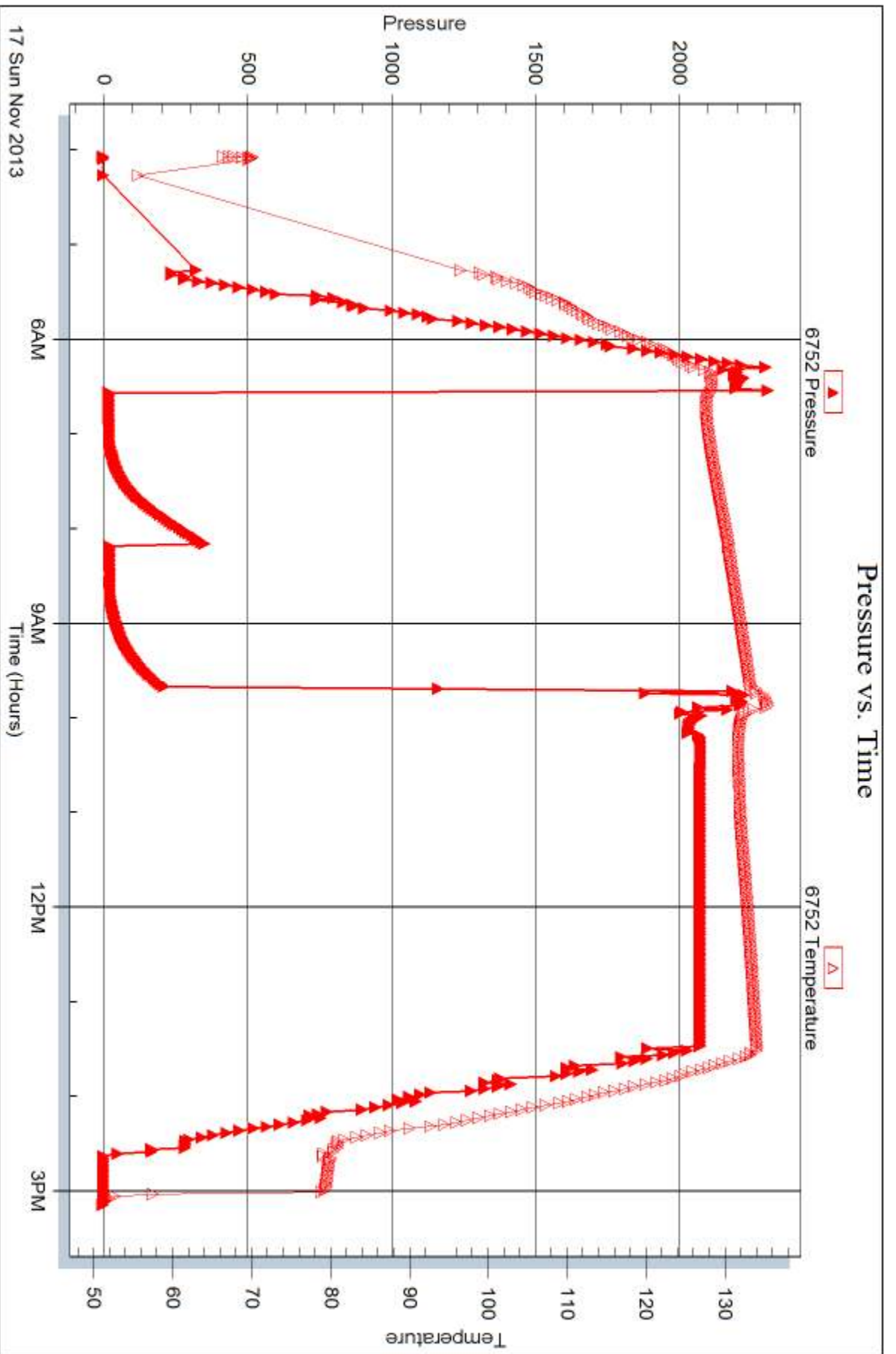
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Driling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Raile " A " #12-32

32-2s-41w Cheyenne KS

Start Date: 2013.11.18 @ 05:14:00

End Date: 2013.11.18 @ 14:08:49

Job Ticket #: 55102 DST #: 3

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

Printed: 2013.11.22 @ 14:34:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55102

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.11.18 @ 05:14:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:57:10

Time Test Ended: 14:08:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4709.00 ft (KB) To 4760.00 ft (KB) (TVD)

Reference Elevations: 3682.00 ft (KB)

Total Depth: 4760.00 ft (KB) (TVD)

3669.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6752

Inside

Press@RunDepth: 167.60 psig @ 4710.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.18

End Date:

2013.11.18

Last Calib.:

2013.11.18

Start Time: 05:14:01

End Time:

14:08:49

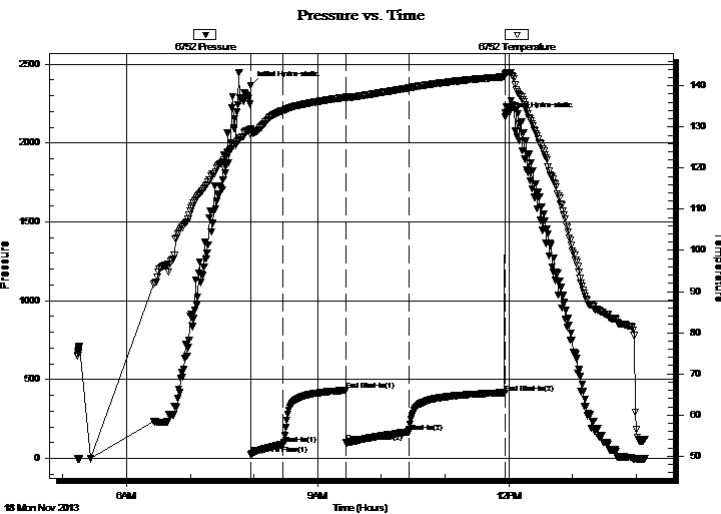
Time On Btm:

2013.11.18 @ 07:57:00

Time Off Btm:

2013.11.18 @ 11:56:39

TEST COMMENT: 30 IF - 1/4" blow built to BoB @ 21 mins
60 ISI - Surface blow started @ 1 min built to 1"
60 FF - Surface blow built to BoB @ 27 mins
90 FSI - Surface blow built to 1/4" @ 60 mins died back to surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.61	129.49	Initial Hydro-static
1	26.72	128.19	Open To Flow (1)
31	88.62	133.98	Shut-In(1)
90	431.17	137.23	End Shut-In(1)
90	101.11	137.12	Open To Flow (2)
149	167.60	139.45	Shut-In(2)
240	414.61	142.22	End Shut-In(2)
240	2164.80	142.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM - 25%G - 25%o - 50%M	0.44
90.00	GOCM - 20 %G - 30%o - 50%M	0.44
190.00	GO - 10%G - 90%o	0.93
0.00	270' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

32-2s-41w Cheyenne KS

Raile " A " #12-32

Job Ticket: 55102

DST#: 3

Test Start: 2013.11.18 @ 05:14:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:57:10

Time Test Ended: 14:08:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: **4709.00 ft (KB) To 4760.00 ft (KB) (TVD)**

Total Depth: 4760.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3682.00 ft (KB)

3669.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4710.00 ft (KB)

Start Date: 2013.11.18

End Date:

Start Time: 05:14:01

End Time:

Capacity: 8000.00 psig

Last Calib.:

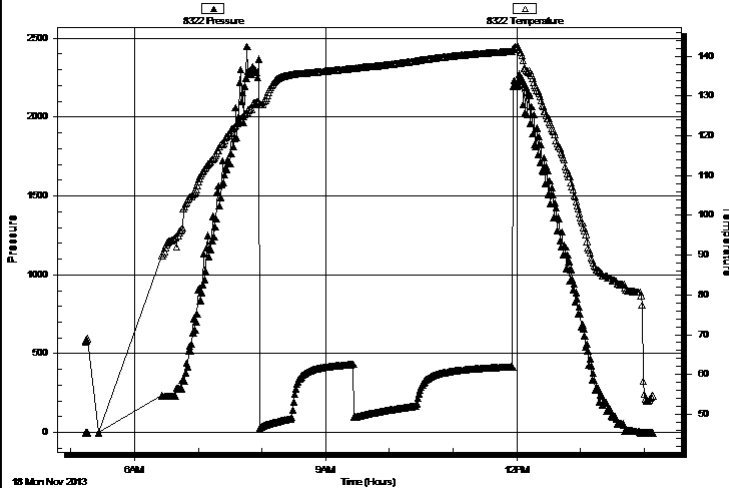
2013.11.18

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to BoB @ 21 mins
60 ISI - Surface blow started @ 1 min built to 1"
60 FF - Surface blow built to BoB @ 27 mins
90 FSI - Surface blow built to 1/4" @ 60 mins died back to surface blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM - 25%G - 25%o - 50%M	0.44
90.00	GOCM - 20 %G - 30%o - 50%M	0.44
190.00	GO - 10%G - 90%o	0.93
0.00	270' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55102

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.11.18 @ 05:14:00

Tool Information

Drill Pipe:	Length: 4154.00 ft	Diameter: 3.80 inches	Volume: 58.27 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 61.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4709.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4683.00	
Shut In Tool	5.00			4688.00	
Hydraulic tool	5.00			4693.00	
Jars	5.00			4698.00	
Safety Joint	2.00			4700.00	
Packer	5.00			4705.00	27.00 Bottom Of Top Packer
Packer	4.00			4709.00	
Packer - Shale	0.00			4709.00	
Stubb	1.00			4710.00	
Recorder	0.00	6752	Inside	4710.00	
Recorder	0.00	8322	Outside	4710.00	
Perforations	14.00			4724.00	
Blank Spacing	33.00			4757.00	
Bullnose	3.00			4760.00	51.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55102

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.11.18 @ 05:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 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: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	GOCM - 25%G - 25%o - 50%M	0.443
90.00	GOCM - 20 %G - 30%o - 50%M	0.443
190.00	GO - 10%G - 90%o	0.934
0.00	270' GIP	0.000

Total Length: 370.00 ft Total Volume: 1.820 bbl

Num Fluid Samples: 0

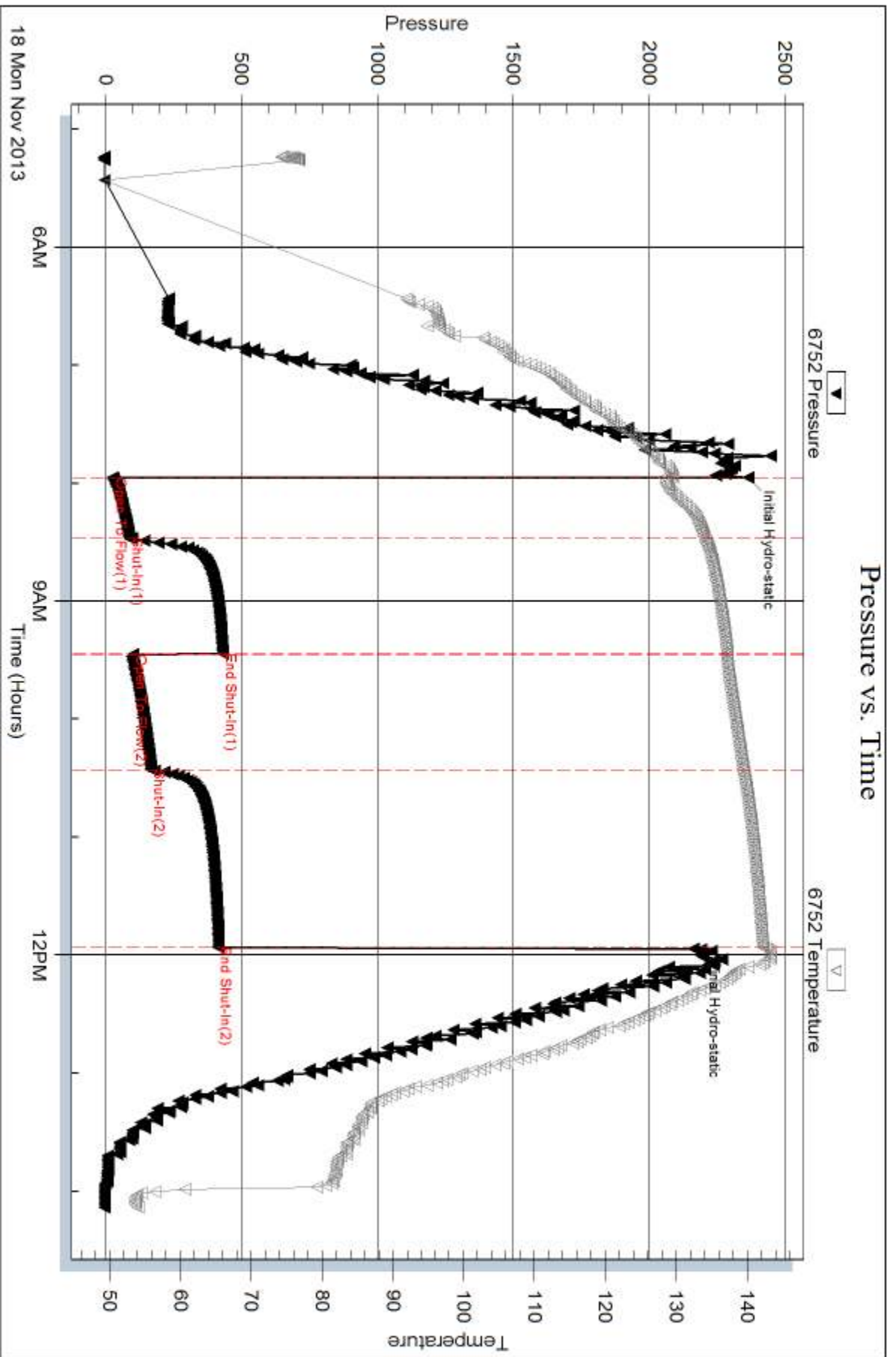
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 36 @ 70 DEG F = 35 COR 60 DEG F

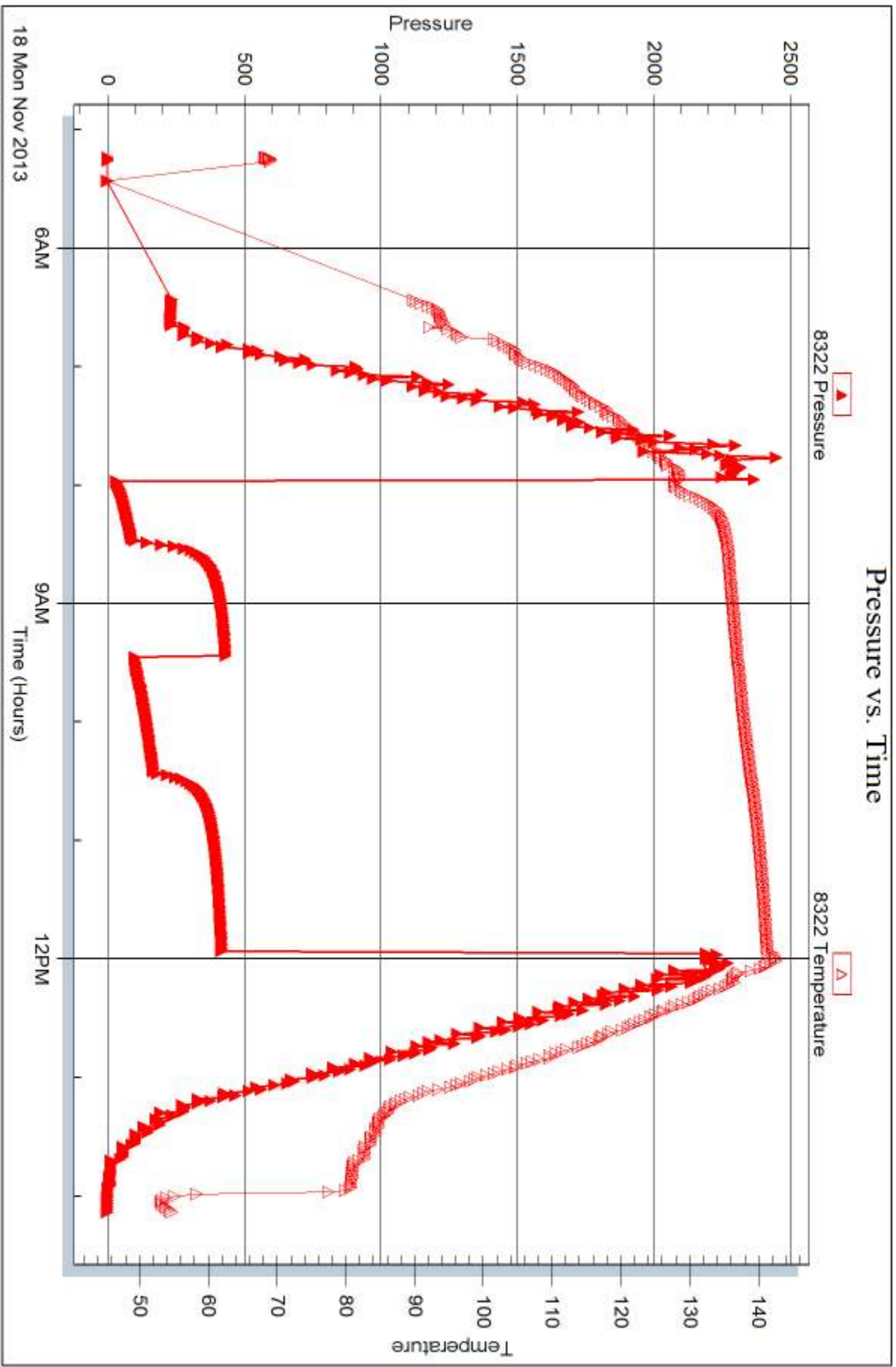


Serial #: 8322

Outside Murfin Drilling Company

Rate "A" #12-32

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55102

Printed: 2013.11.22 @ 14:35:01



DRILL STEM TEST REPORT

Prepared For: **Murfin Driling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Raile " A " #12-32

32-2s-41w Cheyenne KS

Start Date: 2013.11.19 @ 00:15:00

End Date: 2013.11.19 @ 09:12:19

Job Ticket #: 55103 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.22 @ 14:34:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55103

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.11.19 @ 00:15:00

GENERAL INFORMATION:

Formation: **LKC " K & L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:52:50

Time Test Ended: 09:12:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4781.00 ft (KB) To 4840.00 ft (KB) (TVD)

Reference Elevations: 3682.00 ft (KB)

Total Depth: 4840.00 ft (KB) (TVD)

3669.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8322 Outside

Press@RunDepth: 68.58 psig @ 4782.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.19

End Date:

2013.11.19

Last Calib.:

2013.11.19

Start Time: 00:15:01

End Time:

09:12:19

Time On Btm:

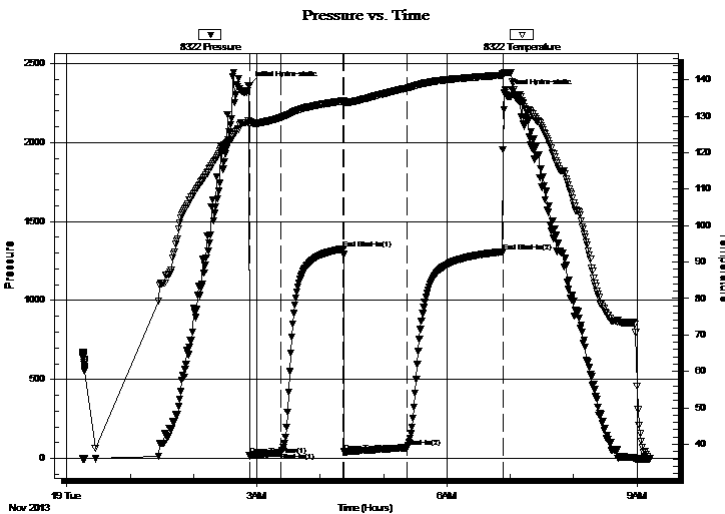
2013.11.19 @ 02:52:40

Time Off Btm:

2013.11.19 @ 06:54:20

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.25	128.79	Initial Hydro-static
1	17.44	128.12	Open To Flow (1)
30	36.34	129.67	Shut-In(1)
90	1327.12	134.24	End Shut-In(1)
90	42.01	133.95	Open To Flow (2)
149	68.58	137.73	Shut-In(2)
241	1308.46	141.30	End Shut-In(2)
242	2312.06	142.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM - 25%o - 75%M	0.44
15.00	MCO - 15%M - 85%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

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55103

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.11.19 @ 00:15:00

Tool Information

Drill Pipe:	Length: 4219.00 ft	Diameter: 3.80 inches	Volume: 59.18 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4781.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	86.00 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			4755.00	
Shut In Tool	5.00			4760.00	
Hydraulic tool	5.00			4765.00	
Jars	5.00			4770.00	
Safety Joint	2.00			4772.00	
Packer	5.00			4777.00	27.00 Bottom Of Top Packer
Packer	4.00			4781.00	
Packer - Shale	0.00			4781.00	
Stubb	1.00			4782.00	
Recorder	0.00	6752	Inside	4782.00	
Recorder	0.00	8322	Outside	4782.00	
Perforations	21.00			4803.00	
Blank Spacing	34.00			4837.00	
Bullnose	3.00			4840.00	59.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55103

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.11.19 @ 00:15:00

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:

bbf

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
90.00	OCM - 25%o - 75%M	0.443
15.00	MCO - 15%M - 85%o	0.074

Total Length: 105.00 ft

Total Volume: 0.517 bbf

Num Fluid Samples: 0

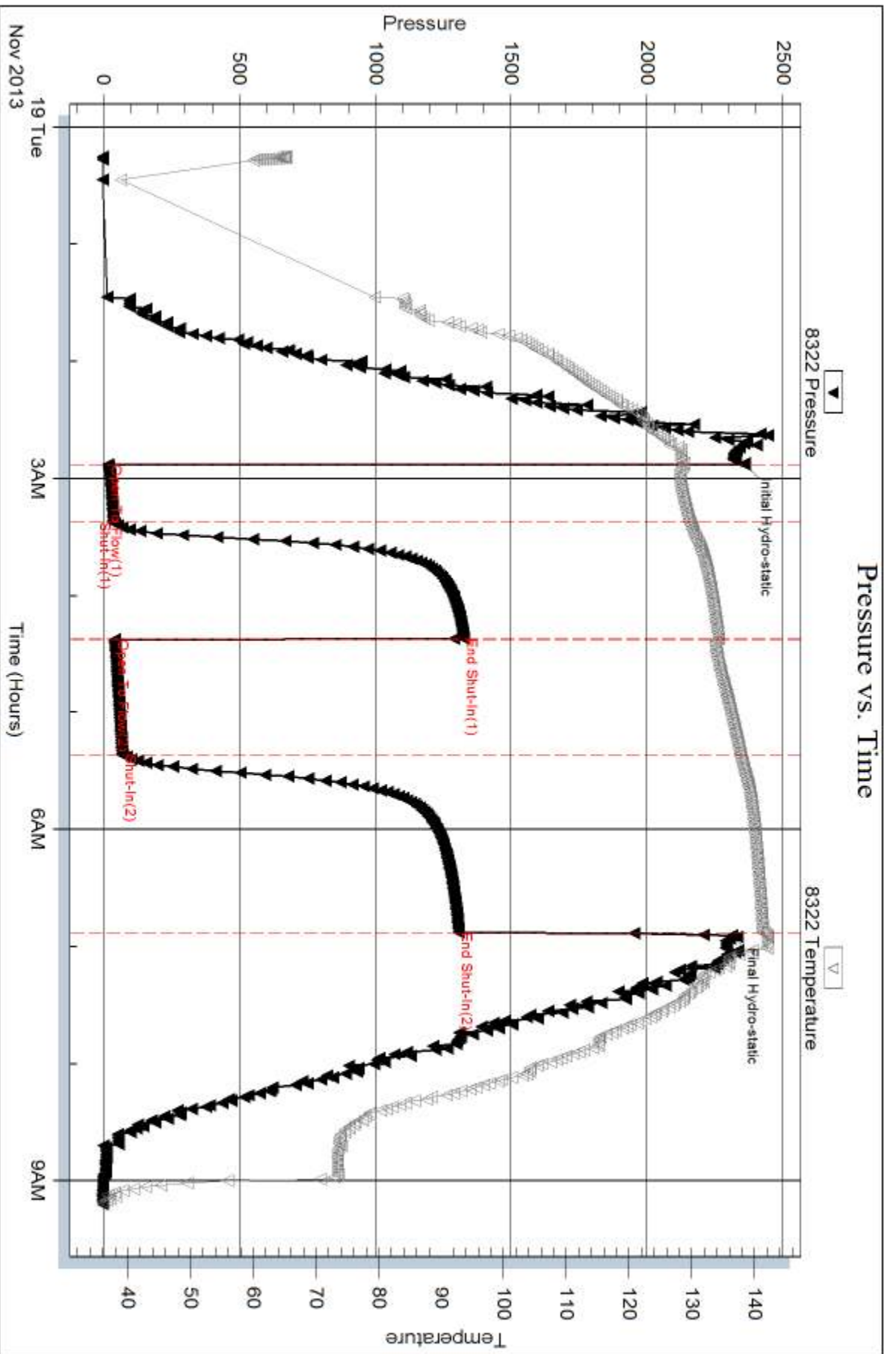
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Driling Company**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Raile " A " #12-32

32-2s-41w Cheyenne KS

Start Date: 2013.11.21 @ 00:20:00

End Date: 2013.11.21 @ 08:17:30

Job Ticket #: 55104 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.22 @ 14:33:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55104

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2013.11.21 @ 00:20:00

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:40

Time Test Ended: 08:17:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 5198.00 ft (KB) To 5318.00 ft (KB) (TVD)

Reference Elevations: 3682.00 ft (KB)

Total Depth: 5318.00 ft (KB) (TVD)

3669.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6752

Inside

Press@RunDepth: 30.50 psig @ 5199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.21

End Date:

2013.11.21

Last Calib.: 2013.11.21

Start Time: 00:20:01

End Time:

08:17:30

Time On Btm: 2013.11.21 @ 02:44:30

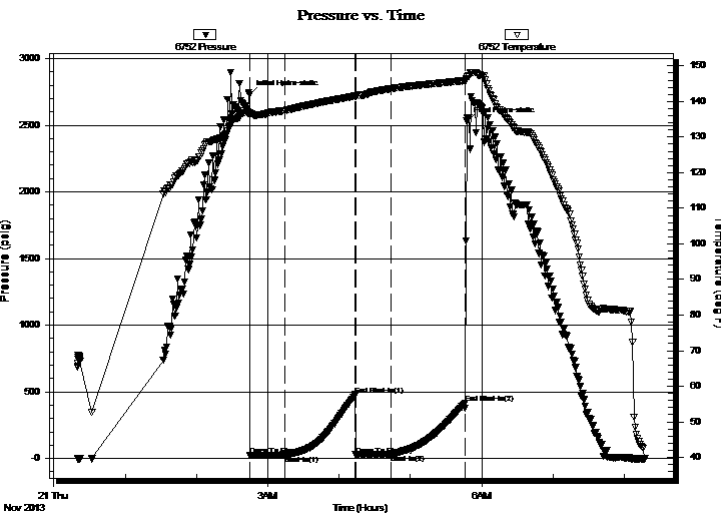
Time Off Btm: 2013.11.21 @ 05:47:20

TEST COMMENT: 30 IF - 1/2" blow built to 1"

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2731.23	136.95	Initial Hydro-static
1	20.85	136.28	Open To Flow (1)
31	26.05	137.45	Shut-In(1)
90	477.48	141.51	End Shut-In(1)
90	26.95	141.33	Open To Flow (2)
120	30.50	143.60	Shut-In(2)
182	414.23	145.88	End Shut-In(2)
183	2529.70	146.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.02

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

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55104

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2013.11.21 @ 00:20:00

Tool Information

Drill Pipe:	Length: 4632.00 ft	Diameter: 3.80 inches	Volume: 64.97 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 25000.00 lb
			<u>Total Volume: 67.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5198.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	147.00 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			5172.00	
Shut In Tool	5.00			5177.00	
Hydraulic tool	5.00			5182.00	
Jars	5.00			5187.00	
Safety Joint	2.00			5189.00	
Packer	5.00			5194.00	27.00 Bottom Of Top Packer
Packer	4.00			5198.00	
Packer - Shale	0.00			5198.00	
Stubb	1.00			5199.00	
Recorder	0.00	6752	Inside	5199.00	
Recorder	0.00	8322	Outside	5199.00	
Perforations	19.00			5218.00	
Blank Spacing	97.00			5315.00	
Bullnose	3.00			5318.00	120.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

32-2s-41w Cheyenne KS

250 N. Water STE 300
Wichita KS 67202

Raile " A " #12-32

Job Ticket: 55104

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2013.11.21 @ 00:20:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

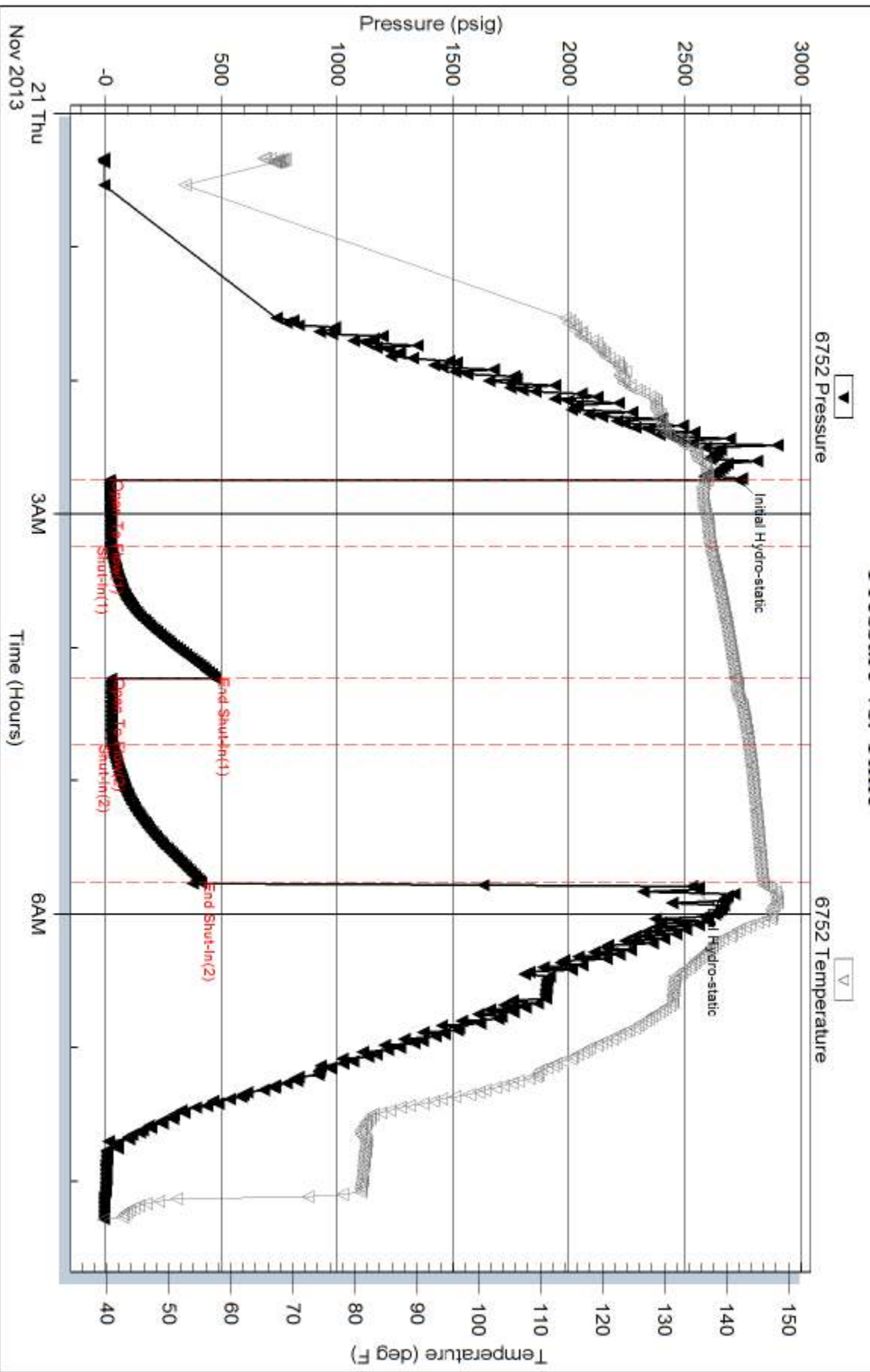
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

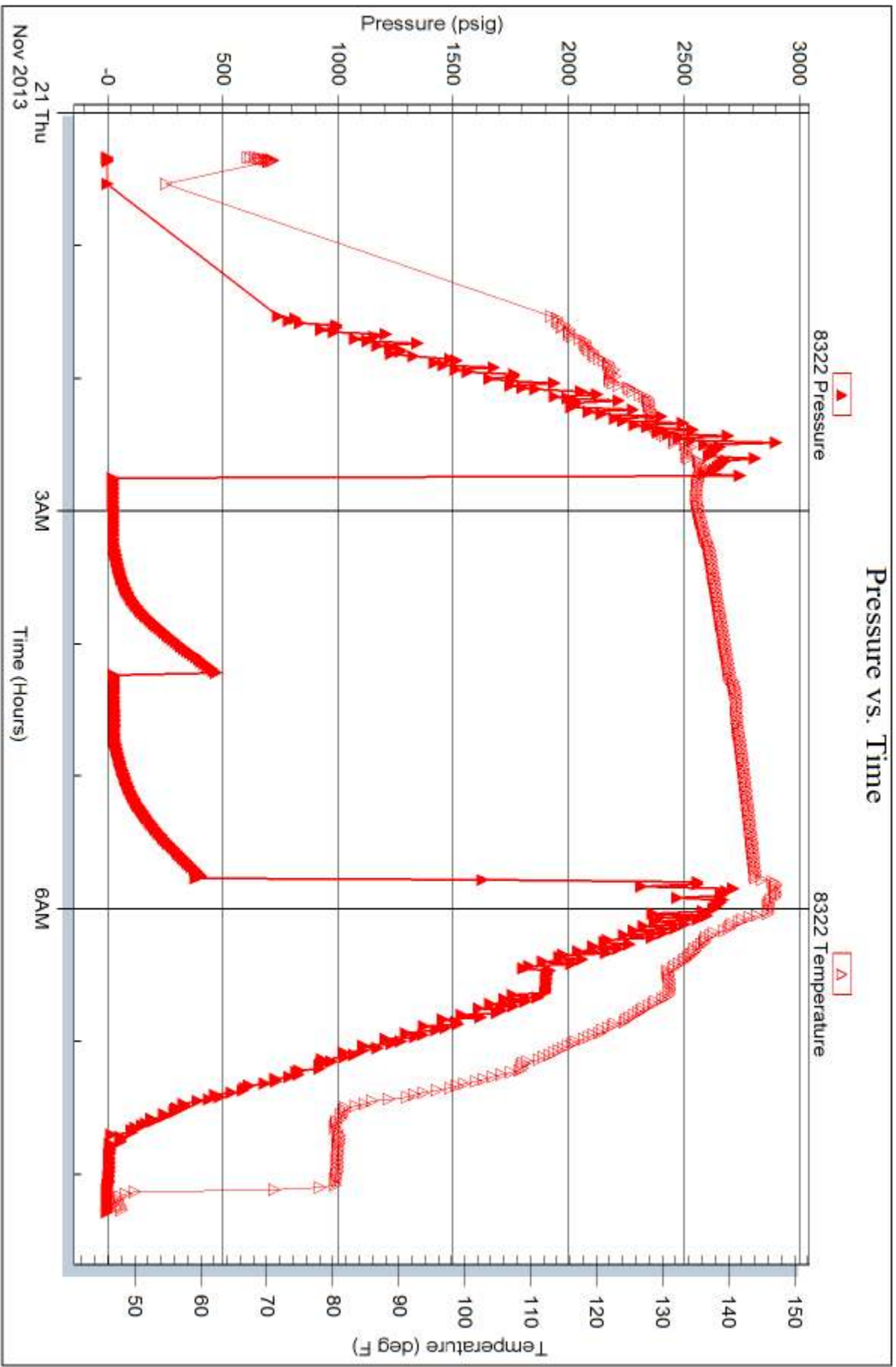


Serial #: 8322

Outside Murfin Drilling Company

Rate "A" #12-32

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55149

Well Name & No. Raile "A" #12-32 Test No. 1 Date 11/16/13
 Company Murfin Drilling Company Elevation 3682 KB 3669 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #14
 Location: Sec. 32 Twp. 25 Rge. 41W Co. Cheyene State KS

Interval Tested 4485 - 4560 Zone Tested LKC "A"
 Anchor Length 75' Drill Pipe Run 3932' Mud Wt. 9.0
 Top Packer Depth 4480 Drill Collars Run 559' Vis 65
 Bottom Packer Depth 4485 Wt. Pipe Run 0' WL 6.4
 Total Depth 4560 Chlorides 800 ppm System LCM 3

Blow Description IF - Surface blow built to 1/4"
ISI - No return
FF - No blow
FSI - No return

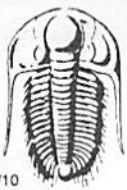
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2215 Test 1250 T-On Location 09:30
 (B) First Initial Flow 15 Jars 250 T-Started 11:46
 (C) First Final Flow 17 Safety Joint 75 T-Open 14:10
 (D) Initial Shut-In 609 Circ Sub NC T-Pulled 17:10
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 19:00
 (F) Second Final Flow 19 Mileage 166 RT 257.30 Comments _____
 (G) Final Shut-In 439 Sampler _____
 (H) Final Hydrostatic 2165 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2082.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2082.30

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55150**

Well Name & No. Raile "A" # 12-32 Test No. 2 Date 11/17/13
 Company Martin Drilling Company Elevation 3682 KB 3669 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifia Rig Martin # 14
 Location: Sec. 32 Twp. 25 Rge. 41W Co. Cheyene State KS

Interval Tested 4545 - 4620 Zone Tested LKC "D"
 Anchor Length 75' Drill Pipe Run 3965' Mud Wt. 9.1
 Top Packer Depth 4540 Drill Collars Run 559' Vis 62
 Bottom Packer Depth 4545 Wt. Pipe Run 0' WL 6.4
 Total Depth 4620 Chlorides 800 ppm System LCM 3

Blow Description IF - Surface blow built to 1/2"
ISI - No return
FF - No blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>CCM</u>		<u>10%</u>	<u>90%</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 5' BHT 1320 Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2266 Test 1250 T-On Location 03:15
 (B) First Initial Flow 16 Jars 250 T-Started 04:04
 (C) First Final Flow 18 Safety Joint 75 T-Open 06:34
 (D) Initial Shut-In 359 Circ Sub NC T-Pulled 09:34
 (E) Second Initial Flow 19 Hourly Standby X2 200 T-Out 15:08
 (F) Second Final Flow 21 Mileage 166 RT 257.30
 (G) Final Shut-In 208 Sampler
 (H) Final Hydrostatic 2197 Straddle Ruined Shale Packer
 Shale Packer 250 Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 60 Day Standby Total 2282.30
 Final Flow 30 Accessibility MP/DST Disc't
 Final Shut-In 60 Sub Total 2282.30

Approved By _____ Our Representative Ryan Z. [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. **55102**

Well Name & No. Raile "A" #12-32 Test No. 3 Date 11/18/13
 Company Murfin Drilling Company Elevation 3682 KB 3669 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Suman Sharifai Rig Murfin #14
 Location: Sec. 32 Twp. 25 Rge. 41W Co. Cheyenne State KS

Interval Tested 4709-4760 Zone Tested LKC "J"
 Anchor Length 51' Drill Pipe Run 4154' Mud Wt. 9.2
 Top Packer Depth 4704 Drill Collars Run 559' Vis 76
 Bottom Packer Depth 4709 Wt. Pipe Run 0' WL 6.0
 Total Depth 4760 Chlorides 1000 ppm System LCM 5

Blow Description IF - 1/4" blow built to BoB @ 21 mins
ISI - Surface blow started @ 1 min built to 1"
FF - Surface blow built to BoB @ 27 mins
FST - Surface blow built to 1/4" died back to surface blow @ 40

Rec	Feet of	%gas	%oil	%water	%mud
<u>190'</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>90'</u>	<u>60CM</u>	<u>20</u>	<u>30</u>	<u>50</u>	<u>50</u>
<u>90'</u>	<u>60CM</u>	<u>25</u>	<u>25</u>	<u>50</u>	<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 370' BHT 142° Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2366</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>04:30</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>05:14</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>07:56</u>
(D) Initial Shut-In <u>431</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>11:56</u>
(E) Second Initial Flow <u>101</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:08</u>
(F) Second Final Flow <u>168</u>	<input checked="" type="checkbox"/> Mileage <u>166 RT</u> 257.30	Comments
(G) Final Shut-In <u>415</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2165</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>2082.30</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2082.30</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55103**

Well Name & No. Kaile "A" #12-32 Test No. 4 Date 11/19/13
 Company Murfin Drilling Company Elevation 3682 KB 3669 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #14
 Location: Sec. 32 Twp. 25 Rge. 41W Co. Cheyenne State KS

Interval Tested 4781 - 4840 Zone Tested LKC "K & L"
 Anchor Length 59' Drill Pipe Run 4219' Mud Wt. 9.2
 Top Packer Depth 4776 Drill Collars Run 559' Vis 76
 Bottom Packer Depth 4781 Wt. Pipe Run 0' WL 6.0
 Total Depth 4840 Chlorides 1000 ppm System LCM 5
 Blow Description IF - 1/4" blow built to 2 1/2"
ISI - No return
FF - Surface blow started @ 3 mins built to 2"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MCO</u>	<u>85</u>		<u>15</u>	
<u>90</u>	<u>OCM</u>	<u>25</u>		<u>75</u>	

Rec Total 105' BHT 141° Gravity ✓ API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2360</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>00:00</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:15</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:53</u>
(D) Initial Shut-In <u>1327</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>06:53</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:12</u>
(F) Second Final Flow <u>69</u>	<input checked="" type="checkbox"/> Mileage <u>166 RT</u> 257.30	Comments
(G) Final Shut-In <u>1308</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2312</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>2082.30</u>
Final Flow <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>90</u>	Sub Total <u>2082.30</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55104

Well Name & No. Raile "A" #12-32 Test No. 5 Date 11/20/13
 Company Murfin Drilling Company Elevation 9682 KB 3669 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #14
 Location: Sec. 32 Twp. 2S Rge. 41W Co. Cheyenne State KS

Interval Tested 5198-5318 Zone Tested Marrow Sand
 Anchor Length 120' Drill Pipe Run 4632' Mud Wt. 9.2
 Top Packer Depth 5193 Drill Collars Run 559' Vis 69
 Bottom Packer Depth 5198 Wt. Pipe Run 0' WL 5.6
 Total Depth 5318 Chlorides 1000 ppm System LCM 3

Blow Description IF - 1/2" blow built to 1"
ISL - No return
FF - No blow
FSL - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 1460 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2731</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>23:30</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:20</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75 NC</u>	T-Open <u>02:44</u>
(D) Initial Shut-In <u>477</u>	<input checked="" type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>05:44</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>08:17</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>166 RT</u> 514.60	Comments <u>Loaded tools @</u>
(G) Final Shut-In <u>414</u>	<input type="checkbox"/> Sampler <u>—</u>	<u>11:30 on 11/22/13</u>
(H) Final Hydrostatic <u>2530</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>

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

Day Standby 1d 14.25h & 1d 3.25h
 Accessibility —
 Sub Total 2089.60

Sub Total 1275
 Total 3364.60
 MP/DST Disc't —

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.