



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water
Wichita KS 67202+1216

ATTN: Tom Funk

Towns "A" #2-21

21- 10s-34w Thomas,KS

Start Date: 2012.01.22 @ 10:31:05

End Date: 2012.01.22 @ 18:39:39

Job Ticket #: 44599 DST #: 1

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

Printed: 2012.01.27 @ 12:12:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44599 **DST#: 1**
Test Start: 2012.01.22 @ 10:31:05

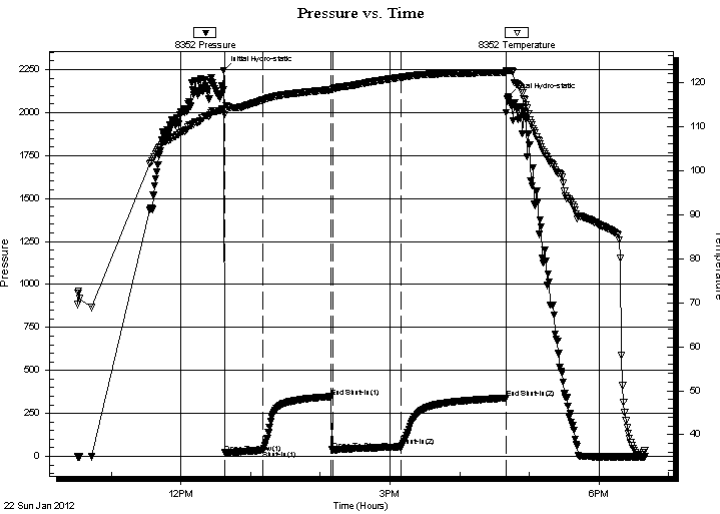
GENERAL INFORMATION:

Formation: **LKC"K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:37:30
Time Test Ended: 18:39:39
Interval: **4394.00 ft (KB) To 4420.00 ft (KB) (TVD)**
Total Depth: 4420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 3249.00 ft (KB)
3236.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8352 Outside

Press @RunDepth: 55.95 psig @ 4395.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.22 End Date: 2012.01.22 Last Calib.: 2012.01.22
Start Time: 10:31:05 End Time: 18:39:40 Time On Btm: 2012.01.22 @ 12:37:00
Time Off Btm: 2012.01.22 @ 16:41:39

TEST COMMENT: IF:(30min) Fair 4" blow
IS:(60min) No Return
FF:(60min) 3" blow
FS:(90min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.66	114.09	Initial Hydro-static
1	20.51	112.72	Open To Flow (1)
33	35.80	115.96	Shut-In(1)
93	347.32	118.33	End Shut-In(1)
94	37.83	118.46	Open To Flow (2)
153	55.95	121.17	Shut-In(2)
243	336.65	122.28	End Shut-In(2)
245	2089.38	122.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	HOCM o=40% m=60%	1.26
0.00	GIP= 90ft	0.00

Gas Rates

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



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TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44599 **DST#: 1**
Test Start: 2012.01.22 @ 10:31:05

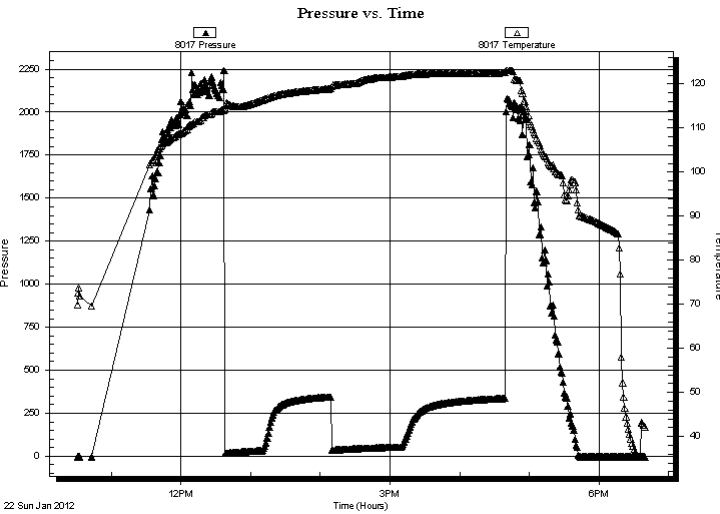
GENERAL INFORMATION:

Formation: LKC"K"			
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)		
Time Tool Opened: 12:37:30	Tester: Andy Carreira		
Time Test Ended: 18:39:39	Unit No: 39		
Interval: 4394.00 ft (KB) To 4420.00 ft (KB) (TVD)	Reference Elevations: 3249.00 ft (KB)		
Total Depth: 4420.00 ft (KB) (TVD)	3236.00 ft (CF)		
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 13.00 ft		

Serial #: 8017 Inside

Press @ Run Depth: psig @ 4395.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.01.22 End Date: 2012.01.22	Last Calib.: 2012.01.22
Start Time: 10:31:05 End Time: 18:39:40	Time On Btm: Time Off Btm:

TEST COMMENT: IF:(30min) Fair 4" blow
IS:(60min) No Return
FF:(60min) 3" blow
FS:(90min) No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	HOCM o=40% m=60%	1.26
0.00	GIP= 90ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44599 **DST#: 1**
Test Start: 2012.01.22 @ 10:31:05

Tool Information

Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 61.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4394.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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			4367.00	
Shut In Tool	5.00			4372.00	
Hydraulic tool	5.00			4377.00	
Jars	5.00			4382.00	
Safety Joint	3.00			4385.00	
Packer	5.00			4390.00	28.00 Bottom Of Top Packer
Packer	4.00			4394.00	
Stubb	1.00			4395.00	
Recorder	0.00	8017	Inside	4395.00	
Recorder	0.00	8352	Outside	4395.00	
Perforations	22.00			4417.00	
Bullnose	3.00			4420.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44599 **DST#: 1**
Test Start: 2012.01.22 @ 10:31:05

Mud and Cushion Information

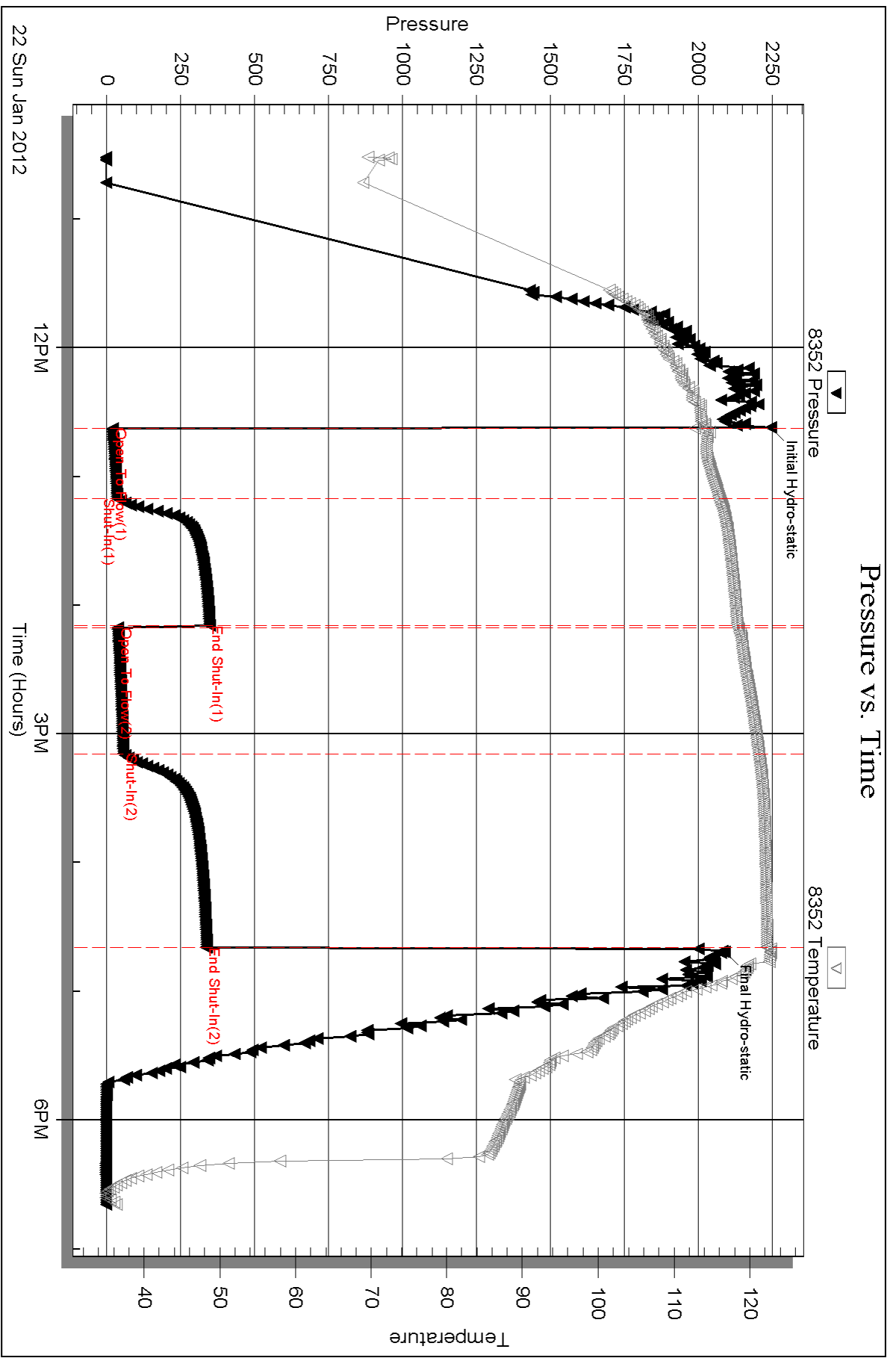
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 76.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	HOCM o=40% m=60%	1.262
0.00	GIP= 90ft	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



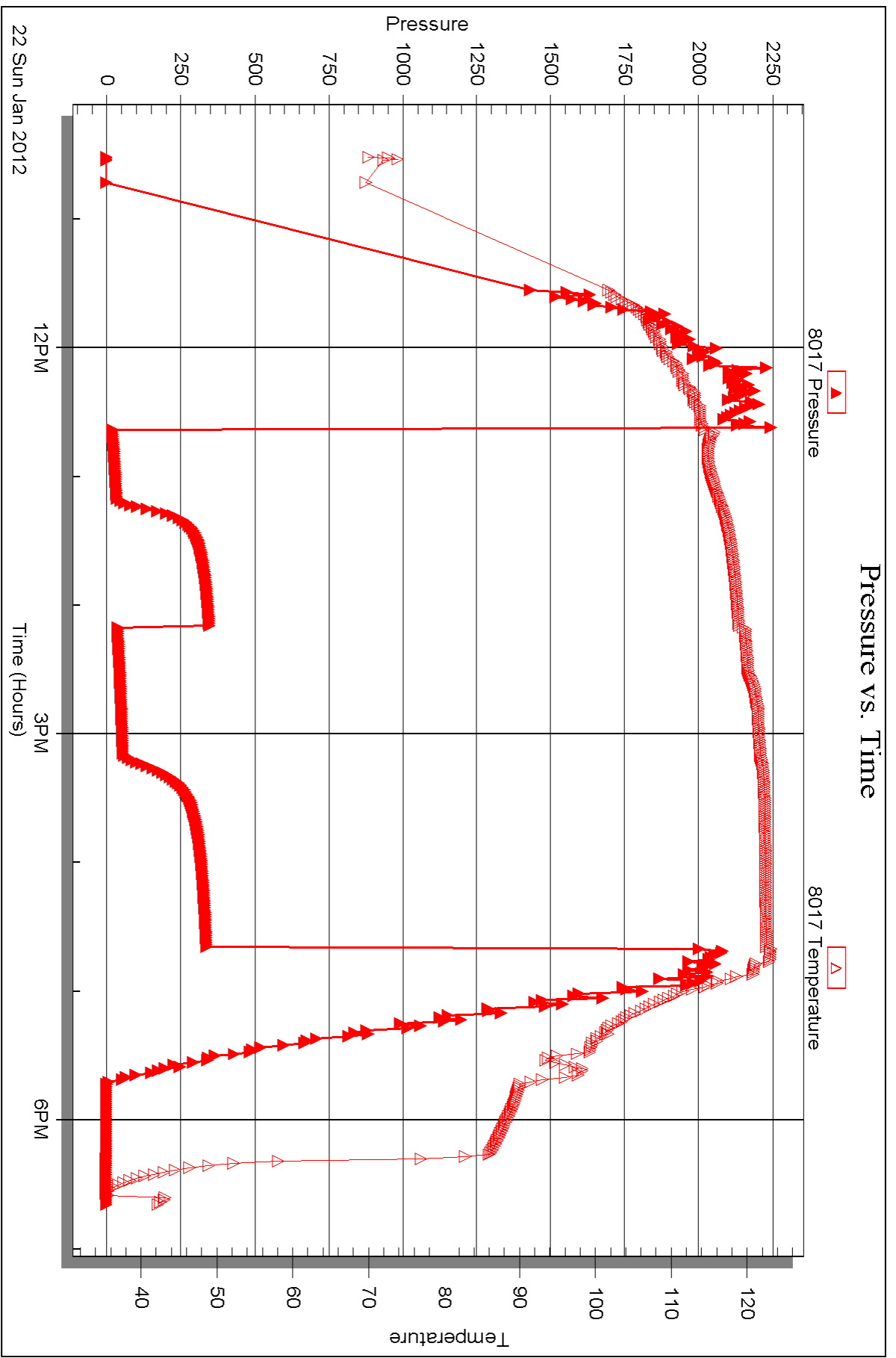
Serial #: 8017

Inside

Murfin Drilling Co

Tow ns "A" #2-21

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water
Wichita KS 67202+1216

ATTN: Tom Funk

Towns "A" #2-21

21- 10s-34w Thomas,KS

Start Date: 2012.01.23 @ 15:22:15

End Date: 2012.01.23 @ 22:55:00

Job Ticket #: 44920 DST #: 2

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

Printed: 2012.01.27 @ 12:11:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water
 Wichita KS 67202+1216
 ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
 Job Ticket: 44920 **DST#: 2**
 Test Start: 2012.01.23 @ 15:22:15

GENERAL INFORMATION:

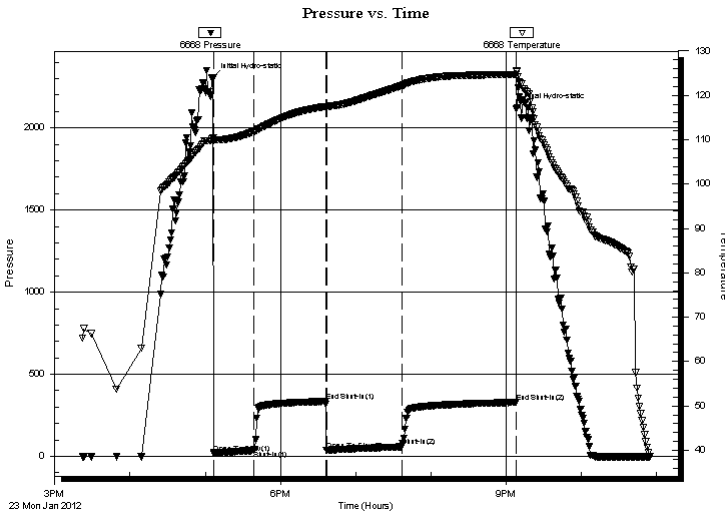
Formation: **Myrick St.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:06:45 Tester: Mike Roberts
 Time Test Ended: 22:55:00 Unit No: 48
 Interval: **4619.00 ft (KB) To 4660.00 ft (KB) (TVD)** Reference Elevations: 3249.00 ft (KB)
 Total Depth: 4660.00 ft (KB) (TVD) 3236.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 58.82 psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.23 End Date: 2012.01.23 Last Calib.: 2012.01.23
 Start Time: 15:22:15 End Time: 22:55:00 Time On Btm: 2012.01.23 @ 17:06:15
 Time Off Btm: 2012.01.23 @ 21:08:30

TEST COMMENT: IF: Built to 3" blow
 IS: No return blow
 FF: Built to 1 1/2" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.90	110.49	Initial Hydro-static
1	20.02	109.82	Open To Flow (1)
33	35.53	111.84	Shut-In(1)
90	334.63	117.50	End Shut-In(1)
91	38.12	117.49	Open To Flow (2)
151	58.82	122.17	Shut-In(2)
242	328.63	124.69	End Shut-In(2)
243	2123.49	125.37	Final Hydro-static

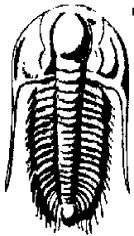
Recovery

Length (ft)	Description	Volume (bbl)
95.00	mud 100% m	1.33

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water
 Wichita KS 67202+1216
 ATTN: Tom Funk

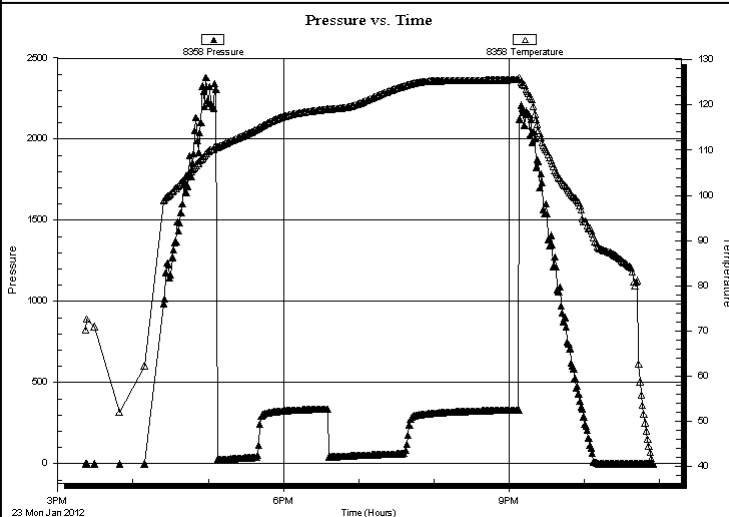
21- 10s-34w Thomas,KS
Towns "A" #2-21
 Job Ticket: 44920 **DST#: 2**
 Test Start: 2012.01.23 @ 15:22:15

GENERAL INFORMATION:

Formation: **Myrick St.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:06:45
 Time Test Ended: 22:55:00
Interval: 4619.00 ft (KB) To 4660.00 ft (KB) (TVD)
 Total Depth: 4660.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 3249.00 ft (KB)
 3236.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8358 **Inside**
 Press @ Run Depth: psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.23 End Date: 2012.01.23 Last Calib.: 2012.01.23
 Start Time: 15:22:15 End Time: 22:55:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 3" blow
 IS: No return blow
 FF: Built to 1 1/2" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
95.00	mud 100% m	1.33

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44920 **DST#: 2**
Test Start: 2012.01.23 @ 15:22:15

Tool Information

Drill Pipe:	Length: 4603.00 ft	Diameter: 3.80 inches	Volume: 64.57 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 64.57 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4619.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	69.00 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			4592.00	
Shut In Tool	5.00			4597.00	
Hydraulic tool	5.00			4602.00	
Jars	5.00			4607.00	
Safety Joint	3.00			4610.00	
Packer	5.00			4615.00	28.00 Bottom Of Top Packer
Packer	4.00			4619.00	
Stubb	1.00			4620.00	
Perforations	1.00			4621.00	
Change Over Sub	1.00			4622.00	
Drill Pipe	32.00			4654.00	
Change Over Sub	1.00			4655.00	
Recorder	0.00	8358	Inside	4655.00	
Recorder	0.00	6668	Outside	4655.00	
Bullnose	5.00			4660.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44920 **DST#: 2**
Test Start: 2012.01.23 @ 15:22:15

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	mud 100%m	1.333

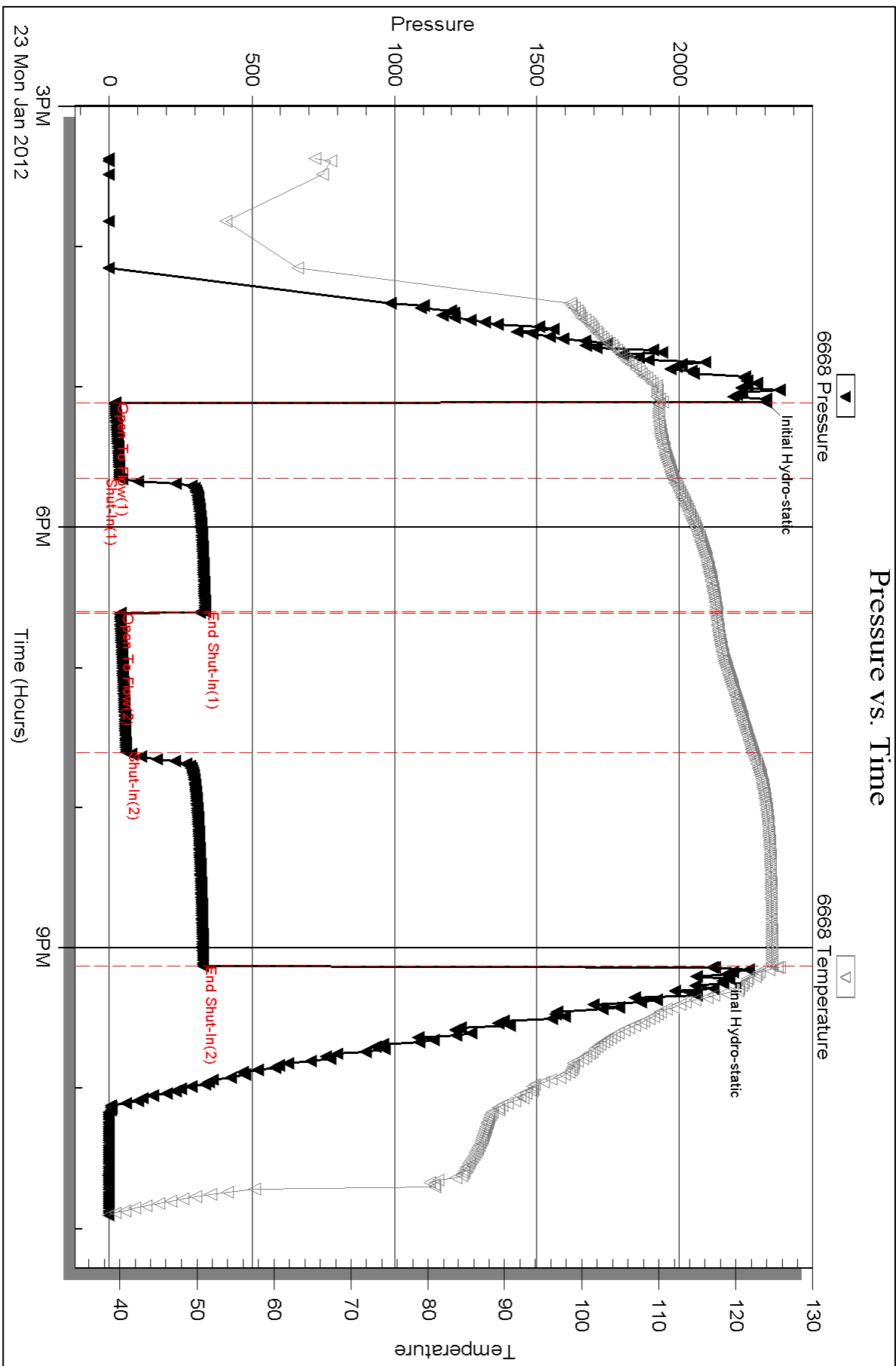
Total Length: 95.00 ft Total Volume: 1.333 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6668

Outside Murfin Drilling Co

Tow ns "A" #2-21

DST Test Number: 2



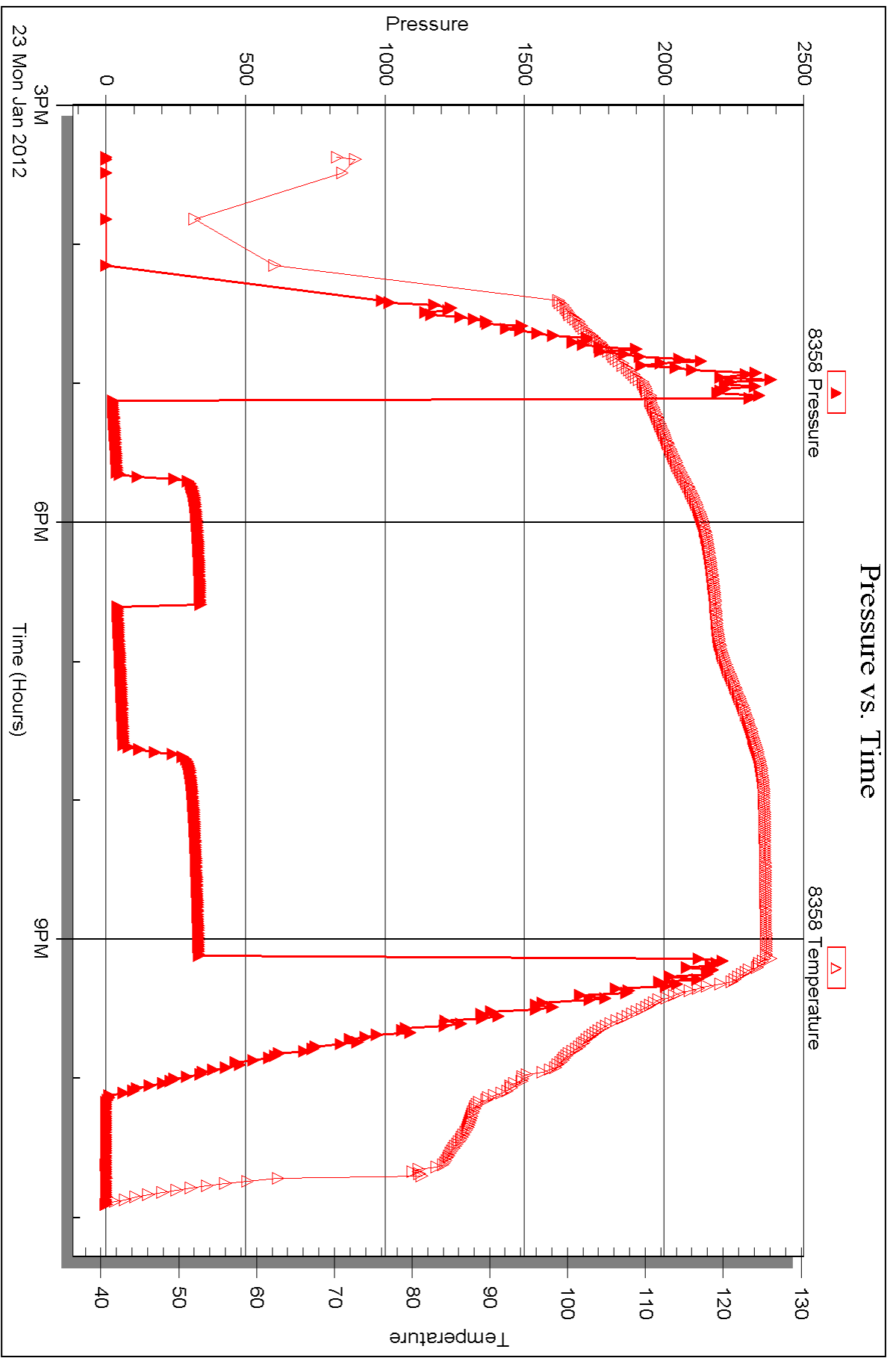
Serial #: 8358

Inside

Murfin Drilling Co

Tow ns "A" #2-21

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water
Wichita KS 67202+1216

ATTN: Tom Funk

Towns "A" #2-21

21- 10s-34w Thomas,KS

Start Date: 2012.01.24 @ 10:55:15

End Date: 2012.01.24 @ 18:39:00

Job Ticket #: 44921 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.27 @ 12:10:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

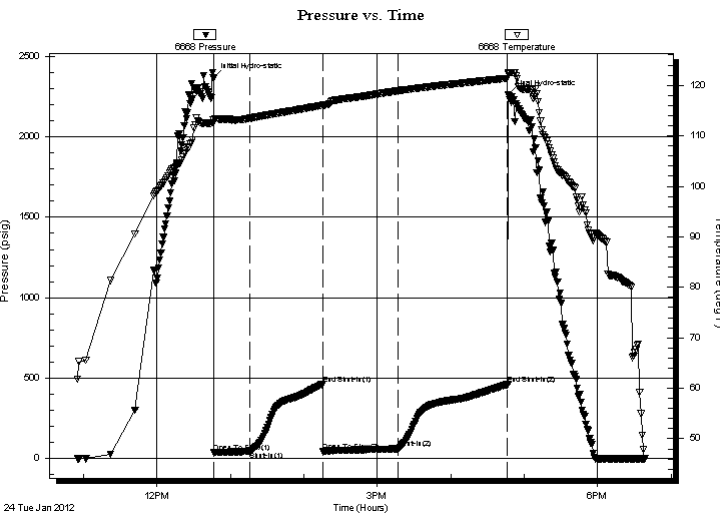
21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44921 **DST#: 3**
Test Start: 2012.01.24 @ 10:55:15

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:46:15
Time Test Ended: 18:39:00
Interval: **4698.00 ft (KB) To 4750.00 ft (KB) (TVD)**
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 3249.00 ft (KB)
3236.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6668 Outside
Press @ Run Depth: 60.13 psig @ 4702.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.24 End Date: 2012.01.24 Last Calib.: 2012.01.24
Start Time: 10:55:15 End Time: 18:39:00 Time On Btm: 2012.01.24 @ 12:46:00
Time Off Btm: 2012.01.24 @ 16:46:45

TEST COMMENT: IF: Built to 4" blow
IS: No return blow
FF: Built to 9" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.69	113.15	Initial Hydro-static
1	36.10	112.61	Open To Flow (1)
30	43.50	113.45	Shut-In(1)
90	461.84	116.04	End Shut-In(1)
90	43.55	116.04	Open To Flow (2)
151	60.13	118.92	Shut-In(2)
240	460.03	121.40	End Shut-In(2)
241	2261.99	122.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	ocm 30%o 70%m	0.98

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water
 Wichita KS 67202+1216
 ATTN: Tom Funk

21- 10s-34w Thomas,KS

Towns "A" #2-21

Job Ticket: 44921 **DST#: 3**

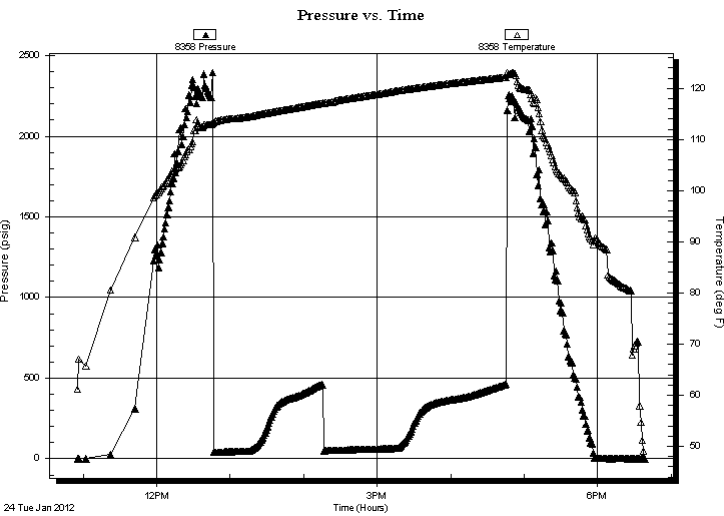
Test Start: 2012.01.24 @ 10:55:15

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 12:46:15 Tester: Mke Roberts
 Time Test Ended: 18:39:00 Unit No: 48
Interval: 4698.00 ft (KB) To 4750.00 ft (KB) (TVD) Reference Elevations: 3249.00 ft (KB)
 Total Depth: 4750.00 ft (KB) (TVD) 3236.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8358 Inside
 Press@RunDepth: psig @ 4702.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.24 End Date: 2012.01.24 Last Calib.: 2012.01.24
 Start Time: 10:55:30 End Time: 18:39:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 4" blow
 IS: No return blow
 FF: Built to 9" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	ocm 30%o 70%m	0.98

* 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
250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44921 **DST#: 3**
Test Start: 2012.01.24 @ 10:55:15

Tool Information

Drill Pipe:	Length: 4695.00 ft	Diameter: 3.80 inches	Volume: 65.86 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4698.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 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
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Change Over Sub	1.00			4671.00	
Shut In Tool	5.00			4676.00	
Hydraulic tool	5.00			4681.00	
Jars	5.00			4686.00	
Safety Joint	3.00			4689.00	
Packer	5.00			4694.00	28.00 Bottom Of Top Packer
Packer	4.00			4698.00	
Stubb	1.00			4699.00	
Perforations	3.00			4702.00	
Recorder	0.00	8358	Inside	4702.00	
Recorder	0.00	6668	Outside	4702.00	
Change Over Sub	1.00			4703.00	
Drill Pipe	32.00			4735.00	
Change Over Sub	1.00			4736.00	
Perforations	9.00			4745.00	
Bullnose	5.00			4750.00	52.00 Bottom Packers & Anchor
Total Tool Length:	80.00				



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FLUID SUMMARY

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250 N Water
Wichita KS 67202+1216
ATTN: Tom Funk

21- 10s-34w Thomas,KS
Towns "A" #2-21
Job Ticket: 44921 **DST#: 3**
Test Start: 2012.01.24 @ 10:55:15

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	ocm 30% o 70% m	0.982

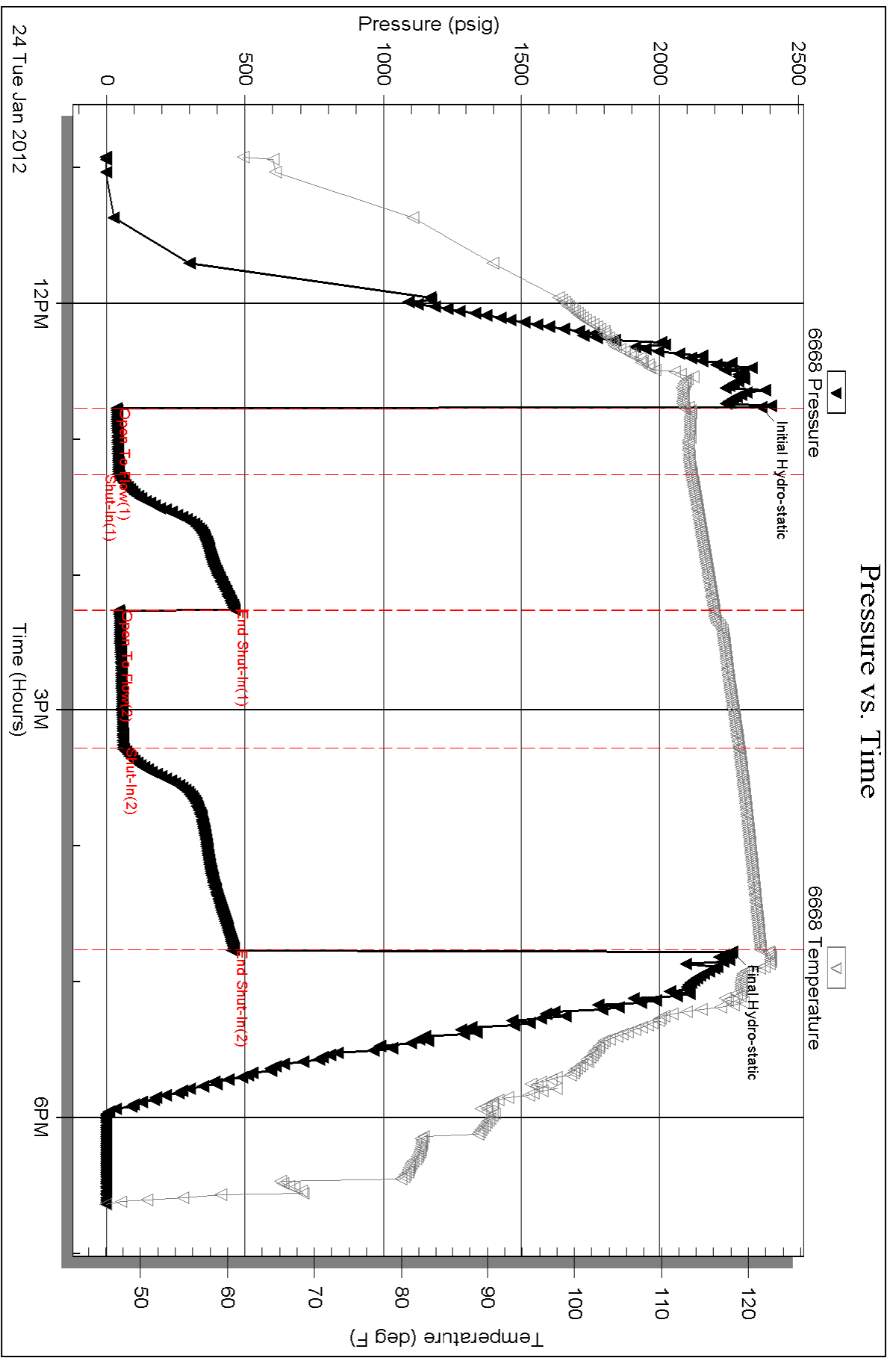
Total Length: 70.00 ft Total Volume: 0.982 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

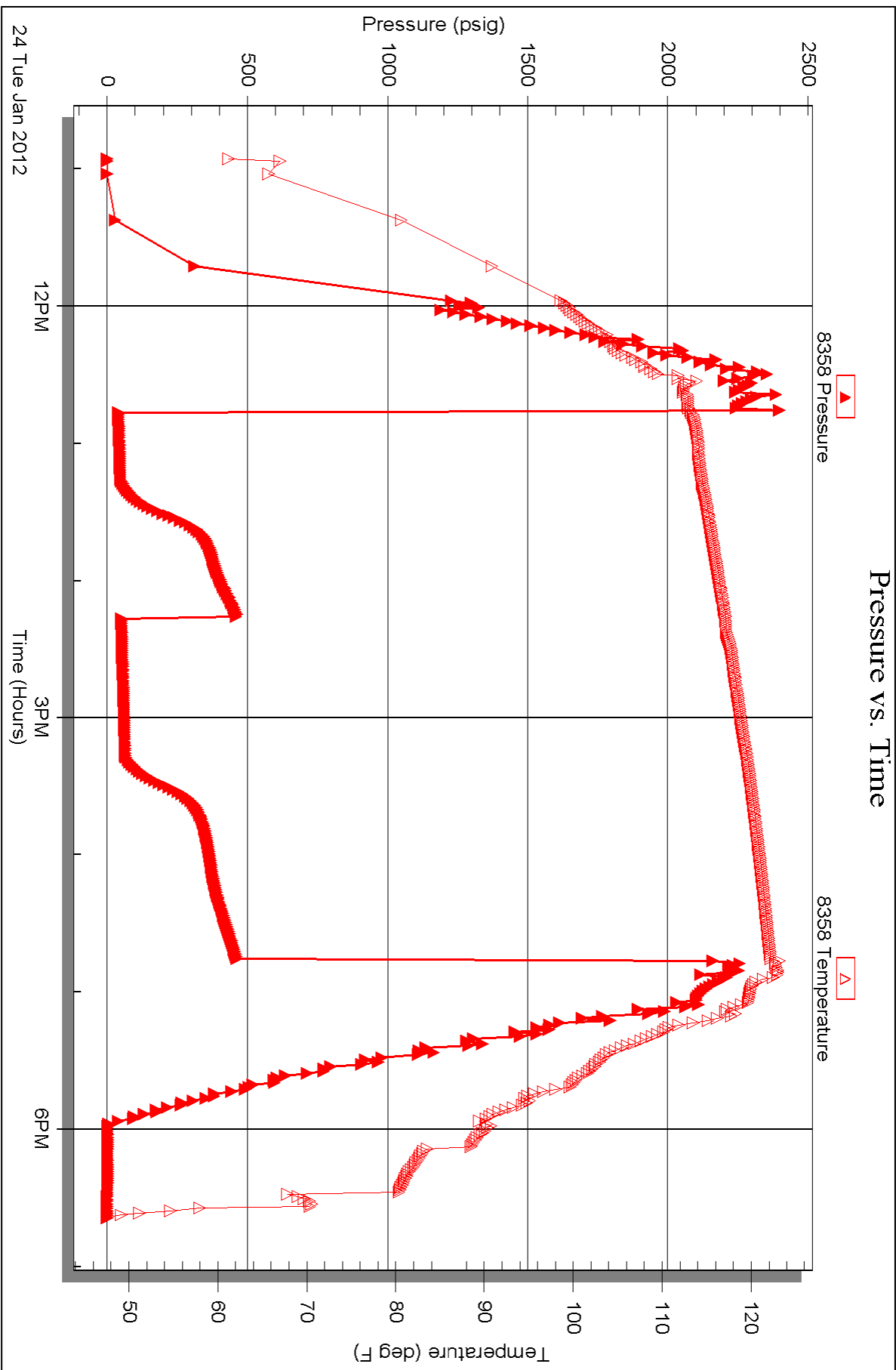
Serial #: 6668

Outside Murfin Drilling Co

Town # "A" #2-21

DST Test Number: 3







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 23 2012
By: _____

Test Ticket

NO. 44599

Well Name & No. TOWNS "A" 2-21 Test No. 1 Date 1-22-12
 Company MURFIN DRILLING CO. Elevation 3249 KB 3236 GL
 Address 250 N WATER WICHITA KS. 67202-1216
 Co. Rep / Geo. TOM FUNK Rig MURFIN 25
 Location: Sec. 21 Twp. 10S Rge. 34W Co. THOMAS State KS

Interval Tested 4394 - 4420 Zone Tested LKC "K"
 Anchor Length 26' Drill Pipe Run 4382 Mud Wt. 9.1
 Top Packer Depth 4389 Drill Collars Run 0 Vis 76
 Bottom Packer Depth 4394 Wt. Pipe Run 0 WL 5.2
 Total Depth 4420 Chlorides 3400 ppm System LCM 8#

Blow Description IF: FAIR, 4" blow
ISI: NO RETURN
FF 3" blow
FST NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>HOCM</u>		<u>40</u>		<u>60</u>
<u>90</u>	<u>BIP</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90' BHT 122' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2244
- (B) First Initial Flow 20
- (C) First Final Flow 35
- (D) Initial Shut-In 347
- (E) Second Initial Flow 37
- (F) Second Final Flow 55
- (G) Final Shut-In 336
- (H) Final Hydrostatic 2089

- Test 1225'
- Jars 250'
- Safety Joint 175'
- Circ Sub _____
- Hourly Standby _____
- Mileage 12881 scott city 179.20
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1729.20

T-On Location 09:41
 T-Started 10:31
 T-Open 12:39
 T-Pulled 16:39
 T-Out 18:39
 Comments _____

 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1729.20
 MP/DST Disc't _____

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

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 26 2012

Test Ticket

NO. 44920

4/10

BY: _____

Well Name & No. Towns "A"-2-21 Test No. 2 Date 1-23-12
 Company Murfin Drilling Co. Elevation 3249 KB 3236 GL _____
 Address 250 N. Water Wichita KS 67202
 Co. Rep / Geo. Tom Funk Rig Murfin 25
 Location: Sec. 21 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4619-4660 Zone Tested Myrick Station
 Anchor Length 41 Drill Pipe Run 4603 Mud Wt. 9.1
 Top Packer Depth 4615 Drill Collars Run Ø Vis 58
 Bottom Packer Depth 4619 Wt. Pipe Run Ø WL 5.6
 Total Depth 4460 Chlorides 3300 ppm System LCM 8
 Blow Description IF: Built to 3" Blow
IS: No Return Blow
FF: Built to 1 1/2" Blow
FS: No Return Blow

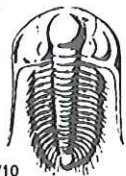
Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>M</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 95 BHT 128 Gravity _____ API RW _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2303</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>14:25</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>15:22</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>17:06</u>
(D) Initial Shut-In <u>334</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>21:06</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:55</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>128RT, 179.20'</u>	Comments _____
(G) Final Shut-In <u>328</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2123</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>Ø</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1729.20</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1729.20</u>	

Approved By [Signature] Our Representative Mike Roberts

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 26 2012

Test Ticket

NO. 44921

4/10

Well Name & No. Towns "A" 2-21 Test No. 3 Date 1-24-12
 Company Murfin Drilling Elevation 3249 KB 3236 GL
 Address 250 N. Water Wichita KS 67202
 Co. Rep / Geo. Tom Funk Rig Murfin 25
 Location: Sec. 21 Twp. 10S Rge. 34W Co. THOMAS State KS

Interval Tested 4698-4750 Zone Tested Johnson
 Anchor Length 52' Drill Pipe Run 4695 Mud Wt. 9.1
 Top Packer Depth 4694 Drill Collars Run Ø Vis 88
 Bottom Packer Depth 4698 Wt. Pipe Run Ø WL 5.6
 Total Depth 4750 Chlorides 3300 ppm System LCM 8
 Blow Description IF: Built to 4" Bbw
IS: No Return Blow
FF: Built to 9" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of OCM</u>	<u>30</u>	<u>0</u>	<u>70</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 122 Gravity / API RW / @ / ° F Chlorides / ppm

(A) Initial Hydrostatic <u>2365</u>	<input checked="" type="checkbox"/> Test	<u>\$1225.00</u>	T-On Location <u>09:45</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars	<u>"250.00</u>	T-Started <u>10:55</u>
(C) First Final Flow <u>43</u>	<input checked="" type="checkbox"/> Safety Joint	<u>"75.00</u>	T-Open <u>12:45</u>
(D) Initial Shut-In <u>461</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NC</u>	T-Pulled <u>16:45</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby		T-Out <u>18:39</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>128RT 179.20</u>		Comments _____
(G) Final Shut-In <u>460</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic <u>2261</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total <u>Ø</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby		Total <u>1729.20</u>
	<input type="checkbox"/> Accessibility		MP/DST Disc't _____
	Sub Total <u>1729.20</u>		

Approved By

Our Representative