



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.06 @ 23:06:37

End Date: 2014.06.07 @ 05:25:00

Job Ticket #: 56490 DST #: 1

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

Printed: 2014.06.13 @ 11:40:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

GENERAL INFORMATION:

Formation: **Toronto- Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:37

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 3925.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 172.03 psig @ 3926.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.06

End Date:

2014.06.07

Last Calib.:

2014.06.07

Start Time: 23:06:42

End Time:

05:24:59

Time On Btm:

2014.06.07 @ 01:16:07

Time Off Btm:

2014.06.07 @ 05:20:07

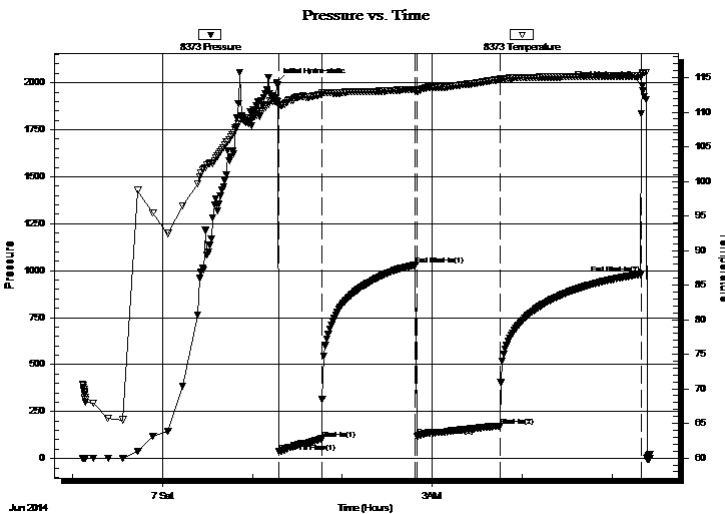
TEST COMMENT: IF: 1/2" blow built to 6"

IS: No return.

FF: Surface blow built to 7"

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.86	111.58	Initial Hydro-static
2	34.83	110.92	Open To Flow (1)
30	104.75	112.59	Shut-In(1)
93	1030.04	113.26	End Shut-In(1)
94	118.28	112.95	Open To Flow (2)
149	172.03	114.69	Shut-In(2)
243	981.18	115.20	End Shut-In(2)
244	1982.92	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 5%w 95%m	0.91
144.00	mud 100%m	1.56

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

6-17s-32w Scott,KS
Wilkens Unit #1-6
Job Ticket: 56490 **DST#: 1**
Test Start: 2014.06.06 @ 23:06:37

GENERAL INFORMATION:

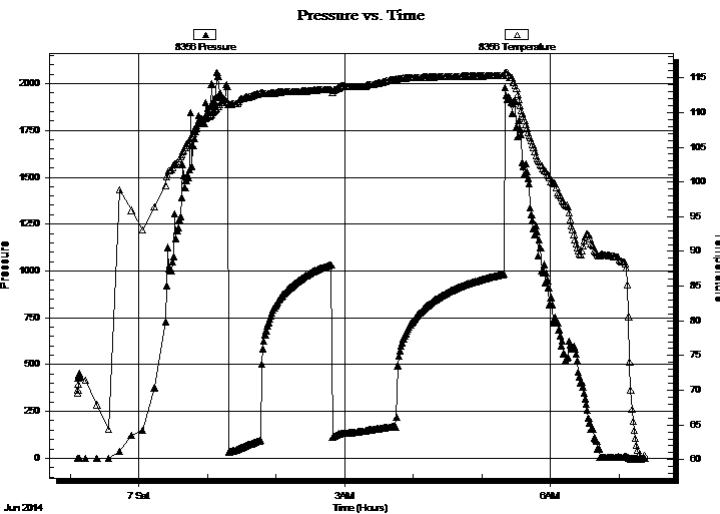
Formation: **Toronto- Lansing B**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 01:17:37 Tester: Brandon Turley
Time Test Ended: 05:25:00 Unit No: 60

Interval: **3925.00 ft (KB) To 4015.00 ft (KB) (TVD)** Reference Elevations: 2987.00 ft (KB)
Total Depth: 4015.00 ft (KB) (TVD) 2976.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 3926.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.06 End Date: 2014.06.07 Last Calib.: 2014.06.07
Start Time: 23:06:22 End Time: 07:22:16 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/2" blow built to 6"
IS: No return.
FF: Surface blow built to 7"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 5%w 95% m	0.91
144.00	mud 100% m	1.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

Tool Information

Drill Pipe:	Length: 3693.00 ft	Diameter: 3.80 inches	Volume: 51.80 bbl	Tool Weight: 2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3925.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 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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Stubb	1.00			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Jars	5.00			3913.00	
Safety Joint	3.00			3916.00	
Packer	5.00			3921.00	28.00 Bottom Of Top Packer
Packer	4.00			3925.00	
Stubb	1.00			3926.00	
Recorder	0.00	8373	Inside	3926.00	
Recorder	0.00	8356	Outside	3926.00	
Perforations	19.00			3945.00	
Change Over Sub	1.00			3946.00	
Drill Pipe	63.00			4009.00	
Change Over Sub	1.00			4010.00	
Bullnose	5.00			4015.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	w cm 5%w 95%m	0.915
144.00	mud 100%m	1.564

Total Length: 330.00 ft

Total Volume: 2.479 bbl

Num Fluid Samples: 0

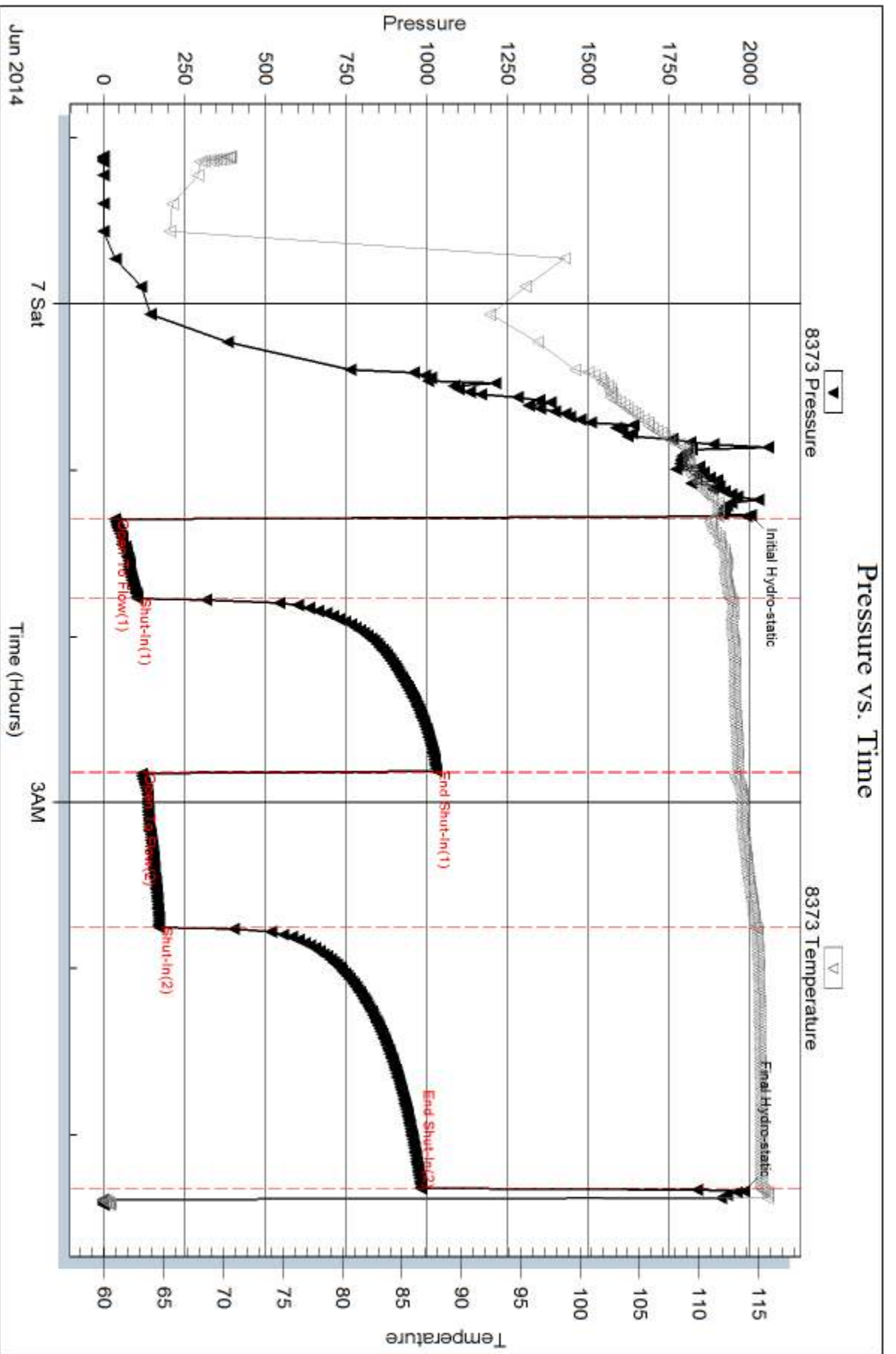
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

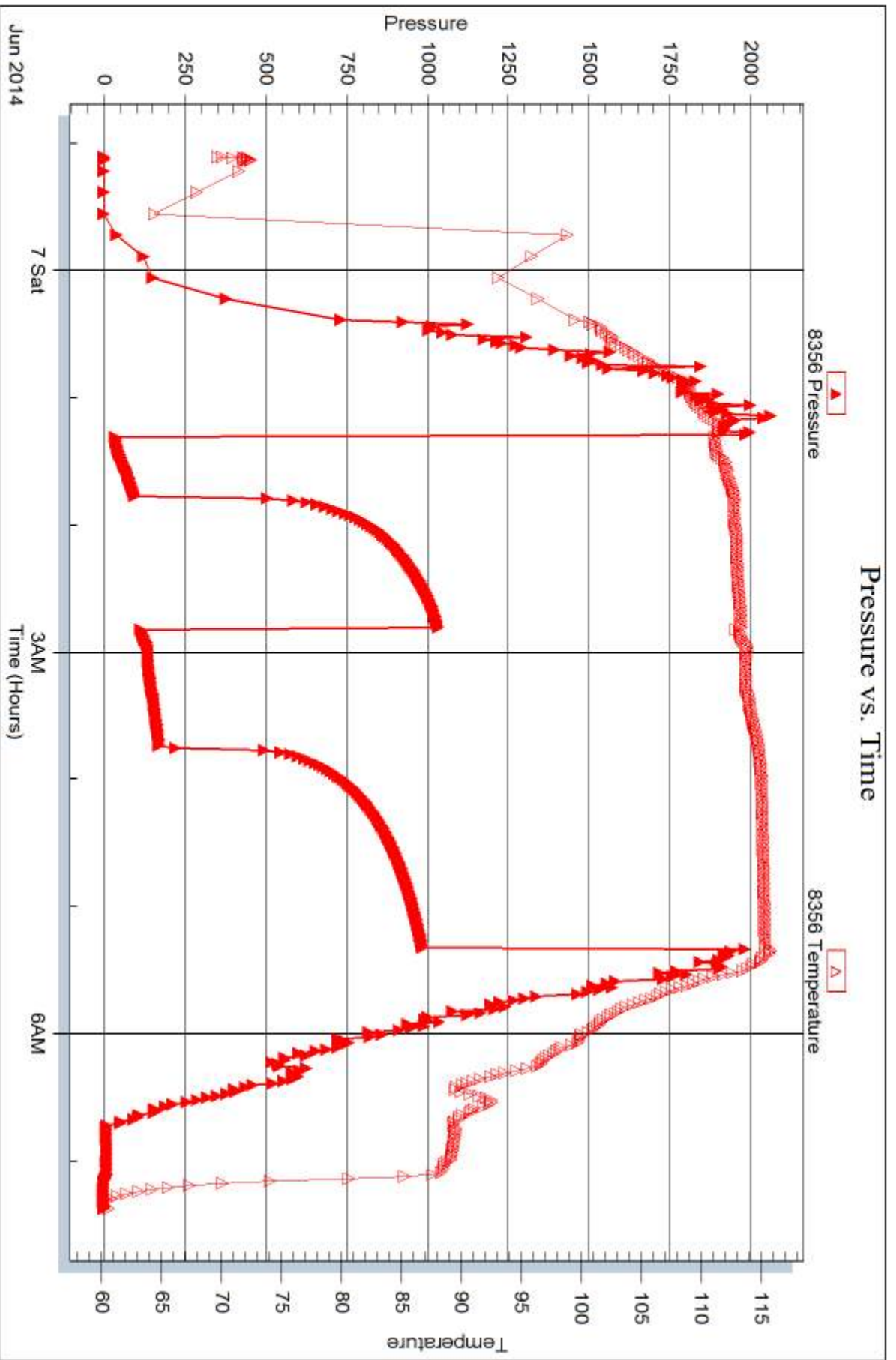


Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56490

Printed: 2014.06.13 @ 11:40:58



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.07 @ 19:20:29

End Date: 2014.06.08 @ 03:00:29

Job Ticket #: 56491 DST #: 2

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

Printed: 2014.06.13 @ 11:40:33

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 2
LKC E-F
2014.06.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:52:59

Time Test Ended: 03:00:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4050.00 ft (KB) To 4095.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4095.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 464.71 psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.07

End Date:

2014.06.08

Last Calib.:

2014.06.08

Start Time: 19:20:34

End Time:

03:00:28

Time On Btm:

2014.06.07 @ 20:51:59

Time Off Btm:

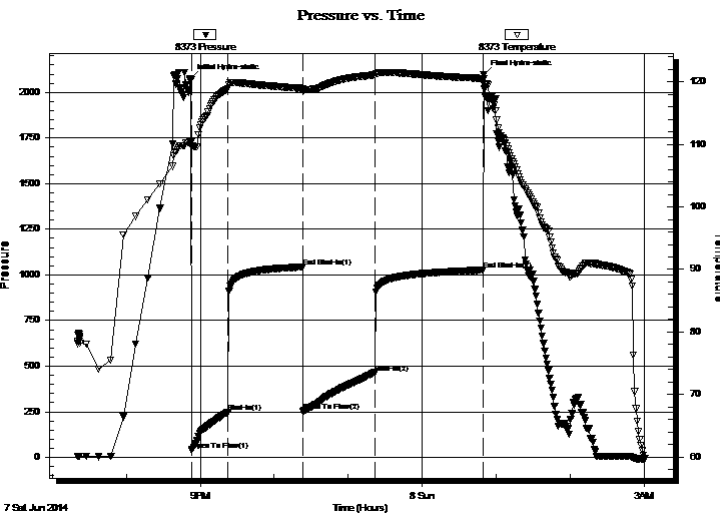
2014.06.08 @ 00:49:59

TEST COMMENT: IF: 1/4" blow BOB in 8 min.

IS: No return.

FF: BOB in 11 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.61	110.35	Initial Hydro-static
1	37.47	109.55	Open To Flow (1)
31	249.01	118.89	Shut-In(1)
91	1043.33	118.98	End Shut-In(1)
92	253.14	118.67	Open To Flow (2)
150	464.71	121.11	Shut-In(2)
238	1026.80	120.56	End Shut-In(2)
238	2097.51	120.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	water 100%w	6.55
248.00	mcw 80%w 20%m	3.48
144.00	mcw 60%w 40%m	2.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

Tool Information

Drill Pipe:	Length: 3818.00 ft	Diameter: 3.80 inches	Volume: 53.56 bbl	Tool Weight:	2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4050.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4023.00	
Shut In Tool	5.00			4028.00	
Hydraulic tool	5.00			4033.00	
Jars	5.00			4038.00	
Safety Joint	3.00			4041.00	
Packer	5.00			4046.00	28.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8373	Inside	4051.00	
Recorder	0.00	8356	Outside	4051.00	
Perforations	5.00			4056.00	
Change Over Sub	1.00			4057.00	
Drill Pipe	32.00			4089.00	
Change Over Sub	1.00			4090.00	
Bullnose	5.00			4095.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	water 100%w	6.547
248.00	mcw 80%w 20%m	3.479
144.00	mcw 60%w 40%m	2.020

Total Length: 1012.00 ft Total Volume: 12.046 bbl

Num Fluid Samples: 0

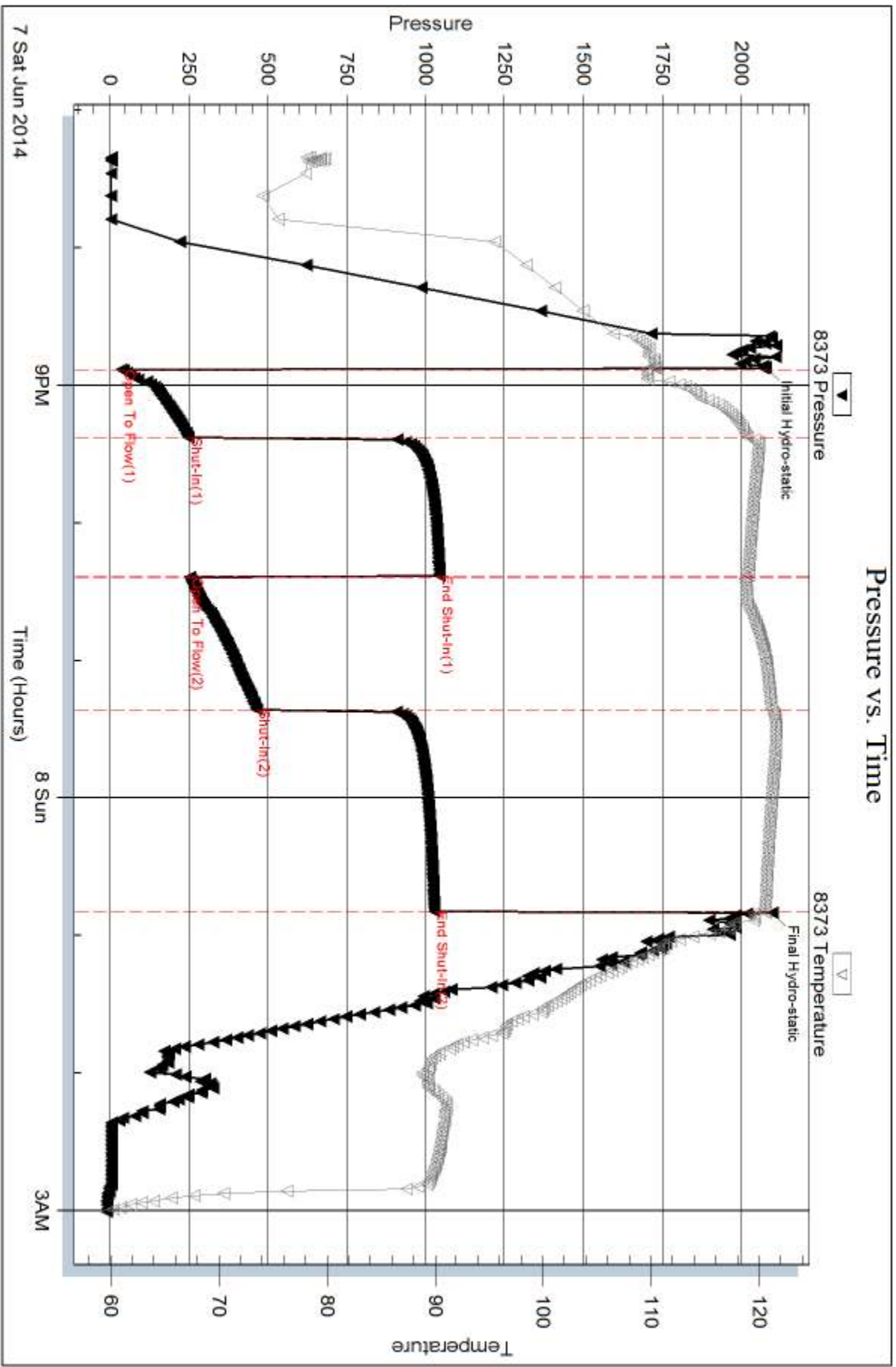
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .38@62=20000





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.08 @ 22:04:27

End Date: 2014.06.09 @ 05:18:57

Job Ticket #: 56492 DST #: 3

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

Printed: 2014.06.13 @ 11:40:09

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 3
LKC H-J
2014.06.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:57

Time Test Ended: 05:18:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4145.00 ft (KB) To 4245.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356

Outside

Press@RunDepth: 81.71 psig @ 4146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.08

End Date:

2014.06.09

Last Calib.:

2014.06.09

Start Time: 22:04:32

End Time:

05:18:56

Time On Btm:

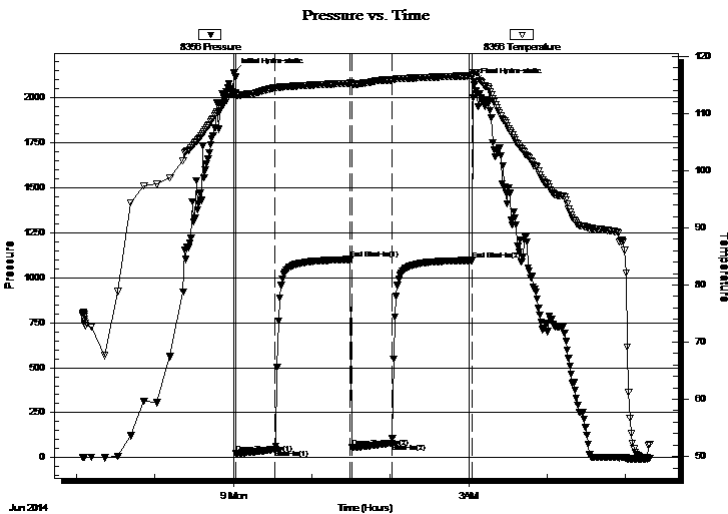
2014.06.09 @ 00:00:27

Time Off Btm:

2014.06.09 @ 03:03:57

TEST COMMENT: IF: 1/4" blow built to 2 1/2"
IS: No return.
FF: Surface blow built to 1/4"
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.17	113.50	Initial Hydro-static
2	23.04	113.19	Open To Flow (1)
32	47.15	114.51	Shut-In(1)
89	1101.59	115.32	End Shut-In(1)
90	55.58	115.14	Open To Flow (2)
121	81.71	115.85	Shut-In(2)
182	1096.54	116.62	End Shut-In(2)
184	2085.92	117.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 5%w 95%m	0.30
70.00	mud 100%m	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.80 inches	Volume: 54.88 bbl	Tool Weight:	2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 56.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4145.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	128.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4118.00	
Shut In Tool	5.00			4123.00	
Hydraulic tool	5.00			4128.00	
Jars	5.00			4133.00	
Safety Joint	3.00			4136.00	
Packer	5.00			4141.00	28.00 Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	8373	Inside	4146.00	
Recorder	0.00	8356	Outside	4146.00	
Perforations	29.00			4175.00	
Change Over Sub	1.00			4176.00	
Drill Pipe	63.00			4239.00	
Change Over Sub	1.00			4240.00	
Bullnose	5.00			4245.00	100.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	w cm 5%w 95%m	0.295
70.00	mud 100%m	0.344

Total Length: 130.00 ft Total Volume: 0.639 bbf

Num Fluid Samples: 0

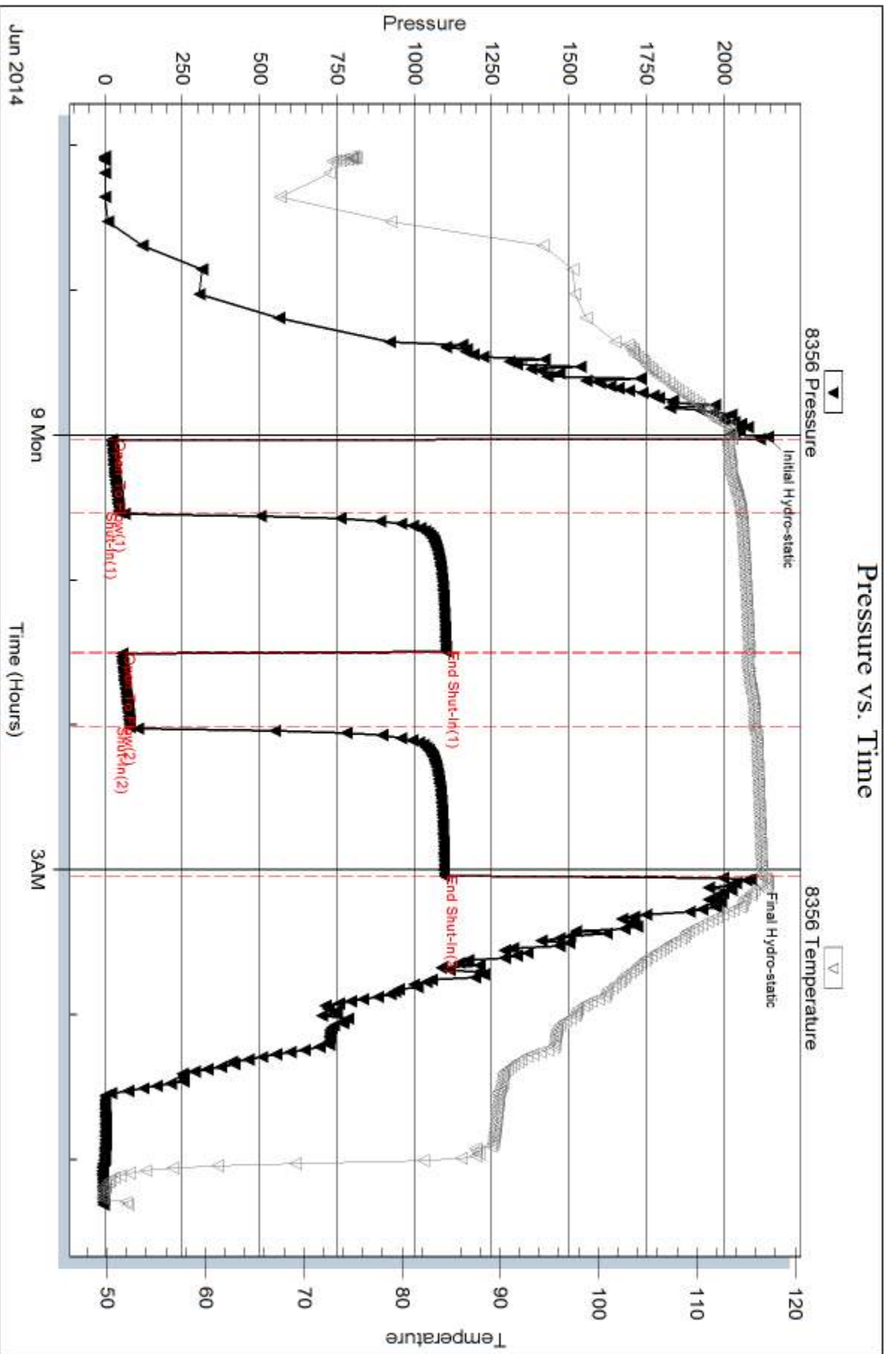
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Think i have a bad battery no readings on 8773 have new one.





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.10 @ 07:15:59

End Date: 2014.06.10 @ 16:01:29

Job Ticket #: 56493 DST #: 4

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

Printed: 2014.06.13 @ 11:39:45



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:29

Time Test Ended: 16:01:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4390.00 ft (KB) To 4455.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 599.22 psig @ 4391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date:

2014.06.10

Last Calib.:

2014.06.10

Start Time: 07:16:04

End Time:

16:01:29

Time On Btm:

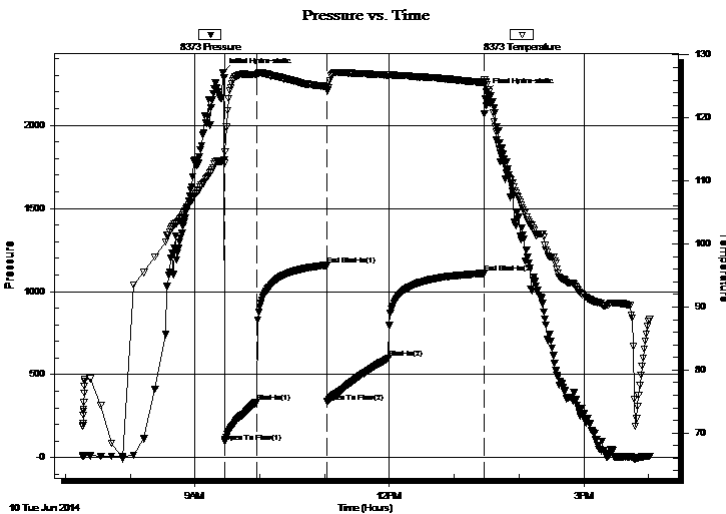
2014.06.10 @ 09:25:59

Time Off Btm:

2014.06.10 @ 13:29:29

TEST COMMENT: IF: BOB in 6 min.
IS: Surface blow built to 1/4" in 10 min died in 15 min.
FF: BOB in 9 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.57	113.18	Initial Hydro-static
2	96.06	112.79	Open To Flow (1)
31	335.65	126.89	Shut-In(1)
96	1158.29	124.97	End Shut-In(1)
97	337.26	124.51	Open To Flow (2)
154	599.22	126.80	Shut-In(2)
242	1109.53	125.63	End Shut-In(2)
244	2199.79	125.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
624.00	mcw 95%w 5%m	6.60
310.00	mcw 80%w 20%m	4.35
129.00	ocmw 2%o 68%w 30%m	1.81

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:29

Time Test Ended: 16:01:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4390.00 ft (KB) To 4455.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10 End Date: 2014.06.10

Last Calib.: 2014.06.10

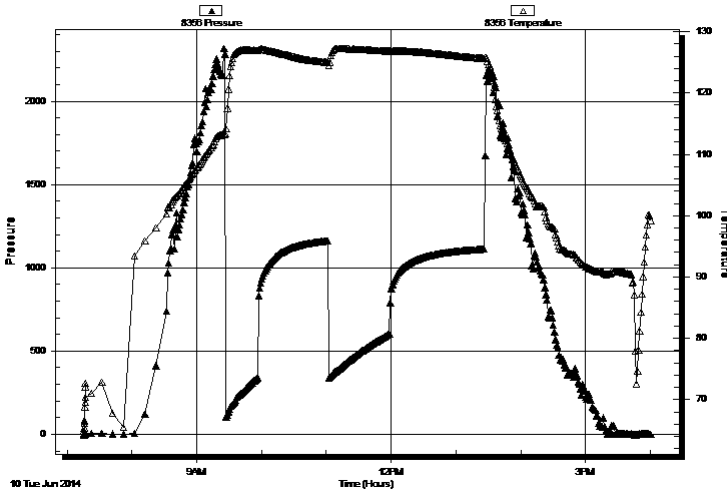
Start Time: 07:15:18 End Time: 16:00:43

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 6 min.
IS: Surface blow built to 1/4" in 10 min died in 15 min.
FF: BOB in 9 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
624.00	mcw 95%w 5%m	6.60
310.00	mcw 80%w 20%m	4.35
129.00	ocmw 2%o 68%w 30%m	1.81

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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

Tool Information

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 bbl	Tool Weight:	2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4390.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	93.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Stubb	1.00			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8373	Inside	4391.00	
Recorder	0.00	8356	Outside	4391.00	
Perforations	25.00			4416.00	
Change Over Sub	1.00			4417.00	
Drill Pipe	32.00			4449.00	
Change Over Sub	1.00			4450.00	
Bullnose	5.00			4455.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
624.00	mcw 95%w 5%m	6.603
310.00	mcw 80%w 20%m	4.348
129.00	ocmw 2%o 68%w 30%m	1.810

Total Length: 1063.00 ft Total Volume: 12.761 bbf

Num Fluid Samples: 0

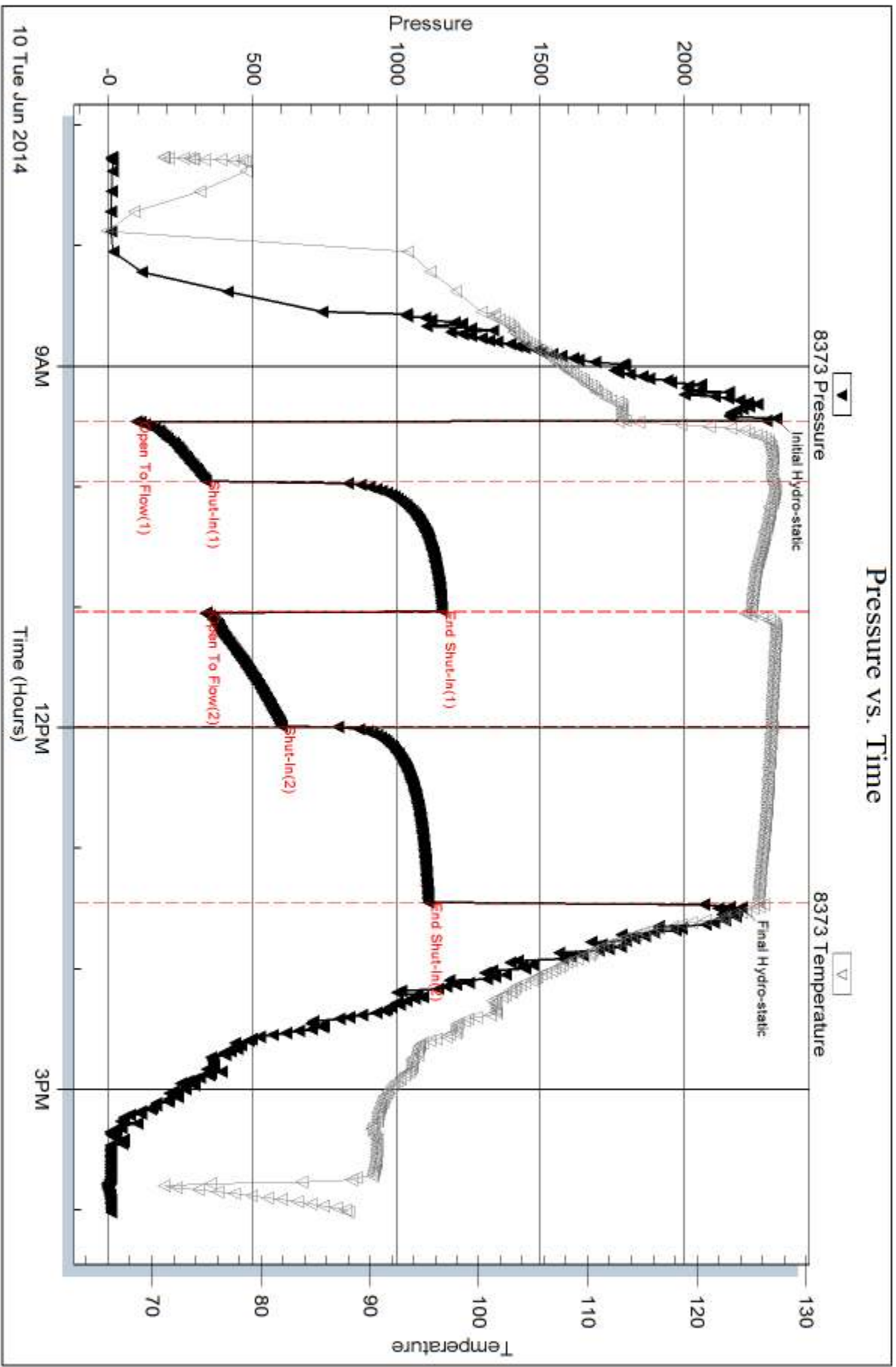
Num Gas Bombs: 0

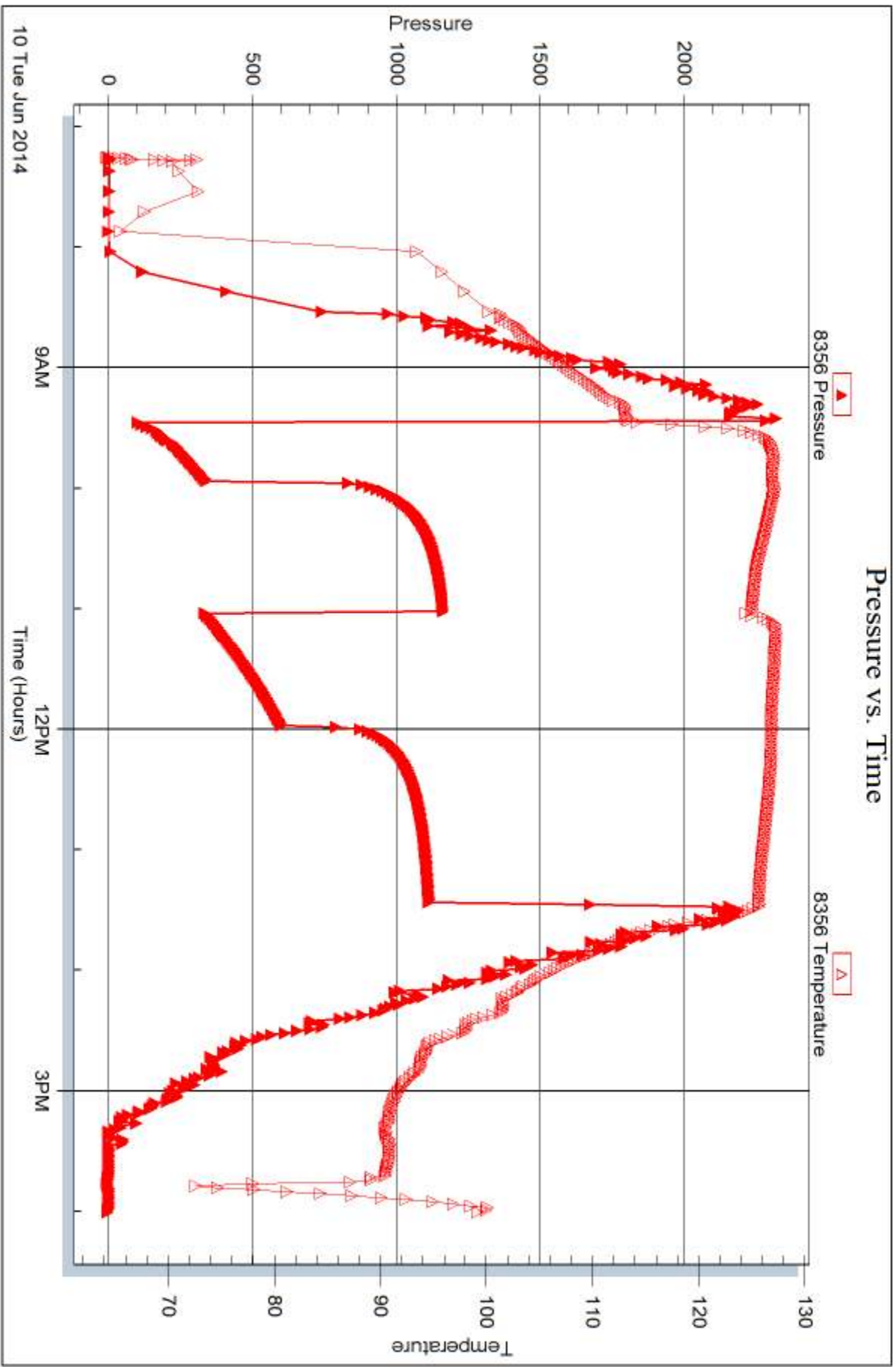
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .18@84=30000







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.11 @ 06:18:50

End Date: 2014.06.11 @ 13:22:20

Job Ticket #: 56494 DST #: 5

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

Printed: 2014.06.13 @ 11:34:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:50

Time Test Ended: 13:22:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4445.00 ft (KB) To 4535.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 28.94 psig @ 4446.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.11

End Date:

2014.06.11

Last Calib.:

2014.06.11

Start Time: 06:18:55

End Time:

13:22:19

Time On Btm:

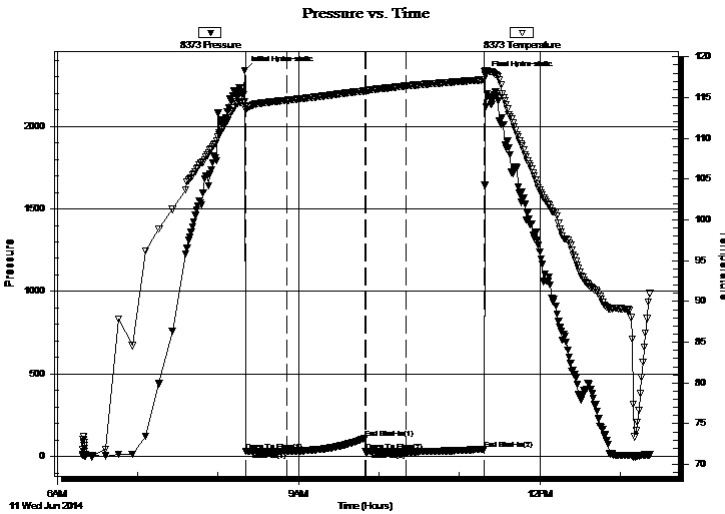
2014.06.11 @ 08:19:50

Time Off Btm:

2014.06.11 @ 11:19:20

TEST COMMENT: IF: Surface blow died in 6 min.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.79	114.48	Initial Hydro-static
1	32.17	113.50	Open To Flow (1)
31	31.59	114.65	Shut-In(1)
90	109.63	115.82	End Shut-In(1)
90	28.88	115.78	Open To Flow (2)
121	28.94	116.42	Shut-In(2)
179	45.43	117.19	End Shut-In(2)
180	2309.97	118.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:20:50
 Time Test Ended: 13:22:20
 Interval: **4445.00 ft (KB) To 4535.00 ft (KB) (TVD)**
 Total Depth: 4535.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2987.00 ft (KB)
 2976.00 ft (CF)
 KB to GR/CF: 11.00 ft

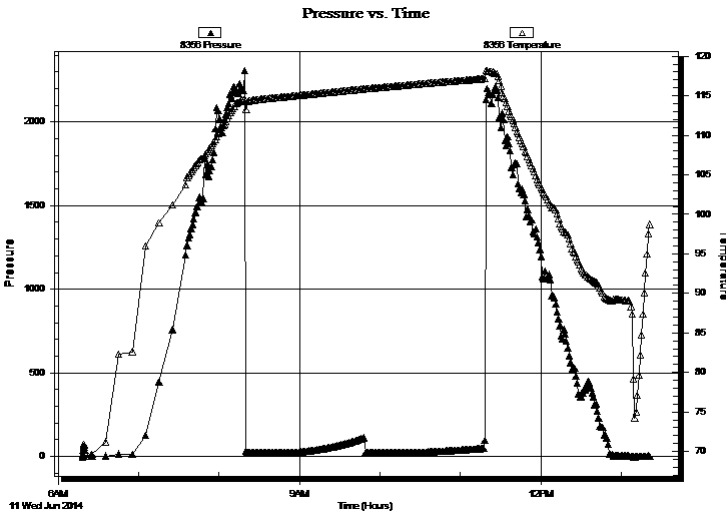
Serial #: 8356

Outside

Press@RunDepth: psig @ 4446.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.11 End Date: 2014.06.11 Last Calib.: 2014.06.11
 Start Time: 06:18:18 End Time: 13:21:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow died in 6 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

Tool Information

Drill Pipe:	Length: 4191.00 ft	Diameter: 3.80 inches	Volume: 58.79 bbl	Tool Weight:	2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 59.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	4445.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	118.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Jars	5.00			4433.00	
Safety Joint	3.00			4436.00	
Packer	5.00			4441.00	28.00 Bottom Of Top Packer
Packer	4.00			4445.00	
Stubb	1.00			4446.00	
Recorder	0.00	8373	Inside	4446.00	
Recorder	0.00	8356	Outside	4446.00	
Perforations	19.00			4465.00	
Change Over Sub	1.00			4466.00	
Drill Pipe	63.00			4529.00	
Change Over Sub	1.00			4530.00	
Bullnose	5.00			4535.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 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:

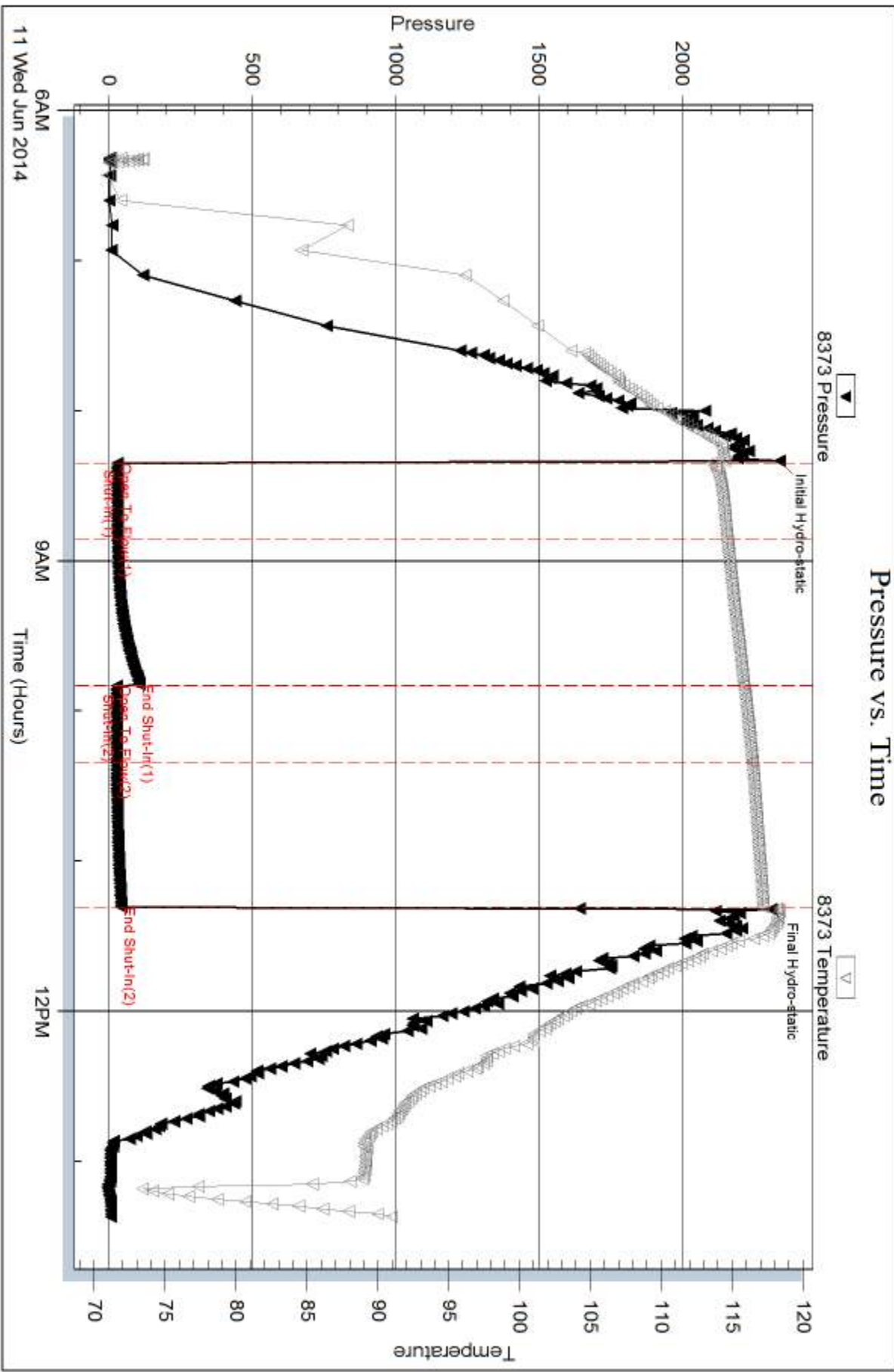
Serial #: 8373

Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 56494

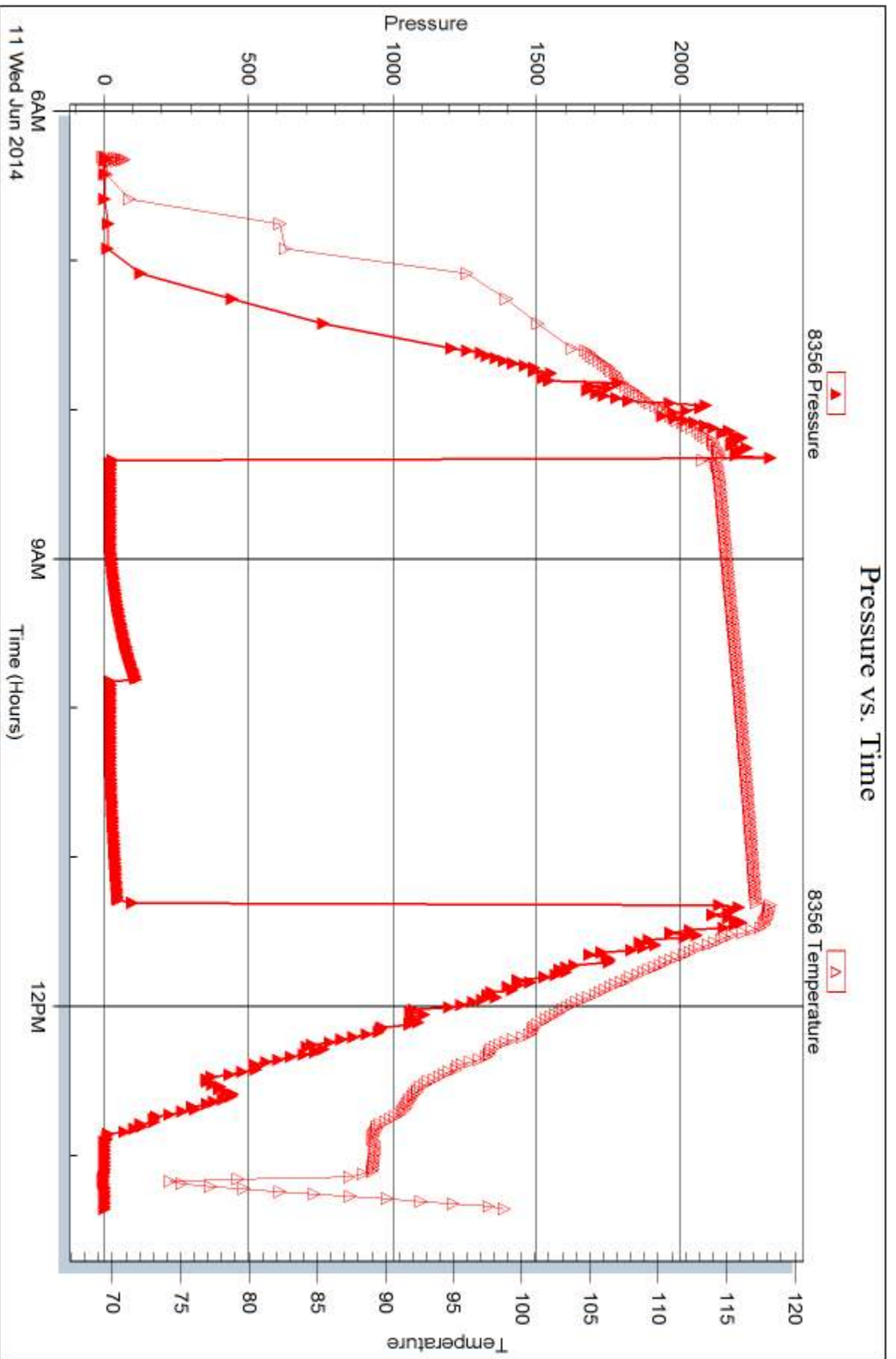
Printed: 2014.06.13 @ 11:34:43

Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 56494

Printed: 2014.06.13 @ 11:34:43



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.12 @ 05:06:40

End Date: 2014.06.12 @ 13:37:40

Job Ticket #: 56495 DST #: 6

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

Printed: 2014.06.13 @ 11:34:19

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 6
Johnson
2014.06.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

ATTN: Kevin Kessler

Job Ticket: 56495

DST#: 6

Test Start: 2014.06.12 @ 05:06:40

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:40

Time Test Ended: 13:37:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

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

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373 Inside

Press@RunDepth: 103.47 psig @ 4546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.12

End Date:

2014.06.12

Last Calib.: 2014.06.12

Start Time: 05:06:45

End Time:

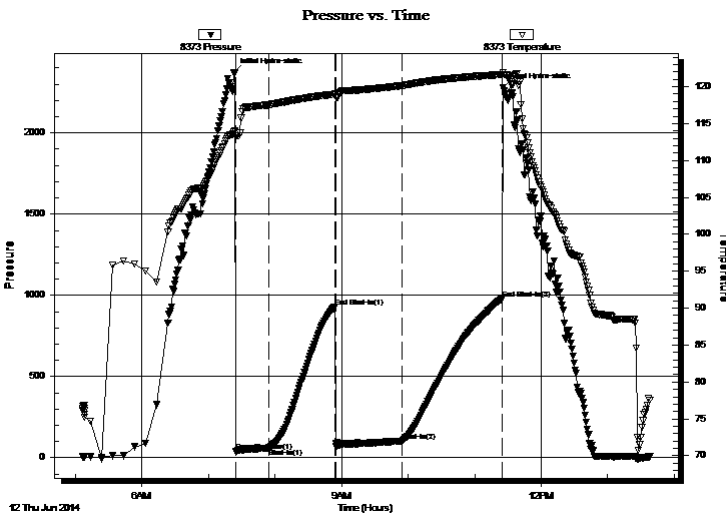
13:37:39

Time On Btm: 2014.06.12 @ 07:23:10

Time Off Btm: 2014.06.12 @ 11:25:40

TEST COMMENT: IF: BOB in 24 min.
IS: No return.
FF: BOB in 11 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.26	113.89	Initial Hydro-static
2	37.49	113.40	Open To Flow (1)
31	59.32	117.53	Shut-In(1)
91	930.13	118.98	End Shut-In(1)
92	70.03	118.58	Open To Flow (2)
152	103.47	120.14	Shut-In(2)
242	980.99	121.65	End Shut-In(2)
243	2278.86	121.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mco 50%g 10%o 40%m	0.30
124.00	ocm 10%o 90%m	0.61
0.00	496 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 Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:40

Time Test Ended: 13:37:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

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

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.12

End Date:

2014.06.12

Last Calib.:

2014.06.12

Start Time: 05:06:21

End Time:

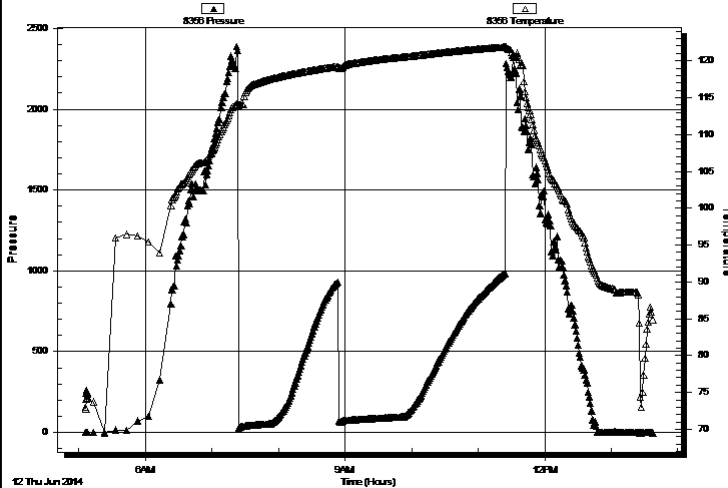
13:37:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 24 min.
IS: No return.
FF: BOB in 11 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcgo 50%g 10%o 40%m	0.30
124.00	ocm 10%o 90%m	0.61
0.00	496 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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.80 inches	Volume: 60.15 bbl	Tool Weight: 2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4545.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4518.00	
Shut In Tool	5.00			4523.00	
Hydraulic tool	5.00			4528.00	
Jars	5.00			4533.00	
Safety Joint	3.00			4536.00	
Packer	5.00			4541.00	28.00 Bottom Of Top Packer
Packer	4.00			4545.00	
Stubb	1.00			4546.00	
Recorder	0.00	8373	Inside	4546.00	
Recorder	0.00	8356	Outside	4546.00	
Perforations	4.00			4550.00	
Change Over Sub	1.00			4551.00	
Drill Pipe	63.00			4614.00	
Change Over Sub	1.00			4615.00	
Bullnose	5.00			4620.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	mcgo 50%g 10%o 40%m	0.305
124.00	ocm 10%o 90%m	0.610
0.00	496 GIP	0.000

Total Length: 186.00 ft

Total Volume: 0.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8373

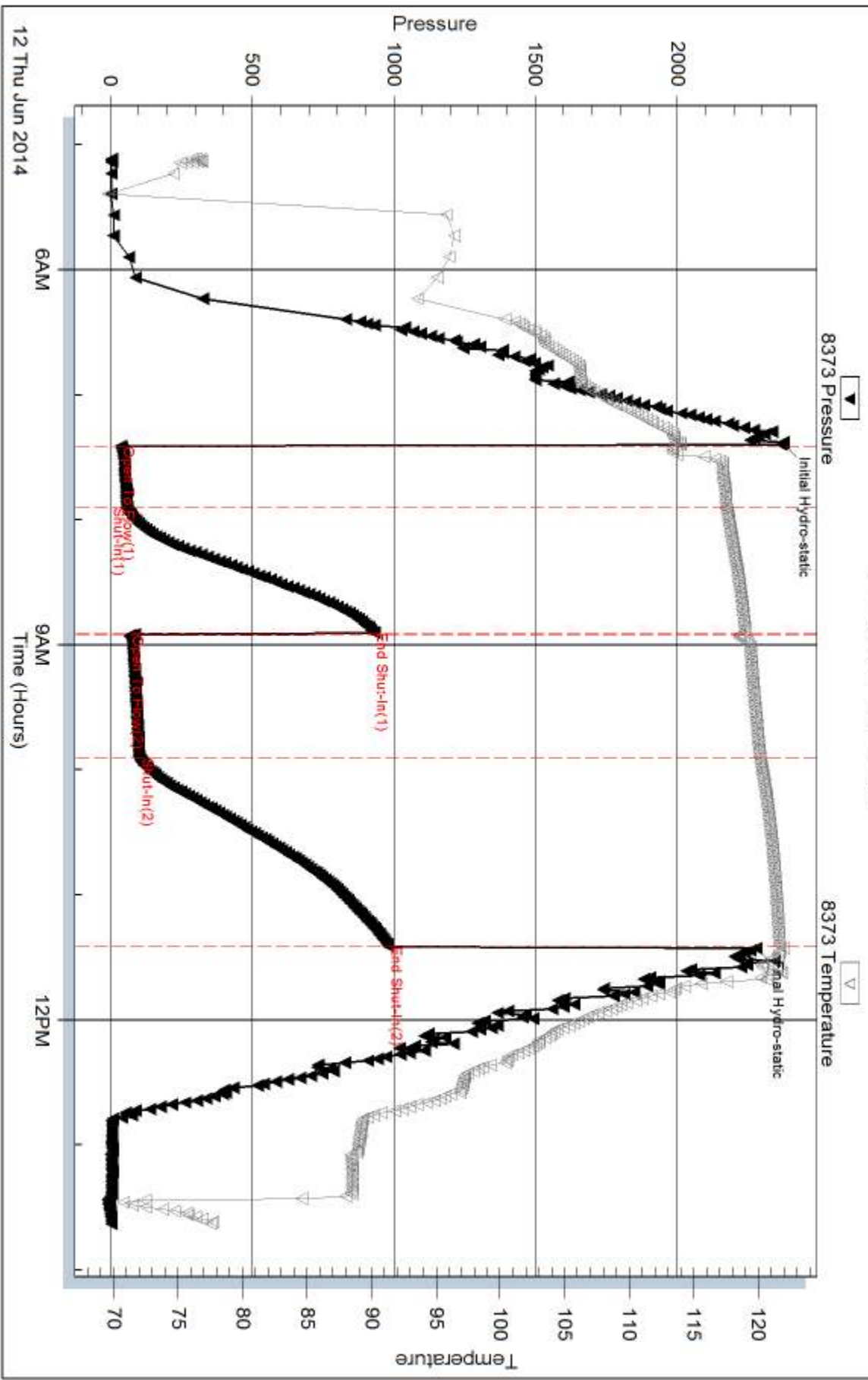
Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 6

Pressure vs. Time

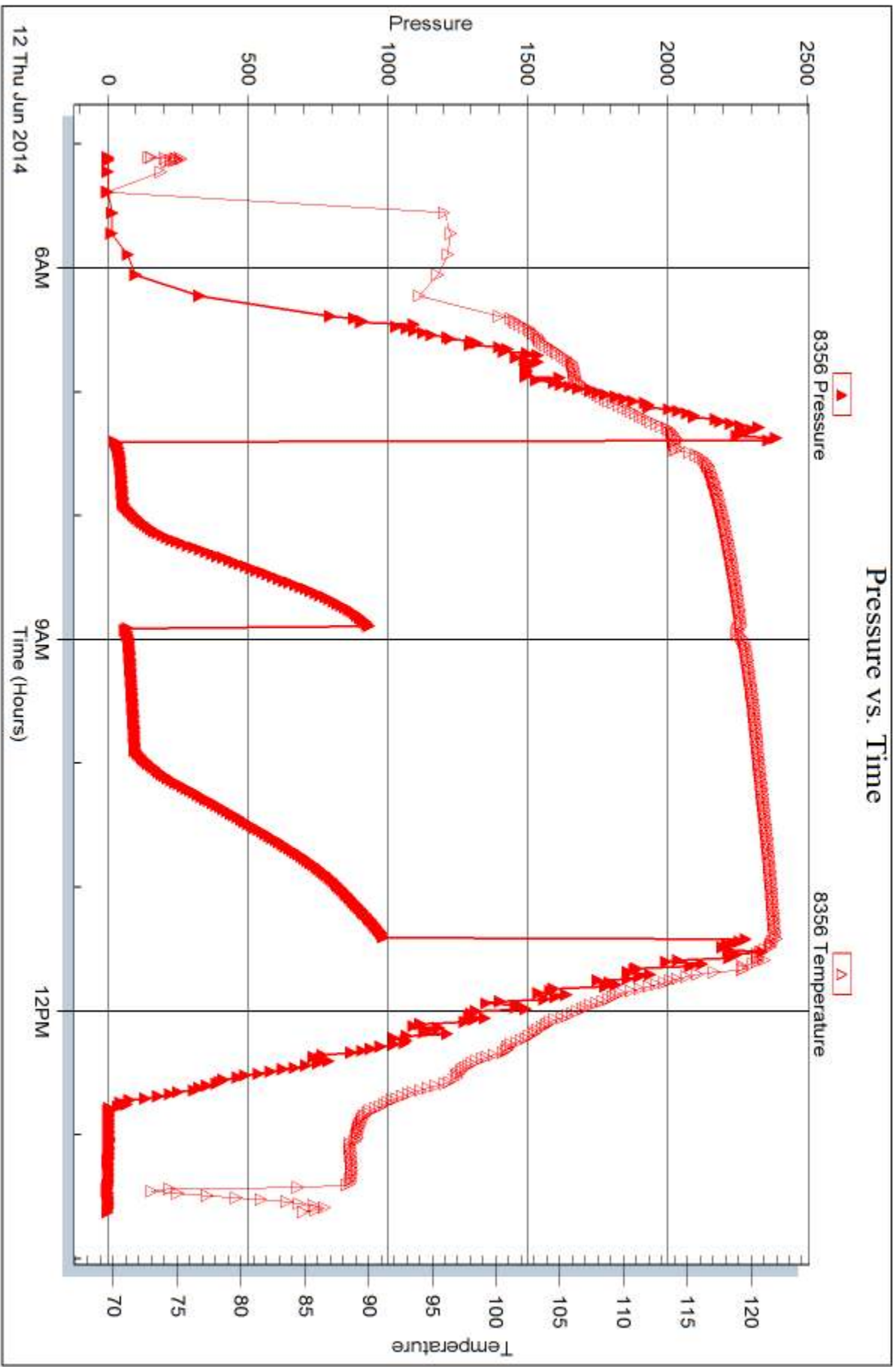


Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 56495

Printed: 2014.06.13 @ 11:34:20



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.13 @ 00:32:04

End Date: 2014.06.13 @ 07:36:04

Job Ticket #: 56496 DST #: 7

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

Printed: 2014.06.13 @ 11:33:47

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 7
Morrow Sand
2014.06.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

ATTN: Kevin Kessler

Job Ticket: 56496

DST#: 7

Test Start: 2014.06.13 @ 00:32:04

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:04

Time Test Ended: 07:36:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4610.00 ft (KB) To 4670.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4670.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373 Inside

Press@RunDepth: 43.86 psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.13

End Date:

2014.06.13

Last Calib.:

2014.06.13

Start Time: 00:32:09

End Time:

07:36:03

Time On Btm:

2014.06.13 @ 02:31:34

Time Off Btm:

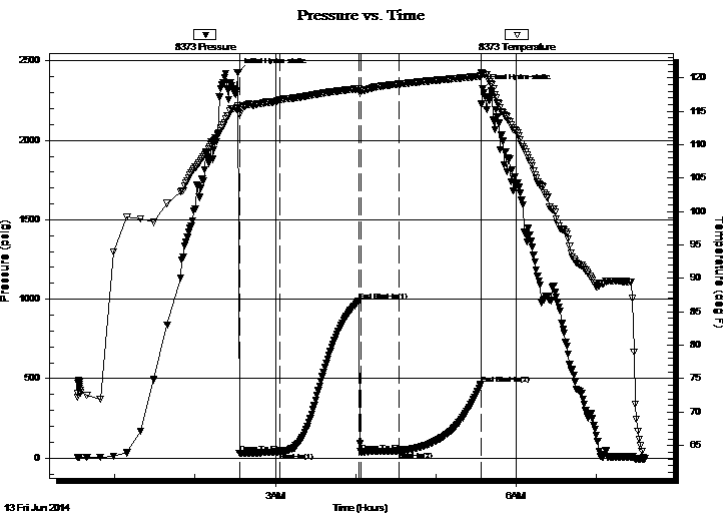
2014.06.13 @ 05:35:04

TEST COMMENT: IF: 1/4" blow died in 15 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2428.19	115.51	Initial Hydro-static
2	31.17	114.58	Open To Flow (1)
32	37.02	116.64	Shut-In(1)
91	989.38	118.37	End Shut-In(1)
92	39.19	118.01	Open To Flow (2)
121	43.86	119.04	Shut-In(2)
182	464.89	120.25	End Shut-In(2)
184	2327.97	120.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:04

Time Test Ended: 07:36:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4610.00 ft (KB) To 4670.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4670.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.13

End Date:

2014.06.13

Last Calib.:

2014.06.13

Start Time: 00:32:39

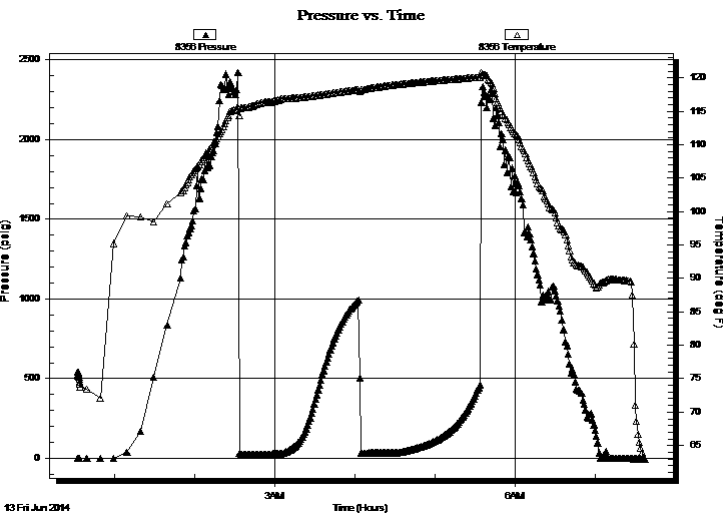
End Time:

07:36:33

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 15 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	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 Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

Tool Information

Drill Pipe:	Length: 4351.00 ft	Diameter: 3.80 inches	Volume: 61.03 bbl	Tool Weight:	2000.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 62.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	4610.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4583.00	
Shut In Tool	5.00			4588.00	
Hydraulic tool	5.00			4593.00	
Jars	5.00			4598.00	
Safety Joint	3.00			4601.00	
Packer	5.00			4606.00	28.00 Bottom Of Top Packer
Packer	4.00			4610.00	
Stubb	1.00			4611.00	
Recorder	0.00	8373	Inside	4611.00	
Recorder	0.00	8356	Outside	4611.00	
Perforations	20.00			4631.00	
Change Over Sub	1.00			4632.00	
Drill Pipe	32.00			4664.00	
Change Over Sub	1.00			4665.00	
Bullnose	5.00			4670.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud oil spots 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

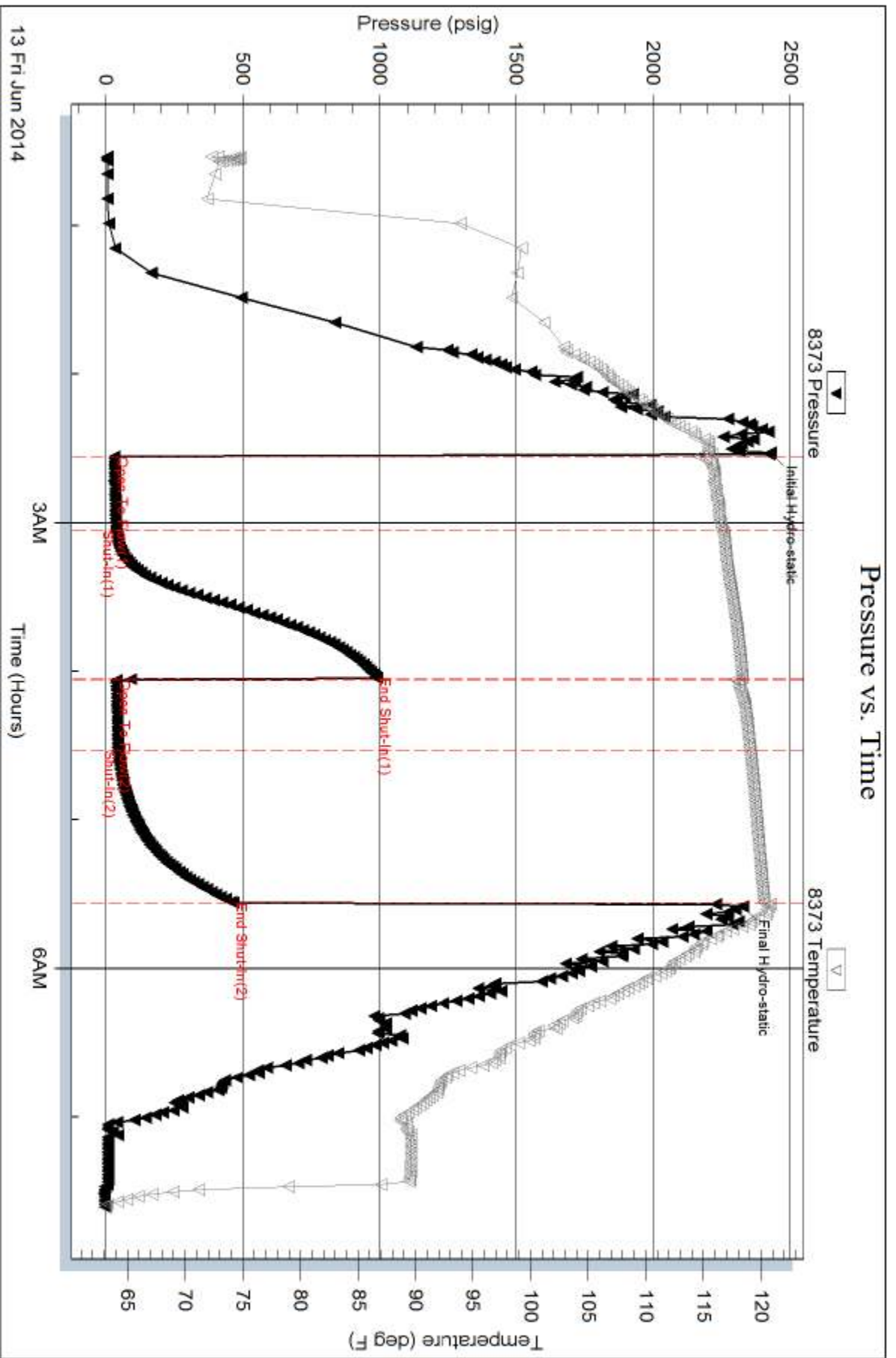
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Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 7

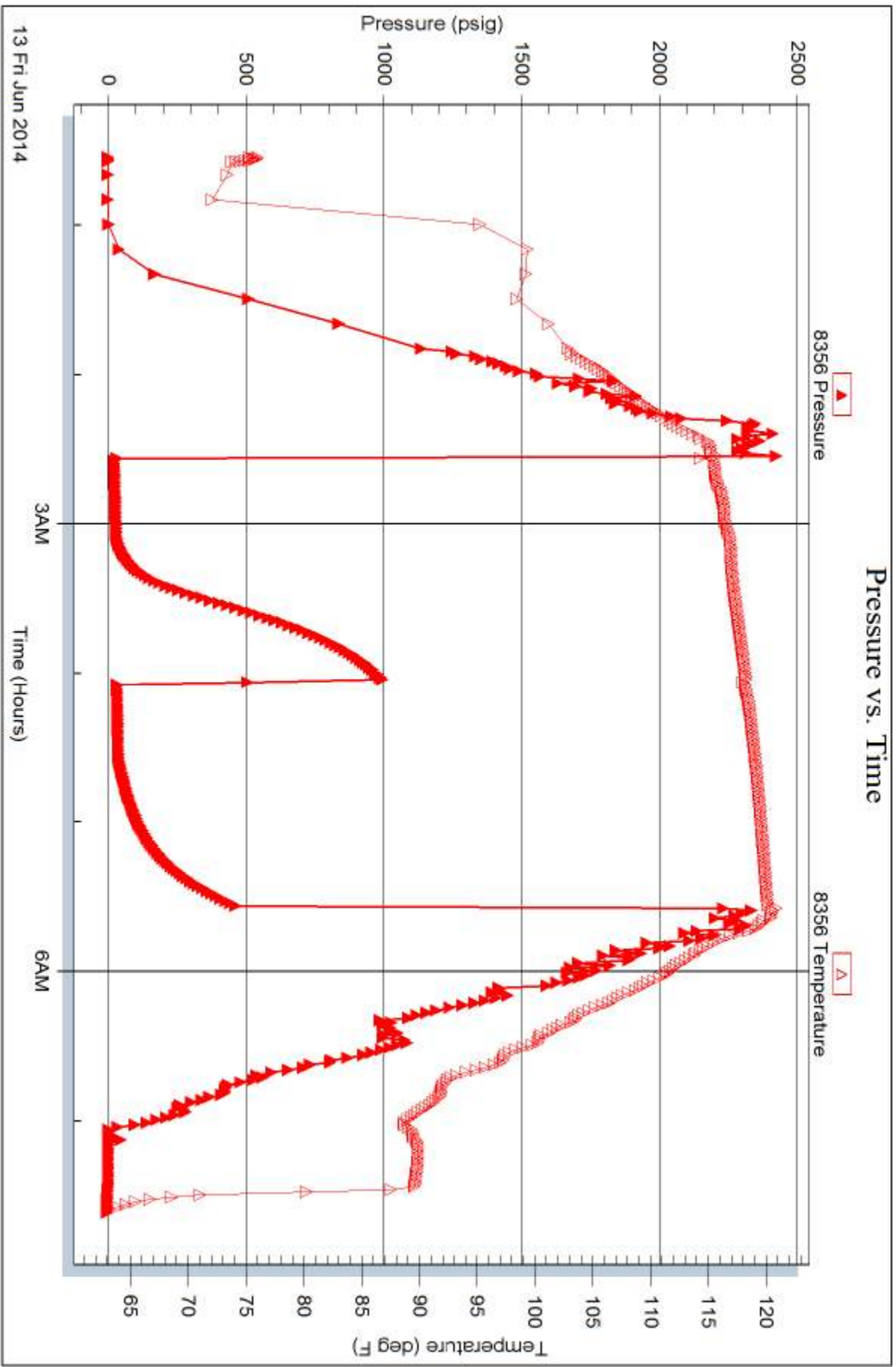


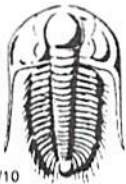
Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 7





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56490

4/10

Well Name & No. Wilkins unit 1-6 Test No. 1 Date 6-6-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address 250 N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 17S Rge. 32W Co. Scott State KS

Interval Tested 3925 4015 Zone Tested Toronto - Lansing B
 Anchor Length 90 Drill Pipe Run 3693 Mud Wt. 9.0
 Top Packer Depth 3920 Drill Collars Run 236 Vis 50
 Bottom Packer Depth 3925 Wt. Pipe Run — WL 7.2
 Total Depth 4015 Chlorides 6500 ppm System LCM 2

Blow Description IF: 1/2 blow built to 6.
IS: No return.
FF: surface blow built to 17.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>144</u>	<u>mud</u>			<u>100</u>	
<u>186</u>	<u>wcm</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 Total 330 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2001 Test 1250 T-On Location 22:00
 (B) First Initial Flow 34 Jars 250 T-Started 23:06
 (C) First Final Flow 104 Safety Joint 75 T-Open 1:15
 (D) Initial Shut-In 1030 Circ Sub NIL T-Pulled 5:15
 (E) Second Initial Flow 118 Hourly Standby — T-Out 7:20
 (F) Second Final Flow 172 Mileage 30- 46.50 Comments —
 (G) Final Shut-In 981 Sampler —
 (H) Final Hydrostatic 1982 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder —

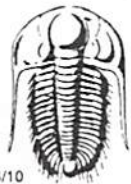
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Day Standby —
 Accessibility —

Sub Total 1621.50 Total 1621.50 MP/DST Disc't —

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56491

Well Name & No. Wilkins unit 1-6 Test No. 2 Date 6-7-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4050 4095 Zone Tested Lmsing EdF
 Anchor Length _____ 45 Drill Pipe Run 3818 Mud Wt. 9.1
 Top Packer Depth _____ 4045 Drill Collars Run 236 Vis 57
 Bottom Packer Depth _____ 4050 Wt. Pipe Run _____ WL 8.0
 Total Depth _____ 4095 Chlorides 9500 ppm System LCM 2
 Blow Description IF: 1/4 blow ~~back~~ to Bob in 8 min.
IS: No return.
FF: Bob in 11 min.
FF: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>144</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>248</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>620</u>	<u>water</u>		<u>100</u>		
_____	_____				
_____	_____				

Rec Total 1012 BHT 120 Gravity _____ API RW .38 @ 62° F Chlorides 20,000 ppm
 (A) Initial Hydrostatic 2076 Test 1250 T-On Location 18:45
 (B) First Initial Flow 37 Jars 250 T-Started 19:20
 (C) First Final Flow 249 Safety Joint 75 T-Open 20:52
 (D) Initial Shut-In 1043 Circ Sub N/C T-Pulled 00:52
 (E) Second Initial Flow 253 Hourly Standby _____ T-Out 3:00
 (F) Second Final Flow 464 Mileage 30 - 46.50 Comments _____
 (G) Final Shut-In 1026 Sampler _____
 (H) Final Hydrostatic 2097 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 90 Day Standby _____ Total 1621.50
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1621.50

Approved By Kevin Kessler Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56492

4/10

Well Name & No. Wilkins unit 1-6 Test No. 3 Date 6-8-14
 Company Muffin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4145 4245 Zone Tested Lmsing H-5
 Anchor Length _____ 106 Drill Pipe Run 3912 Mud Wt. 9.1
 Top Packer Depth _____ 4146 Drill Collars Run 236 Vis 55
 Bottom Packer Depth _____ 4145 Wt. Pipe Run _____ WL 7.6
 Total Depth _____ 4245 Chlorides 8600 ppm System LCM 3
 Blow Description IF: 1/4 blow built to 2 1/2.
IS: No return.
FF: Surface blow built to 1/4.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Mud</u>			<u>100</u>	
<u>60</u>	<u>w/cm</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 _____

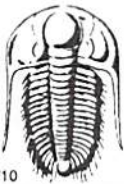
Rec Total 130 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2140</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>21:40</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:04</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:00</u>
(D) Initial Shut-In <u>1101</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>3:06</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:20</u>
(F) Second Final Flow <u>81</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> <u>46.50</u>	Comments _____
(G) Final Shut-In <u>1096</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2085</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1621.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1621.50</u>	

Approved By Kevin Kessler

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56493

Well Name & No. Wilken's unit 1-6 Test No. 4 Date 6-10-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4390 4455 Zone Tested Marmaton
 Anchor Length _____ Drill Pipe Run 4131 Mud Wt. 9.1
 Top Packer Depth _____ Drill Collars Run 236 Vis 58
 Bottom Packer Depth 4390 Wt. Pipe Run _____ WL 8.0
 Total Depth 4455 Chlorides 11,000 ppm System LCM 2

Blow Description IF! BoB in 6 min.
IS! Surface blow built to 1/4 in 10 min. in 15 min.
FF! BoB in 9 min.
FS! No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>129</u>	<u>ocmw</u>	<u>2</u>	<u>68</u>	<u>30</u>	
<u>310</u>	<u>MLW</u>		<u>80</u>	<u>20</u>	
<u>624</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

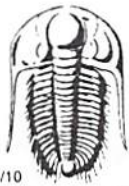
Rec Total 1059 BHT 126 Gravity _____ API RW .18 @ 84 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 2318 Test 1250 T-On Location 6:30
 (B) First Initial Flow 96 Jars 250 T-Started 7:15
 (C) First Final Flow 335 Safety Joint 75 T-Open 9:25
 (D) Initial Shut-In 1158 Circ Sub N/L T-Pulled 13:25
 (E) Second Initial Flow 337 Hourly Standby _____ T-Out 16:00
 (F) Second Final Flow 599 Mileage 30 - 46.50 Comments _____
 (G) Final Shut-In 1109 Sampler _____
 (H) Final Hydrostatic 2199 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer 320
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1621.50
 Total 1941.50
 MP/DST Disc't _____

Approved By Kevin Kessler Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56494

Well Name & No. Welkens unit 1-6 Test No. 5 Date 6-11-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4445 4535 Zone Tested Pawnee - Ft Scott
 Anchor Length 90 Drill Pipe Run 4191 Mud Wt. 9.2
 Top Packer Depth 4440 Drill Collars Run 236 Vis 52
 Bottom Packer Depth 4445 Wt. Pipe Run — WL 8.0
 Total Depth 4535 Chlorides 9300 ppm System LCM 1.5
 Blow Description IF! Surface blow died in 6 min.
ES! No return.
FF! No blow.
ES! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</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

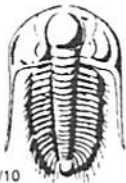
Rec Total 5 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2338</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:50</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:18</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:20</u>
(D) Initial Shut-In <u>109</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>11:20</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:20</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>30-</u> 46.50	Comments _____
(G) Final Shut-In <u>45</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2309</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1621.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1621.50</u>	

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

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56495

4/10

Well Name & No. Wilkins unit 1-6 Test No. 6 Date 6-12-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4545 4620 Zone Tested Johnson
 Anchor Length _____ Drill Pipe Run 4288 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 236 Vis 52
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 8.0
 Total Depth 4620 Chlorides 8600 ppm System LCM 2

Blow Description IF: BoB in 24 min.
IS: No return.
FF: BoB in 11 min.
FS: surface blows died in 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>6CM</u>	<u>10</u>	<u>10</u>	<u>90</u>	
<u>62</u>	<u>MC90</u>	<u>50</u>	<u>80</u>	<u>40</u>	
____	____	____	____	____	____
____	<u>496 GIP</u>	____	____	____	____
____	____	____	____	____	____

Rec Total 186 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2373</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:30</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:06</u>
(C) First Final Flow <u>59</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:24</u>
(D) Initial Shut-In <u>930</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>11:24</u>
(E) Second Initial Flow <u>70</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:40</u>
(F) Second Final Flow <u>103</u>	<input checked="" type="checkbox"/> Mileage <u>30-</u> 46.50	Comments _____
(G) Final Shut-In <u>980</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2278</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

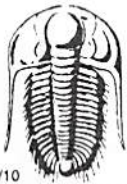
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1621.50

Approved By Kevin Kessler Our Representative _____

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. 56496

Well Name & No. Wilkins unit 1-6 Test No. 7 Date 6-12-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kestler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4610 4670 Zone Tested Morrow sand
 Anchor Length _____ Drill Pipe Run 4351 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 236 Vis 55
 Bottom Packer Depth 4610 Wt. Pipe Run _____ WL 8.0
 Total Depth 4670 Chlorides 9600 ppm System LCM 2
 Blow Description IF: 1/4 blow died in 15 min.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud 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 15 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2428</u>	<input checked="" type="checkbox"/> Test	1250	T-On Location <u>28:20</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars	250	T-Started <u>00:32</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint	75	T-Open <u>2:32</u>
(D) Initial Shut-In <u>989</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIL</u>	T-Pulled <u>5:32</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby		T-Out <u>7:40</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage	<u>30 - 46.50</u>	Comments _____
(G) Final Shut-In <u>464</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic <u>2327</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby		Total <u>1621.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't _____
	Sub Total	<u>1621.50</u>	

Approved By Kevin Kestler Our Representative [Signature]
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