



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tim Pierce

Allen #1-34

34-22s-12w Stafford,KS

Start Date: 2014.05.29 @ 19:40:00

End Date: 2014.05.30 @ 04:55:30

Job Ticket #: 58898 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.03 @ 14:37:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 58898

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.05.29 @ 19:40:00

GENERAL INFORMATION:

Formation: **LKC "B-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:30

Time Test Ended: 04:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 49

Interval: 3323.00 ft (KB) To 3395.00 ft (KB) (TVD)

Reference Elevations: 1847.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8898 Outside

Press@RunDepth: 52.00 psig @ 3328.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.29

End Date:

2014.05.30

Last Calib.:

2014.05.30

Start Time: 19:40:01

End Time:

04:55:30

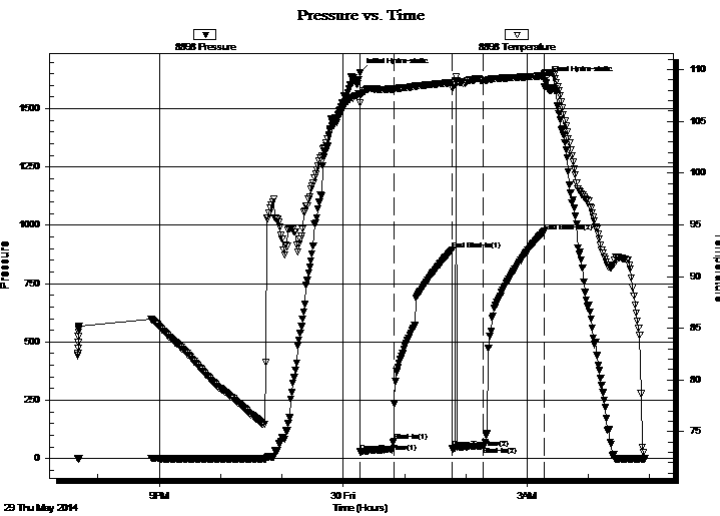
Time On Btm:

2014.05.30 @ 00:16:20

Time Off Btm:

2014.05.30 @ 03:17:39

TEST COMMENT: 30-IF-Built to 1 1/4", then would surge.
60-ISI-No Return
30-FF-No blow, Flushed at 01:50, few bubbles then died
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.80	107.65	Initial Hydro-static
1	28.93	106.78	Open To Flow (1)
34	73.47	108.12	Shut-In(1)
91	894.89	108.75	End Shut-In(1)
91	42.16	108.21	Open To Flow (2)
121	52.00	108.92	Shut-In(2)
181	973.90	109.40	End Shut-In(2)
182	1619.89	109.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M, 100% m, with oil spots	0.34

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tim Pierce

34-22s-12w Stafford,KS

Allen #1-34

Job Ticket: 58898

DST#: 1

Test Start: 2014.05.29 @ 19:40:00

GENERAL INFORMATION:

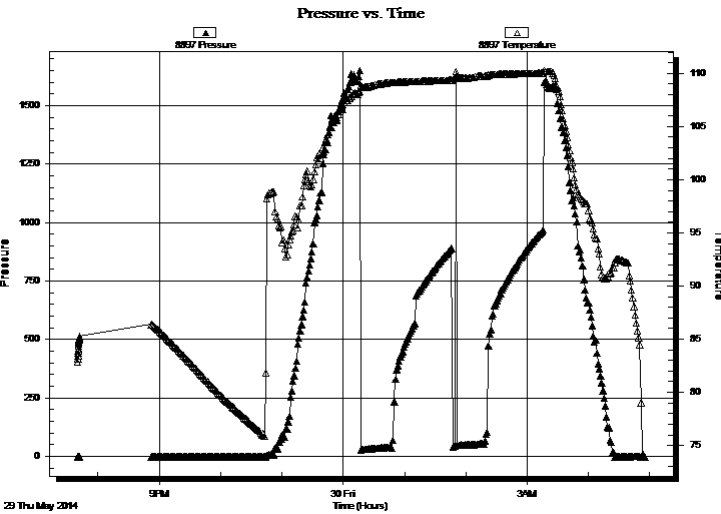
Formation: **LKC "B-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:16:30
 Time Test Ended: 04:55:30
 Interval: **3323.00 ft (KB) To 3395.00 ft (KB) (TVD)**
 Total Depth: 3395.00 ft (KB) (TVD)
 Hole Diameter: 8.75 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Phillip Gage
 Unit No: 49
 Reference Elevations: 1847.00 ft (KB)
 1836.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3328.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.29 End Date: 2014.05.30 Last Calib.: 2014.05.30
 Start Time: 19:40:01 End Time: 04:55:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Built to 1 1/4", then would surge.
 60-ISI-No Return
 30-FF-No blow, Flushed at 01:50, few bubbles then died
 60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M, 100% m, with oil spots	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 58898

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.05.29 @ 19:40:00

Tool Information

Drill Pipe:	Length: 3076.00 ft	Diameter: 3.80 inches	Volume: 43.15 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 44.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3323.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	92.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3308.00	
Hydraulic tool	5.00			3313.00	
Packer	5.00			3318.00	20.00 Bottom Of Top Packer
Packer	5.00			3323.00	
Stubb	1.00			3324.00	
Perforations	3.00			3327.00	
Change Over Sub	1.00			3328.00	
Recorder	0.00	8897	Inside	3328.00	
Recorder	0.00	8898	Outside	3328.00	
Drill Pipe	63.00			3391.00	
Change Over Sub	1.00			3392.00	
Bullnose	3.00			3395.00	72.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 58898

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.05.29 @ 19:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 15.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	M, 100% m, with oil spots	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

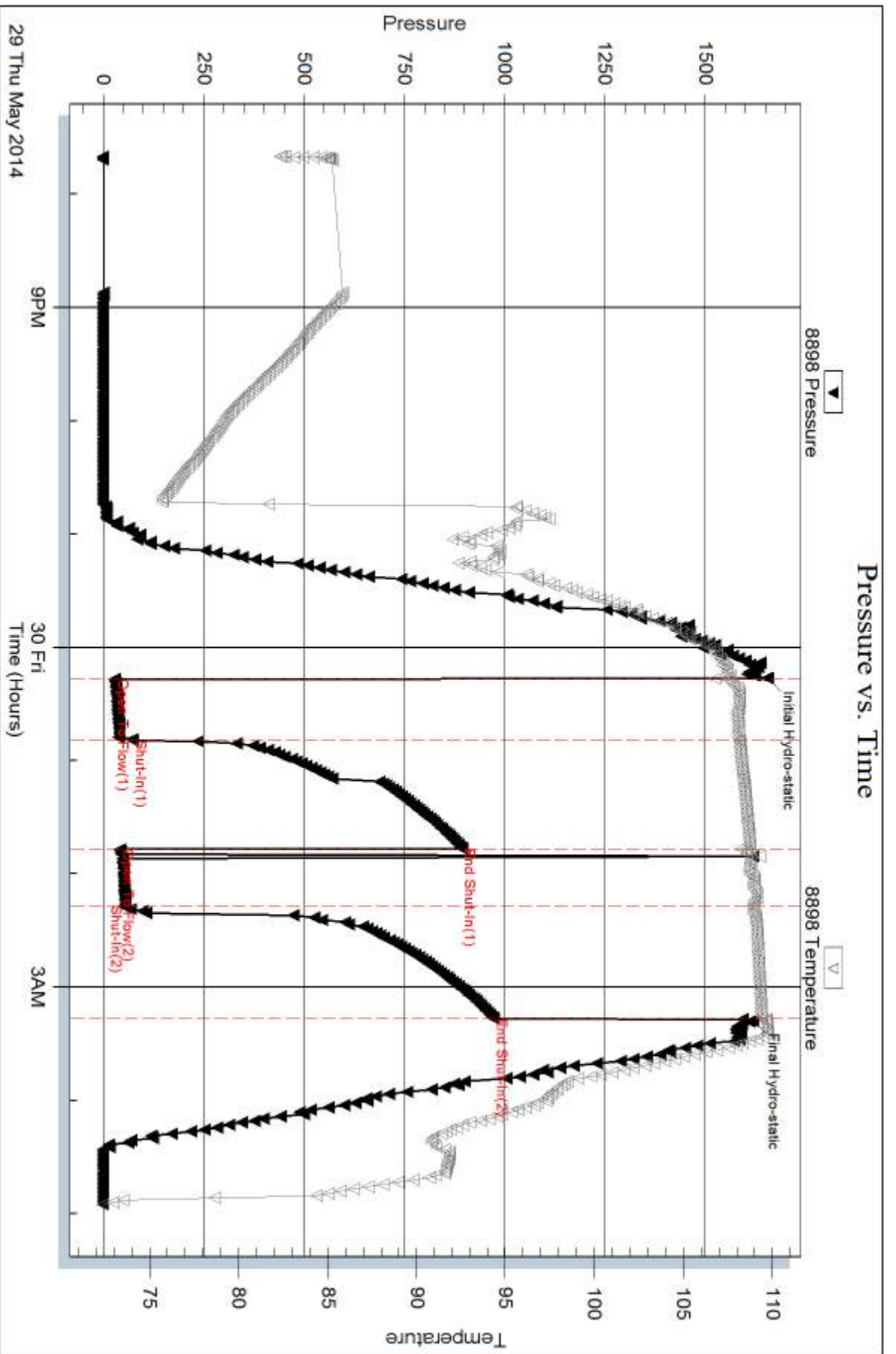
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



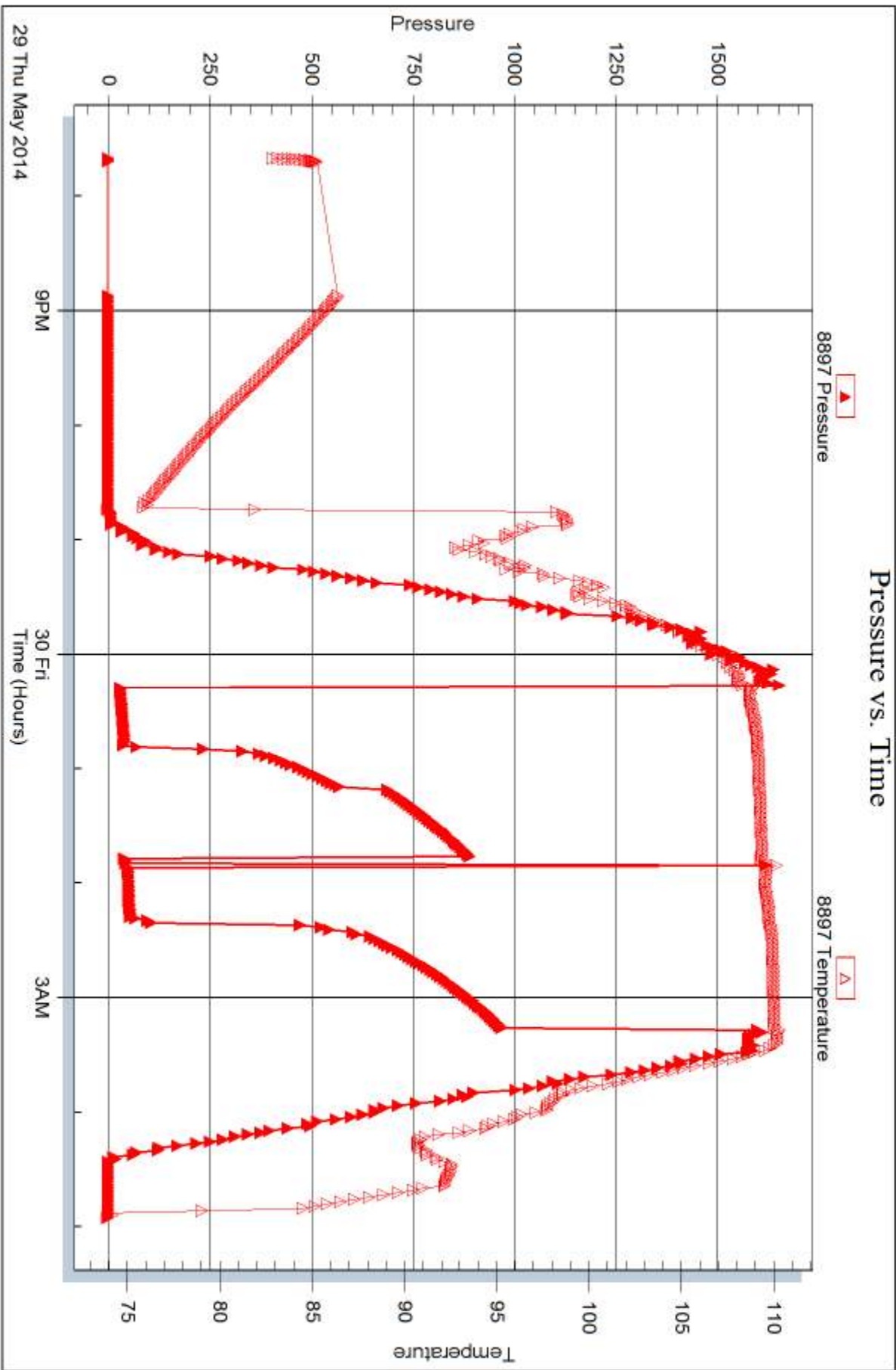
Serial #: 8897

Inside

Murfin Drilling Co, Inc.

Allen #1-34

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58898

Printed: 2014.06.03 @ 14:37:56



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tim Pierce

Allen #1-34

34-22s-12w Stafford,KS

Start Date: 2014.06.01 @ 04:34:19

End Date: 2014.06.01 @ 09:25:19

Job Ticket #: 54217 DST #: 2

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

Printed: 2014.06.03 @ 14:37:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.
 250 N Water Ste 300
 Wichita, KS 67202
 ATTN: Tim Pierce

34-22s-12w Stafford,KS

Allen #1-34

Job Ticket: 54217

DST#: 2

Test Start: 2014.06.01 @ 04:34:19

GENERAL INFORMATION:

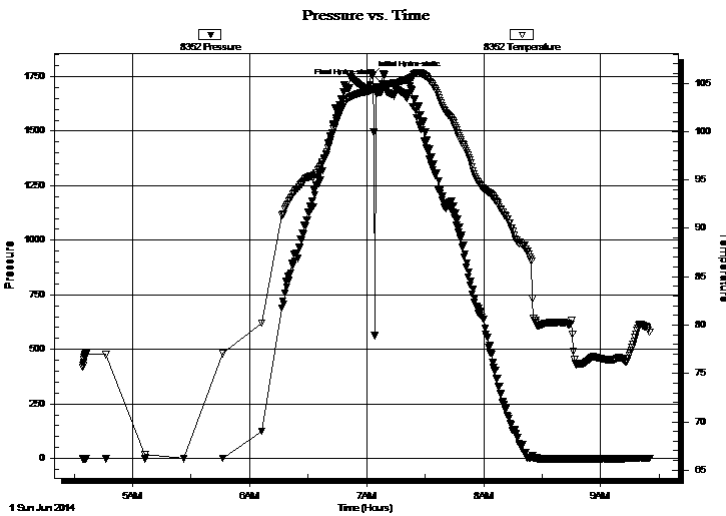
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 09:25:19
 Interval: **3534.00 ft (KB) To 3716.00 ft (KB) (TVD)**
 Total Depth: 3716.00 ft (KB) (TVD)
 Hole Diameter: 8.75 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1847.00 ft (KB)
 1836.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352

Outside

Press@RunDepth: psig @ 3535.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.01 End Date: 2014.06.01 Last Calib.: 2014.06.01
 Start Time: 04:34:24 End Time: 09:25:18 Time On Btm: 2014.06.01 @ 07:02:49
 Time Off Btm: 2014.06.01 @ 07:08:04

TEST COMMENT: IF: Strong blow. Packers failed. Picked up & re-set tool using more string w eight.
 Packers failed. Misrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.26	104.36	Initial Hydro-static
6	1716.10	104.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Drig. mud.	3.42

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54217

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 04:34:19

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 09:25:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: **3534.00 ft (KB) To 3716.00 ft (KB) (TVD)**

Reference Elevations: 1847.00 ft (KB)

Total Depth: 3716.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 8.75 inchesHole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: **8370** Inside

Press@RunDepth: psig @ 3535.00 ft (KB)

Start Date: 2014.06.01

End Date:

2014.06.01

Start Time: 04:29:37

End Time:

09:22:01

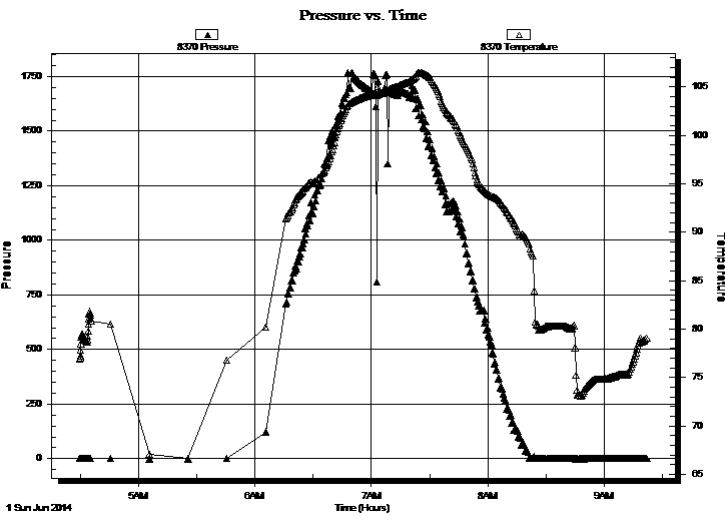
Capacity: 8000.00 psig

Last Calib.: 2014.06.01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong blow . Packers failed. Picked up & re-set tool using more string w eight.
Packers failed. Misrun.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Drig. mud.	3.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54217

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 04:34:19

Tool Information

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 47.51 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3534.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	182.00 ft			
Tool Length:	202.00 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			3515.00	
Shut In Tool	5.00			3520.00	
Hydraulic tool	5.00			3525.00	
Packer	4.00			3529.00	20.00 Bottom Of Top Packer
Packer	5.00			3534.00	
Stubb	1.00			3535.00	
Recorder	0.00	8352	Outside	3535.00	
Recorder	0.00	8370	Inside	3535.00	
Perforations	13.00			3548.00	
Blank Spacing	158.00			3706.00	
Perforations	5.00			3711.00	
Bullnose	5.00			3716.00	182.00 Bottom Packers & Anchor

Total Tool Length: 202.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54217

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 04:34:19

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 19000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	Drig. mud.	3.425

Total Length: 400.00 ft Total Volume: 3.425 bbl

Num Fluid Samples: 0

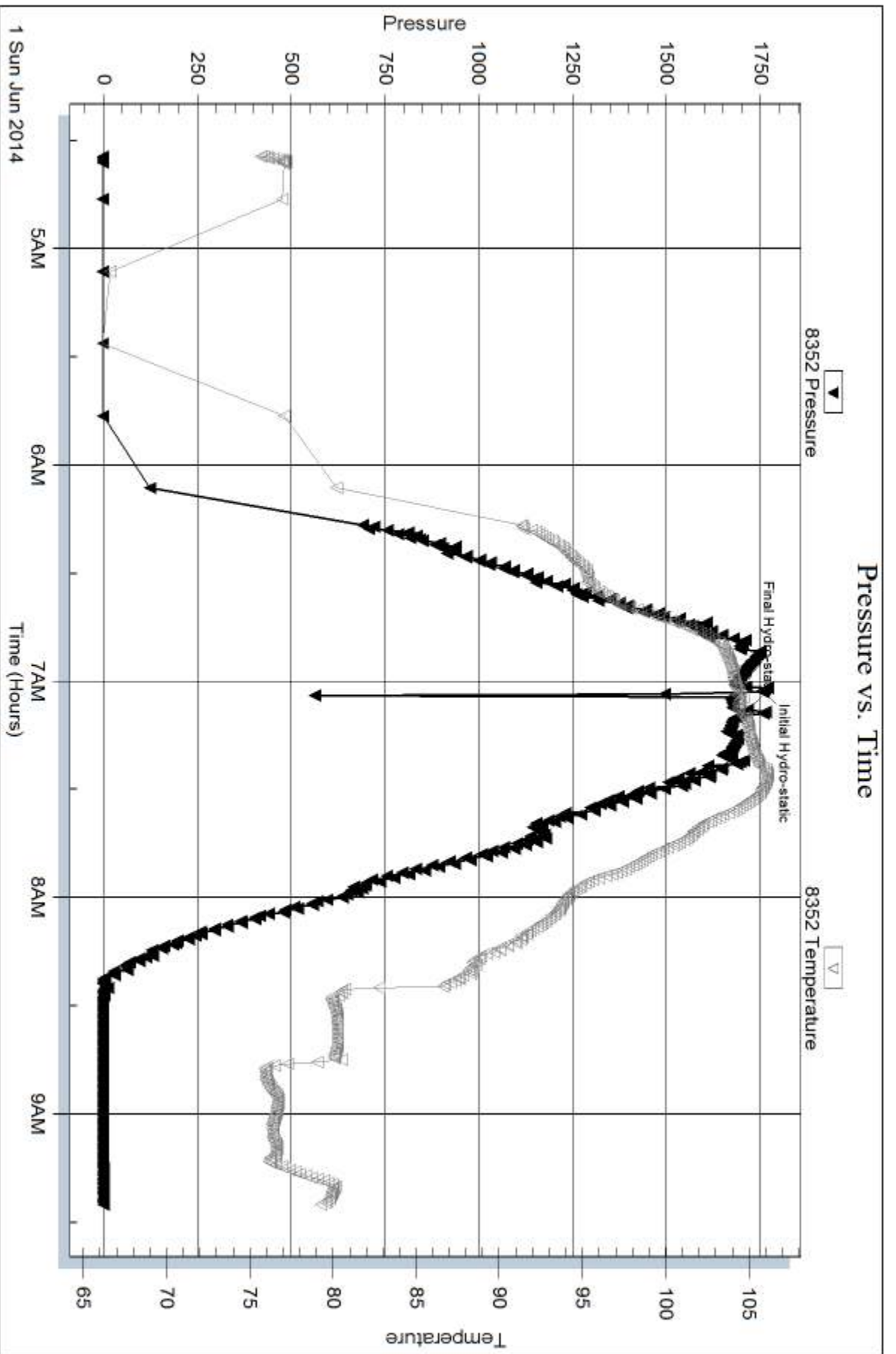
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



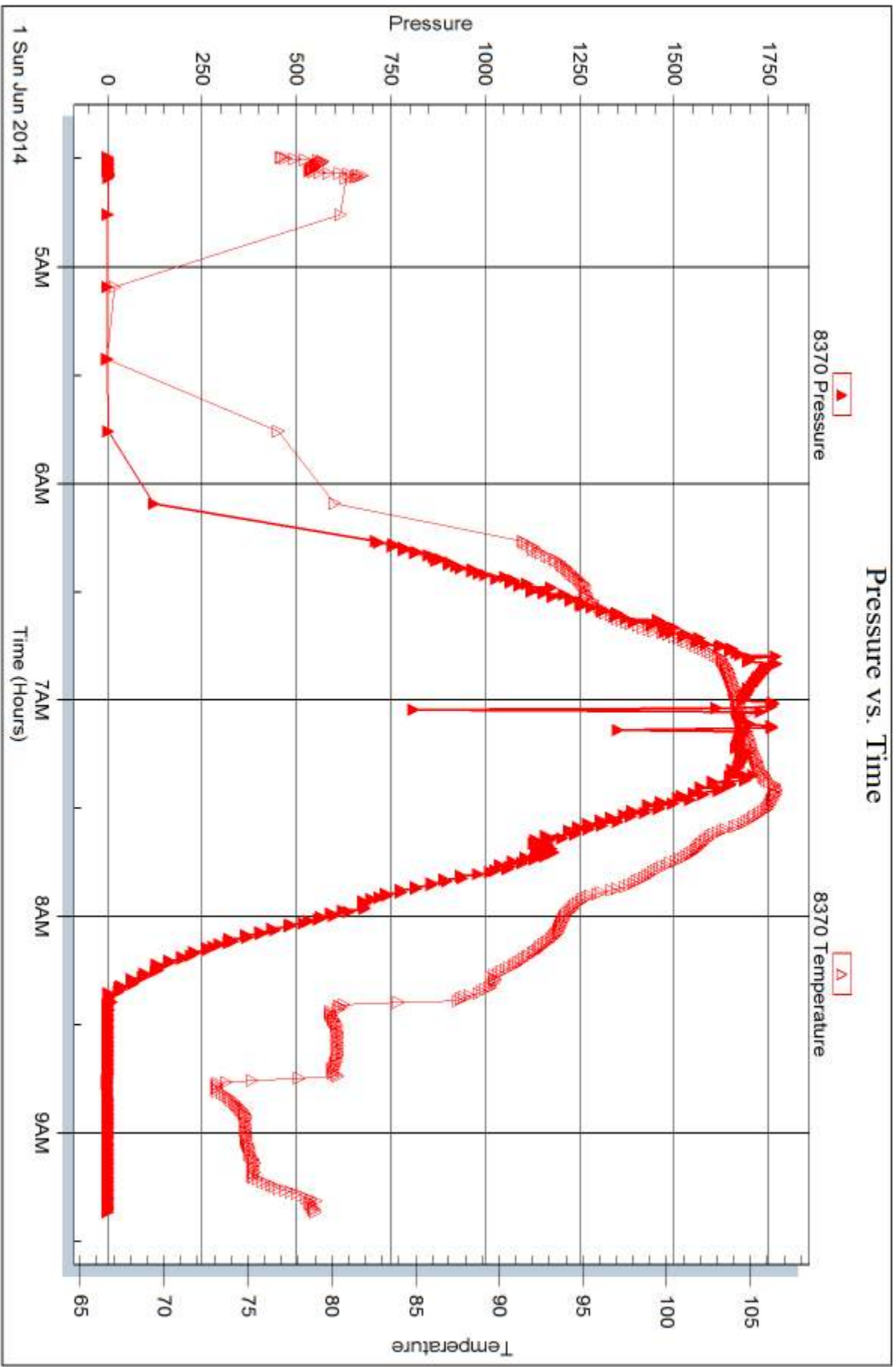
Serial #: 8370

Inside

Murfin Drilling Co, Inc.

Allen #1-34

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co, Inc.**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tim Pierce

Allen #1-34

34-22s-12w Stafford,KS

Start Date: 2014.06.01 @ 09:50:57

End Date: 2014.06.01 @ 18:10:57

Job Ticket #: 54218 DST #: 3

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

Printed: 2014.06.03 @ 14:37:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54218

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 09:50:57

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:43:57

Time Test Ended: 18:10:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3530.00 ft (KB) To 3716.00 ft (KB) (TVD)

Reference Elevations: 1847.00 ft (KB)

Total Depth: 3716.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press@RunDepth: 231.94 psig @ 3531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.01

End Date:

2014.06.01

Last Calib.:

2014.06.01

Start Time: 09:51:02

End Time:

18:10:56

Time On Btm:

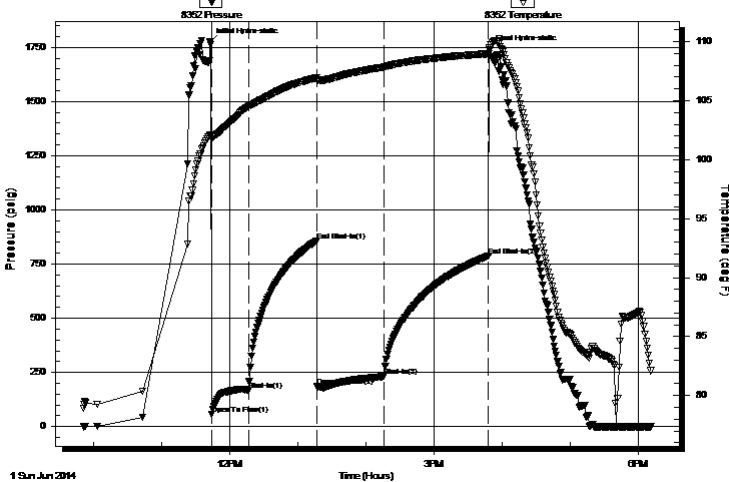
2014.06.01 @ 11:42:27

Time Off Btm:

2014.06.01 @ 15:48:57

TEST COMMENT: IF:Strong blow . B.O.B. in 14 mins.
IS:Weak blow . 3/4 - 1".
FF:Strong blow . B.O.B. in 13 mins.
FS:Fair blow . Increase to 11".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.50	102.03	Initial Hydro-static
2	56.73	101.90	Open To Flow (1)
34	167.97	104.52	Shut-In(1)
94	857.37	106.95	End Shut-In(1)
95	185.27	106.74	Open To Flow (2)
154	231.94	107.85	Shut-In(2)
246	787.86	108.97	End Shut-In(2)
247	1737.86	109.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GOCM 32%g 21%o 47%m	1.18
125.00	GOCM 34%g 30%o 36%m	1.75
100.00	CGO 21%g 79%o	1.40
0.00	860 ft. of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54218

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 09:50:57

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:43:57

Time Test Ended: 18:10:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 3530.00 ft (KB) To 3716.00 ft (KB) (TVD)

Reference Elevations: 1847.00 ft (KB)

Total Depth: 3716.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8370 Inside

Press@RunDepth: psig @ 3531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.01

End Date:

2014.06.01

Last Calib.:

2014.06.01

Start Time: 09:46:30

End Time:

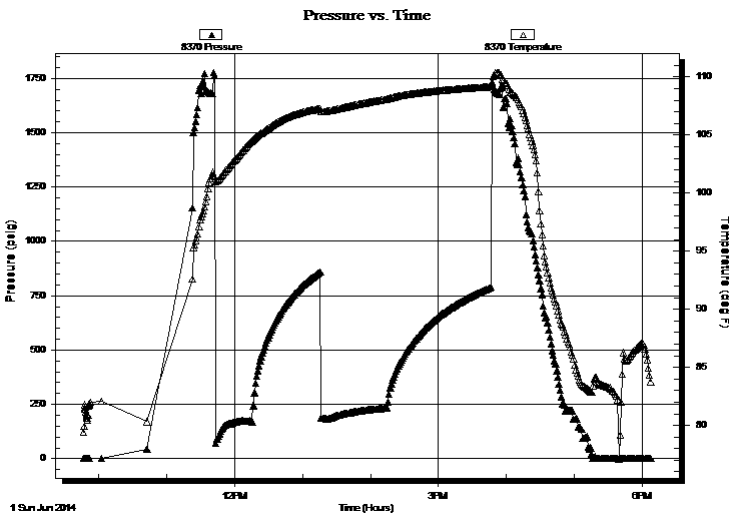
18:07:54

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 14 mins.
IS: Weak blow . 3/4 - 1".
FF: Strong blow . B.O.B. in 13 mins.
FS: Fair blow . Increase to 11".

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GOCM 32%g 21%o 47%m	1.18
125.00	GOCM 34%g 30%o 36%m	1.75
100.00	CGO 21%g 79%o	1.40
0.00	860 ft. of 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 Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54218

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 09:50:57

Tool Information

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 47.51 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3530.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	186.00 ft			
Tool Length:	206.00 ft			
Number of Packers:	2	Diameter: 8.00 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3511.00	
Shut In Tool	5.00			3516.00	
Hydraulic tool	5.00			3521.00	
Packer	4.00			3525.00	20.00 Bottom Of Top Packer
Packer	5.00			3530.00	
Stubb	1.00			3531.00	
Recorder	0.00	8352	Outside	3531.00	
Recorder	0.00	8370	Inside	3531.00	
Perforations	13.00			3544.00	
Blank Spacing	158.00			3702.00	
Perforations	9.00			3711.00	
Bullnose	5.00			3716.00	186.00 Bottom Packers & Anchor

Total Tool Length: 206.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co, Inc.

34-22s-12w Stafford,KS

250 N Water Ste 300
Wichita, KS 67202

Allen #1-34

Job Ticket: 54218

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.06.01 @ 09:50:57

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 12.77 in³
Resistivity: 0.00 ohm.m
Salinity: 19000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 29.7 deg API
Water Salinity: 19000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GOCM 32%g 21%o 47%m	1.180
125.00	GOCM 34%g 30%o 36%m	1.753
100.00	CGO 21%g 79%o	1.403
0.00	860 ft. of GIP	0.000

Total Length: 465.00 ft Total Volume: 4.336 bbl

Num Fluid Samples: 0

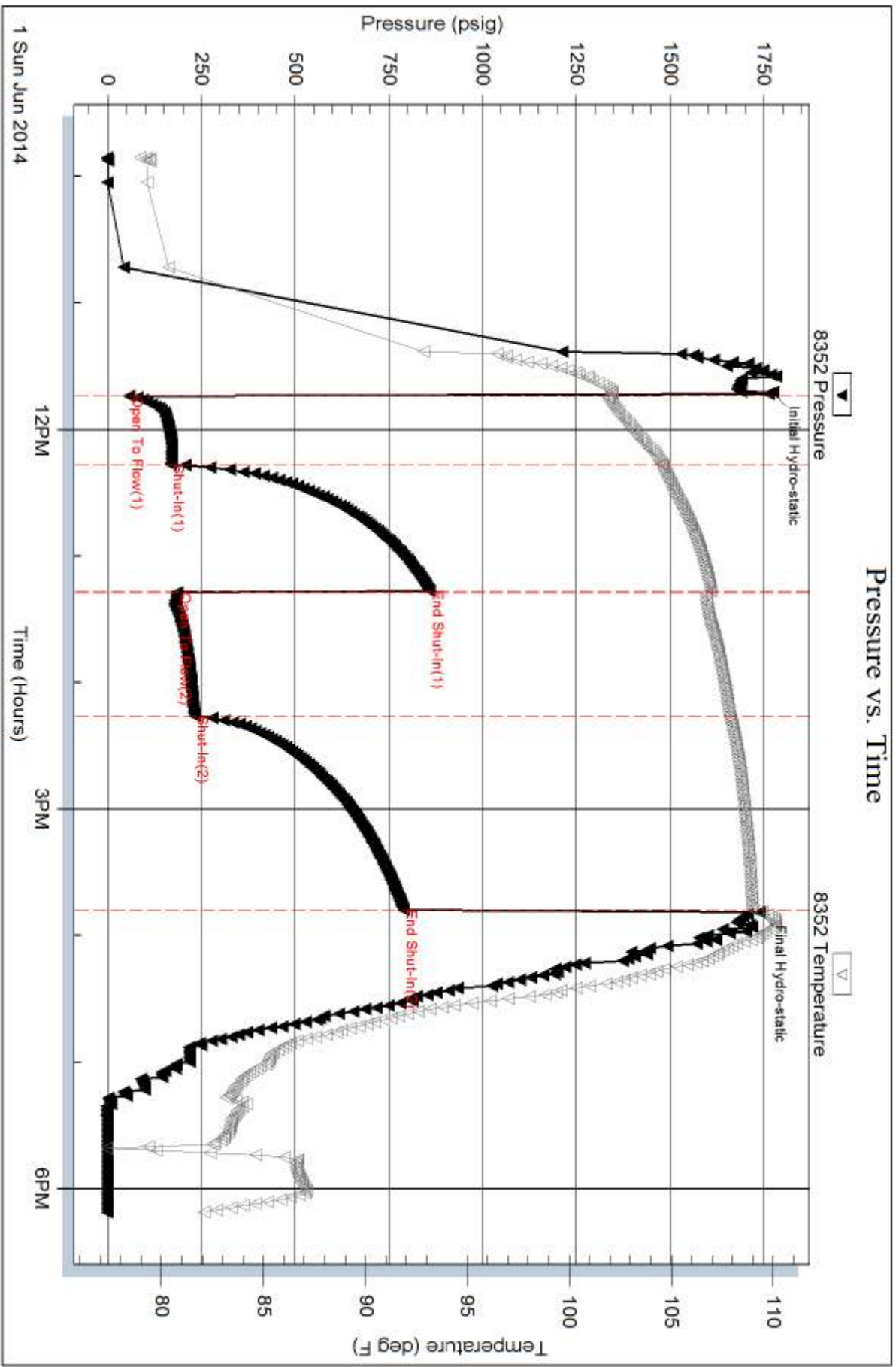
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



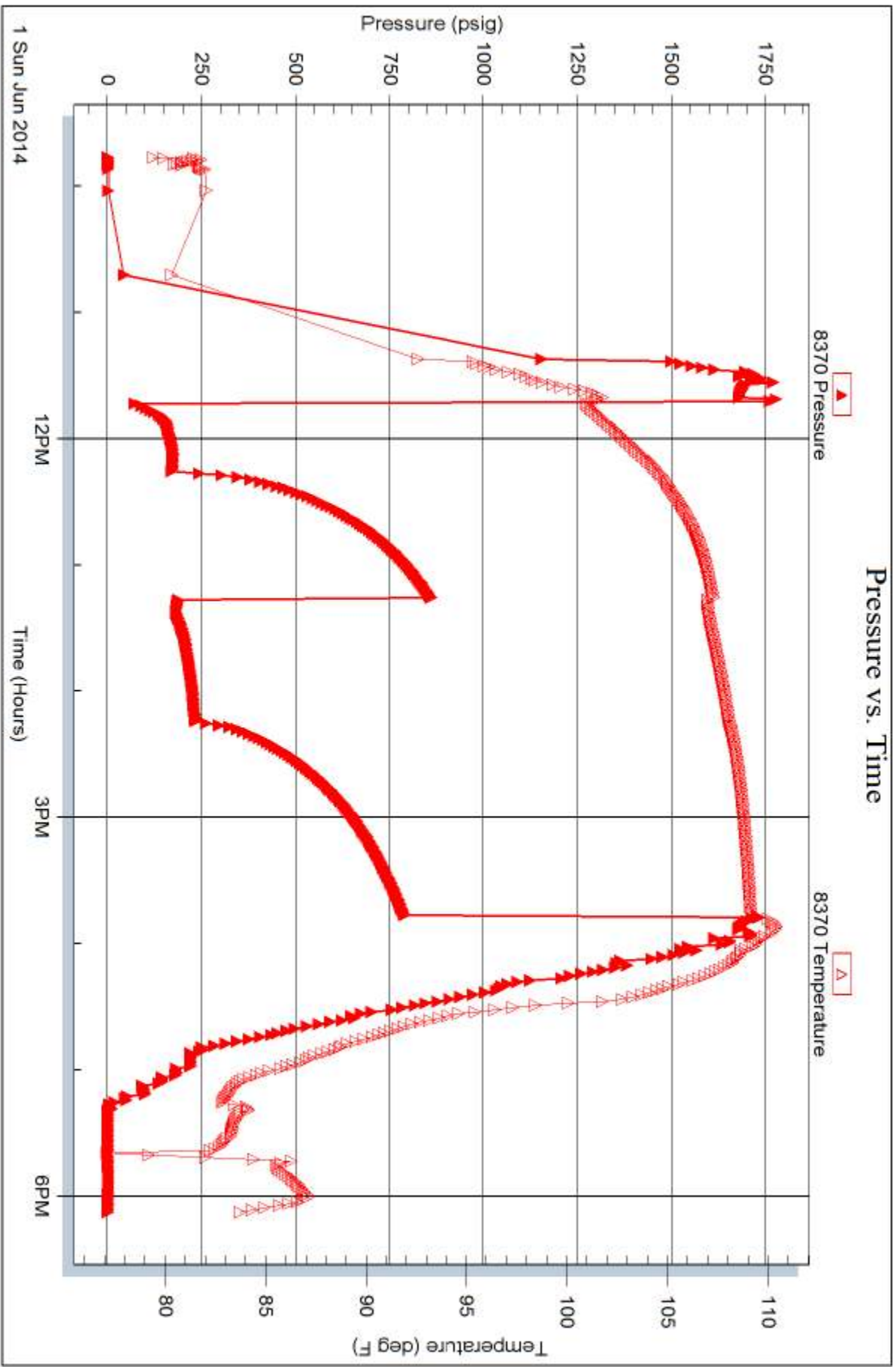
Serial #: 8370

Inside

Murfin Drilling Co, Inc.

Allen #1-34

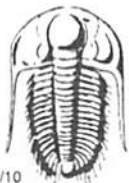
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54218

Printed: 2014.06.03 @ 14:37:01



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58898

Well Name & No. Allen #1-34 Test No. 1 Date 5-29-14
 Company Martin Drilling Co Inc Elevation 1847 KB ~~1847~~ 1836
 Address 250 N Water Stc 300 Wichita, KS 67202
 Co. Rep / Geo. Tim Pierce Rig Martin 21
 Location: Sec. 34 Twp. 22s Rge. 12w Co. Stafford State KS

Interval Tested 3323-3395 Zone Tested LKC "B-F"
 Anchor Length 72' Drill Pipe Run 3076 Mud Wt. 9.6
 Top Packer Depth 3318 Drill Collars Run 240 Vis 48
 Bottom Packer Depth 3323 Wt. Pipe Run 0 WL 16
 Total Depth 3395 Chlorides 12,100 ppm System LCM 1

Blow Description IF- Built to 1 1/4", then surged
IST- No Return.
FF- No blow, Flushed @ 01:50, few bubbles then died.
FSI- No Return.

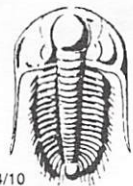
Rec	Feet of	%gas	%oil	%water	%mud
<u>70'</u>	<u>M, with oil spots</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70' BHT 109 Gravity — API RW @ °F Chlorides — ppm

(A) Initial Hydrostatic 1655 Test 1150 T-On Location 18:13
 (B) First Initial Flow 28 Jars _____ T-Started 19:40
 (C) First Final Flow 73 Safety Joint _____ T-Open 00:17
 (D) Initial Shut-In 894 Circ Sub _____ T-Pulled 03:17
 (E) Second Initial Flow 42 Hourly Standby .25h 25 T-Out 04:56
 (F) Second Final Flow 52 Mileage 176 RT 111.60 Comments _____
 (G) Final Shut-In 973 Sampler _____
 (H) Final Hydrostatic 1619 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 1286.60
 Final Flow 30 MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1286.60

Approved By _____ Our Representative Phil Long Thank You
 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. 54217

4/10

Well Name & No. ALLEN # 1-34 Test No. 2 Date 6-1-14
 Company MURFIN DRUG. Co. Inc. Elevation 1847 KB 1836 GL
 Address 250 N. WATER, STE. 300, WICHITA Ks. 67202
 Co. Rep / Geo. TIM PIERRE Rig MURFIN DRUG #21
 Location: Sec. 34 Twp. 22^s Rge. 12^w Co. Stafford State Ks.

Interval Tested 3534 - 3716' Zone Tested VIOLA
 Anchor Length 182' Drill Pipe Run 3303' Mud Wt. 9.1
 Top Packer Depth 3529' Drill Collars Run 240' Vis 45
 Bottom Packer Depth 3534' Wt. Pipe Run 0 WL 12.8 cc
 Total Depth 3716' Chlorides 19,000 ppm System LCM 1/2⁺

Blow Description IF: Strong blow Packers failed. Picked up & re-set tool using more string weight. Packers - failed. MISRUN

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>Drilg. Mud.</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 400 BHT _____ Gravity N/A API RW NK @ _____ F Chlorides 19,000 ppm

(A) Initial Hydrostatic 1756 Test Misrun 950 T-On Location 0317
 (B) First Initial Flow _____ Jars _____ T-Started 04
 (C) First Final Flow _____ Safety Joint _____ T-Open 0709
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 0715
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 0925
 (F) Second Final Flow _____ Mileage 72 111.60 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1716 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In _____ Day Standby _____ Total 1311.60
 Final Flow _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1311.60

Approved By _____ Our Representative Gay Watney
 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. 54218

Well Name & No. ALLEN # 1-34 Test No. 3 Date 6-1-14
 Company MURFIN DRUG CO. INC. Elevation 1847 KB 1836 GL
 Address 250 N. WATER, STE. 300, WICHITA KS. 67202
 Co. Rep / Geo. TIM PRITCE Rig MURFIN DRUG #21
 Location: Sec. 34 Twp. 22S Rge. 12W Co. STAFFORD State KS.

Interval Tested 3530 - 3716' Zone Tested UZOLA
 Anchor Length 186' Drill Pipe Run 3303 Mud Wt. 9.1
 Top Packer Depth 3525' Drill Collars Run 240 Vis 45
 Bottom Packer Depth 3530' Wt. Pipe Run 0 WL 12.8 cc
 Total Depth 3716' Chlorides 19,000 ppm System LCM 1/2"

Blow Description IF: Strong blow. B.O.B. in 14 mins. IST: Weak below 3/4 - 1"
FF: Strong blow. B.O.B. in 13 mins. FSI: Fair below. Increase to 11"

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>CGO</u>	<u>21</u>	<u>79</u>		
<u>125</u>	<u>GOCM</u>	<u>34</u>	<u>30</u>	<u>36</u>	
<u>240</u>	<u>GOCM</u>	<u>32</u>	<u>21</u>	<u>47</u>	
	<u>860 FT OF GIP</u>				

Rec Total 465 Fluid BHT 112° Gravity 29.7 API RW NC @ — °F Chlorides 19,000 ppm

(A) Initial Hydrostatic 1774 Test 1150 T-On Location N/A
 (B) First Initial Flow 57 Jars _____ T-Started 0950
 (C) First Final Flow 168 Safety Joint _____ T-Open 1143
 (D) Initial Shut-In 857 Circ Sub _____ T-Pulled 1546
 (E) Second Initial Flow 185 Hourly Standby _____ T-Out 1810
 (F) Second Final Flow 232 Mileage _____
 (G) Final Shut-In 788 Sampler _____
 (H) Final Hydrostatic 1738 Straddle _____

Comments Paul took packers out 111.60

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 60 Extra Packer _____
 Final Shut-In 90 Extra Recorder _____
 Day Standby 500 Sub Total 0
 8.75" Hole / Non STANDARD MP/DST Diss't _____
 Sub Total 1650 Hole Total 1761.60

Approved By Tim Pritce Our Representative Gary Swoboda

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