



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.10 @ 19:00:00

End Date: 2014.01.11 @ 03:57:10

Job Ticket #: 55117 DST #: 1

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

Printed: 2014.01.21 @ 14:58:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55117

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.01.10 @ 19:00:00

GENERAL INFORMATION:

Formation: **Neva**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:00
 Time Test Ended: 03:57:10
 Interval: **3548.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 58
 Reference Elevations: 3252.00 ft (KB)
 3247.00 ft (CF)
 KB to GR/CF: 5.00 ft

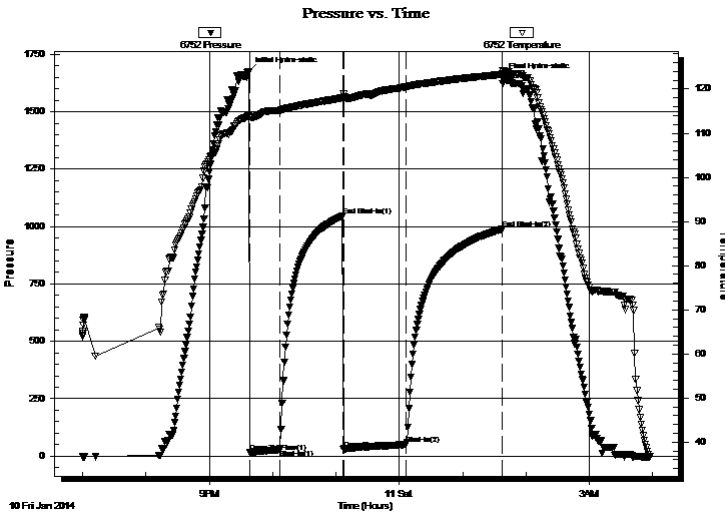
Serial #: 6752

Inside

Press@RunDepth: 50.98 psig @ 3549.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.10 End Date: 2014.01.11 Last Calib.: 2014.01.11
 Start Time: 19:00:01 End Time: 03:57:10 Time On Btm: 2014.01.10 @ 21:37:00
 Time Off Btm: 2014.01.11 @ 01:37:30

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.00	113.93	Initial Hydro-static
1	15.53	113.74	Open To Flow (1)
30	32.22	115.14	Shut-In(1)
89	1045.12	117.99	End Shut-In(1)
90	31.11	118.85	Open To Flow (2)
149	50.98	120.48	Shut-In(2)
241	988.33	123.30	End Shut-In(2)
241	1646.82	123.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w / oil spots	0.32

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

5-2s-36w Rawlins KS

Kacirek Trust #1-5

Job Ticket: 55117

DST#: 1

Test Start: 2014.01.10 @ 19:00:00

GENERAL INFORMATION:

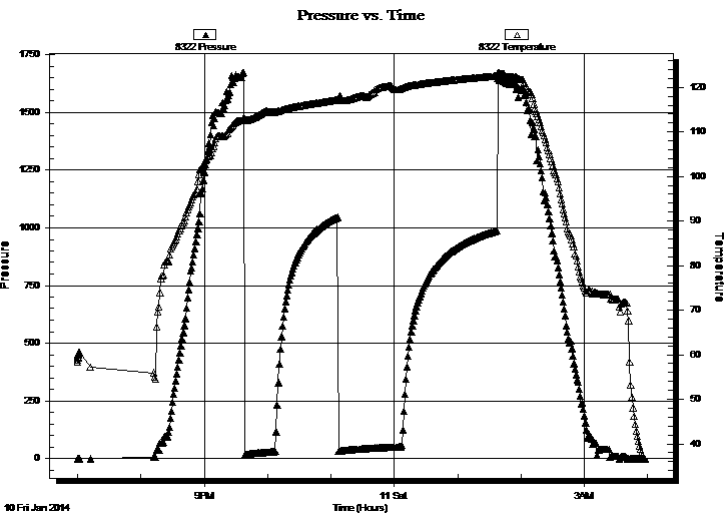
Formation: **Neva**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:00
 Time Test Ended: 03:57:10
 Interval: **3548.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 58
 Reference Elevations: 3252.00 ft (KB)
 3247.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3549.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.10 End Date: 2014.01.11 Last Calib.: 2014.01.11
 Start Time: 19:00:01 End Time: 03:57:10 Time On Btm:
 Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w / oil spots	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55117

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.01.10 @ 19:00:00

Tool Information

Drill Pipe:	Length: 3347.00 ft	Diameter: 3.80 inches	Volume: 46.95 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	44000.00 lb
			<u>Total Volume: 47.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3548.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	102.00 ft				
Tool Length:	129.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3522.00	
Shut In Tool	5.00			3527.00	
Hydraulic tool	5.00			3532.00	
Jars	5.00			3537.00	
Safety Joint	2.00			3539.00	
Packer	5.00			3544.00	27.00 Bottom Of Top Packer
Packer	4.00			3548.00	
Packer - Shale	0.00			3548.00	
Stubb	1.00			3549.00	
Recorder	0.00	6752	Inside	3549.00	
Recorder	0.00	8322	Outside	3549.00	
Perforations	33.00			3582.00	
Blank Spacing	65.00			3647.00	
Bullnose	3.00			3650.00	102.00 Bottom Packers & Anchor

Total Tool Length: 129.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55117

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.01.10 @ 19:00:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud w / oil spots	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

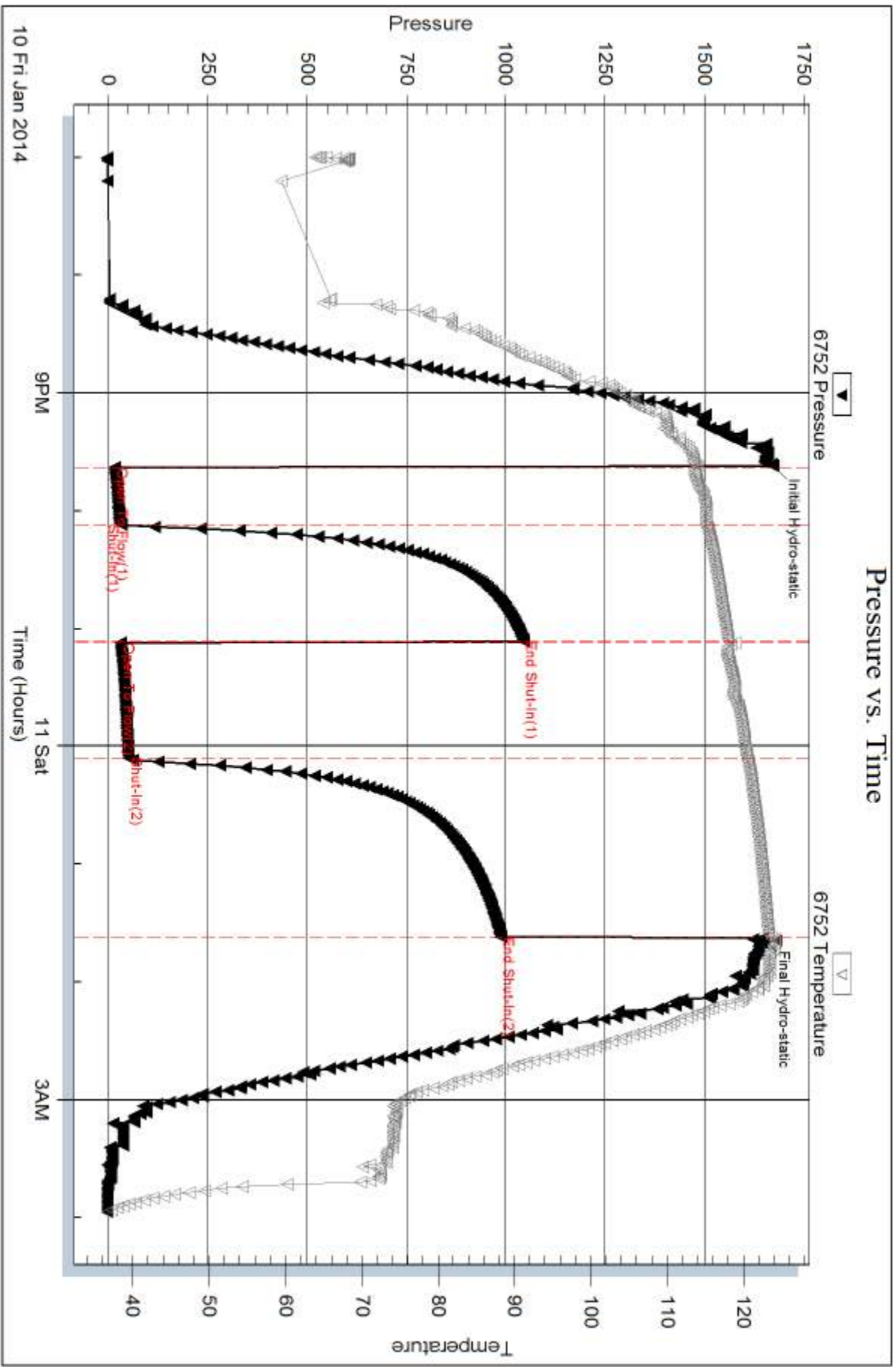
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

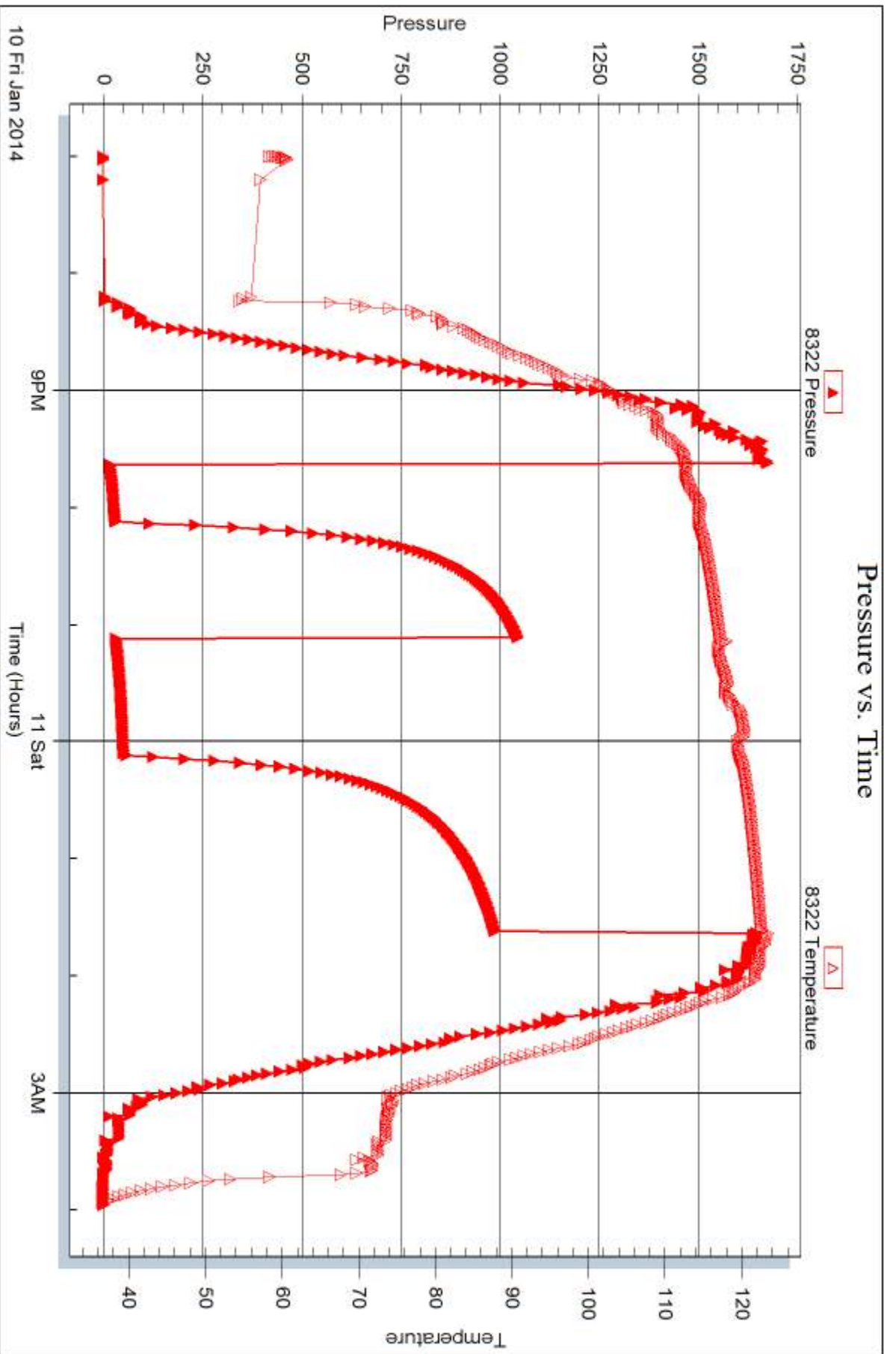


Serial #: 8322

Outside Murfin Drilling Company

Kacirek Trust #1-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55117

Printed: 2014.01.21 @ 14:58:31



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.11 @ 22:49:00

End Date: 2014.01.12 @ 08:34:30

Job Ticket #: 55118 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.21 @ 14:58:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55118

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.01.11 @ 22:49:00

GENERAL INFORMATION:

Formation: **Foreaker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:00

Time Test Ended: 08:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 3912.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 45.28 psig @ 3913.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.11

End Date:

2014.01.12

Last Calib.:

2014.01.12

Start Time: 22:49:01

End Time:

08:34:30

Time On Btm:

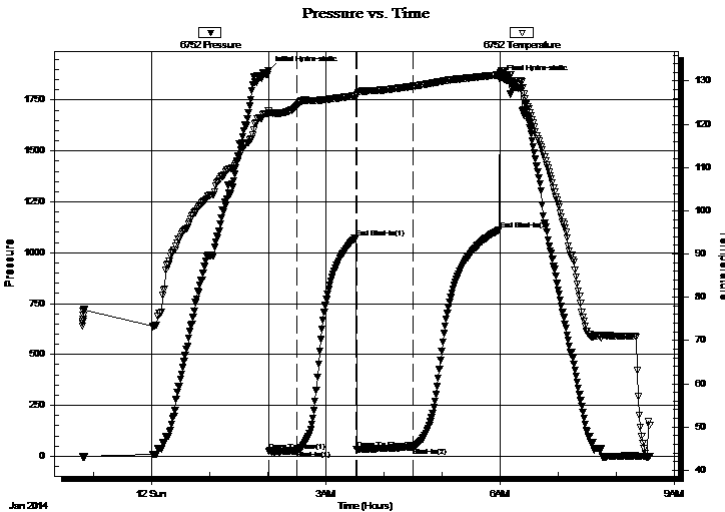
2014.01.12 @ 02:00:50

Time Off Btm:

2014.01.12 @ 05:59:50

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.79	123.06	Initial Hydro-static
1	22.73	122.73	Open To Flow (1)
30	26.63	124.22	Shut-In(1)
91	1073.32	126.66	End Shut-In(1)
91	33.59	126.70	Open To Flow (2)
150	45.28	128.83	Shut-In(2)
239	1113.33	131.46	End Shut-In(2)
240	1850.48	131.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM - 10%o - 90%M	0.27
15.00	HO - 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

ATTN: Charles Schmaltz

Job Ticket: 55118

DST#: 2

Test Start: 2014.01.11 @ 22:49:00

GENERAL INFORMATION:

Formation: **Foreaker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:00

Time Test Ended: 08:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 3912.00 ft (KB) To 3950.00 ft (KB) (TVD)

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3252.00 ft (KB)

3247.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3913.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.11 End Date: 2014.01.12

Last Calib.: 2014.01.12

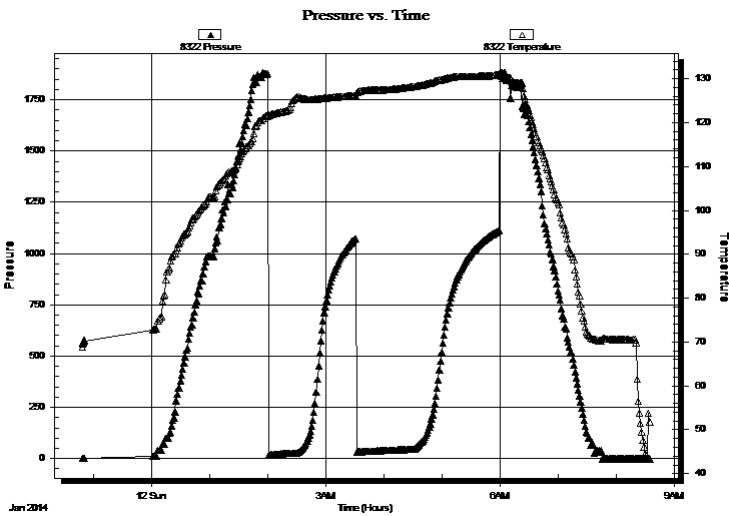
Start Time: 22:49:01 End Time: 08:34:30

Time On Btm:

Time Off Btm:

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

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM - 10%o - 90%M	0.27
15.00	HO - 100%o	0.07

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55118

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.01.11 @ 22:49:00

Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.80 inches	Volume: 52.24 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 53.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3912.00 ft			Final 45000.00 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			3886.00	
Shut In Tool	5.00			3891.00	
Hydraulic tool	5.00			3896.00	
Jars	5.00			3901.00	
Safety Joint	2.00			3903.00	
Packer	5.00			3908.00	27.00 Bottom Of Top Packer
Packer	4.00			3912.00	
Packer - Shale	0.00			3912.00	
Stubb	1.00			3913.00	
Recorder	0.00	6752	Inside	3913.00	
Recorder	0.00	8322	Outside	3913.00	
Perforations	34.00			3947.00	
Bullnose	3.00			3950.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55118

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.01.11 @ 22:49:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.38 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 18.8 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM - 10%o - 90%M	0.270
15.00	HO - 100%o	0.074

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

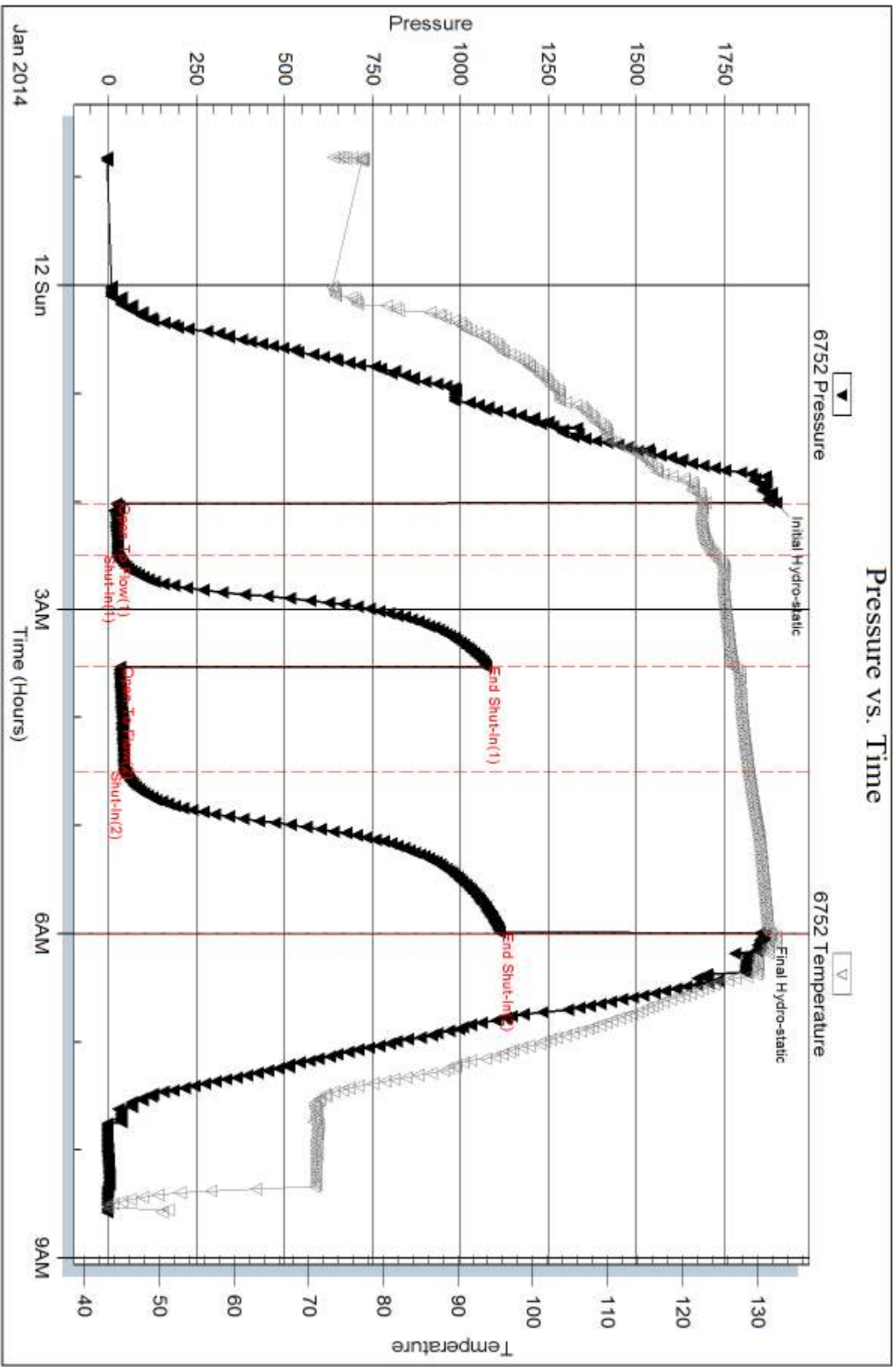
Num Gas Bombs: 0

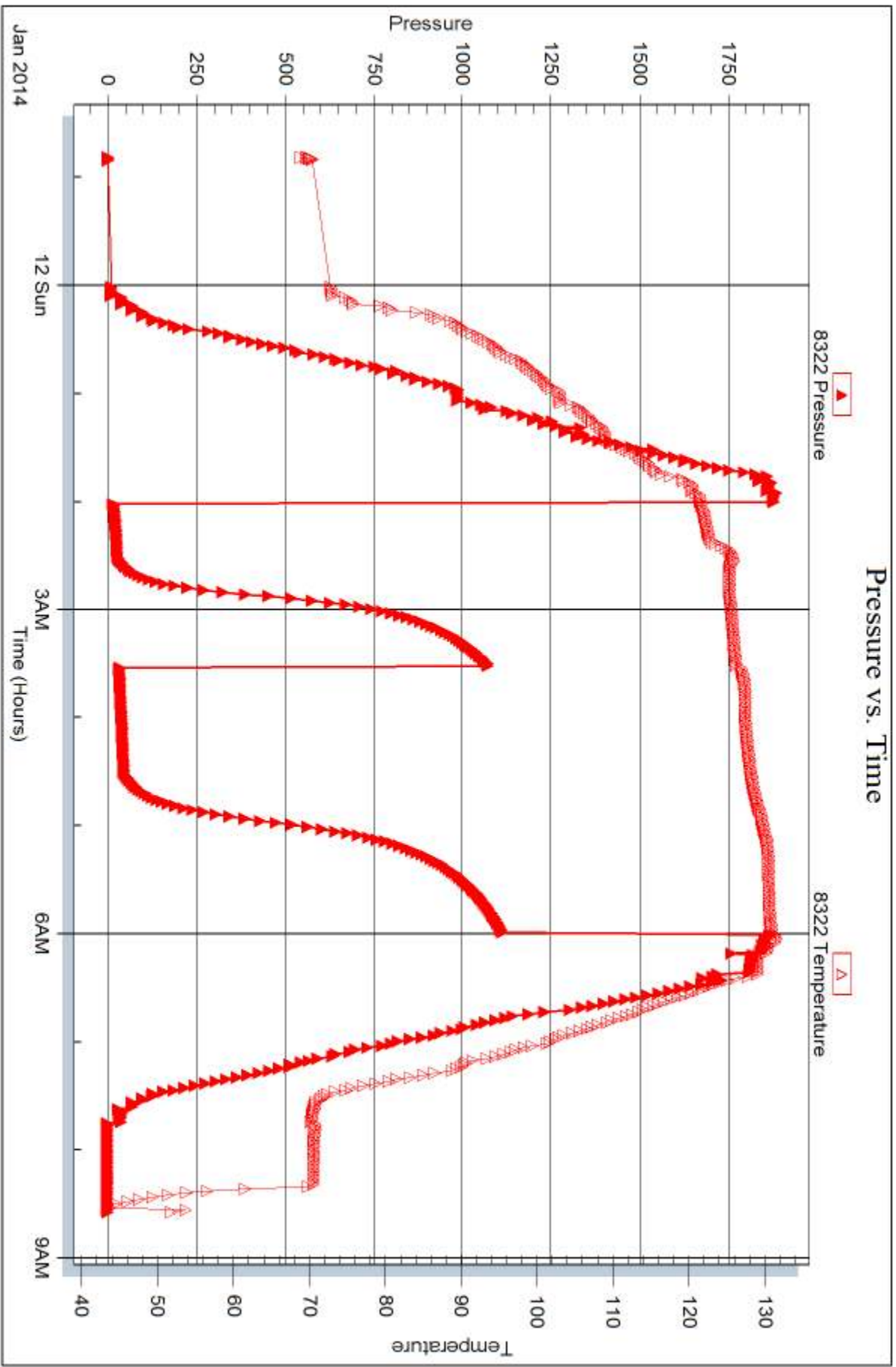
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 20 @ 72 DEG F = 18.8 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.12 @ 21:48:00

End Date: 2014.01.13 @ 08:22:30

Job Ticket #: 55119 DST #: 3

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

Printed: 2014.01.21 @ 14:57:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55119

DST#: 3

ATTN: Charles Schmaltz

Test Start: 2014.01.12 @ 21:48:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:03:40

Time Test Ended: 08:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4040.00 ft (KB) To 4110.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 452.26 psig @ 4041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.12

End Date:

2014.01.13

Last Calib.: 2014.01.13

Start Time: 21:48:01

End Time:

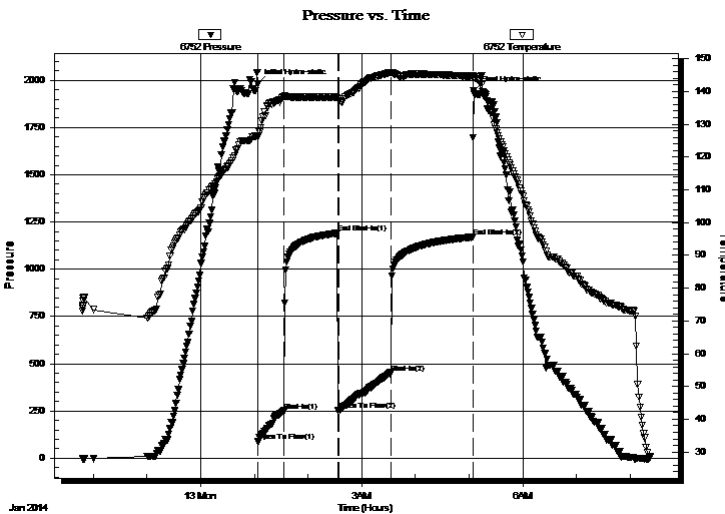
08:22:30

Time On Btm: 2014.01.13 @ 01:03:30

Time Off Btm: 2014.01.13 @ 05:05:00

TEST COMMENT: 30 IF - BoB @ 7 mins
60 ISI - Surface blow built to 5"
60 FF - BoB @ 7 mins
90 FSI - Surface blow built to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.77	126.61	Initial Hydro-static
1	89.49	126.15	Open To Flow (1)
30	251.50	138.44	Shut-In(1)
90	1191.21	138.20	End Shut-In(1)
91	253.10	137.58	Open To Flow (2)
149	452.26	145.74	Shut-In(2)
241	1170.16	144.59	End Shut-In(2)
242	1945.53	144.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OMCW - 5%o - 20%M - 75%W	0.32
1192.00	HGO - 5%G - 95%o	15.62
0.00	378' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

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5-2s-36w Rawlins KS

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Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55119

DST#: 3

ATTN: Charles Schmaltz

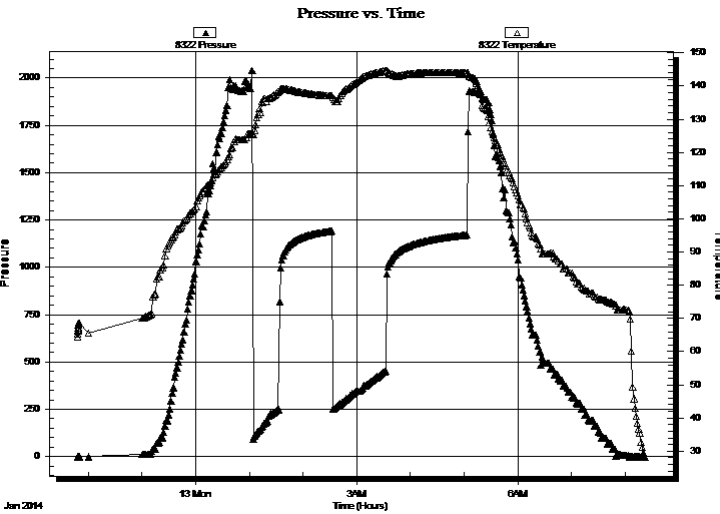
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GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:03:40 Tester: Ryan Nichols
 Time Test Ended: 08:22:30 Unit No: 58
 Interval: **4040.00 ft (KB) To 4110.00 ft (KB) (TVD)** Reference Elevations: 3252.00 ft (KB)
 Total Depth: 4040.00 ft (KB) (TVD) 3247.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8322 Outside
 Press@RunDepth: psig @ 4041.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.12 End Date: 2014.01.13 Last Calib.: 2014.01.13
 Start Time: 21:48:01 End Time: 08:22:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - BoB @ 7 mins
 60 ISI - Surface blow built to 5"
 60 FF - BoB @ 7 mins
 90 FSI - Surface blow built to 4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OMCW - 5%o - 20%M - 75%W	0.32
1192.00	HGO - 5%G - 95%o	15.62
0.00	378' GIP	0.00

* 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

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55119

DST#: 3

ATTN: Charles Schmaltz

Test Start: 2014.01.12 @ 21:48:00

Tool Information

Drill Pipe:	Length: 3854.00 ft	Diameter: 3.80 inches	Volume: 54.06 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 54.97 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4040.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 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			4014.00	
Shut In Tool	5.00			4019.00	
Hydraulic tool	5.00			4024.00	
Jars	5.00			4029.00	
Safety Joint	2.00			4031.00	
Packer	5.00			4036.00	27.00 Bottom Of Top Packer
Packer	4.00			4040.00	
Packer - Shale	0.00			4040.00	
Stubb	1.00			4041.00	
Recorder	0.00	6752	Inside	4041.00	
Recorder	0.00	8322	Outside	4041.00	
Perforations	33.00			4074.00	
Blank Spacing	33.00			4107.00	
Bullnose	3.00			4110.00	70.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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FLUID SUMMARY

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5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55119

DST#: 3

ATTN: Charles Schmaltz

Test Start: 2014.01.12 @ 21:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 5.98 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 23 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OMCW - 5%o - 20%M - 75%W	0.320
1192.00	HGO - 5%G - 95%o	15.618
0.00	378' GIP	0.000

Total Length: 1257.00 ft Total Volume: 15.938 bbl

Num Fluid Samples: 0

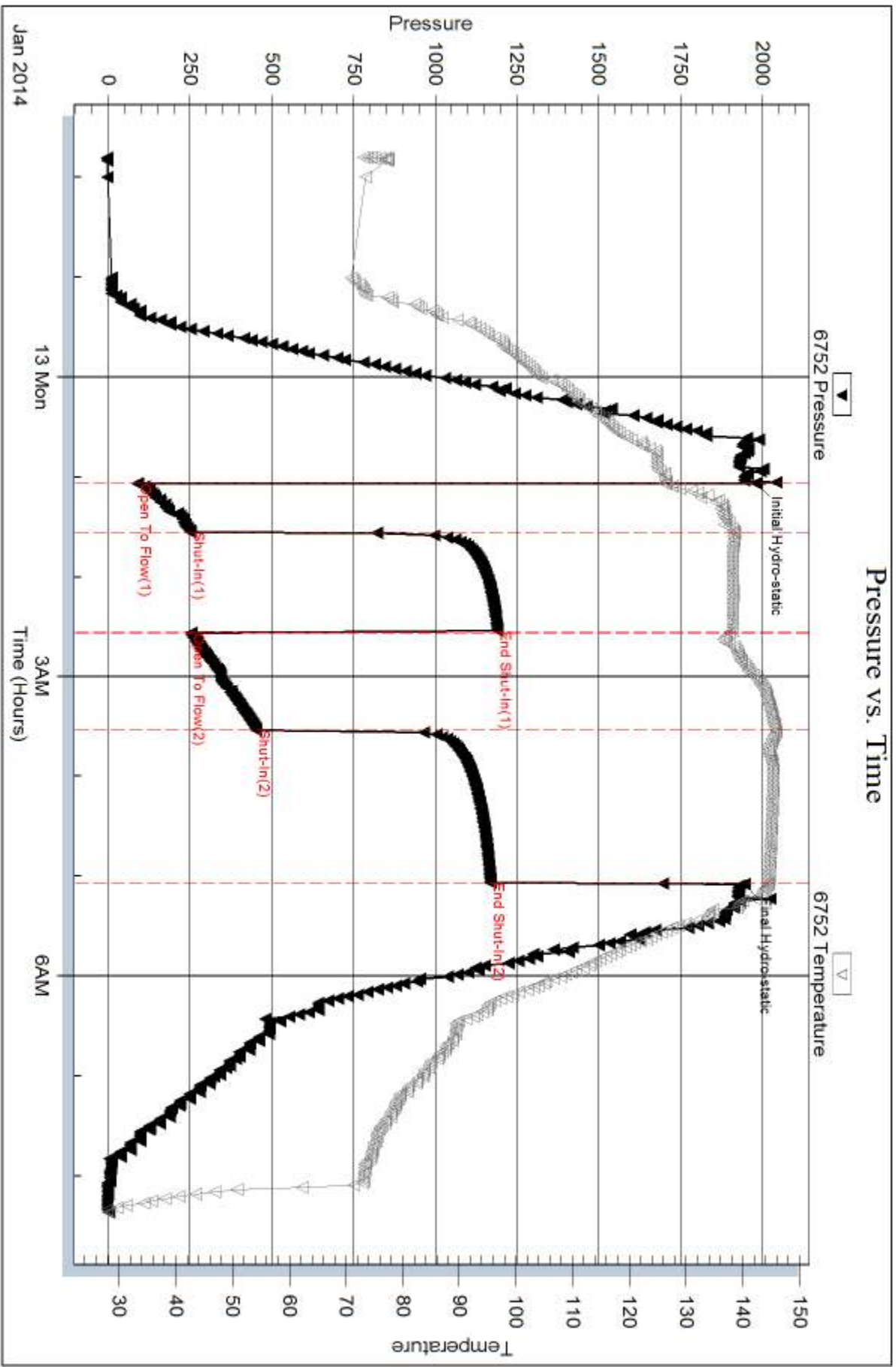
Num Gas Bombs: 0

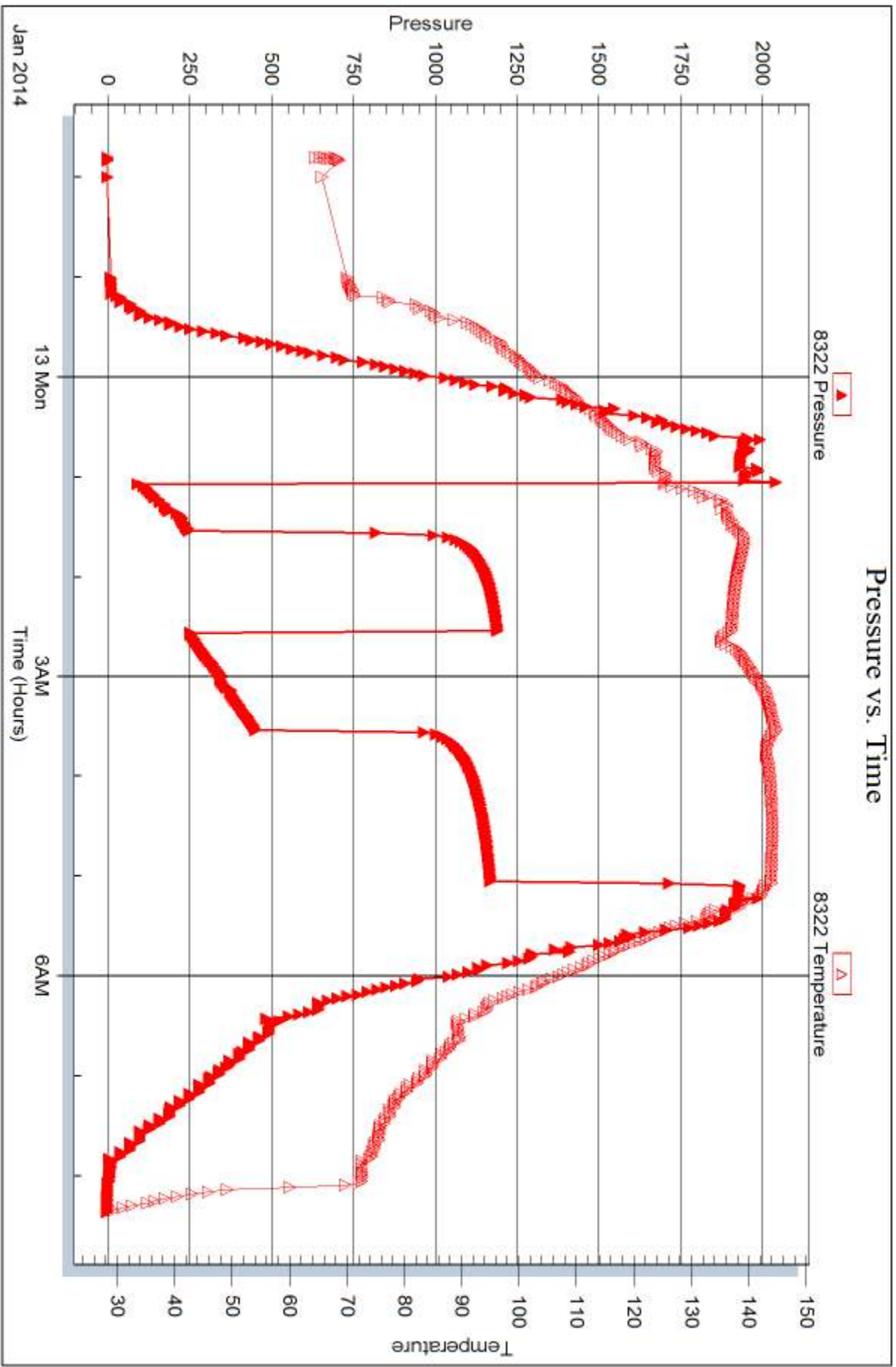
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 25 @ 80 DEG F = 23 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.13 @ 23:11:00

End Date: 2014.01.14 @ 08:44:30

Job Ticket #: 55120 DST #: 4

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

Printed: 2014.01.21 @ 14:56:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55120

DST#: 4

ATTN: Charles Schmaltz

Test Start: 2014.01.13 @ 23:11:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:57:00

Time Test Ended: 08:44:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4120.00 ft (KB) To 4215.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 133.02 psig @ 4121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.13

End Date:

2014.01.14

Last Calib.:

2014.01.14

Start Time: 23:11:01

End Time:

08:44:30

Time On Btm:

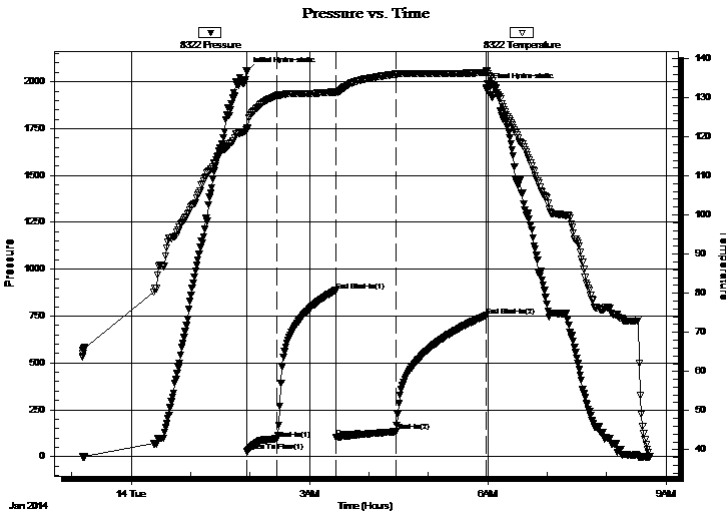
2014.01.14 @ 01:56:40

Time Off Btm:

2014.01.14 @ 05:58:50

TEST COMMENT: 30 IF - 1" blow built to BoB @ 15 mins
60 ISI - Surface blow built to 4 1/4"
60 FF - Surface blow built to BoB @ 13 mins
90 FSI - Surface blow built to 4 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.37	122.30	Initial Hydro-static
1	26.50	122.06	Open To Flow (1)
31	94.83	130.48	Shut-In(1)
91	883.42	131.45	End Shut-In(1)
91	104.08	131.24	Open To Flow (2)
151	133.02	136.02	Shut-In(2)
242	753.09	136.38	End Shut-In(2)
243	1968.09	136.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
141.00	GOCM - 15%G - 25%o - 60%M	0.69
237.00	GO - 30%G - 70%o	2.91
0.00	378' 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

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55120

DST#: 4

ATTN: Charles Schmaltz

Test Start: 2014.01.13 @ 23:11:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:57:00

Time Test Ended: 08:44:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4120.00 ft (KB) To 4215.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: psig @ 4121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.13

End Date:

2014.01.14

Last Calib.:

2014.01.14

Start Time: 23:11:01

End Time:

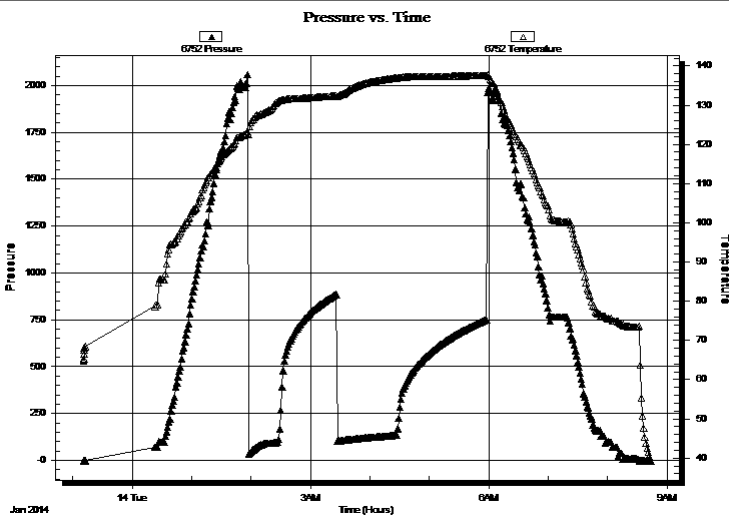
08:44:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1" blow built to BoB @ 15 mins
60 ISI - Surface blow built to 4 1/4"
60 FF - Surface blow built to BoB @ 13 mins
90 FSI - Surface blow built to 4 1/2"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
141.00	GOCM - 15%G - 25%o - 60%M	0.69
237.00	GO - 30%G - 70%o	2.91
0.00	378' 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

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55120

DST#: 4

ATTN: Charles Schmaltz

Test Start: 2014.01.13 @ 23:11:00

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 55.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4120.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	122.00 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			4094.00	
Shut In Tool	5.00			4099.00	
Hydraulic tool	5.00			4104.00	
Jars	5.00			4109.00	
Safety Joint	2.00			4111.00	
Packer	5.00			4116.00	27.00 Bottom Of Top Packer
Packer	4.00			4120.00	
Packer - Shale	0.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	6752	Inside	4121.00	
Recorder	0.00	8322	Outside	4121.00	
Perforations	25.00			4146.00	
Blank Spacing	66.00			4212.00	
Bullnose	3.00			4215.00	95.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55120

DST#: 4

ATTN: Charles Schmaltz

Test Start: 2014.01.13 @ 23:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 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
141.00	GOCM - 15%G - 25%o - 60%M	0.693
237.00	GO - 30%G - 70%o	2.915
0.00	378' GIP	0.000

Total Length: 378.00 ft Total Volume: 3.608 bbl

Num Fluid Samples: 0

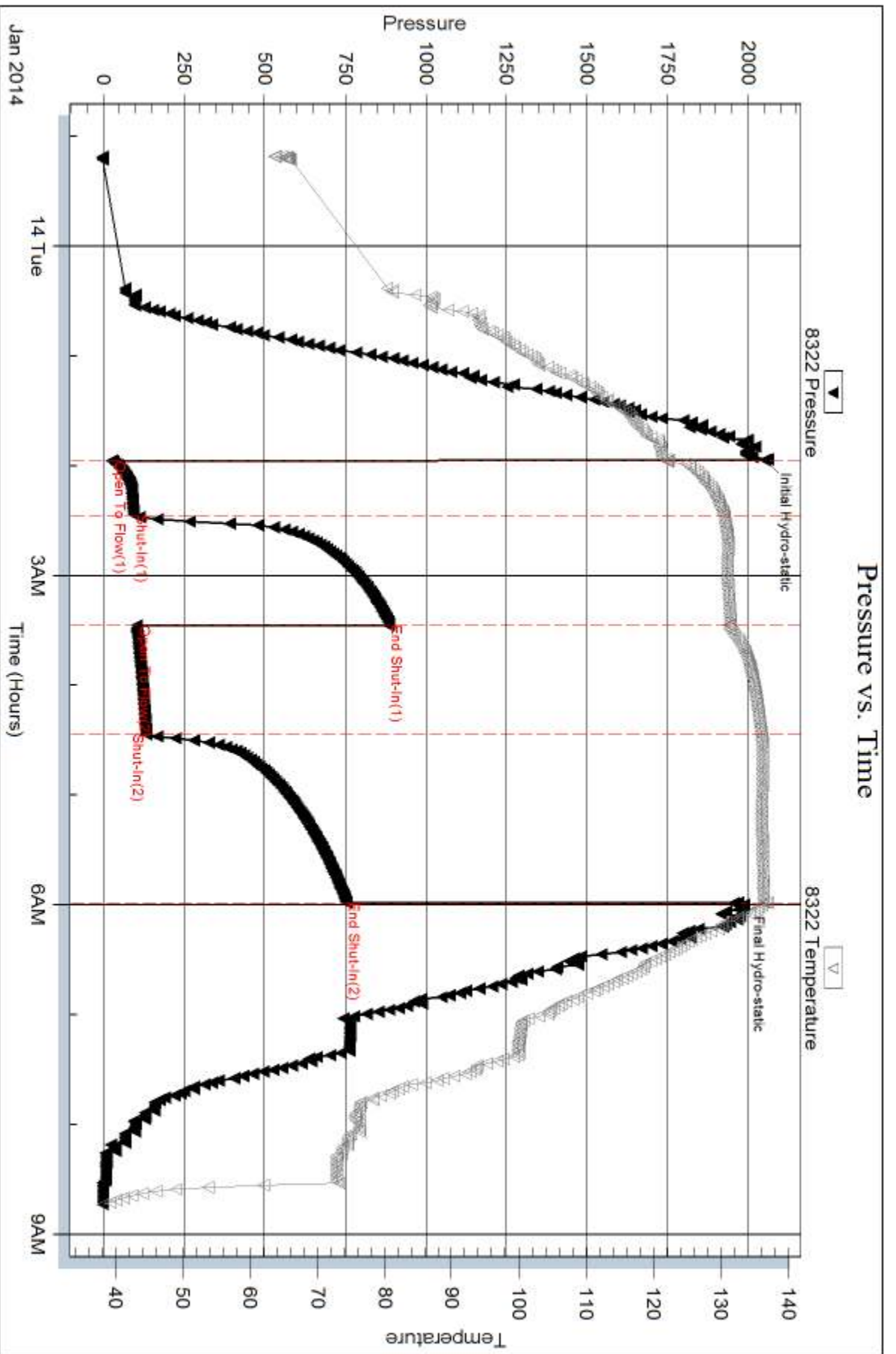
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API 33 @ 58 DEG F = 33.2 COR 60 DEG F



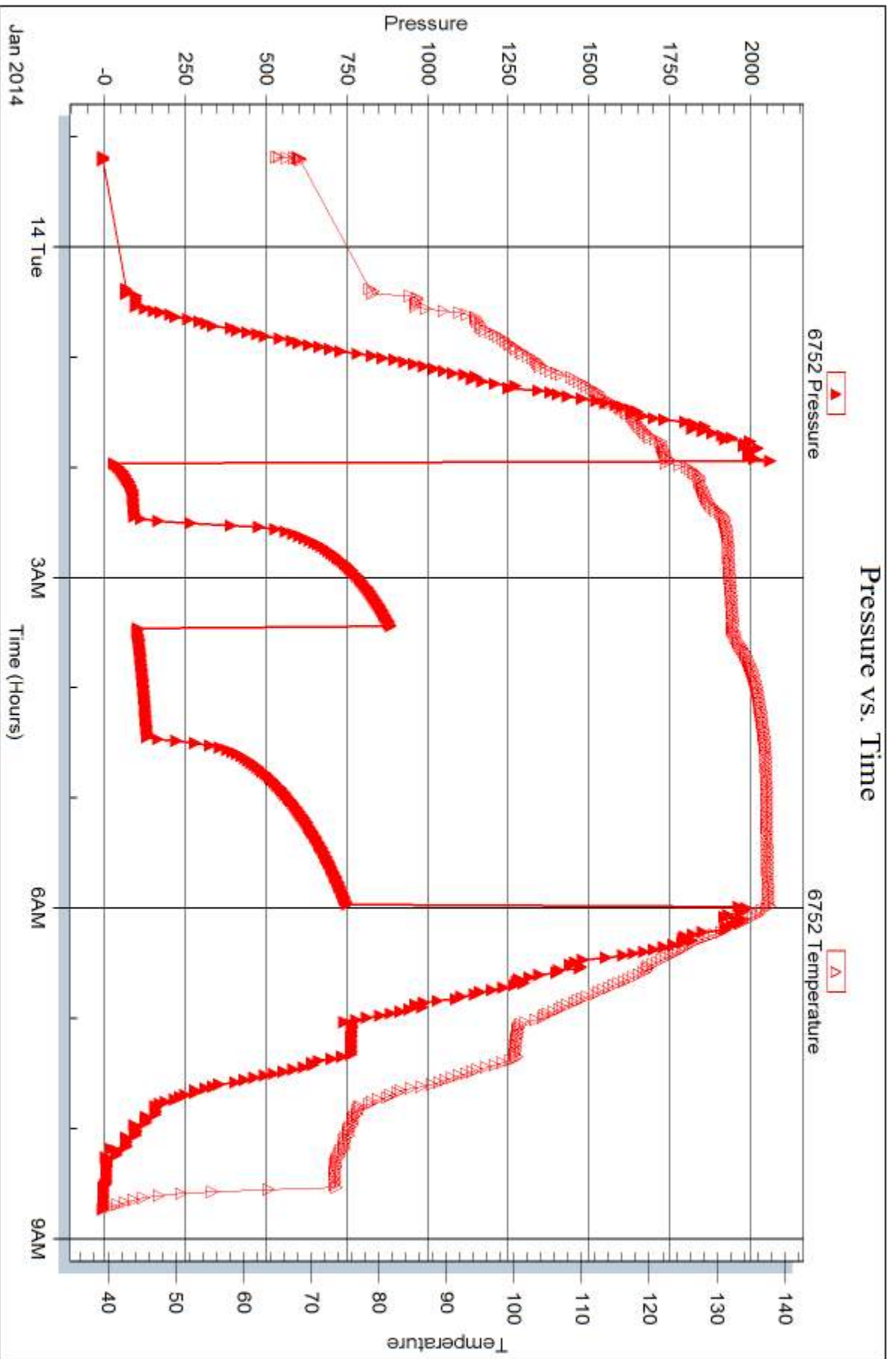
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Inside

Murfin Drilling Company

Kacirek Trust #1-5

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55120

Printed: 2014.01.21 @ 14:56:19



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.14 @ 19:15:00

End Date: 2014.01.15 @ 04:42:10

Job Ticket #: 55121 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.21 @ 14:55:44



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55121

DST#: 5

ATTN: Charles Schmaltz

Test Start: 2014.01.14 @ 19:15:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:21:20

Time Test Ended: 04:42:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4189.00 ft (KB) To 4265.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 1198.60 psig @ 4190.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.14

End Date:

2014.01.15

Last Calib.:

2014.01.15

Start Time: 19:15:01

End Time:

04:42:10

Time On Btm:

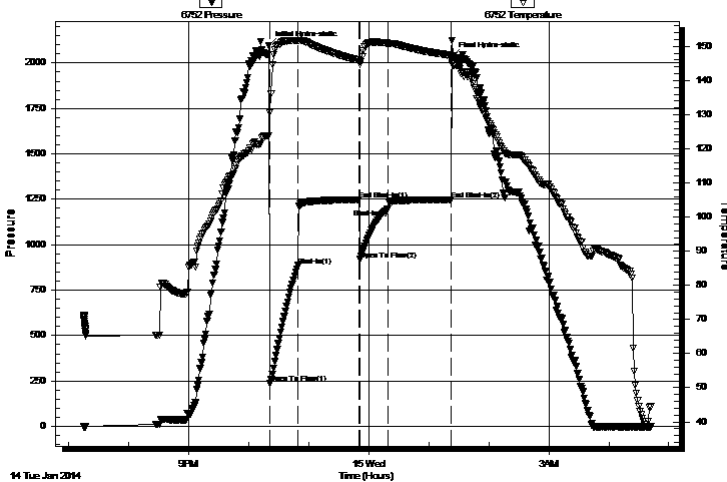
2014.01.14 @ 22:20:10

Time Off Btm:

2014.01.15 @ 01:23:10

TEST COMMENT: 30 IF - BoB @ 1 min
60 ISI - Surface blow built to 1/4"
30 FF - BoB @ 1 min
60 FSI - Surface blow built to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.16	123.83	Initial Hydro-static
2	234.86	130.58	Open To Flow (1)
30	885.72	151.64	Shut-In(1)
90	1246.75	145.93	End Shut-In(1)
91	918.79	144.80	Open To Flow (2)
119	1198.60	150.89	Shut-In(2)
182	1247.02	147.36	End Shut-In(2)
183	2034.86	145.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2202.00	OMCW - 2%o - 3%M - 95%W	29.19
189.00	OMCW - 20%o - 15%M - 65%W	2.65
272.00	OWCM - 25%o - 25%W - 50%M	3.82

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

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55121

DST#: 5

ATTN: Charles Schmaltz

Test Start: 2014.01.14 @ 19:15:00

Tool Information

Drill Pipe:	Length: 4009.00 ft	Diameter: 3.80 inches	Volume: 56.24 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 57.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	4189.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	103.00 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			4163.00	
Shut In Tool	5.00			4168.00	
Hydraulic tool	5.00			4173.00	
Jars	5.00			4178.00	
Safety Joint	2.00			4180.00	
Packer	5.00			4185.00	27.00 Bottom Of Top Packer
Packer	4.00			4189.00	
Packer - Shale	0.00			4189.00	
Stubb	1.00			4190.00	
Recorder	0.00	6752	Inside	4190.00	
Recorder	0.00	8322	Outside	4190.00	
Perforations	7.00			4197.00	
Blank Spacing	65.00			4262.00	
Bullnose	3.00			4265.00	76.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55121

DST#: 5

ATTN: Charles Schmaltz

Test Start: 2014.01.14 @ 19:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 5.19 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 17000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2202.00	OMCW - 2%o - 3%M - 95%W	29.194
189.00	OMCW - 20%o - 15%M - 65%W	2.651
272.00	OWCM - 25%o - 25%W - 50%M	3.815

Total Length: 2663.00 ft Total Volume: 35.660 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

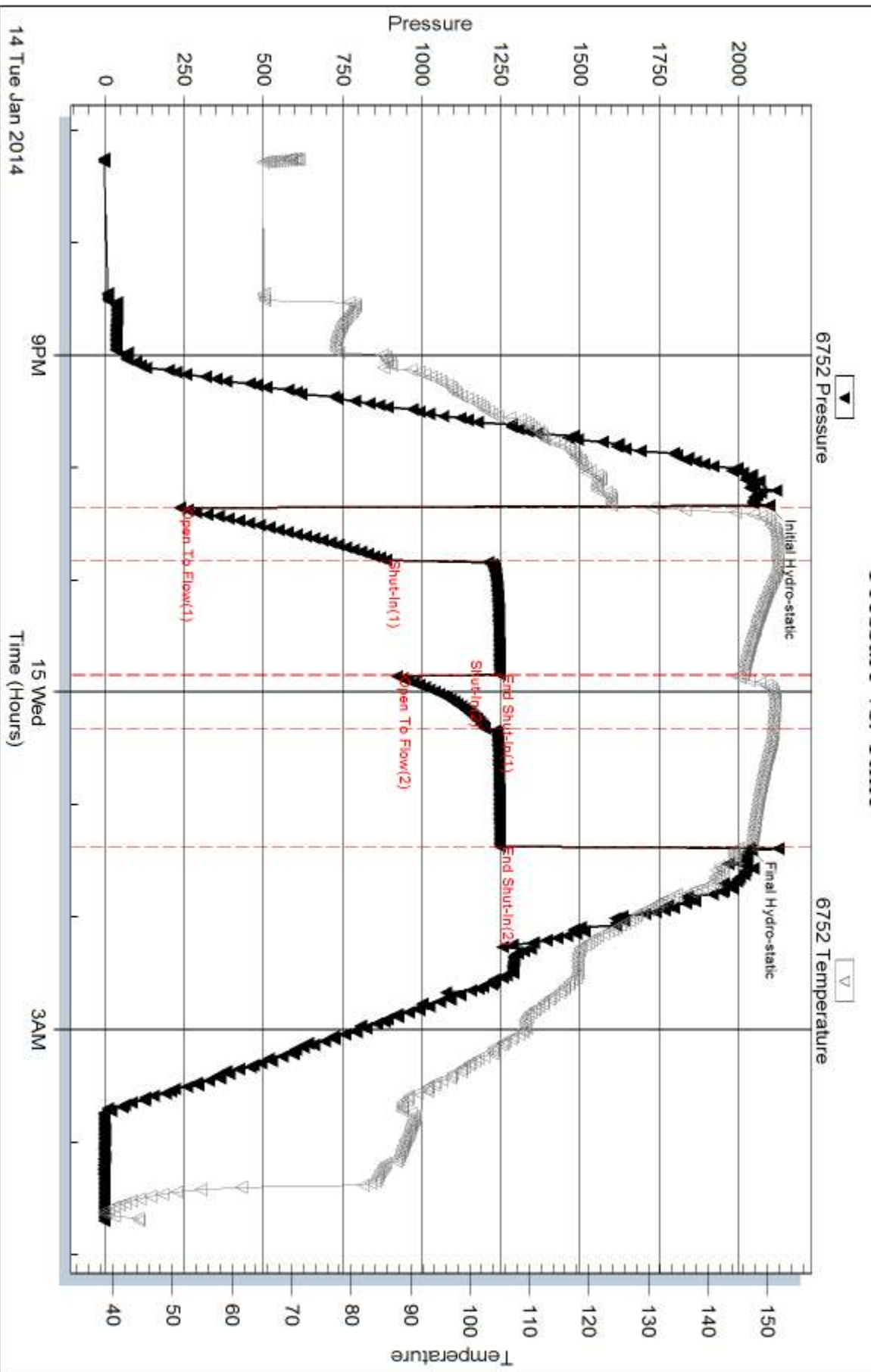
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .6 @ 54 DEG F

CHLORIDES = 17,000 PPM

Pressure vs. Time

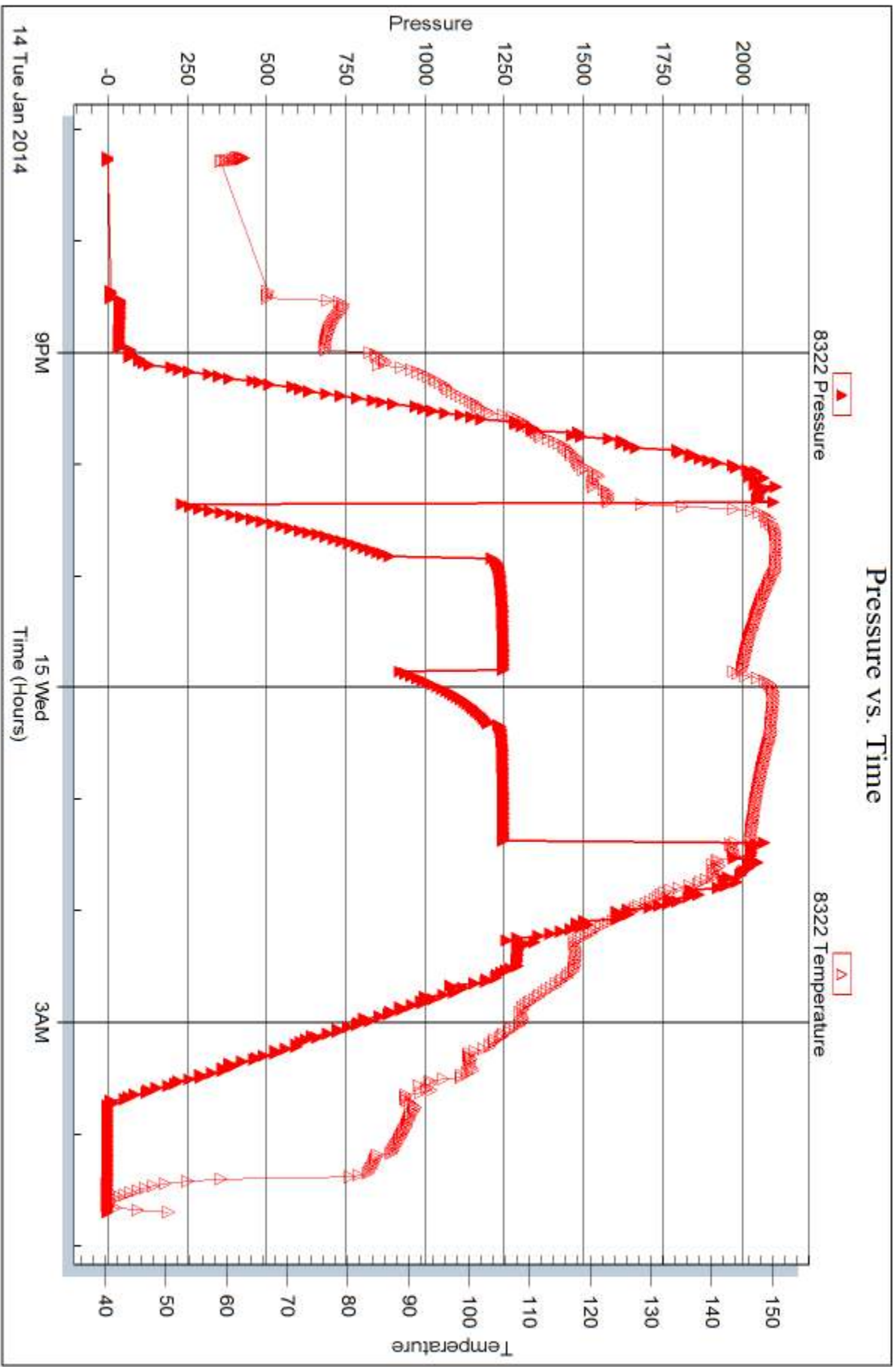


Serial #: 8322

Outside Murfin Drilling Company

Kacirek Trust #1-5

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 55121

Printed: 2014.01.21 @ 14:55:46



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.15 @ 16:11:00

End Date: 2014.01.16 @ 01:02:10

Job Ticket #: 55122 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.21 @ 14:55:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55122

DST#: 6

ATTN: Charles Schmaltz

Test Start: 2014.01.15 @ 16:11:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:34:10

Time Test Ended: 01:02:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4259.00 ft (KB) To 4327.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4327.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 153.62 psig @ 4260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.15

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time:

16:11:01

End Time:

01:02:10

Time On Btm:

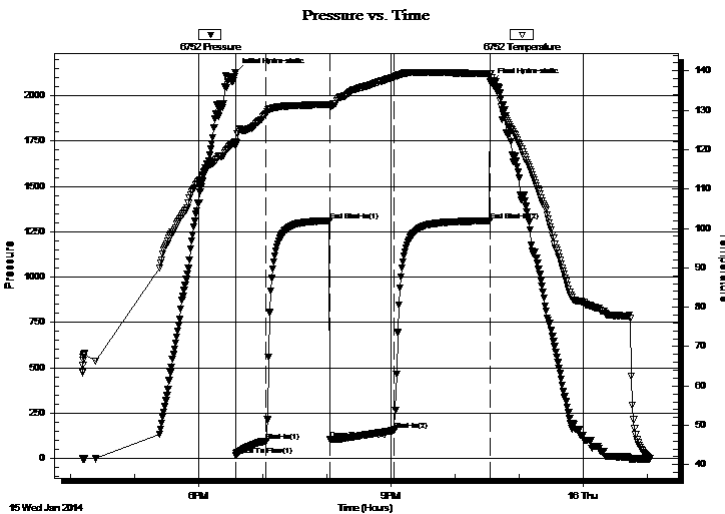
2014.01.15 @ 18:34:00

Time Off Btm:

2014.01.15 @ 22:33:00

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 22 mins
60 ISI - Surface blow built to 2 1/4"
60 FF - Surface blow built to BoB @ 22 mins
90 FSI - Surface blow built to 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.43	121.88	Initial Hydro-static
1	18.15	120.97	Open To Flow (1)
29	93.17	129.12	Shut-In(1)
89	1311.56	131.45	End Shut-In(1)
89	102.96	131.11	Open To Flow (2)
149	153.62	138.35	Shut-In(2)
239	1310.19	139.26	End Shut-In(2)
239	2075.71	139.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	GOCM - 10%G - 20%o - 70%M	0.64
282.00	GO - 25%G - 75%o	3.45
0.00	40' 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

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55122

DST#: 6

ATTN: Charles Schmaltz

Test Start: 2014.01.15 @ 16:11:00

Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 58.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4259.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	2.00			4250.00	
Packer	5.00			4255.00	27.00 Bottom Of Top Packer
Packer	4.00			4259.00	
Packer - Shale	0.00			4259.00	
Stubb	1.00			4260.00	
Recorder	0.00	6752	Inside	4260.00	
Recorder	0.00	8322	Outside	4260.00	
Perforations	30.00			4290.00	
Blank Spacing	34.00			4324.00	
Bullnose	3.00			4327.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55122

DST#: 6

ATTN: Charles Schmaltz

Test Start: 2014.01.15 @ 16:11:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 5.19 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 30.2 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	GOCM - 10%G - 20%o - 70%M	0.639
282.00	GO - 25%G - 75%o	3.446
0.00	40' GIP	0.000

Total Length: 412.00 ft Total Volume: 4.085 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

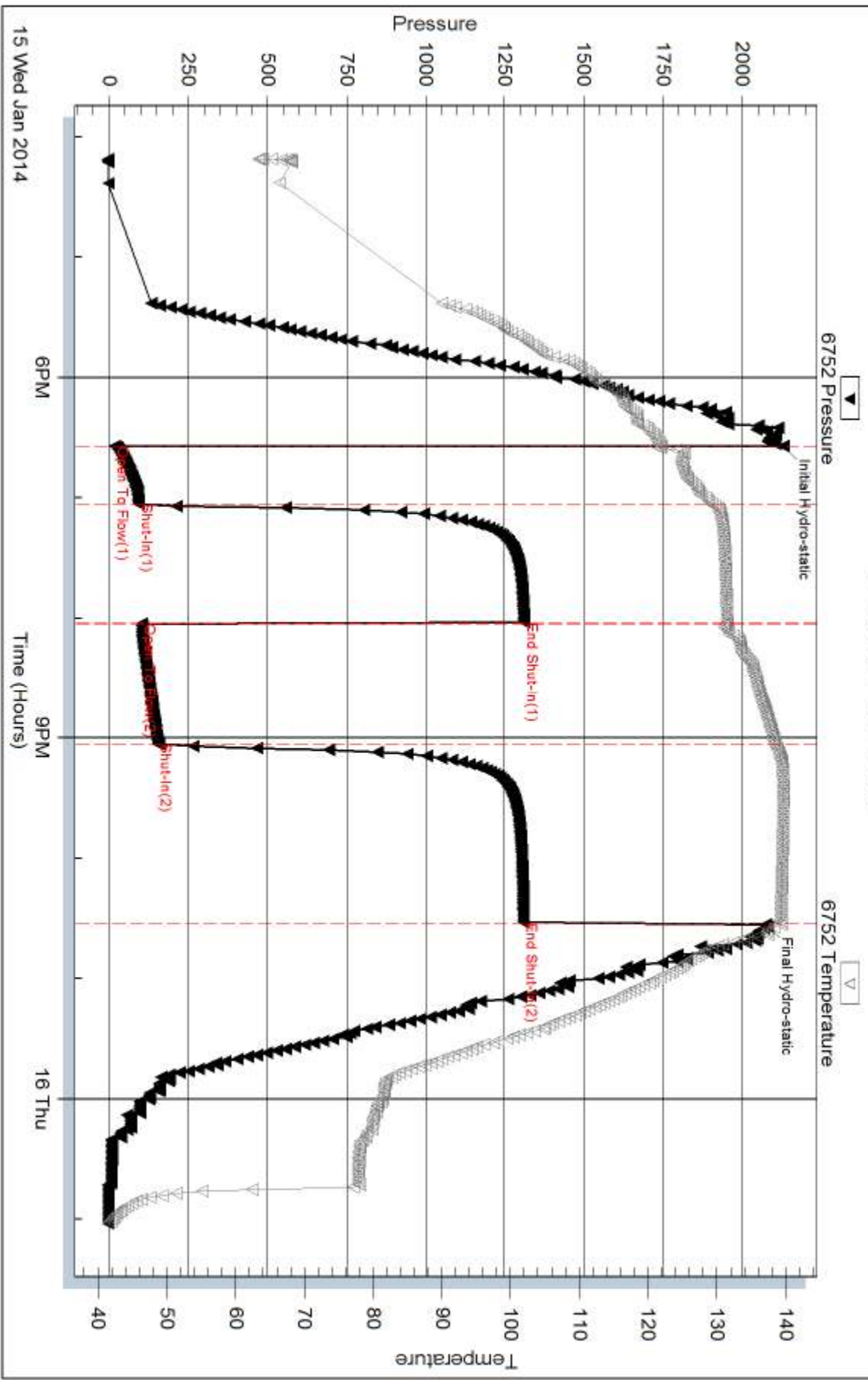
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 30 @ 58 DEG F = 30.2 COR 60 DEG F

Pressure vs. Time

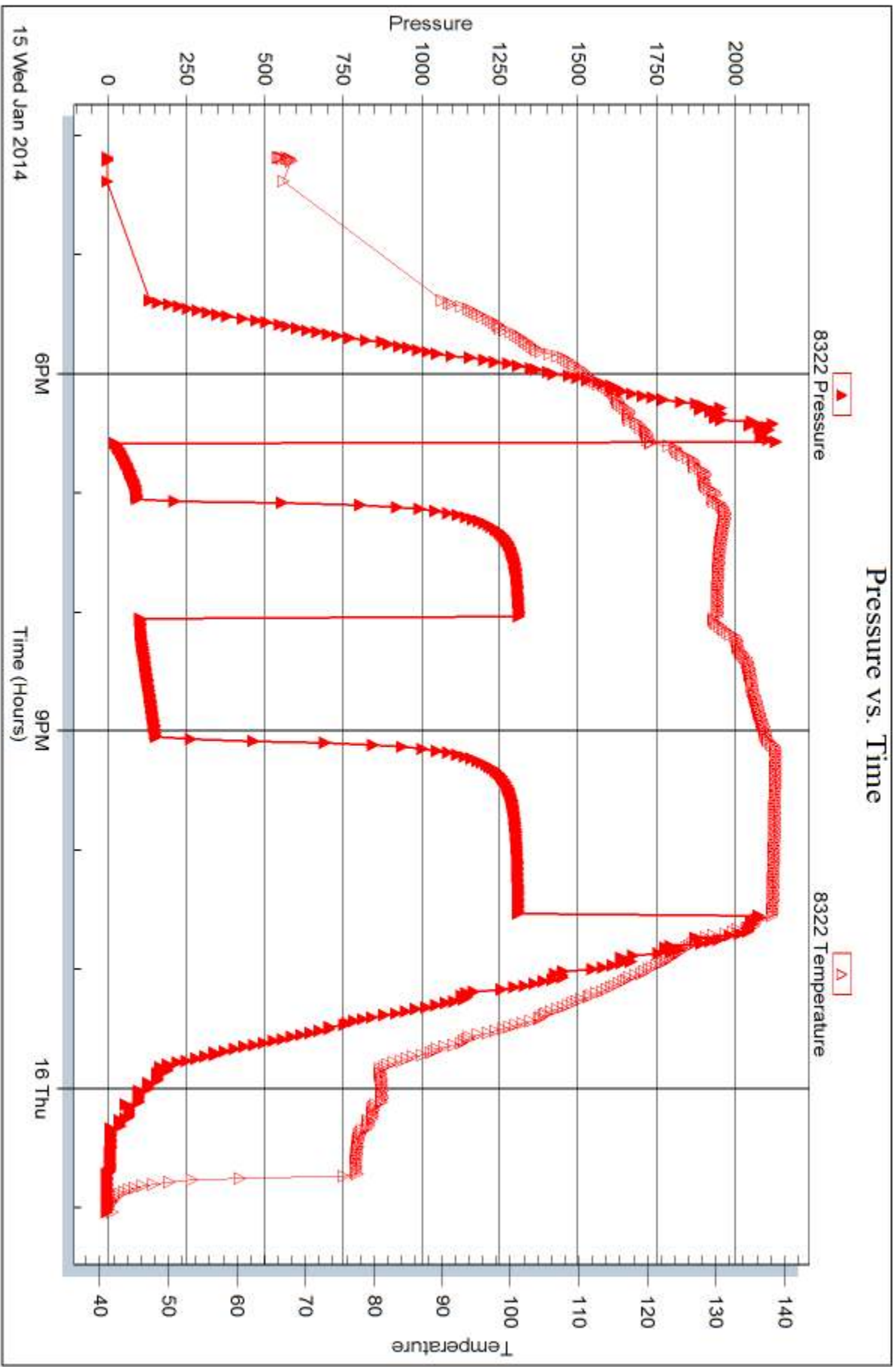


Serial #: 8322

Outside Murfin Drilling Company

Kacirek Trust #1-5

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Kacirek Trust #1-5

5-2s-36w Rawlins KS

Start Date: 2014.01.16 @ 13:00:00

End Date: 2014.01.16 @ 22:20:10

Job Ticket #: 55123 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.21 @ 14:54:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55123

DST#: 7

ATTN: Charles Schmaltz

Test Start: 2014.01.16 @ 13:00:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:20

Time Test Ended: 22:20:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4305.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 73.94 psig @ 4306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.16

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time: 13:00:01

End Time:

22:20:10

Time On Btm:

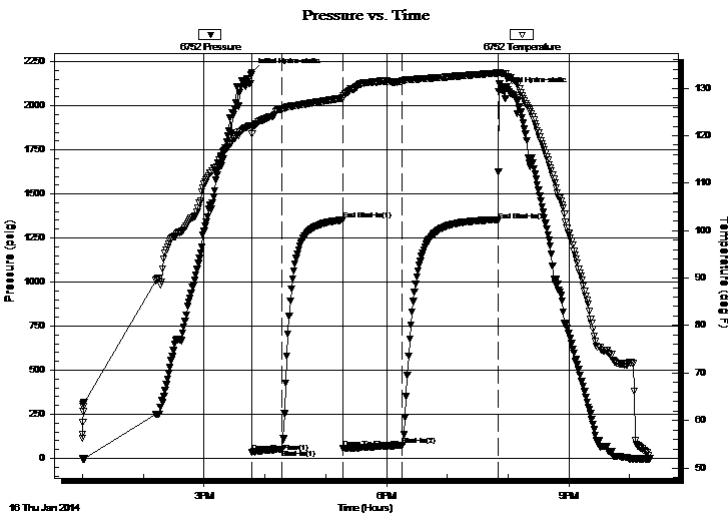
2014.01.16 @ 15:47:10

Time Off Btm:

2014.01.16 @ 19:50:50

TEST COMMENT: 30 IF - 1/4" blow built to 3 1/4"
60 ISI - Surface blow
60 FF - Surface blow built to 2"
90 FSI - Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.42	121.54	Initial Hydro-static
1	35.74	120.45	Open To Flow (1)
30	51.55	125.62	Shut-In(1)
90	1352.58	127.94	End Shut-In(1)
91	55.85	128.03	Open To Flow (2)
149	73.94	131.49	Shut-In(2)
243	1345.47	133.22	End Shut-In(2)
244	2079.10	133.35	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

Murfin Drilling Company

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

5-2s-36w Rawlins KS

Kacirek Trust #1-5

Job Ticket: 55123

DST#: 7

Test Start: 2014.01.16 @ 13:00:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:20

Time Test Ended: 22:20:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4305.00 ft (KB) To 4390.00 ft (KB) (TVD)

Total Depth: 4390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3252.00 ft (KB)

3247.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4306.00 ft (KB)

Start Date: 2014.01.16

End Date: 2014.01.16

Start Time: 13:00:01

End Time: 22:20:10

Capacity: 8000.00 psig

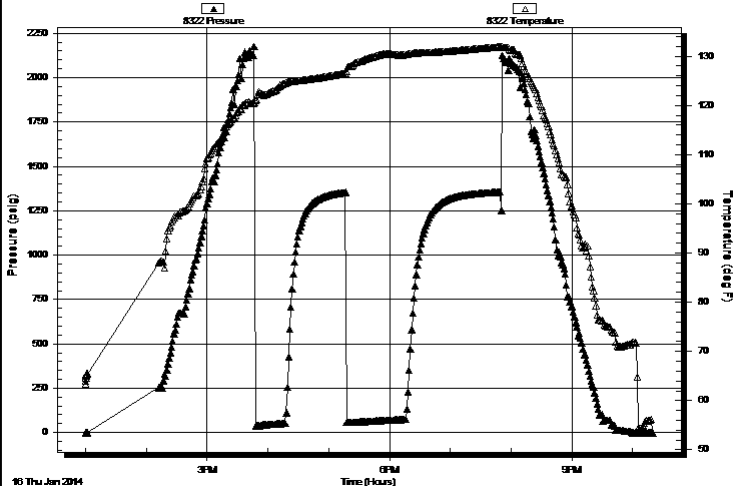
Last Calib.: 2014.01.16

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 3 1/4"
60 ISI - Surface blow
60 FF - Surface blow built to 2"
90 FSI - Surface blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55123

DST#: 7

ATTN: Charles Schmaltz

Test Start: 2014.01.16 @ 13:00:00

Tool Information

Drill Pipe:	Length: 4104.00 ft	Diameter: 3.80 inches	Volume: 57.57 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4305.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	112.00 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			4279.00	
Shut In Tool	5.00			4284.00	
Hydraulic tool	5.00			4289.00	
Jars	5.00			4294.00	
Safety Joint	2.00			4296.00	
Packer	5.00			4301.00	27.00 Bottom Of Top Packer
Packer	4.00			4305.00	
Packer - Shale	0.00			4305.00	
Stubb	1.00			4306.00	
Recorder	0.00	6752	Inside	4306.00	
Recorder	0.00	8322	Outside	4306.00	
Perforations	16.00			4322.00	
Blank Spacing	65.00			4387.00	
Bullnose	3.00			4390.00	85.00 Bottom Packers & Anchor

Total Tool Length: 112.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

5-2s-36w Rawlins KS

250 N Water STE 300
Wichita KS 67202

Kacirek Trust #1-5

Job Ticket: 55123

DST#: 7

ATTN: Charles Schmaltz

Test Start: 2014.01.16 @ 13:00:00

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: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 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

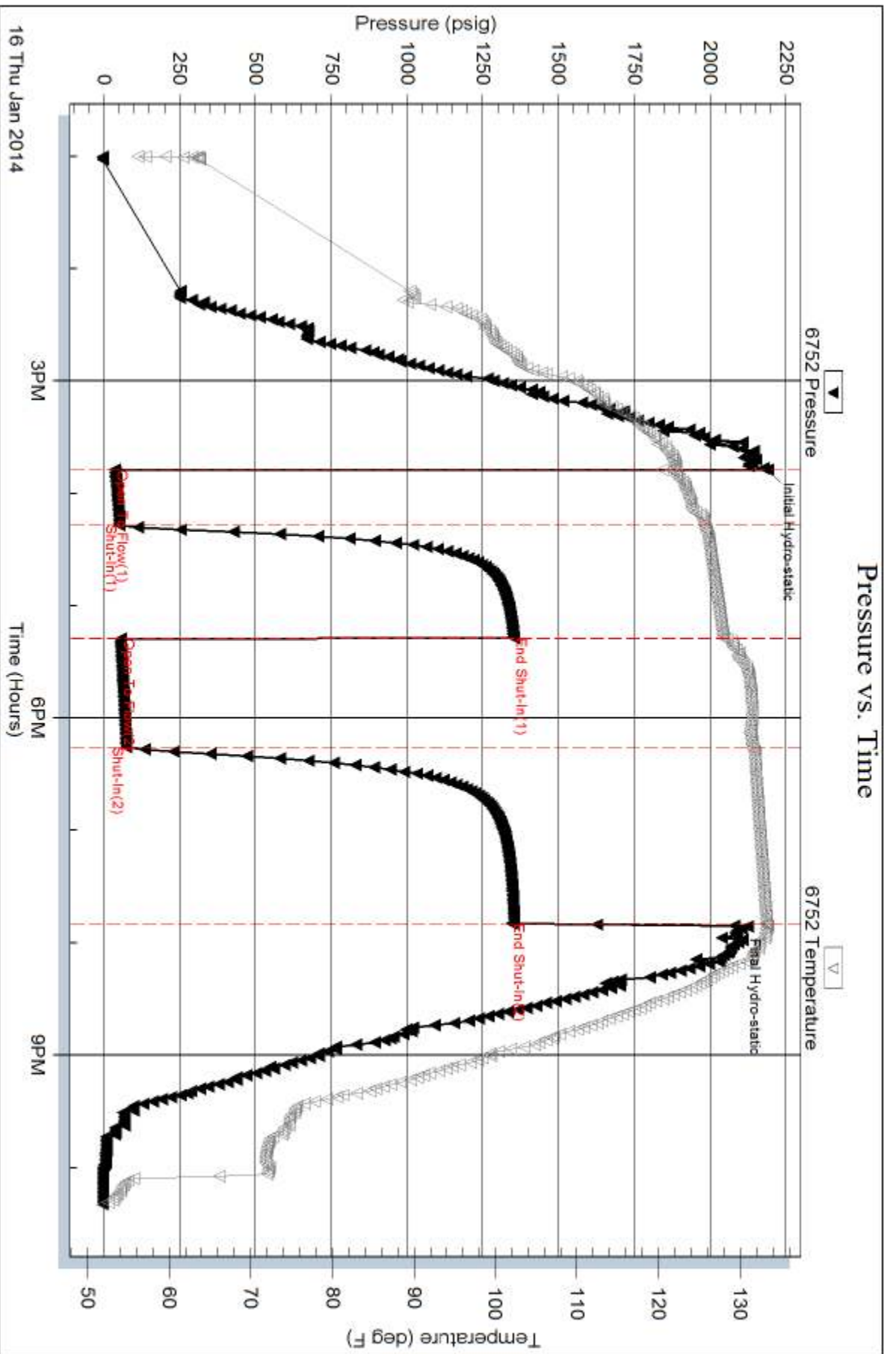
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

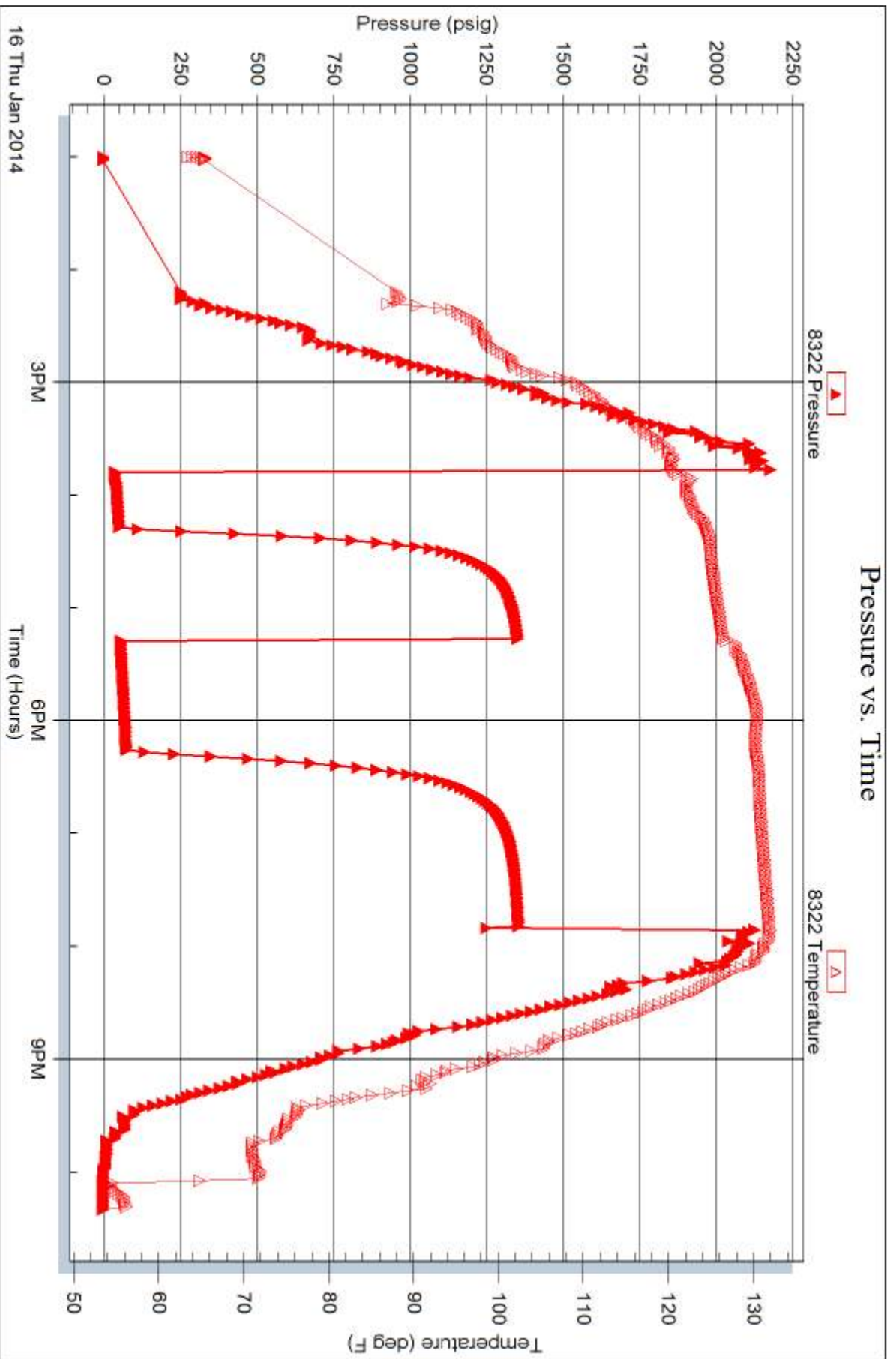


Serial #: 8322

Outside Murfin Drilling Company

Kacirek Trust #1-5

DST Test Number: 7



Tribble Testing, Inc

Ref. No: 55123

Printed: 2014.01.21 @ 14:54:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55117**

Well Name & No. Kacirek Trust #1-5 Test No. 1 Date 1/10/14
 Company Murfin Drilling Company Elevation 3251 KB 3246 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmaltz Rig Murfin #8
 Location: Sec. 5 N Twp. 2 Rge. 36 W Co. Rawlins State KS

Interval Tested 3548 - 3650 Zone Tested Neva
 Anchor Length 102' Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3543 Drill Collars Run 186' Vis 59
 Bottom Packer Depth 3548 Wt. Pipe Run 0' WL 6.4
 Total Depth 3650 Chlorides 1300 ppm System LCM 3
 Blow Description IF - 1" blow built to 3 1/2"
FSI - No return
FF - surface built to 2 1/2"
FSF - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65'</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 65' BHT 123° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1673</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>017:30</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:00</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:37</u>
(D) Initial Shut-In <u>1045</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:37</u>
(E) Second Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Hourly Standby <u>X 1 1/2 50</u>	T-Out <u>03:57</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT 170.50</u>	Comments _____
(G) Final Shut-In <u>988</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1646</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>1945.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1945.50</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55118

Well Name & No. Kacirek Trust # 1-5 Test No. 2 Date 1/11/19
 Company Murfin Drilling Company Elevation 3251 KB 3246 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig Murfin # 8
 Location: Sec. 5N Twp. 2 Rge. 36W Co. Rawlins State KS

Interval Tested 3912-3950 Zone Tested Stetler
 Anchor Length 38' Drill Pipe Run 3724' Mud Wt. 8.8
 Top Packer Depth 3907 Drill Collars Run 186' Vis 54
 Bottom Packer Depth 3912 Wt. Pipe Run 0' WL 6.4
 Total Depth 3950 Chlorides 1000 ppm System LCM
 Blow Description IF - 1/4" blow built to 3"
ISI - No return
FF - 1/4" blow built to 3"
FSI - No return

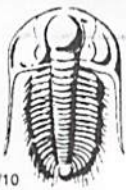
Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>HO</u>	<u>100</u>			
<u>55'</u>	<u>dcm</u>	<u>10</u>		<u>90</u>	

Rec Total 70' BHT 131 Gravity 18.8 API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>1896</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:45</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:49</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:00</u>
(D) Initial Shut-In <u>1073</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>06:00</u>
(E) Second Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1 3/4 75</u>	T-Out <u>08:34</u>
(F) Second Final Flow <u>45</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT 170.50</u>	Comments _____
(G) Final Shut-In <u>1113</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1850</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>1970.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1970.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55119**

Well Name & No. Kacirek Trust #1-5 Test No. 3 Date 1/12/14
 Company Martin Drilling Company Elevation 3252 KB 3247 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig Martin #8
 Location: Sec. 5N Twp. 2 Rge. 36W Co. Rawlins State KS

Interval Tested 4040-4110 Zone Tested Oread
 Anchor Length 70' Drill Pipe Run 3854' Mud Wt. 8.8
 Top Packer Depth 4035 Drill Collars Run 186' Vis 45
 Bottom Packer Depth 4040 Wt. Pipe Run 0' WL 6.0
 Total Depth 4110 Chlorides 1000 ppm System LCM 2

Blow Description IF- BoB @ 7 mins
FSI- Surface blow built to 5"
FF- BoB @ 7 mins
FSI- Surface blow built to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1192</u>	<u>OGHO</u>	<u>5</u>		<u>95</u>	
<u>65</u>	<u>OMCW</u>	<u>5</u>	<u>75</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

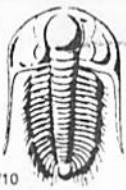
Rec Total 1257' BHT 145" Gravity 23 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1981 Test 1250 T-On Location 21:30
 (B) First Initial Flow 89 Jars 250 T-Started 21:48
 (C) First Final Flow 252 Safety Joint NC 75 T-Open 01:03
 (D) Initial Shut-In 1191 Circ Sub _____ T-Pulled 05:03
 (E) Second Initial Flow 253 Hourly Standby X1 .5h 50 T-Out 08:22
 (F) Second Final Flow 452 Mileage 110 RT 170.50 Comments 378' GIP
 (G) Final Shut-In 1170 Sampler _____
 (H) Final Hydrostatic 1946 Straddle _____

Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2045.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2045.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55120

Well Name & No. Kacirek Trust #1-5 Test No. 4 Date 1/13/14
 Company Murkin Drilling Company Elevation 3252 KB 3247 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig Murkin #8
 Location: Sec. 5N Twp. 2 Rge. 36W Co. Rawlins State KS

Interval Tested 4120 - 4215 Zone Tested 2KE "A"
 Anchor Length 95' Drill Pipe Run 3922' Mud Wt. 9.0
 Top Packer Depth 4115 Drill Collars Run 186' Vis 52
 Bottom Packer Depth 4120 Wt. Pipe Run 0' WL 5.6
 Total Depth 4215 Chlorides 1000 ppm System LCM 2

Blow Description IF-1" blow built to Bob @ 15 mins
ISI- Surface blow built to 4 1/4"
FF- Surface blow built to Bob @ 13 mins
FII- Surface blow built to 4 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>237</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>141</u>	<u>60CM</u>	<u>15</u>	<u>25</u>		<u>60</u>

Rec Total 378' BHT 136° Gravity 33.2 API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2052 Test 1250 T-On Location 22:30
 (B) First Initial Flow 27 Jars 250 T-Started 23:11
 (C) First Final Flow 95 Safety Joint 75 T-Open 01:57
 (D) Initial Shut-In 883 Circ Sub NC T-Pulled 05:57
 (E) Second Initial Flow 104 Hourly Standby _____ T-Out 08:44
 (F) Second Final Flow 133 Mileage 170 RT 170.50 Comments 378" GIP
 (G) Final Shut-In 753 Sampler _____
 (H) Final Hydrostatic 1968 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 1995.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1995.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55121**

Well Name & No. Kacirek Trust #1-5 Test No. 5 Date 1/14/14
 Company Murfin Drilling Company Elevation 3252 KB 32047 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig Murfin #8
 Location: Sec. 5N Twp. 2 Rge. 36W Co. Rawlins State KS

Interval Tested 4189-4265 Zone Tested LKC "D"
 Anchor Length 76' Drill Pipe Run 4009' Mud Wt. 9.0
 Top Packer Depth 4184 Drill Collars Run 186' Vis 60
 Bottom Packer Depth 4189 Wt. Pipe Run 0' WL 5.2
 Total Depth 4265 Chlorides 1000 ppm System LCM 2
 Blow Description IF-BoB @ 1 min
ISI- Surface blow built to 1/4"
FF-BoB @ 1 min
FSI- Surface blow built to 1/4"

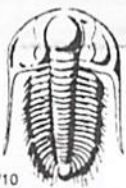
Rec	Feet of	%gas	%oil	%water	%mud
<u>272'</u>	<u>OWCM</u>	<u>25</u>	<u>25</u>	<u>50</u>	<u>0</u>
<u>189'</u>	<u>OMCW</u>	<u>20</u>	<u>65</u>	<u>15</u>	<u>0</u>
<u>2202'</u>	<u>OMCW</u>	<u>2</u>	<u>95</u>	<u>3</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2663' BHT 147° Gravity — API RW 16 @ 54 °F Chlorides 17,000 ppm

(A) Initial Hydrostatic <u>2096</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>235</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:15</u>
(C) First Final Flow <u>886</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:21</u>
(D) Initial Shut-In <u>1247</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:21</u>
(E) Second Initial Flow <u>919</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:42</u>
(F) Second Final Flow <u>1199</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT</u> 170.50	Comments
(G) Final Shut-In <u>1247</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2035</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1995.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1995.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55122**

Well Name & No. Kacirek Trust #1-5 Test No. 6 Date 1/15/14
 Company Murfin Drilling Company Elevation 3252 KB 3247 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig Murfin #8
 Location: Sec. 5N Twp. 2 Rge. 036W Co. Rawlins State KS

Interval Tested 4259-4327 Zone Tested LKC "G"
 Anchor Length 68' Drill Pipe Run 41072' Mud Wt. 9.1
 Top Packer Depth 4254 Drill Collars Run 186' Vis 65
 Bottom Packer Depth 4259 Wt. Pipe Run 0' WL 5.2
 Total Depth 4327 Chlorides 1200 ppm System LCM 1 1/2
 Blow Description IF - 1/2" built to BoB @ 22 mins
ISI - Surface blow built to 2 1/4"
FF - Surface blow built to BoB @ 22 mins
FSI - Surface blow built to 2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>282</u>	<u>60</u>	<u>25</u>	<u>75</u>		
<u>130'</u>	<u>60CM</u>	<u>10</u>	<u>20</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 312' BHT 139° Gravity 30.2 API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 3129 Test 1250 T-On Location 15:45
 (B) First Initial Flow 18 Jars 250 T-Started 16:11
 (C) First Final Flow 93 Safety Joint 75 T-Open 18:33
 (D) Initial Shut-In 1312 Circ Sub NC T-Pulled 22:33
 (E) Second Initial Flow 103 Hourly Standby _____ T-Out 01:02
 (F) Second Final Flow 154 Mileage 110 RT 170.50 Comments 40' GIP
 (G) Final Shut-In 1310 Sampler _____
 (H) Final Hydrostatic 2076 Straddle _____

Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1995.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1995.50

Approved By _____ Our Representative [Signature]

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



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55123**

Well Name & No. Kacirek Trust #1-5 Test No. 7 Date 1/16/14
 Company Murfin Drilling Company Elevation 3252 KB 3247 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmaltz Rig Murfin # 8
 Location: Sec. 5N Twp. 2 Rge. 36W Co. Rawlins State KS

Interval Tested 4305 - 4390 Zone Tested LRC "H-J"
 Anchor Length 85' Drill Pipe Run 4104' Mud Wt. 9.3
 Top Packer Depth 4300 Drill Collars Run 186 Vis 65
 Bottom Packer Depth 4305 Wt. Pipe Run 0' WL 6.0
 Total Depth 4390 Chlorides 1100 ppm System LCM 2
 Blow Description IF - 1/4" blow built to 3/4"
ISI - Surface return
FF - Surface blow built to 2"
FSI - Surface 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 1330 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:00</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:00</u>
(C) First Final Flow <u>52</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:47</u>
(D) Initial Shut-In <u>1353</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>19:47</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:20</u>
(F) Second Final Flow <u>74</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT</u> 341	Comments <u>Wanted tools @</u>
(G) Final Shut-In <u>1345</u>	<input type="checkbox"/> Sampler _____	<u>21:00 on 1/18/14</u>
(H) Final Hydrostatic <u>2079</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>800</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>1d 22.75h</u>	Total <u>2966</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2166</u>	

Approved By _____ Our Representative [Signature]

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