



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Munn #1-12

12-2s-38w Cheyenne KS

Start Date: 2016.06.07 @ 02:53:00

End Date: 2016.06.07 @ 11:15:00

Job Ticket #: 65347 DST #: 1

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

Printed: 2016.06.13 @ 15:51:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65347

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 02:53:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:18:30

Time Test Ended: 11:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4116.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3228.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press@RunDepth: 24.62 psig @ 4117.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.07 End Date: 2016.06.07

Last Calib.: 2016.06.07

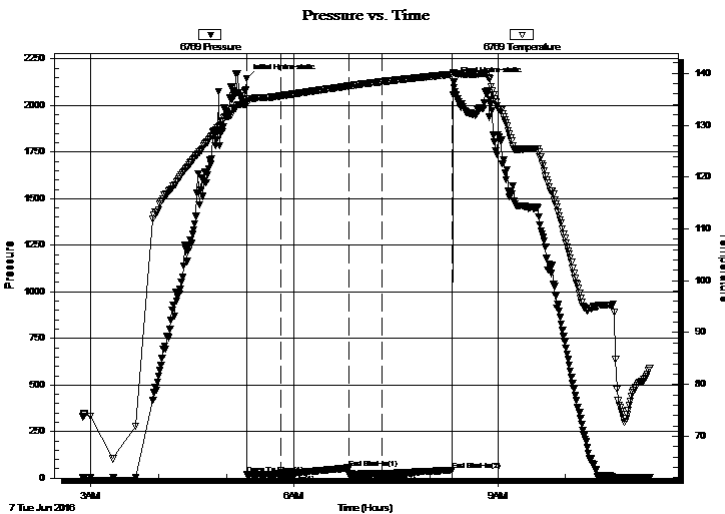
Start Time: 02:53:05 End Time: 11:14:59

Time On Btm: 2016.06.07 @ 05:18:15

Time Off Btm: 2016.06.07 @ 08:21:00

TEST COMMENT: 30 - IF: Blow built to 3/4" at 15 min., died back to 1/4" at close
60 - ISI: No blow back
30 - FF: No blow
60 - FSI: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.16	134.42	Initial Hydro-static
1	20.16	134.22	Open To Flow (1)
30	22.79	135.65	Shut-In(1)
91	55.03	137.54	End Shut-In(1)
91	21.44	137.53	Open To Flow (2)
120	24.62	138.38	Shut-In(2)
181	42.73	139.81	End Shut-In(2)
183	2125.55	140.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	SOCM 96% m, 4% o	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65347

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 02:53:00

Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 55.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4116.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 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

Change Over Sub	1.00			4088.00	
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	3.00			4106.00	
Packer	5.00			4111.00	29.00 Bottom Of Top Packer
Packer	5.00			4116.00	
Stubb	1.00			4117.00	
Recorder	0.00	6769	Inside	4117.00	
Recorder	0.00	8366	Outside	4117.00	
Perforations	25.00			4142.00	
Blank Spacing	33.00			4175.00	
Perforations	2.00			4177.00	
Bullnose	3.00			4180.00	64.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65347

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 02:53:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	SOCM 96% m, 4% o	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0

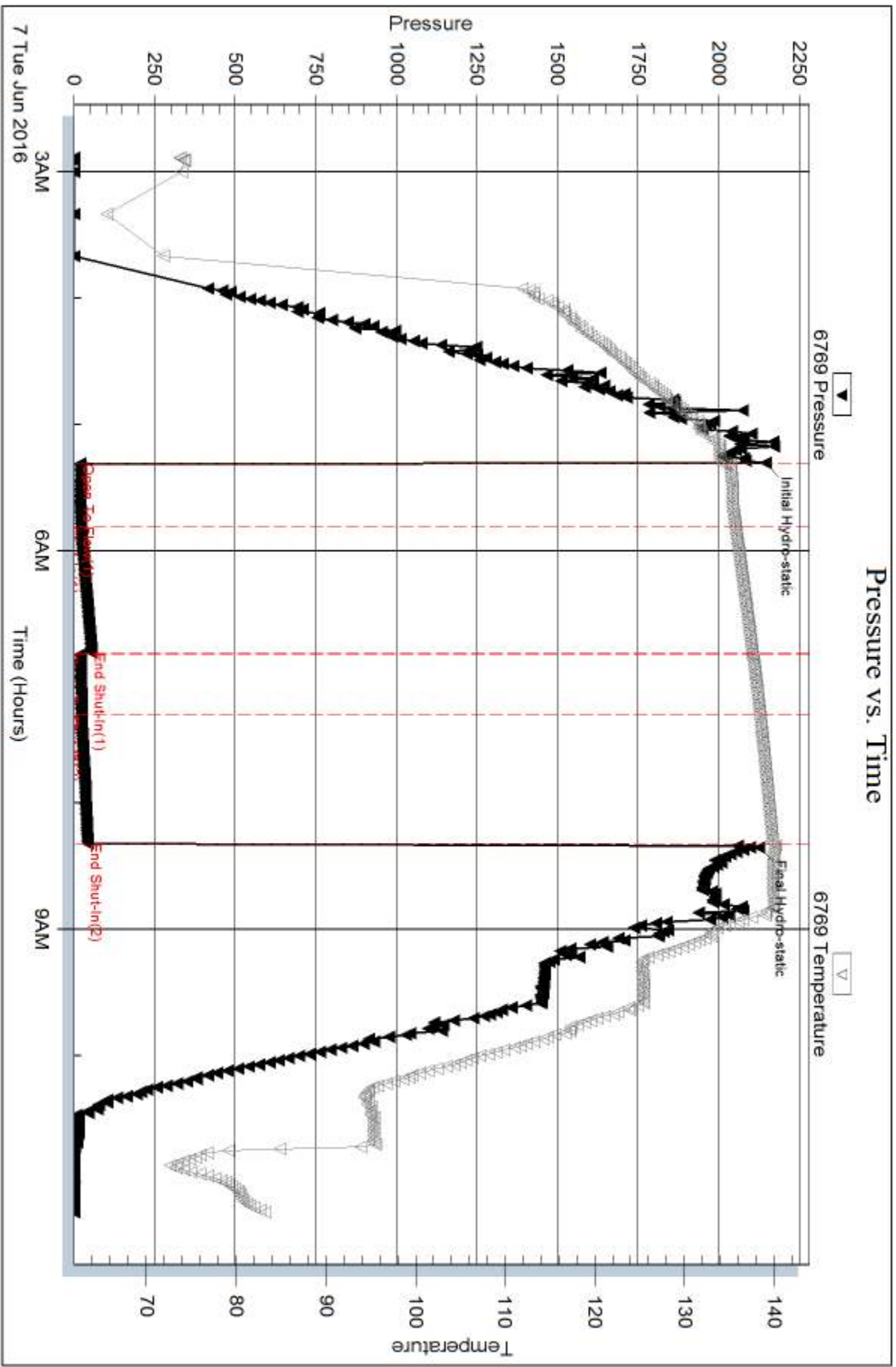
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

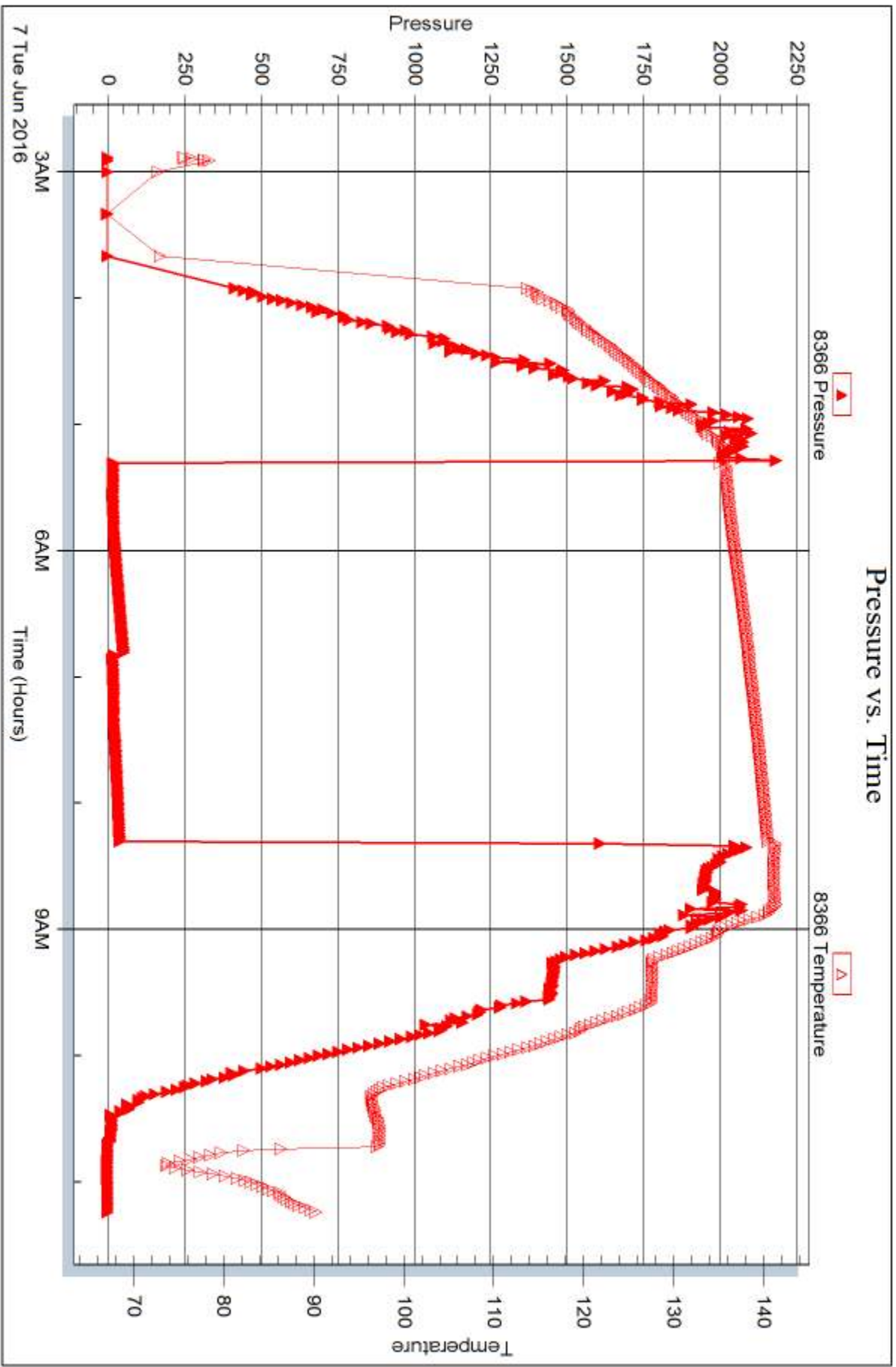


Serial #: 8366

Outside Murfin Drilling Co., Inc.

Munn #1-12

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65347

Printed: 2016.06.13 @ 15:51:19



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Munn #1-12

12-2s-38w Cheyenne KS

Start Date: 2016.06.07 @ 19:48:00

End Date: 2016.06.08 @ 04:00:00

Job Ticket #: 65348 DST #: 2

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

Printed: 2016.06.13 @ 15:49:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65348

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 19:48:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:34:30

Time Test Ended: 04:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4178.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 3228.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 72.76 psig @ 4179.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.07

End Date:

2016.06.08

Last Calib.:

2016.06.08

Start Time: 19:48:05

End Time:

03:59:59

Time On Btm:

2016.06.07 @ 21:34:15

Time Off Btm:

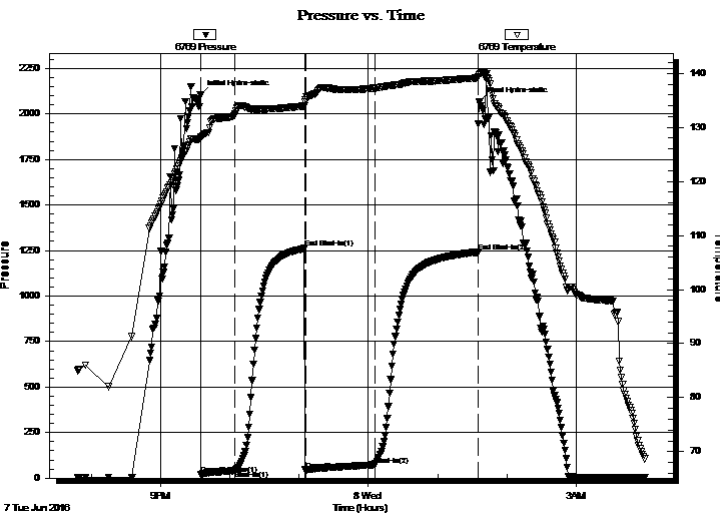
2016.06.08 @ 01:36:15

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4"

60 - IS: No blow back

60 - FF: Blow built to 8 3/4"

90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.21	127.92	Initial Hydro-static
1	21.11	128.03	Open To Flow (1)
31	41.22	132.46	Shut-In(1)
91	1261.69	133.95	End Shut-In(1)
92	43.83	135.15	Open To Flow (2)
151	72.76	137.26	Shut-In(2)
241	1239.81	139.15	End Shut-In(2)
242	2064.83	139.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM 58% _m , 39% _o , 3% _g	0.59
2.00	CO 98% _o , 1% _g , 1% _m	0.01
0.00	GIP = 125'	0.00

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65348

DST#: 2

ATTN: Paul Gunzelman

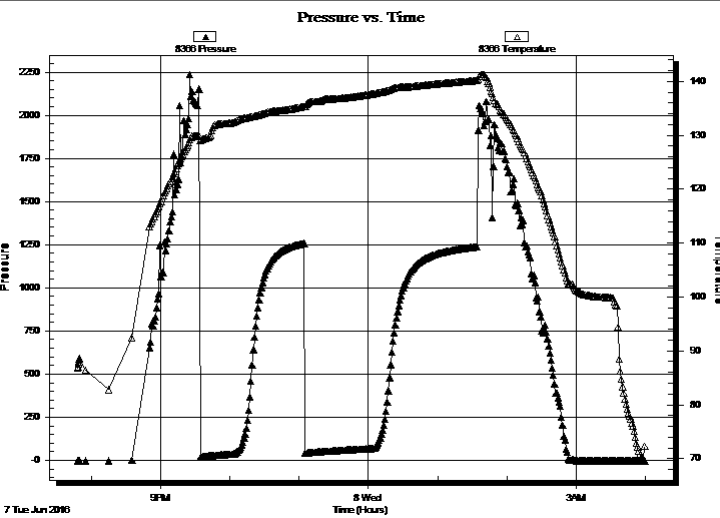
Test Start: 2016.06.07 @ 19:48:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:34:30
 Time Test Ended: 04:00:00
 Interval: **4178.00 ft (KB) To 4250.00 ft (KB) (TVD)**
 Total Depth: 4250.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3228.00 ft (KB)
 3223.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 Outside
 Press@RunDepth: psig @ 4179.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.06.07 End Date: 2016.06.08 Last Calib.: 2016.06.08
 Start Time: 19:48:05 End Time: 03:59:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4"
 60 - IS: No blow back
 60 - FF: Blow built to 8 3/4"
 90 - FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	OCM 58% _m , 39% _o , 3% _g	0.59
2.00	CO 98% _o , 1% _g , 1% _m	0.01
0.00	GIP = 125'	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65348

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 19:48:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 56.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4178.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	96.00 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			4155.00	
Shut In Tool	5.00			4160.00	
Hydraulic tool	5.00			4165.00	
Safety Joint	3.00			4168.00	
Packer	5.00			4173.00	24.00 Bottom Of Top Packer
Packer	5.00			4178.00	
Stubb	1.00			4179.00	
Recorder	0.00	6769	Inside	4179.00	
Recorder	0.00	8366	Outside	4179.00	
Perforations	32.00			4211.00	
Blank Spacing	33.00			4244.00	
Perforations	3.00			4247.00	
Bullnose	3.00			4250.00	72.00 Bottom Packers & Anchor

Total Tool Length: 96.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65348

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2016.06.07 @ 19:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 8.35 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 31.2 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCM 58% <i>m</i> , 39% <i>o</i> , 3% <i>g</i>	0.590
2.00	CO 98% <i>o</i> , 1% <i>g</i> , 1% <i>m</i>	0.010
0.00	GIP = 125'	0.000

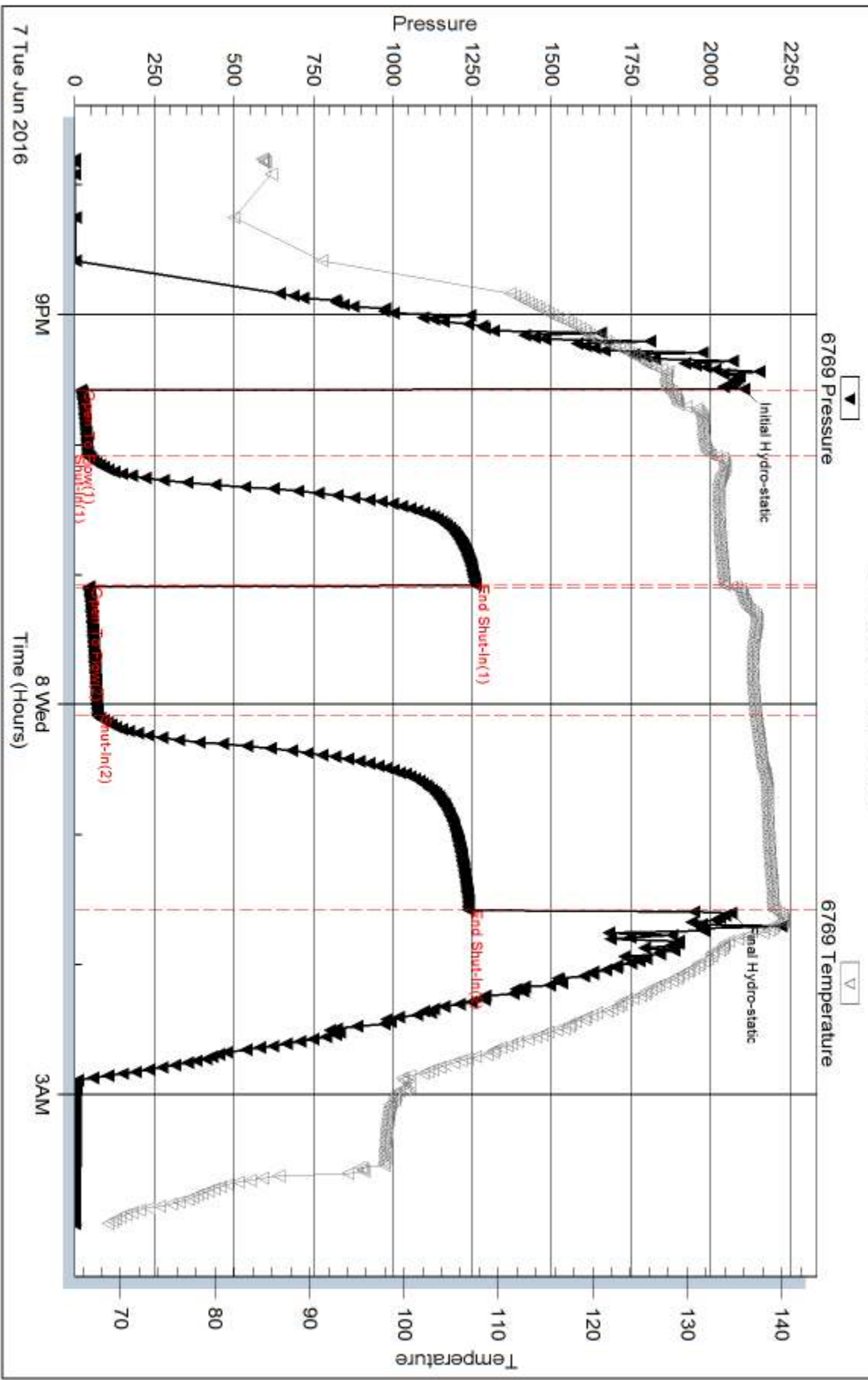
Total Length: 122.00 ft Total Volume: 0.600 bbl

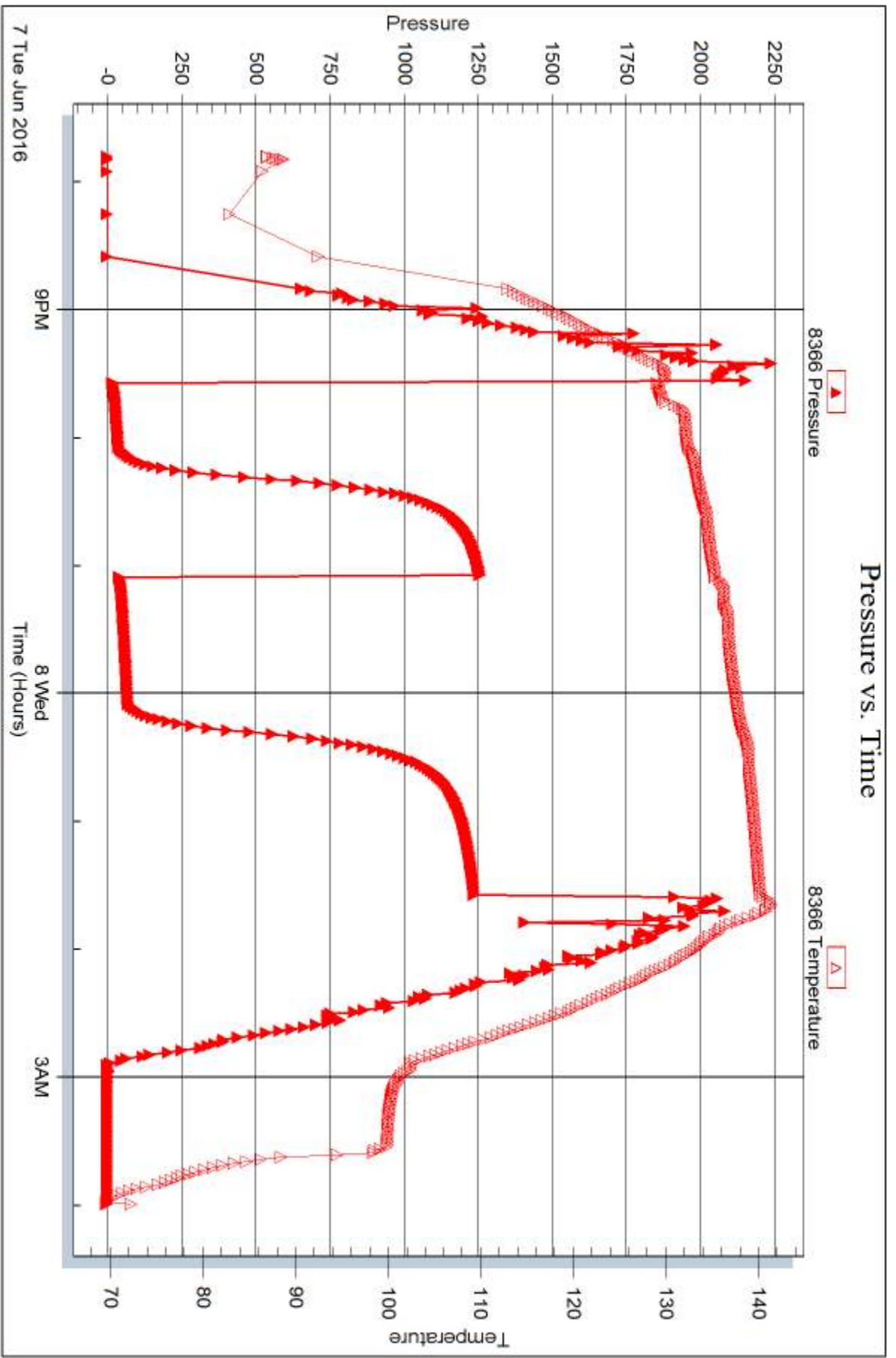
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 32.4 api @ 72 deg F
Corrected Gravity = 31.2 api

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Munn #1-12

12-2s-38w Cheyenne KS

Start Date: 2016.06.08 @ 12:33:05

End Date: 2016.06.08 @ 20:00:59

Job Ticket #: 65349 DST #: 3

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

Printed: 2016.06.13 @ 15:49:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65349

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2016.06.08 @ 12:33:05

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:38:45

Time Test Ended: 20:00:59

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4248.00 ft (KB) To 4298.00 ft (KB) (TVD)

Reference Elevations: 3228.00 ft (KB)

Total Depth: 4298.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 186.69 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.08

End Date:

2016.06.08

Last Calib.:

2016.06.08

Start Time:

12:33:05

End Time:

20:00:59

Time On Btm:

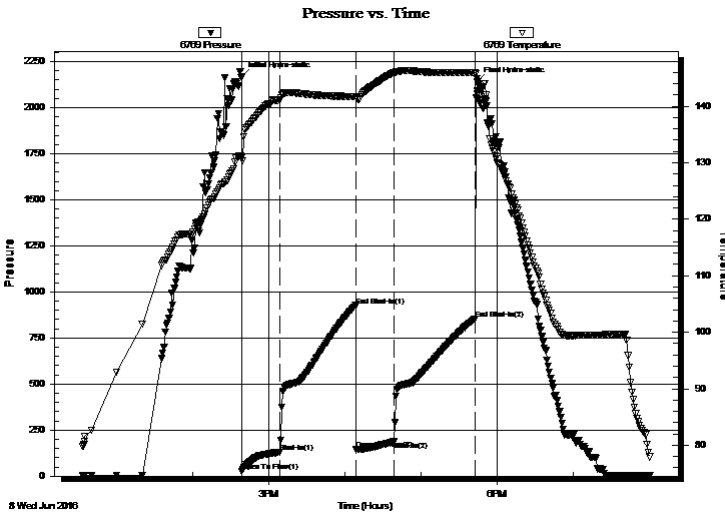
2016.06.08 @ 14:38:30

Time Off Btm:

2016.06.08 @ 17:44:29

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 9 1/2 min.
60 - IS: Blow back built to 7 1/2"
30 - FF: Blow built to BOB at 11 min.
60 - FS: Blow back built to BOB at 29 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.50	131.06	Initial Hydro-static
1	27.58	131.00	Open To Flow (1)
30	131.30	141.10	Shut-In(1)
90	925.74	141.72	End Shut-In(1)
91	145.78	141.65	Open To Flow (2)
120	186.69	145.90	Shut-In(2)
184	853.66	145.96	End Shut-In(2)
186	2139.53	142.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
208.00	GOCM 61% m, 23% o, 16% g	1.02
31.00	SMCO 90% o, 6% m, 4% g	0.43
203.00	SGO 72% o, 26% g, 2% m	2.85
0.00	GIP = 915'	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 Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65349

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2016.06.08 @ 12:33:05

Tool Information

Drill Pipe:	Length: 4024.00 ft	Diameter: 3.80 inches	Volume: 56.45 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4248.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	74.00 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			4225.00	
Shut In Tool	5.00			4230.00	
Hydraulic tool	5.00			4235.00	
Safety Joint	3.00			4238.00	
Packer	5.00			4243.00	24.00 Bottom Of Top Packer
Packer	5.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	6769	Inside	4249.00	
Recorder	0.00	8366	Outside	4249.00	
Perforations	13.00			4262.00	
Blank Spacing	33.00			4295.00	
Bullnose	3.00			4298.00	50.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65349

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2016.06.08 @ 12:33:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
208.00	GOCM 61%m, 23%o, 16%g	1.023
31.00	SMCO 90%o, 6%m, 4%g	0.435
203.00	SGO 72%o, 26%g, 2%m	2.848
0.00	GIP = 915'	0.000

Total Length: 442.00 ft Total Volume: 4.306 bbl

Num Fluid Samples: 0

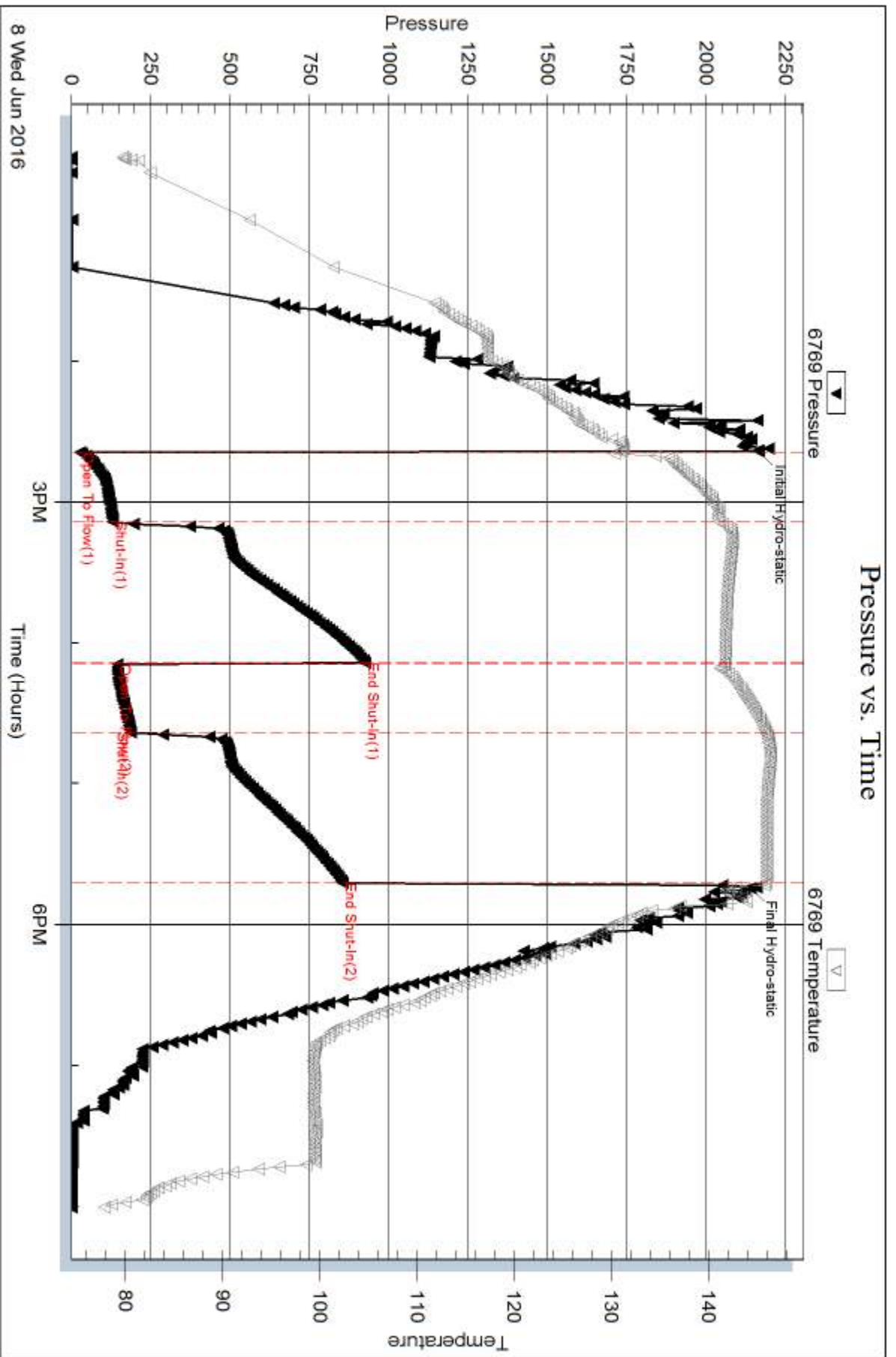
Num Gas Bombs: 0

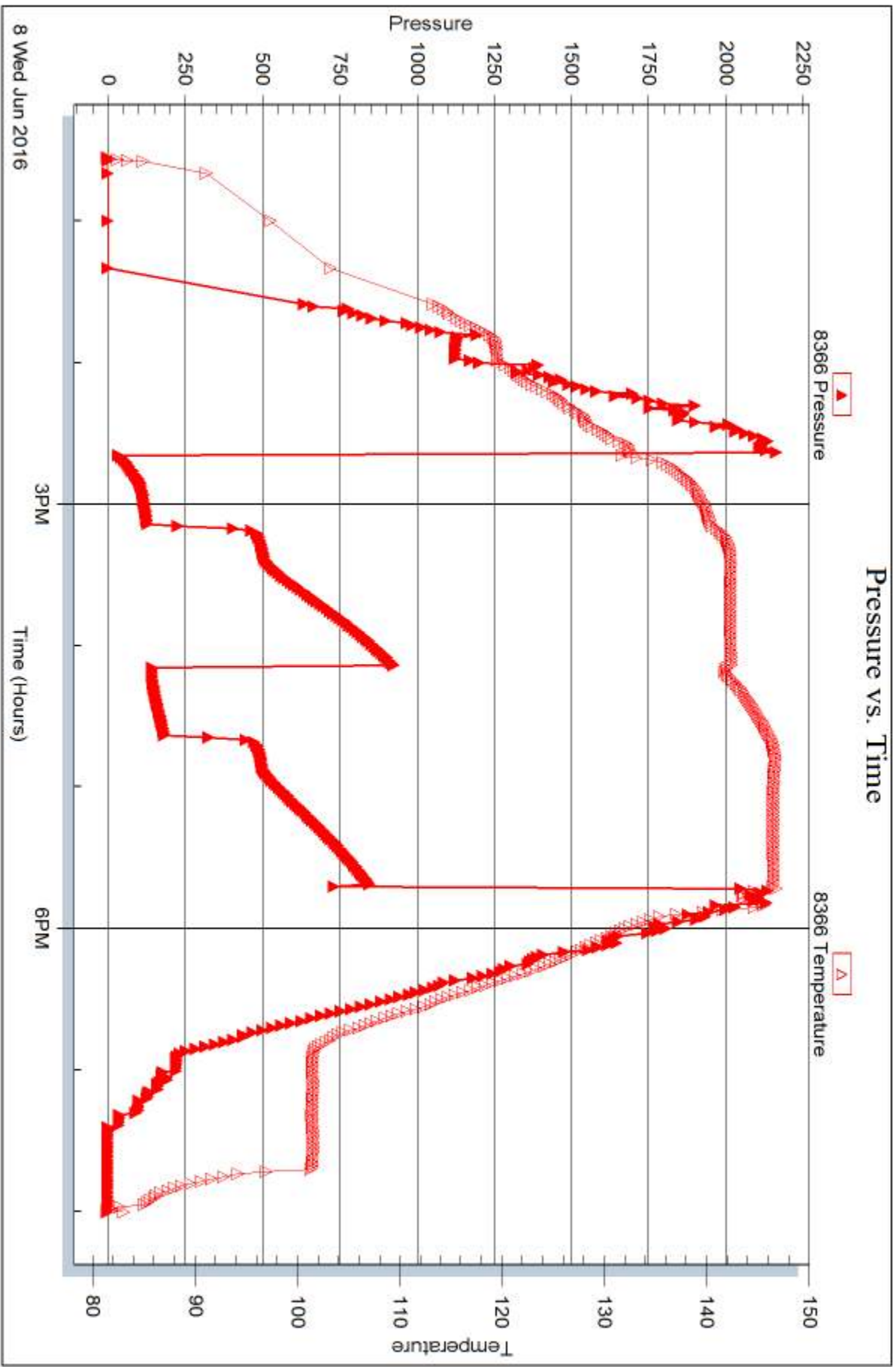
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 32.2 api @ 84 deg F
Corrected Gravity = 29.8 api







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Munn #1-12

12-2s-38w Cheyenne KS

Start Date: 2016.06.09 @ 07:50:00

End Date: 2016.06.09 @ 16:16:00

Job Ticket #: 65350 DST #: 4

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

Printed: 2016.06.13 @ 15:43:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65350

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2016.06.09 @ 07:50:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:48:45

Time Test Ended: 16:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4298.00 ft (KB) To 4385.00 ft (KB) (TVD)

Reference Elevations: 3228.00 ft (KB)

Total Depth: 4385.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 149.96 psig @ 4299.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.09

End Date:

2016.06.09

Last Calib.:

2016.06.09

Start Time:

07:50:05

End Time:

16:15:59

Time On Btm:

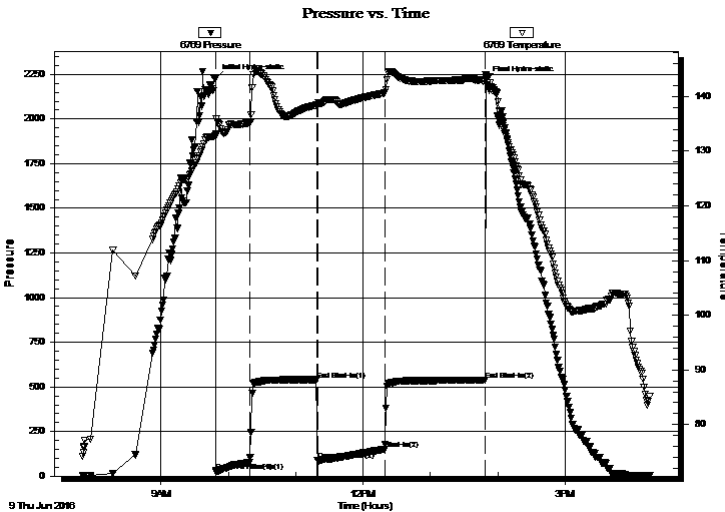
2016.06.09 @ 09:48:30

Time Off Btm:

2016.06.09 @ 13:49:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 12 min.
60 - IS: Blow back built to 6"
60 - FF: Blow built to BOB at 14 min.
90 - FS: Blow back built to BOB at 56 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.39	132.92	Initial Hydro-static
1	27.07	133.17	Open To Flow (1)
31	77.15	135.20	Shut-In(1)
90	540.26	138.42	End Shut-In(1)
91	87.49	138.39	Open To Flow (2)
151	149.96	140.60	Shut-In(2)
240	537.29	142.72	End Shut-In(2)
241	2214.13	143.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCM 70%o, 18%g, 12%g	0.22
134.00	SMCGO 84%o, 13%g, 3%m	0.66
311.00	CGO 76%o, 24%g	4.10
0.00	GIP = 870'	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 Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65350

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2016.06.09 @ 07:50:00

Tool Information

Drill Pipe:	Length: 4081.00 ft	Diameter: 3.80 inches	Volume: 57.25 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 58.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4298.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	116.00 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			4270.00	
Shut In Tool	5.00			4275.00	
Hydraulic tool	5.00			4280.00	
Jars	5.00			4285.00	
Safety Joint	3.00			4288.00	
Packer	5.00			4293.00	29.00 Bottom Of Top Packer
Packer	5.00			4298.00	
Stubb	1.00			4299.00	
Recorder	0.00	6769	Inside	4299.00	
Recorder	0.00	8366	Outside	4299.00	
Perforations	5.00			4304.00	
Blank Spacing	64.00			4368.00	
Perforations	14.00			4382.00	
Bullnose	3.00			4385.00	87.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65350

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2016.06.09 @ 07:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	GOCM 70% _m , 18% _o , 12% _g	0.221
134.00	SMCGO 84% _o , 13% _g , 3% _m	0.659
311.00	CGO 76% _o , 24% _g	4.098
0.00	GIP = 870'	0.000

Total Length: 490.00 ft Total Volume: 4.978 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

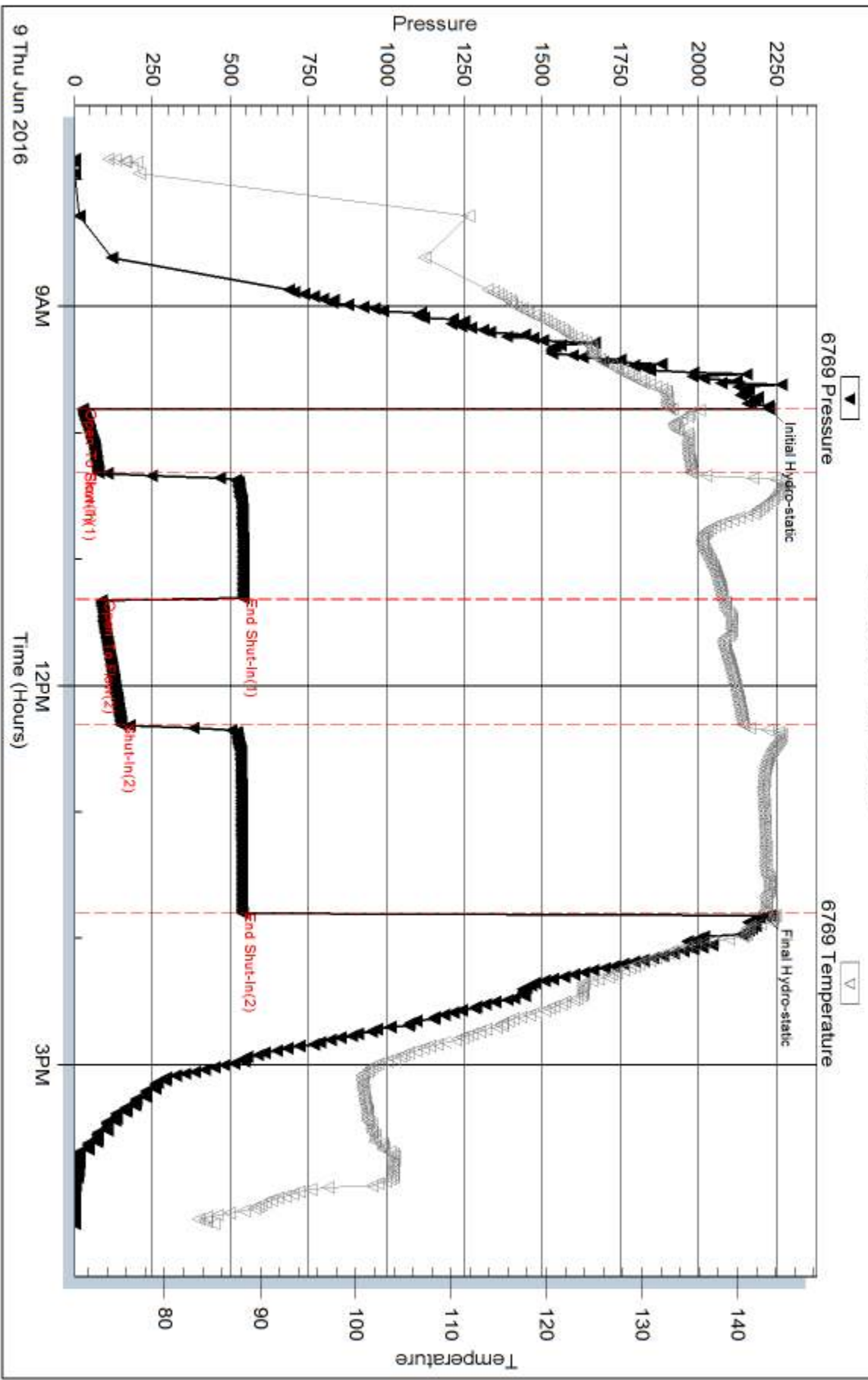
Serial #:

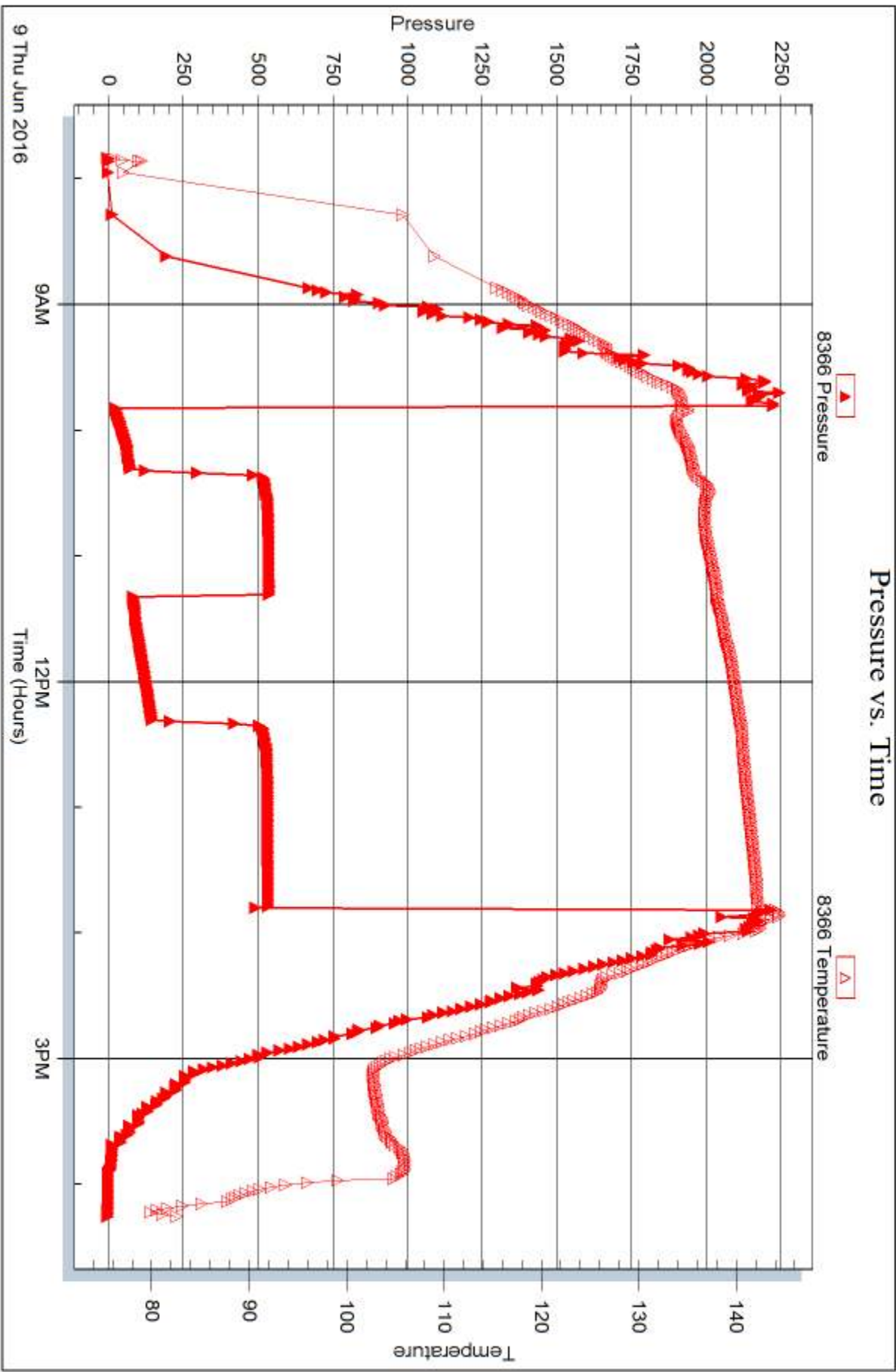
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 33.4 api @ 102 deg F
Corrected Gravity = 29.2 api

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Munn #1-12

12-2s-38w Cheyenne KS

Start Date: 2016.06.10 @ 11:35:00

End Date: 2016.06.10 @ 20:17:15

Job Ticket #: 65378 DST #: 5

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

Printed: 2016.06.13 @ 15:42:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65378

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2016.06.10 @ 11:35:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:45

Time Test Ended: 20:17:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4532.00 ft (KB) To 4588.00 ft (KB) (TVD)

Reference Elevations: 3228.00 ft (KB)

Total Depth: 4588.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press@RunDepth: 105.46 psig @ 4533.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.10

End Date:

2016.06.10

Last Calib.:

2016.06.10

Start Time:

11:35:05

End Time:

20:17:15

Time On Btm:

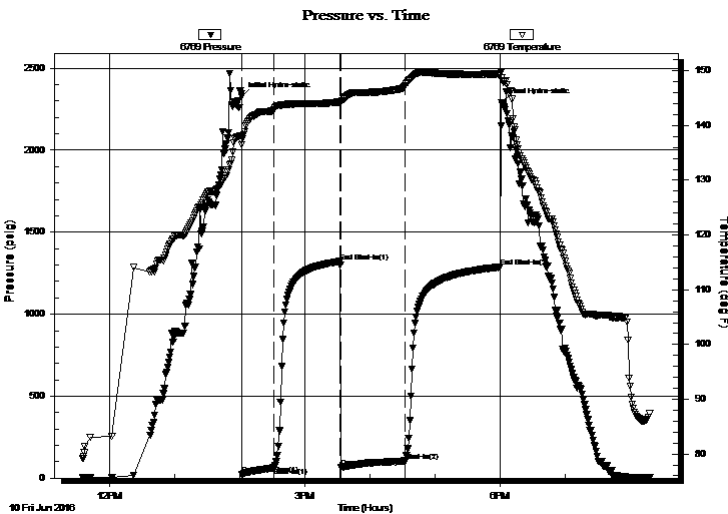
2016.06.10 @ 14:01:30

Time Off Btm:

2016.06.10 @ 18:01:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 25 min.
60 - IS: No blow back
60 - FF: Blow built to BOB at 20 1/2 min.
90 - FS: Blow back built to 1" then died back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.29	137.26	Initial Hydro-static
1	20.86	136.55	Open To Flow (1)
30	63.49	142.89	Shut-In(1)
91	1321.56	144.31	End Shut-In(1)
92	67.26	144.24	Open To Flow (2)
151	105.46	147.24	Shut-In(2)
238	1287.65	149.39	End Shut-In(2)
240	2291.34	148.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OM 52% _m , 39% _o , 9% _g	0.59
120.00	CO 91% _o , 7% _g , 2% _m	0.88
0.00	GIP = 500'	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 Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65378

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2016.06.10 @ 11:35:00

Tool Information

Drill Pipe:	Length: 4304.00 ft	Diameter: 3.80 inches	Volume: 60.37 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 61.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4532.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	80.00 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			4509.00	
Shut In Tool	5.00			4514.00	
Hydraulic tool	5.00			4519.00	
Safety Joint	3.00			4522.00	
Packer	5.00			4527.00	24.00 Bottom Of Top Packer
Packer	5.00			4532.00	
Stubb	1.00			4533.00	
Recorder	0.00	6769	Inside	4533.00	
Recorder	0.00	8366	Outside	4533.00	
Perforations	5.00			4538.00	
Blank Spacing	33.00			4571.00	
Perforations	14.00			4585.00	
Bullnose	3.00			4588.00	56.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

12-2s-38w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Munn #1-12

Job Ticket: 65378

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2016.06.10 @ 11:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OM 52% <i>m</i> , 39% <i>o</i> , 9% <i>g</i>	0.590
120.00	CO 91% <i>o</i> , 7% <i>g</i> , 2% <i>m</i>	0.882
0.00	GIP = 500'	0.000

Total Length: 240.00 ft Total Volume: 1.472 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

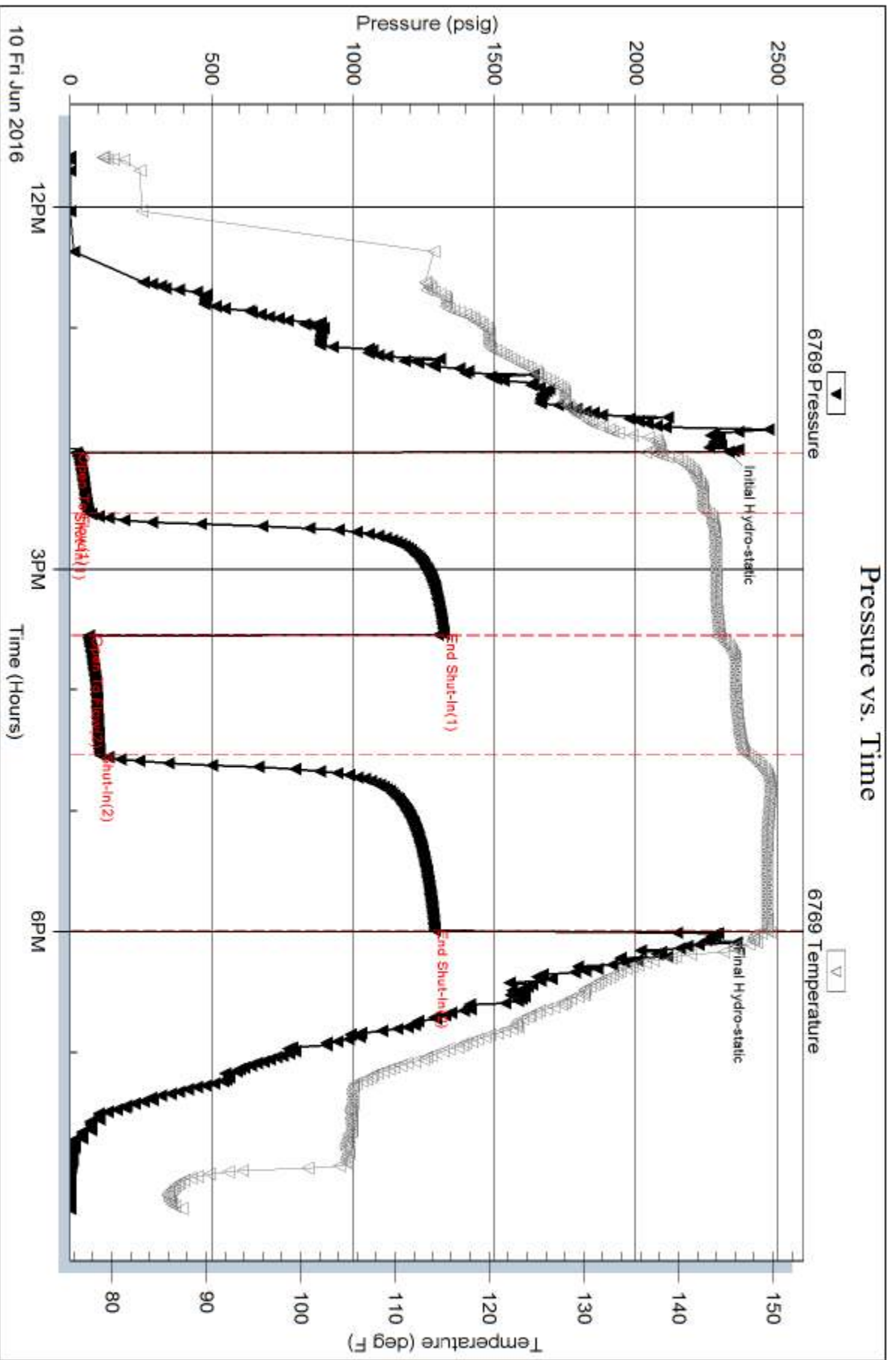
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 40.6 api @ 96 deg F

Corrected Gravity = 37 api

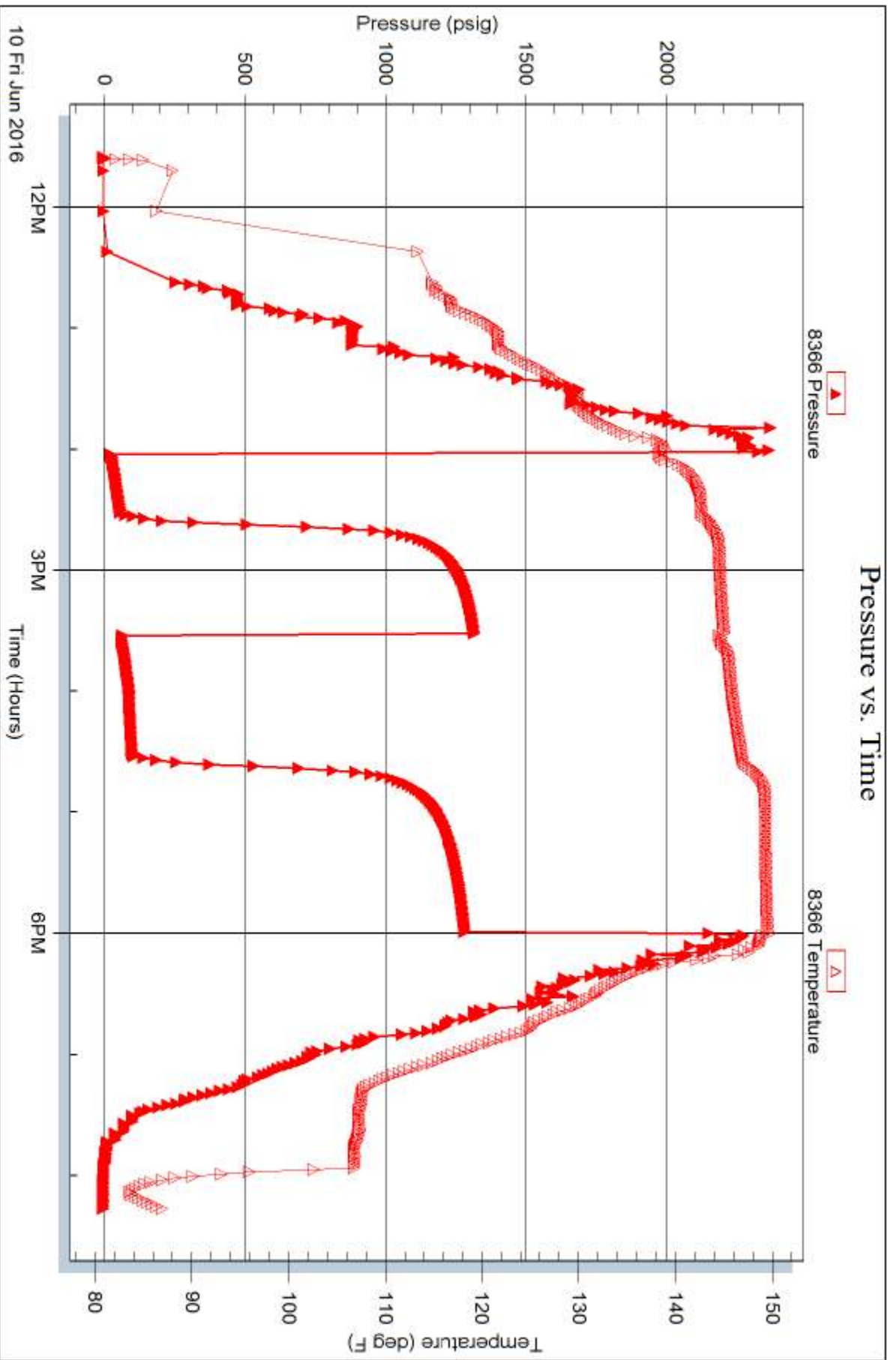


Serial #: 8366

Outside Murfin Drilling Co., Inc.

Munn #1-12

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65378

Printed: 2016.06.13 @ 15:42:57



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65347**

Well Name & No. Munn # 1-12 Test No. 1 Date 6-7-16
 Company Murfin Drilling Co. Inc. Elevation 3228 KB 3223 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #3
 Location: Sec. 12 Twp. 2s Rge. 38w Co. Cheyenne State KS

Interval Tested 4116 - 4180 Zone Tested Lans "A"
 Anchor Length 64 Drill Pipe Run 3894 Mud Wt. 9.3
 Top Packer Depth 4111 Drill Collars Run ~~179~~ 208 Vis 56
 Bottom Packer Depth 4116 Wt. Pipe Run - WL 8.4
 Total Depth 4180 Chlorides 700 ppm System LCM 2
 Blow Description IF: Blow built to 3/4" at 15 min., died back to 1/4" at close
ISI: No blowback
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>50CM</u>		<u>4</u>		<u>96</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 <u>4</u>	BHT <u>140</u>	Gravity	API RW	@	°F Chlorides

(A) Initial Hydrostatic 2145 Test 1150 T-On Location 1:30
 (B) First Initial Flow 20 Jars 250 T-Started 2:53
 (C) First Final Flow 23 Safety Joint 75 T-Open 5:18
 (D) Initial Shut-In 55 Circ Sub _____ T-Pulled 8:19
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 10:50
 (F) Second Final Flow 25 Mileage 134RT 100.50 Comments _____
 (G) Final Shut-In 43 Sampler _____
 (H) Final Hydrostatic 2126 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 1575.50 Sub Total 1575.50 MP/DST Disc't _____
 Sub Total 0 Total 1575.50

Approved By Paul Grayson

Our Representative James Winder

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. **65348**

Well Name & No. Munn #1-12 Test No. 2 Date 6-7-16
 Company Murfin Drilling Co. Inc Elevation 3228 KB 3223 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #3
 Location: Sec. 12 Twp. 2S Rge. 38W Co. Cheyenne State KS

Interval Tested 4178 - 4250 Zone Tested LKC "D"
 Anchor Length 72 Drill Pipe Run 3961 Mud Wt. 9.2
 Top Packer Depth 4173 Drill Collars Run 208 Vis 57
 Bottom Packer Depth 4178 Wt. Pipe Run - WL 8.4
 Total Depth 4250 Chlorides 700 ppm System LCM 2
 Blow Description IF: 1/4" Blow at open, built to 4"
ISI: No blowback
FF: Blow built to 8 3/4"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>CO</u>	<u>1</u>	<u>98</u>	<u>1</u>	<u>1</u>
<u>120</u>	<u>OCM</u>	<u>3</u>	<u>39</u>	<u>58</u>	<u>58</u>
<u>6IP=125'</u>					

Rec Total 122 BHT 139 Gravity 31.2 API RW @ 1150 °F Chlorides _____ ppm

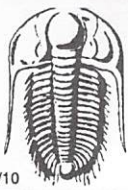
(A) Initial Hydrostatic 2104 Test 1150 T-On Location 18:40
 (B) First Initial Flow 21 Jars _____ T-Started 19:48
 (C) First Final Flow 41 Safety Joint 75 T-Open 21:34
 (D) Initial Shut-In 1262 Circ Sub _____ T-Pulled 1:34
 (E) Second Initial Flow 44 Hourly Standby _____ T-Out 3:50
 (F) Second Final Flow 73 Mileage 134 RT 100.50 Comments _____
 (G) Final Shut-In 1240 Sampler _____
 (H) Final Hydrostatic 2065 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1325.50

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1325.50
 MP/DST Disc't _____

Approved By _____

Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65349**

Well Name & No. Munn # 1-12 Test No. 3 Date 6-8-16
 Company Murfin Drilling Co. Inc Elevation 3228 KB 3223 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #3
 Location: Sec. 12 Twp. 2s Rge. 38w Co. Cheyenne State KS

Interval Tested 4248 - 4298 Zone Tested LKC "6"
 Anchor Length ~~40~~ 50 Drill Pipe Run 4024 Mud Wt. 9.3
 Top Packer Depth 4243 Drill Collars Run 208 Vis ~~46~~ 54
 Bottom Packer Depth 4248 Wt. Pipe Run - WL 8.4
 Total Depth 4298 Chlorides 700 ppm System LCM 2
 Blow Description IF: Blow built to BOB (11") at 9 1/2 min.
ISI: Blowback built to 7 1/2"
FF: Blow built to BOB at 11 min.
FSI: Blowback built to BOB at 29 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>203</u>	<u>CGO</u>	<u>26</u>	<u>72</u>	<u>-</u>	<u>2</u>
<u>31</u>	<u>smco</u>	<u>4</u>	<u>90</u>	<u>-</u>	<u>6</u>
<u>208</u>	<u>GOCm</u>	<u>16</u>	<u>23</u>	<u>-</u>	<u>61</u>
	<u>GIP = 915'</u>				

Rec Total 442 BHT 146 Gravity 29.8 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2167 Test 1150 T-On Location 11:45
 (B) First Initial Flow 28 Jars _____ T-Started 12:33
 (C) First Final Flow 131 Safety Joint 75 T-Open 14:38
 (D) Initial Shut-In 926 Circ Sub _____ T-Pulled 17:42
 (E) Second Initial Flow 146 Hourly Standby _____ T-Out 19:50
 (F) Second Final Flow 187 Mileage 134 RT 100.50 Comments _____
 (G) Final Shut-In 854 Sampler _____
 (H) Final Hydrostatic 2140 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 1325.50 Sub Total 1325.50 MP/DST Disc't _____

Approved By _____ Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65350**

Well Name & No. Munn #1-12 Test No. 4 Date 6-9-16
 Company Murfin Drilling Co. Inc Elevation 3228 KB 3223 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #3
 Location: Sec. 12 Twp. 2s Rge. 38w Co. Cheyenne State KS

Interval Tested 4298 - 4385 Zone Tested LKC "H-J"
 Anchor Length 87 Drill Pipe Run 4081 Mud Wt. 9.3
 Top Packer Depth 4293 Drill Collars Run 208 Vis 55
 Bottom Packer Depth 4298 Wt. Pipe Run - WL 7.2
 Total Depth 4385 Chlorides 700 ppm System LCM 2

Blow Description IF: Blow built to BOB (11") at 12 min.
ISI: Blowback built to 6"
FF: Blow built to BOB at 14 min.
FSI: Blowback built to BOB at 56 min

Rec	Feet of	%gas	%oil	%water	%mud
311 311	C60	24	76	-	-
134	SMC60	13	84	-	3
45	60cm	12	18	-	70
	GIP: 870'				

Rec Total 490 BHT 143 Gravity 29.2 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2227 Test 1150 T-On Location 6:30
 (B) First Initial Flow 27 Jars 250 T-Started 7:50
 (C) First Final Flow 77 Safety Joint 75 T-Open 9:48
 (D) Initial Shut-In 540 Circ Sub _____ T-Pulled 13:48
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 16:10
 (F) Second Final Flow 150 Mileage 134RT 100.50 Comments _____
 (G) Final Shut-In 537 Sampler _____
 (H) Final Hydrostatic 2214 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1575.50

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1575.50
 MP/DST Disc't _____

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

Approved By _____

Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65378**

Well Name & No. Munn #1-12 Test No. 5 Date 6-10-16
 Company Murfin Drilling Co. Inc. Elevation 3228 KB 3223 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #3
 Location: Sec. 12 Twp. 2s Rge. 38w Co. Cheyenne State KS

Interval Tested 4532-4588 Zone Tested Pawnee
 Anchor Length 56 Drill Pipe Run 4304 Mud Wt. 9.2
 Top Packer Depth 4527 Drill Collars Run 208 Vis 57
 Bottom Packer Depth 4532 Wt. Pipe Run - WL 6.8
 Total Depth 4588 Chlorides 700 ppm System LCM 2
 Blow Description IF: Blow built to BOB (11") at 25 min.
ISI: No blowback
FF: Blow built to BOB at 20 1/2 min.
FSI: Blowback built to 1" then died back

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>CO</u>	<u>7</u>	<u>91</u>	<u>2</u>	
<u>120</u>	<u>OM</u>	<u>9</u>	<u>39</u>	<u>52</u>	
	<u>GIP=500'</u>				

Rec Total 240 BHT 149 Gravity 37 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2327 Test 1150 T-On Location 9:20
 (B) First Initial Flow 21 Jars _____ T-Started 11:35
 (C) First Final Flow 63 Safety Joint 75 T-Open 14:01
 (D) Initial Shut-In 1322 Circ Sub _____ T-Pulled 17:59
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 20:15
 (F) Second Final Flow 105 Mileage 134 RT 100.50 Comments Rig had to unload casing
 (G) Final Shut-In 1288 Sampler 100.50 Jim loaded tools 6/11 10:00
 (H) Final Hydrostatic 2291 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 320
 Day Standby _____ Total 1746
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1426

Approved By _____ Our Representative James Winden

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.