



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.19 @ 12:02:00

End Date: 2012.09.19 @ 20:12:45

Job Ticket #: 49406 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:12:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49406

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.09.19 @ 12:02:00

GENERAL INFORMATION:

Formation: **Lansing KC. I Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:15

Time Test Ended: 20:12:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: 55

Interval: 4120.00 ft (KB) To 4153.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4153.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 315.69 psig @ 4121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.19

End Date:

2012.09.19

Last Calib.:

2012.09.19

Start Time:

12:02:15

End Time:

20:12:45

Time On Btm:

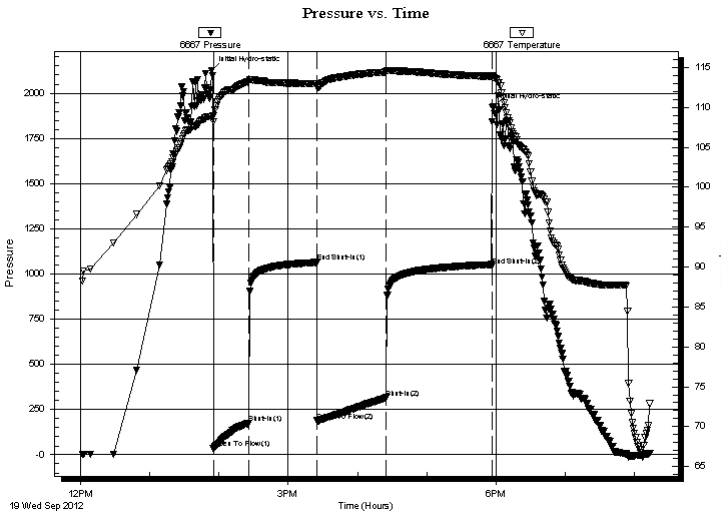
2012.09.19 @ 13:53:45

Time Off Btm:

2012.09.19 @ 17:57:00

TEST COMMENT: IF 30 Strong Blow, Off Bottom in 22 min.
IS 60 No Blow Back
FF 60 Strong Blow, Off Bottom in 27 min.
FS 90 No Blow Back

PRESSURE SUMMARY



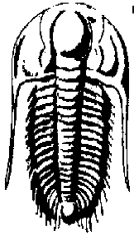
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.75	108.88	Initial Hydro-static
2	33.84	108.27	Open To Flow (1)
32	174.65	113.25	Shut-In(1)
91	1063.94	112.96	End Shut-In(1)
92	188.16	112.64	Open To Flow (2)
151	315.69	114.43	Shut-In(2)
243	1045.94	113.89	End Shut-In(2)
244	1920.68	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	Salt Water with Oil Trace on Top 95%w	55.39
124.00	Muddy Water w/ Oil Trace 60%w 40%w	1.74
1.00	Clean Oil 100%	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

4-21s-34w Finney,KS

Marabelle #1-4

Job Ticket: 49406

DST#: 1

Test Start: 2012.09.19 @ 12:02:00

GENERAL INFORMATION:

Formation: **Lansing KC. I Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:15

Time Test Ended: 20:12:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: 55

Interval: 4120.00 ft (KB) To 4153.00 ft (KB) (TVD)

Total Depth: 4153.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @ Run Depth: psig @ 4121.00 ft (KB)

Start Date: 2012.09.19

End Date: 2012.09.19

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

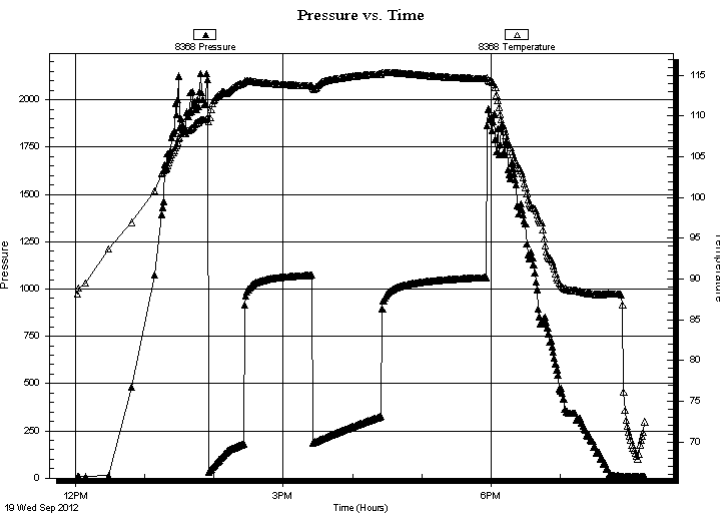
Start Time: 12:02:15

End Time: 20:12:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 22 min.
IS 60 No Blow Back
FF 60 Strong Blow , Off Bottom in 27 min.
FS 90 No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
558.00	Salt Water with Oil Trace on Top 95%w	55.39
124.00	Muddy Water w / Oil Trace 60%w 40%o	1.74
1.00	Clean Oil 100%o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49406

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.09.19 @ 12:02:00

Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 55.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4120.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4094.00	
Shut In Tool	5.00			4099.00	
Hydraulic tool	5.00			4104.00	
Jars	5.00			4109.00	
Safety Joint	2.00			4111.00	
Packer	5.00			4116.00	27.00 Bottom Of Top Packer
Packer	4.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	6667	Outside	4121.00	
Recorder	0.00	8368	Inside	4121.00	
Perforations	27.00			4148.00	
Bullnose	5.00			4153.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49406

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.09.19 @ 12:02:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	Salt Water with Oil Trace on Top 95%w 5%	5.386
124.00	Muddy Water w / Oil Trace 60%w 40%m	1.739
1.00	Clean Oil 100%o	0.014

Total Length: 683.00 ft Total Volume: 7.139 bbl

Num Fluid Samples: 0

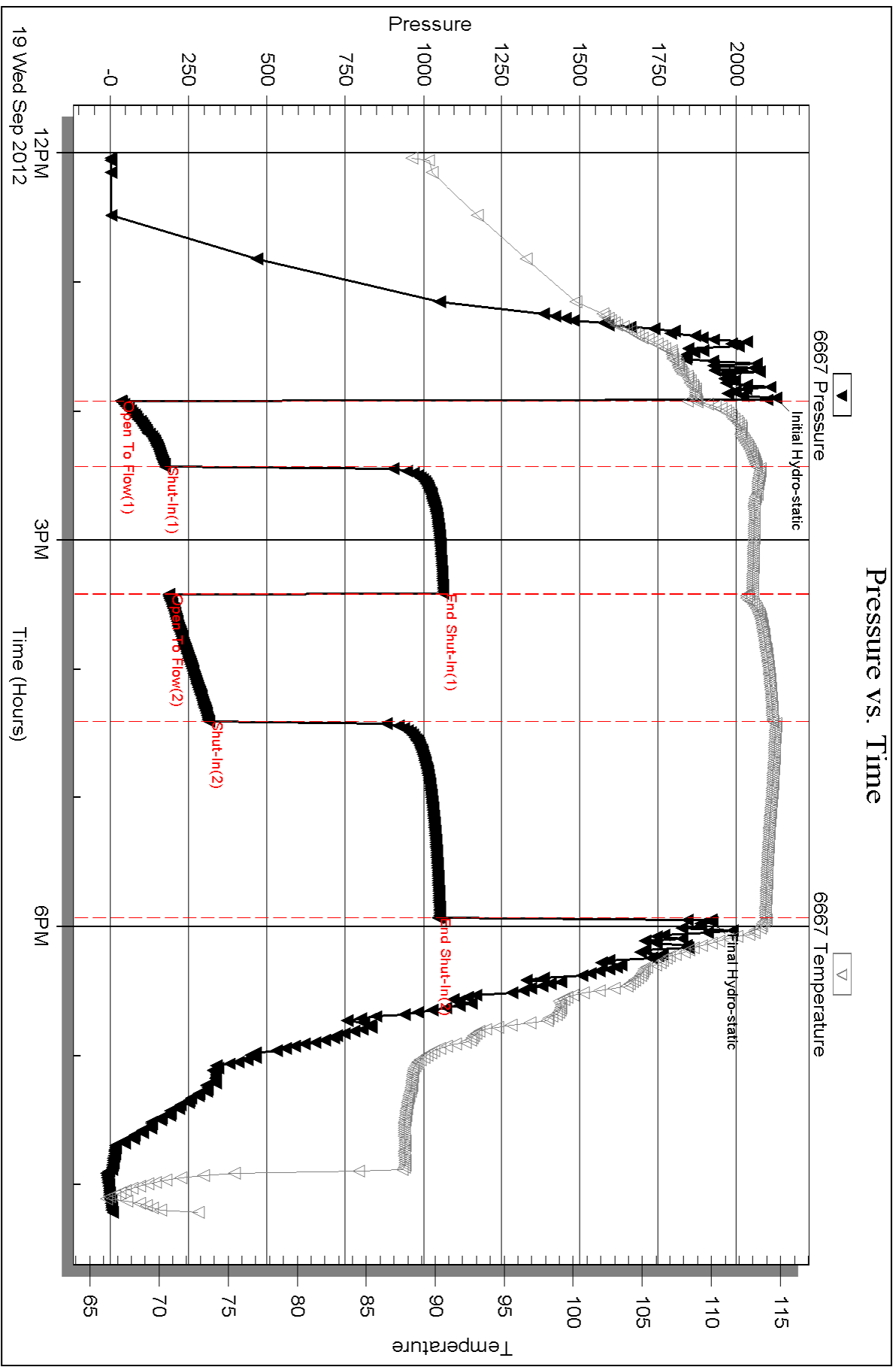
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW 1.12@87 4600 Chlorides



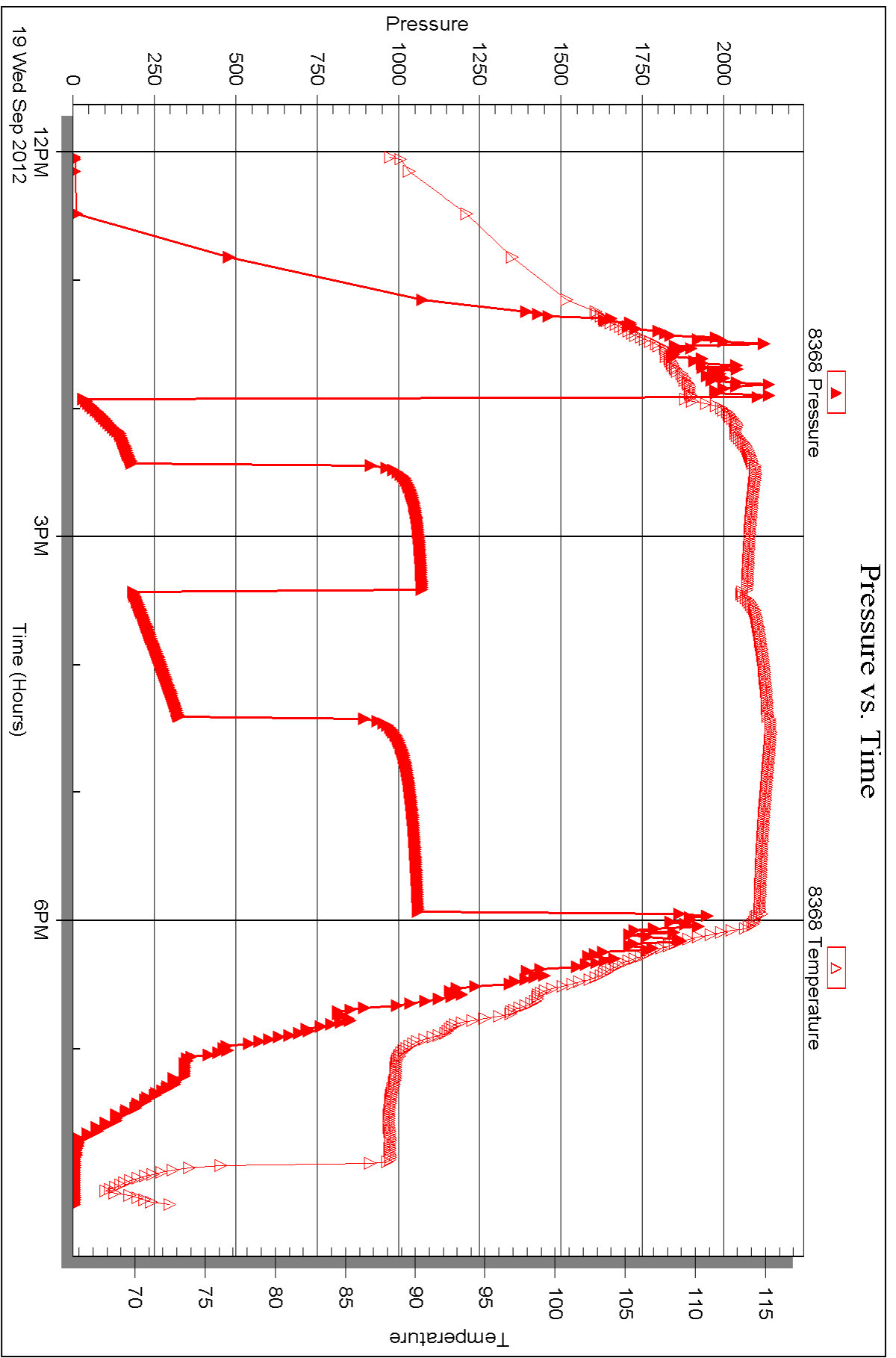
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49406

Printed: 2012.09.28 @ 08:12:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.20 @ 03:53:00

End Date: 2012.09.20 @ 12:07:45

Job Ticket #: 49407 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:11:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

GENERAL INFORMATION:

Formation: **Lansing KC K Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 12:07:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4187.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 116.88 psig @ 4188.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.20

End Date:

2012.09.20

Last Calib.:

2012.09.27

Start Time: 03:53:15

End Time:

12:07:45

Time On Btm:

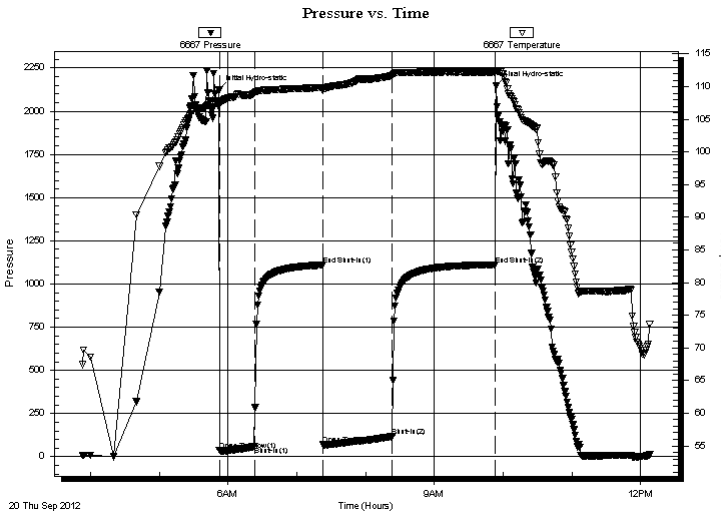
2012.09.20 @ 05:52:15

Time Off Btm:

2012.09.20 @ 09:53:45

TEST COMMENT: IF 30 Weak Blow , Increased Slow ly to 2"
IS 60 No Blow
FF 60 Weak Blow , Increased to 2.5"
FS 90 No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.69	107.72	Initial Hydro-static
1	35.53	107.25	Open To Flow (1)
31	58.73	108.90	Shut-In(1)
91	1109.20	109.86	End Shut-In(1)
91	70.27	109.43	Open To Flow (2)
151	116.88	111.65	Shut-In(2)
241	1111.67	112.26	End Shut-In(2)
242	2146.10	112.49	Final Hydro-static

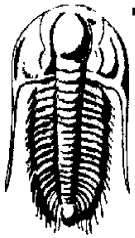
Recovery

Length (ft)	Description	Volume (bbl)
62.00	HOCM 5%G 25%O 70%M	0.30
124.00	Clean Gassy Oil 30%G 70%O	0.61
64.00	Clean Gassy Oil 50%G 50%O	0.31

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

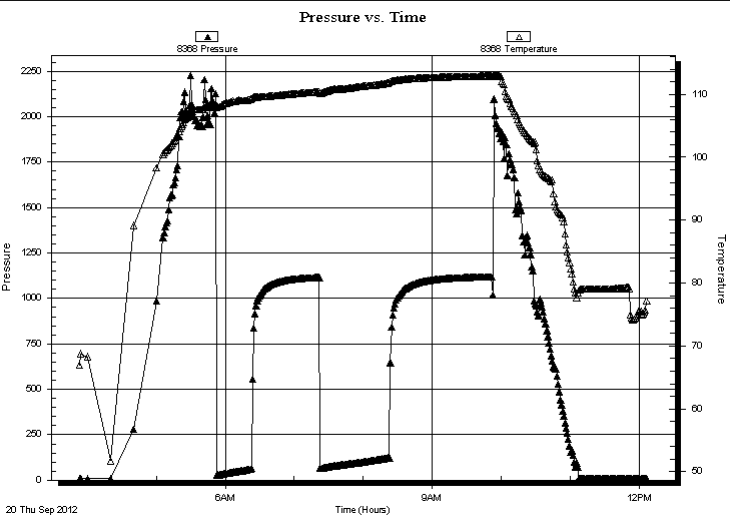
GENERAL INFORMATION:

Formation:	Lansing KC K Zone		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	05:52:30		Tester: Troy Leiker
Time Test Ended:	12:07:45		Unit No: 55
Interval:	4187.00 ft (KB) To 4205.00 ft (KB) (TVD)		Reference Elevations: 2994.00 ft (KB)
Total Depth:	4205.00 ft (KB) (TVD)		2983.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press @RunDepth:	psig @ 4188.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.09.20	End Date:	2012.09.20
Start Time:	03:53:15	End Time:	12:07:15
		Last Calib.:	1899.12.30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF 30 Weak Blow , Increased Slow ly to 2"
 IS 60 No Blow
 FF 60 Weak Blow , Increased to 2.5"
 FS 90 No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HOCM 5%G 25%O 70%M	0.30
124.00	Clean Gassy Oil 30%G 70%O	0.61
64.00	Clean Gassy Oil 50%G 50%O	0.31

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 56.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4187.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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			4161.00	
Shut In Tool	5.00			4166.00	
Hydraulic tool	5.00			4171.00	
Jars	5.00			4176.00	
Safety Joint	2.00			4178.00	
Packer	5.00			4183.00	27.00 Bottom Of Top Packer
Packer	4.00			4187.00	
Stubb	1.00			4188.00	
Recorder	0.00	6667	Outside	4188.00	
Recorder	0.00	8368	Inside	4188.00	
Perforations	13.00			4201.00	
Bullnose	5.00			4206.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	HOCM 5%G 25%O 70%M	0.305
124.00	Clean Gassy Oil 30%G 70%O	0.610
64.00	Clean Gassy Oil 50%G 50%O	0.315

Total Length: 250.00 ft Total Volume: 1.230 bbl

Num Fluid Samples: 0

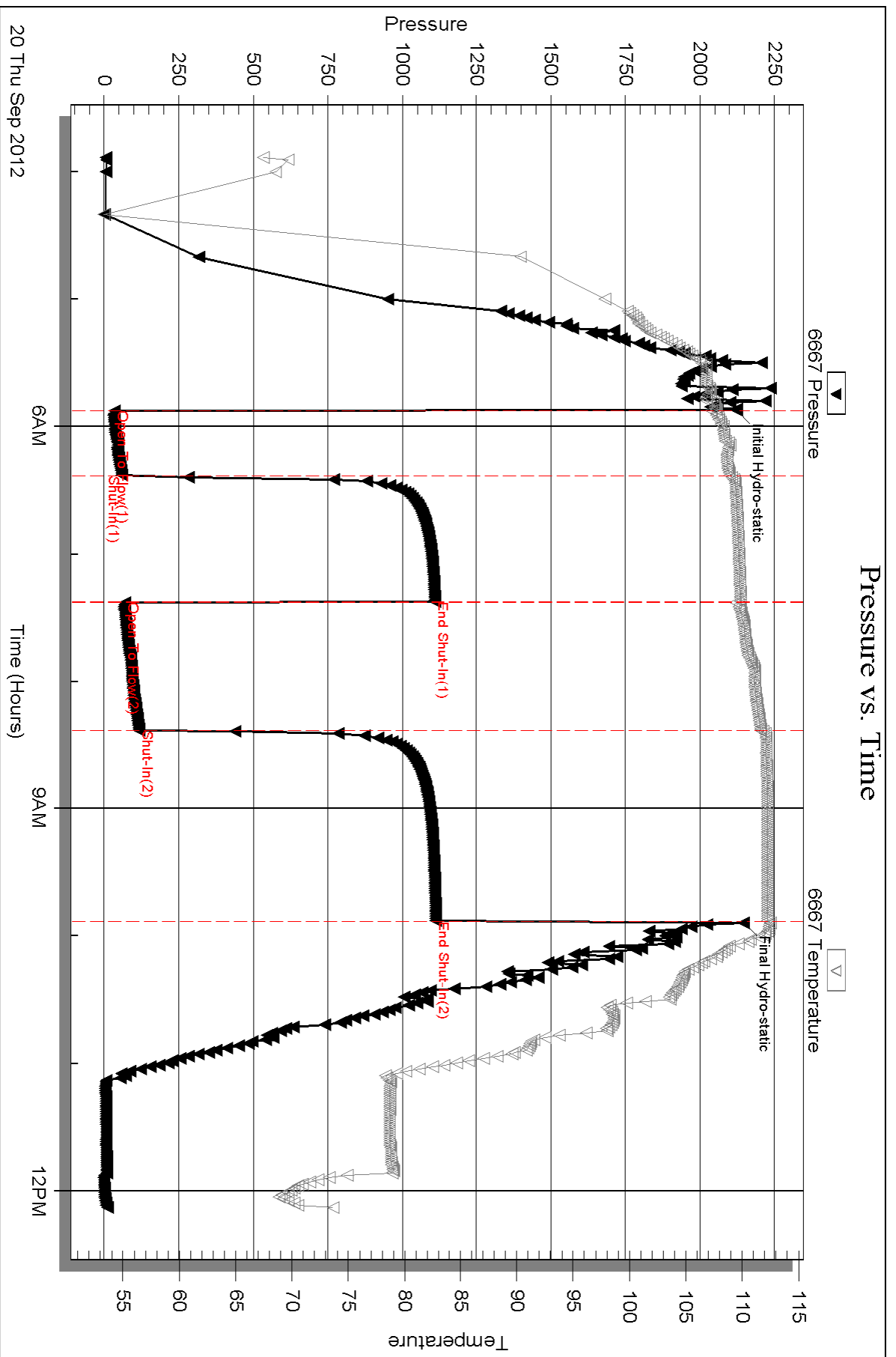
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity is Less Than 18



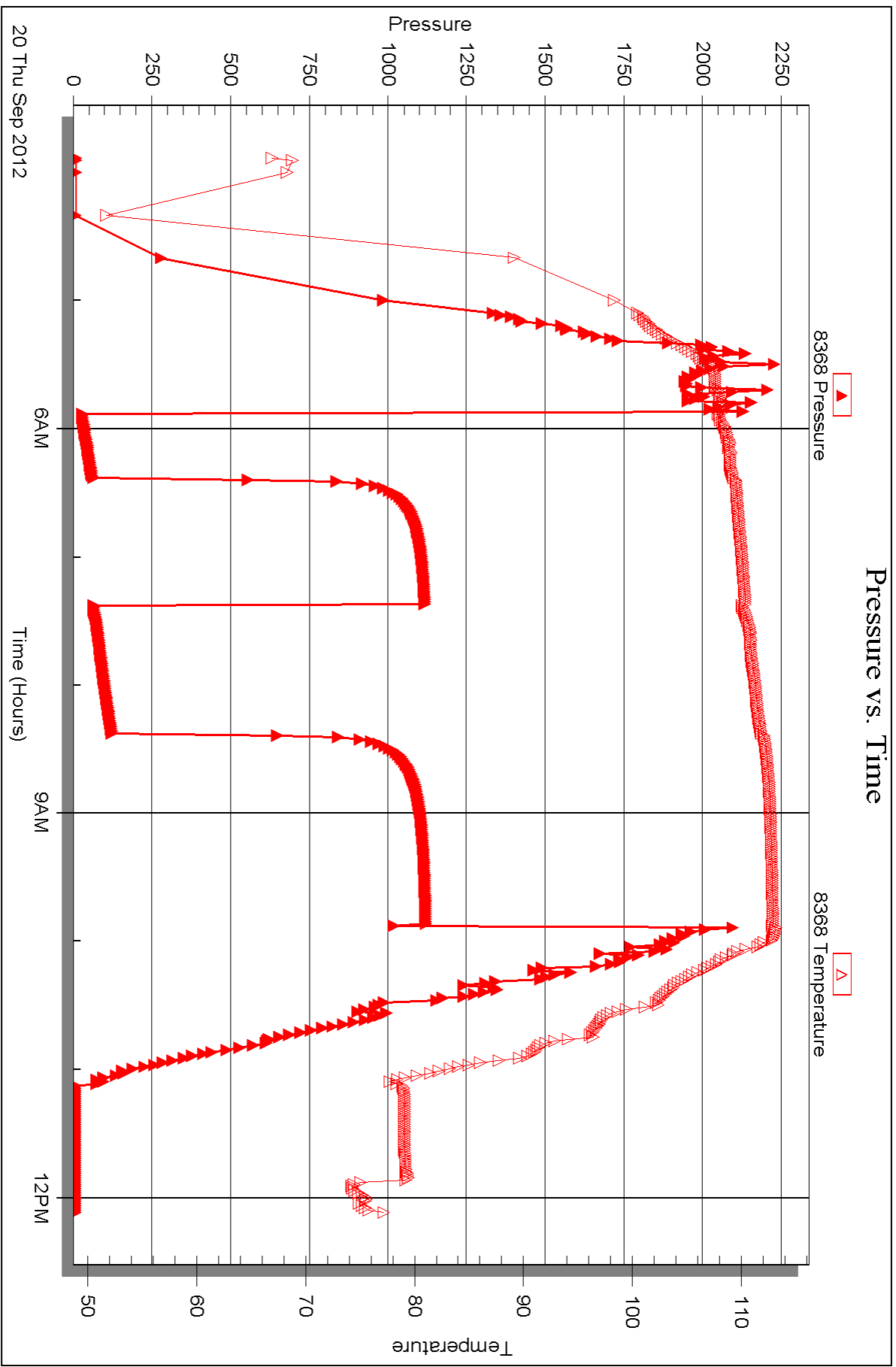
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49407

Printed: 2012.09.28 @ 08:11:18



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.21 @ 05:02:00

End Date: 2012.09.21 @ 13:28:15

Job Ticket #: 49408 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:10:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:30

Time Test Ended: 13:28:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4365.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4153.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: 638.89 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21

End Date:

2012.09.21

Last Calib.:

2012.09.21

Start Time: 05:02:15

End Time:

13:28:15

Time On Btm:

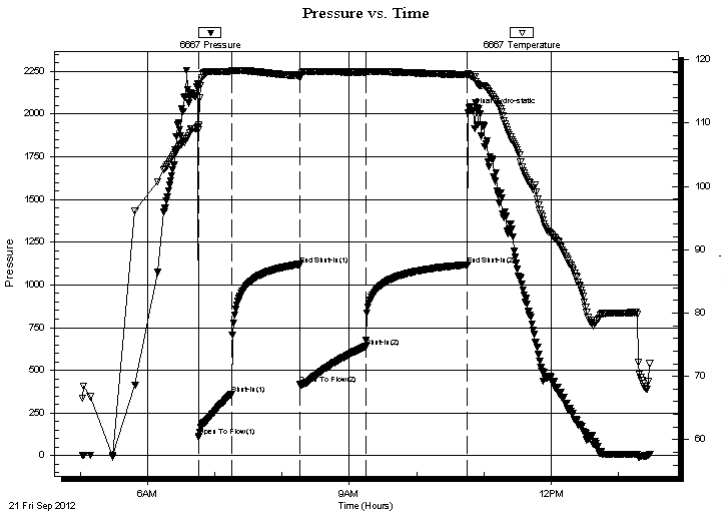
2012.09.21 @ 06:45:15

Time Off Btm:

2012.09.21 @ 10:45:45

TEST COMMENT: IF 30 Strong Blow, Off Bottom in 3 min.
IS 60 Weak Blow 1/4" in Bkt.
FF 60 Strong Blow, Off Bottom in 5 min.
FS 90 Weak Blow, 1/4" in Bkt..

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.11	109.36	Initial Hydro-static
1	115.16	108.91	Open To Flow (1)
30	359.18	118.11	Shut-In(1)
91	1119.64	117.44	End Shut-In(1)
91	416.41	117.16	Open To Flow (2)
150	638.89	118.01	Shut-In(2)
240	1117.86	117.62	End Shut-In(2)
241	2007.10	117.69	Final Hydro-static

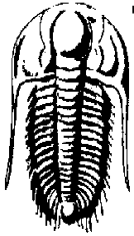
Recovery

Length (ft)	Description	Volume (bbl)
1390.00	Salt Water 95%w 5%m	17.06
10.00	Clean Gassy Oil 20%g 80%o	0.14
250.00	Gas in Pipe	3.51

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

GENERAL INFORMATION:

Formation: **Marmaton A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:45:30
 Time Test Ended: 13:28:15
 Interval: **4365.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Total Depth: 4153.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Troy Leiker
 Unit No: 55
 Reference Elevations: 2994.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 11.00 ft

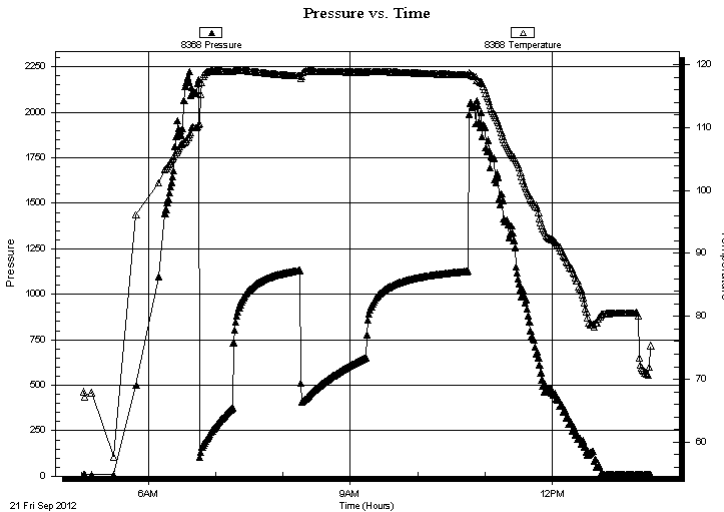
Serial #: 8368

Inside

Press @ Run Depth: psig @ 4366.00 ft (KB)
 Start Date: 2012.09.21 End Date: 2012.09.21
 Start Time: 05:02:15 End Time: 13:28:00
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF 30 Strong Blow, Off Bottom in 3 min.
 IS 60 Weak Blow 1/4" in Bkt.
 FF 60 Strong Blow, Off Bottom in 5 min.
 FS 90 Weak Blow, 1/4" in Bkt..

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1390.00	Salt Water 95%w 5%m	17.06
10.00	Clean Gassy Oil 20%g 80%o	0.14
250.00	Gas in Pipe	3.51

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

Tool Information

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4365.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 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
Change Over Sub	1.00			4339.00	
Shut In Tool	5.00			4344.00	
Hydraulic tool	5.00			4349.00	
Jars	5.00			4354.00	
Safety Joint	2.00			4356.00	
Packer	5.00			4361.00	27.00 Bottom Of Top Packer
Packer	4.00			4365.00	
Stubb	1.00			4366.00	
Recorder	0.00	6667	Outside	4366.00	
Recorder	0.00	8368	Inside	4366.00	
Perforations	9.00			4375.00	
Bullnose	5.00			4380.00	15.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

2950 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1390.00	Salt Water 95%w 5%m	17.057
10.00	Clean Gassy Oil 20%g 80%o	0.140
250.00	Gas in Pipe	3.507

Total Length: 1650.00 ft

Total Volume: 20.704 bbl

Num Fluid Samples: 0

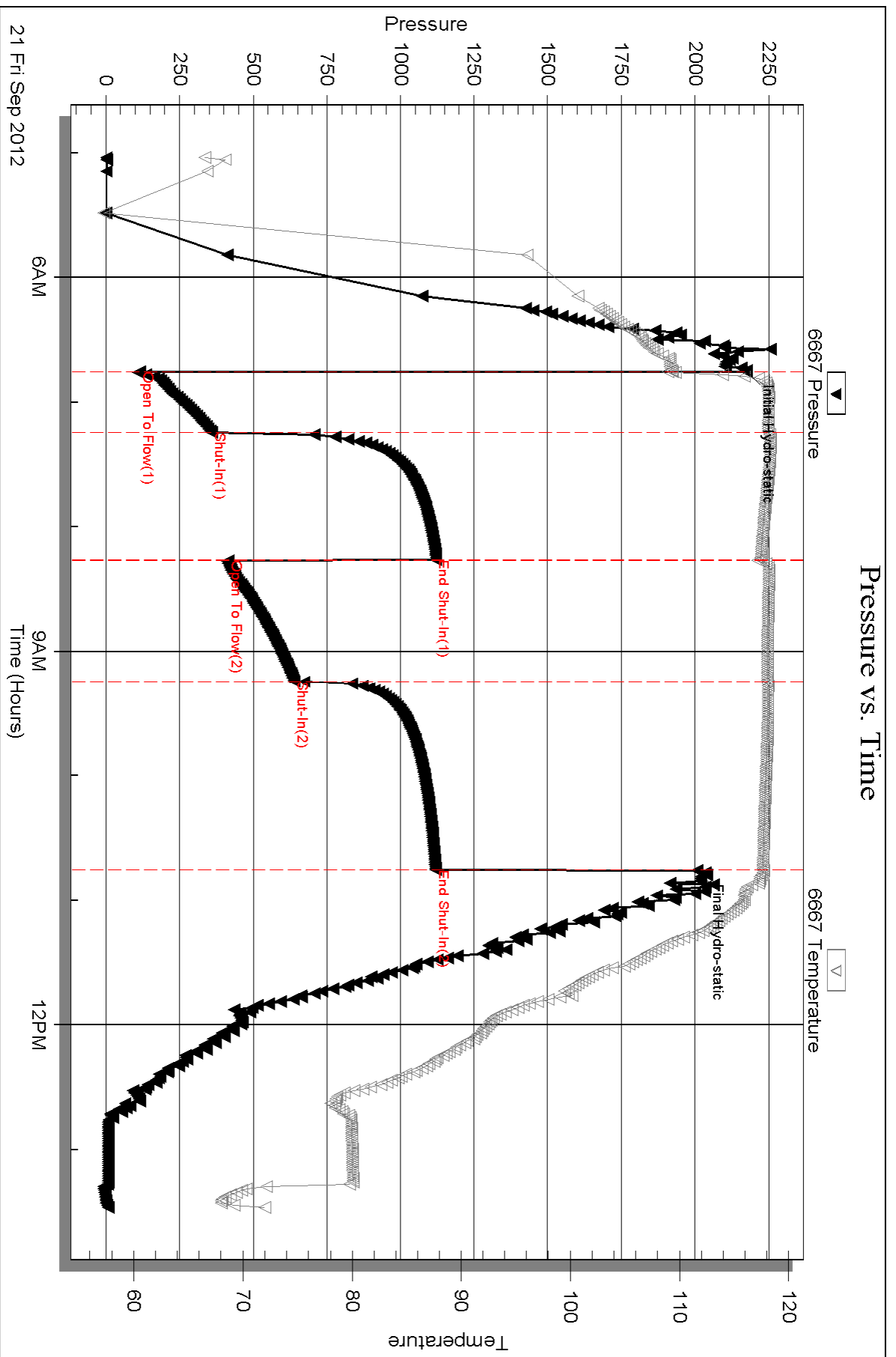
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



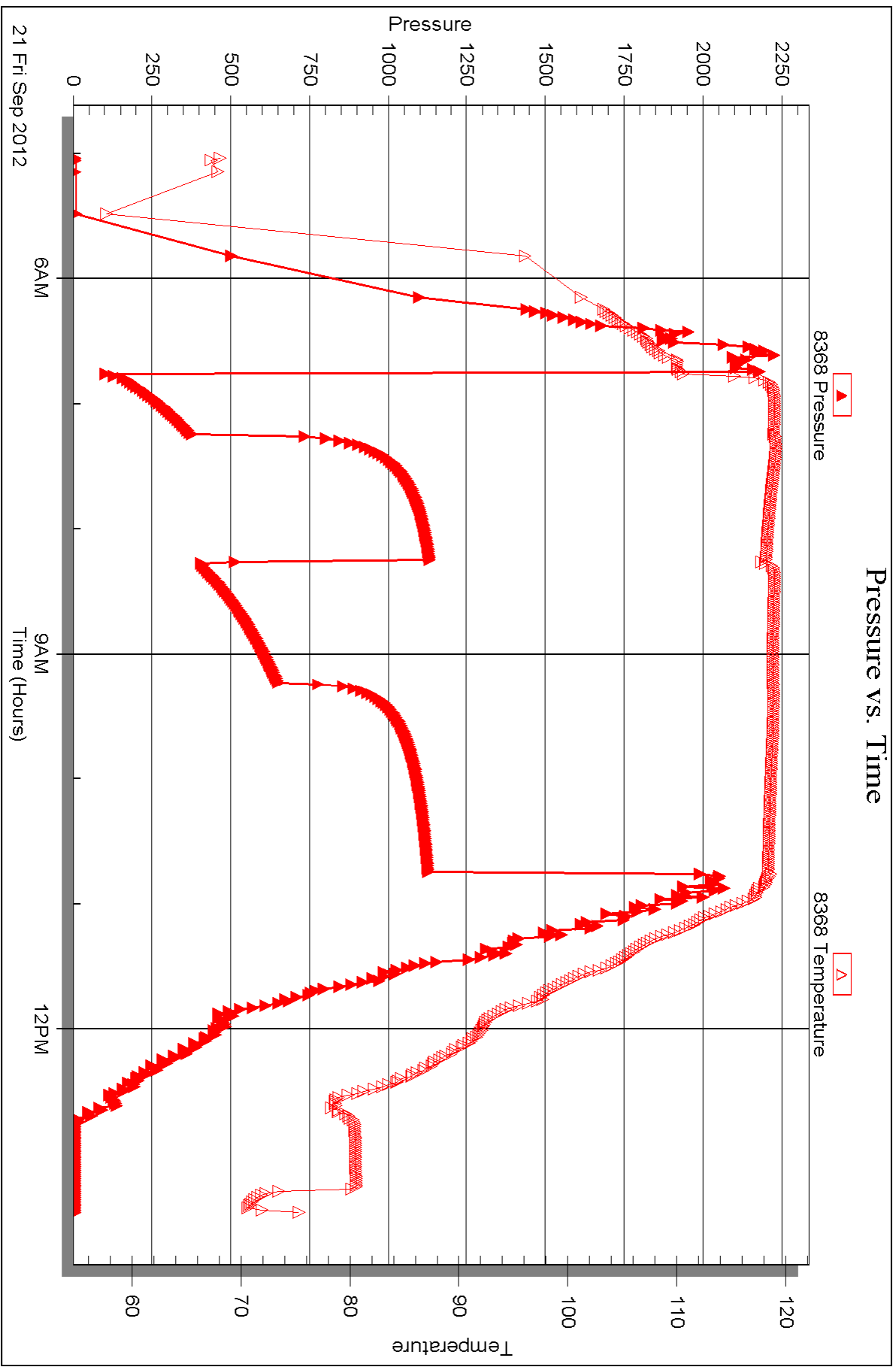
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.21 @ 22:10:00

End Date: 2012.09.22 @ 11:56:30

Job Ticket #: 49409 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:08:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

GENERAL INFORMATION:

Formation: **Marmaton B & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:26:45

Time Test Ended: 11:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4382.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: 796.54 psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21

End Date:

2012.09.22

Last Calib.:

2012.09.22

Start Time: 22:10:15

End Time:

11:56:30

Time On Btm:

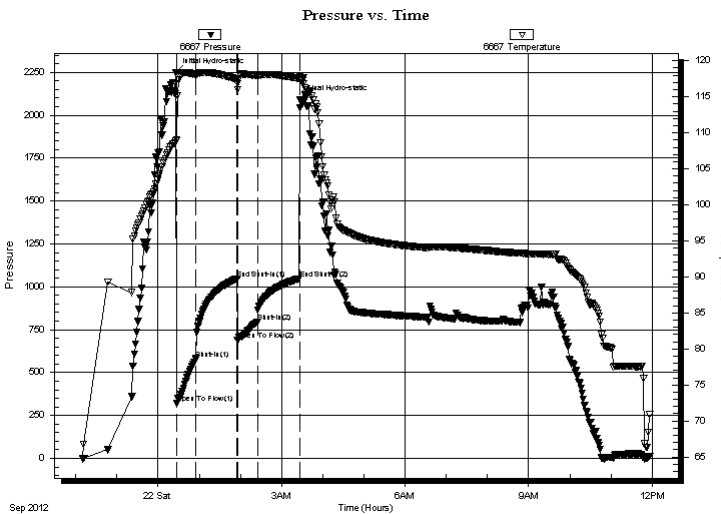
2012.09.22 @ 00:26:15

Time Off Btm:

2012.09.22 @ 03:27:15

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 2 min.
IS 60 Strong Blow Off Bottom After it w as Bled Off
FF 30 Strong Blow , Off Bottom in 2 min. Gas to Surface 20 min.
FS 60 Strong Blow , Off Bottom After it w as Bled Off

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.54	108.91	Initial Hydro-static
1	319.38	109.09	Open To Flow (1)
30	580.73	118.07	Shut-In(1)
89	1047.23	117.45	End Shut-In(1)
90	688.59	116.87	Open To Flow (2)
119	796.54	117.93	Shut-In(2)
180	1047.10	117.55	End Shut-In(2)
181	2089.66	117.48	Final Hydro-static

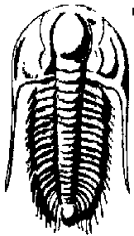
Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Oil 80%o 20%m	0.30
2340.00	Clean Gassy Oil 30%g 70%o	30.93

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

GENERAL INFORMATION:

Formation: **Marmaton B & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:26:45

Time Test Ended: 11:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4382.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @RunDepth: psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21 End Date: 2012.09.22

Last Calib.: 1899.12.30

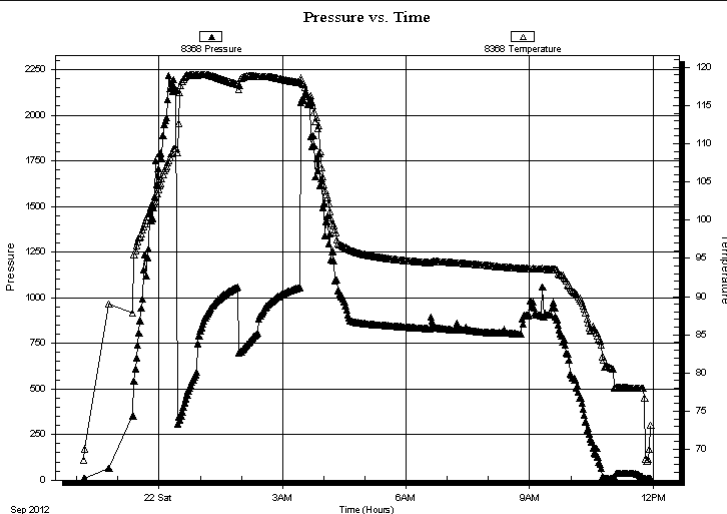
Start Time: 22:10:15 End Time: 11:56:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 2 min.
IS 60 Strong Blow Off Bottom After it w as Bled Off
FF 30 Strong Blow , Off Bottom in 2 min. Gas to Surface 20 min.
FS 60 Strong Blow , Off Bottom After it w as Bled Off

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Oil 80%o 20%g	0.30
2340.00	Clean Gassy Oil 30%g 70%o	30.93

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

Tool Information

Drill Pipe:	Length: 4098.00 ft	Diameter: 3.80 inches	Volume: 57.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4382.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 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			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Jars	5.00			4371.00	
Safety Joint	2.00			4373.00	
Packer	5.00			4378.00	27.00 Bottom Of Top Packer
Packer	4.00			4382.00	
Stubb	1.00			4383.00	
Perforations	1.00			4384.00	
Change Over Sub	1.00			4385.00	
Drill Pipe	31.00			4416.00	
Change Over Sub	1.00			4417.00	
Recorder	0.00	6667	Outside	4417.00	
Recorder	0.00	8368	Inside	4417.00	
Perforations	8.00			4425.00	
Bullnose	5.00			4430.00	48.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Muddy Oil 80%o 20%m	0.295
2340.00	Clean Gassy Oil 30%g 70%o	30.929

Total Length: 2400.00 ft Total Volume: 31.224 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

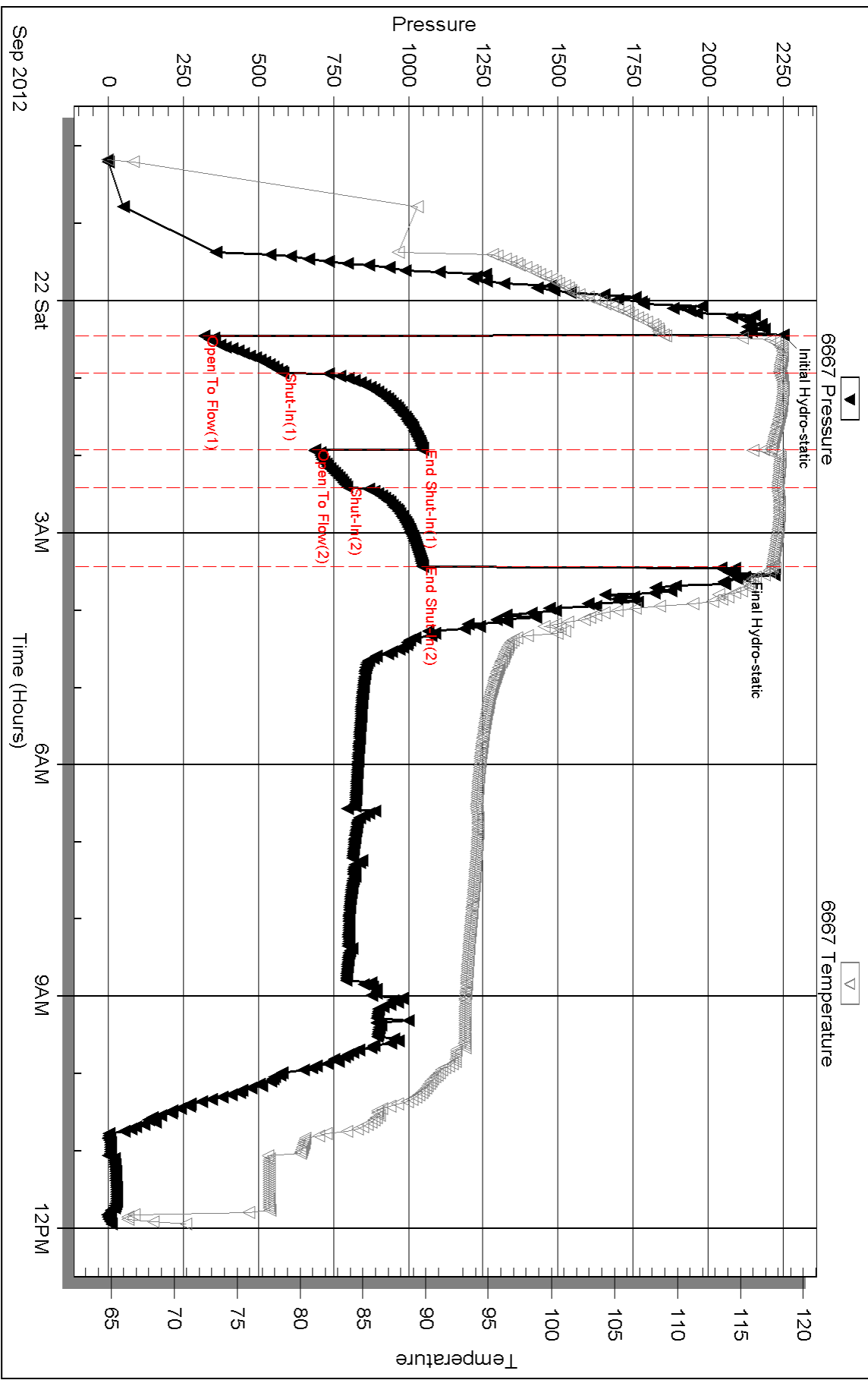
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas To Surface 20min. into Final Opening

Pressure vs. Time



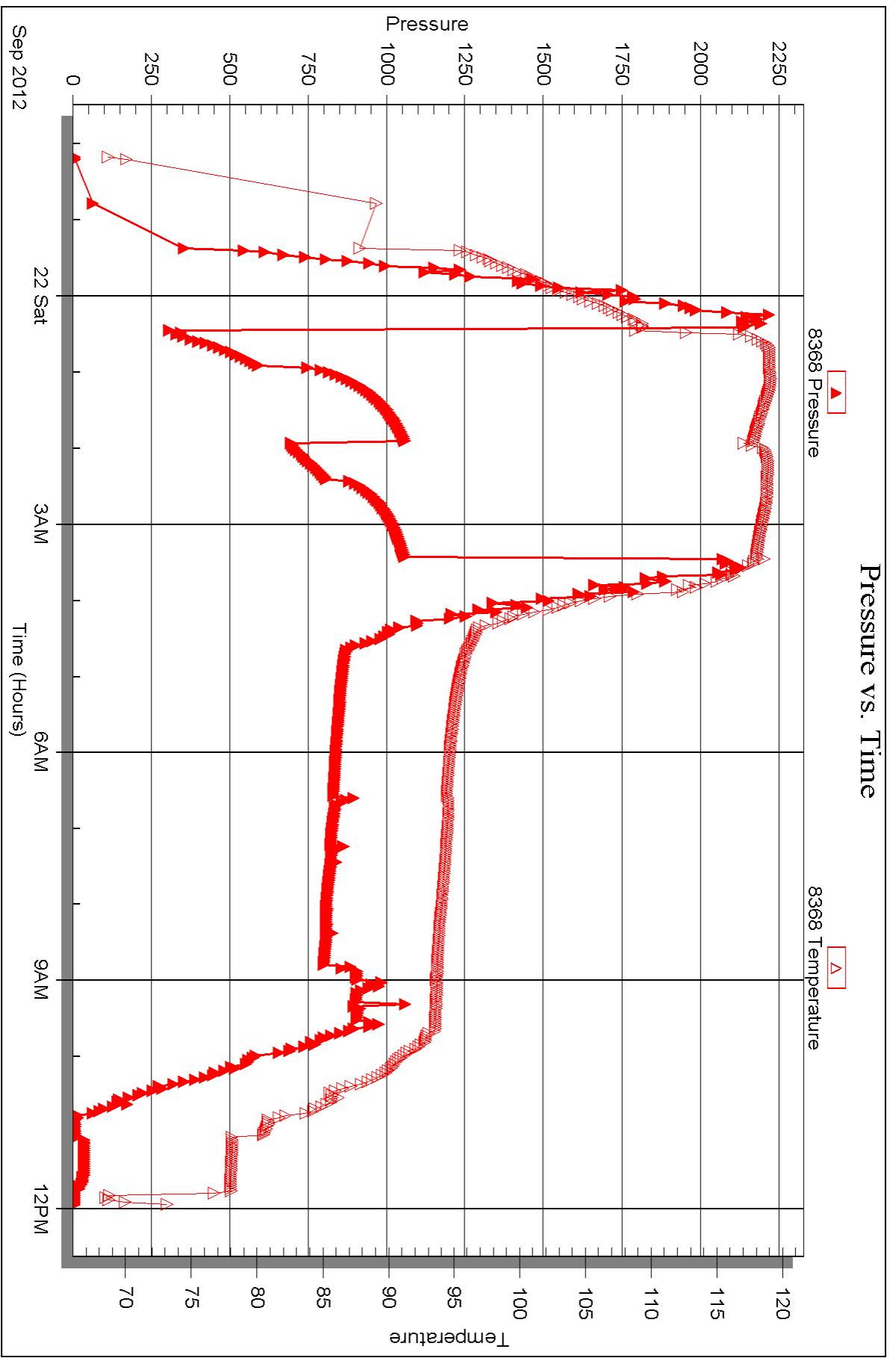
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.22 @ 21:52:00

End Date: 2012.09.23 @ 06:16:00

Job Ticket #: 49410 DST #: 5

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

Printed: 2012.09.28 @ 08:06:47

Murfin Drilling Company Inc
4-21s-34w Finney,KS
Marabelle #1-4
DST # 5
Pawnee
2012.09.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:00

Time Test Ended: 06:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4438.00 ft (KB) To 4483.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 302.38 psig @ 4473.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

2012.09.27

Start Time: 21:52:15

End Time:

06:16:00

Time On Btm:

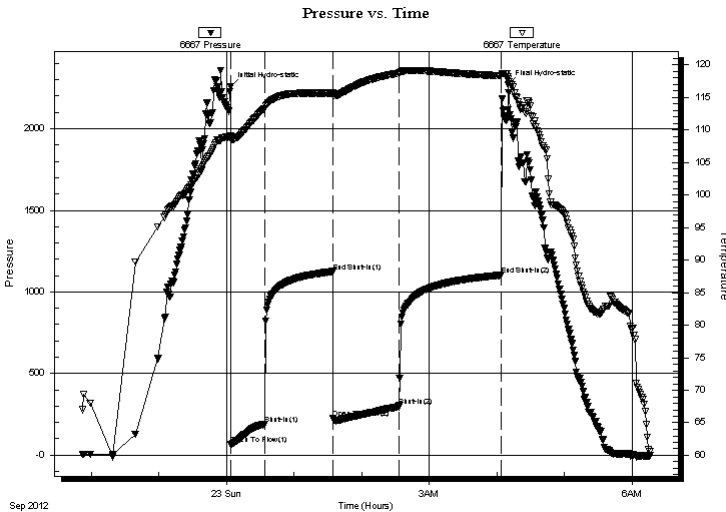
2012.09.23 @ 00:03:45

Time Off Btm:

2012.09.23 @ 04:10:15

TEST COMMENT: IF 30 Fair Blow , Off Bottom in 28 min.
IS 60 No Blow Back
FF 60 Fair Blow , Off Bottom in 45 min.
FS 90 No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.44	109.05	Initial Hydro-static
1	64.35	108.59	Open To Flow (1)
30	188.89	113.32	Shut-In(1)
91	1124.85	115.65	End Shut-In(1)
91	223.43	115.39	Open To Flow (2)
150	302.38	118.74	Shut-In(2)
240	1102.29	118.34	End Shut-In(2)
247	2270.06	117.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water 50%w 50%w	0.30
500.00	Salt Water 10%w 90%w	5.12

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:00

Time Test Ended: 06:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4438.00 ft (KB) To 4483.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press @ Run Depth: psig @ 4473.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

1899.12.30

Start Time: 21:52:15

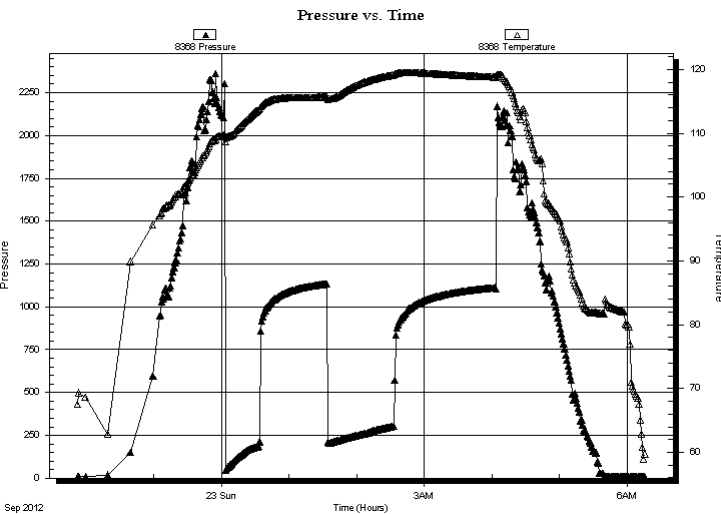
End Time:

06:15:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Fair Blow , Off Bottom in 28 min.
IS 60 No Blow Back
FF 60 Fair Blow , Off Bottom in 45 min.
FS 90 No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water 50%m 50%w	0.30
500.00	Salt Water 10%m 90%w	5.12

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4438.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 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			4412.00	
Shut In Tool	5.00			4417.00	
Hydraulic tool	5.00			4422.00	
Jars	5.00			4427.00	
Safety Joint	2.00			4429.00	
Packer	5.00			4434.00	27.00 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Perforations	1.00			4440.00	
Change Over Sub	1.00			4441.00	
Drill Pipe	31.00			4472.00	
Change Over Sub	1.00			4473.00	
Recorder	0.00	6667	Outside	4473.00	
Recorder	0.00	8368	Inside	4473.00	
Perforations	5.00			4478.00	
Bullnose	5.00			4483.00	45.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

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:

7000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

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
60.00	Muddy Water 50%m 50%w	0.295
500.00	Salt Water 10%m 90%w	5.119

Total Length: 560.00 ft Total Volume: 5.414 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

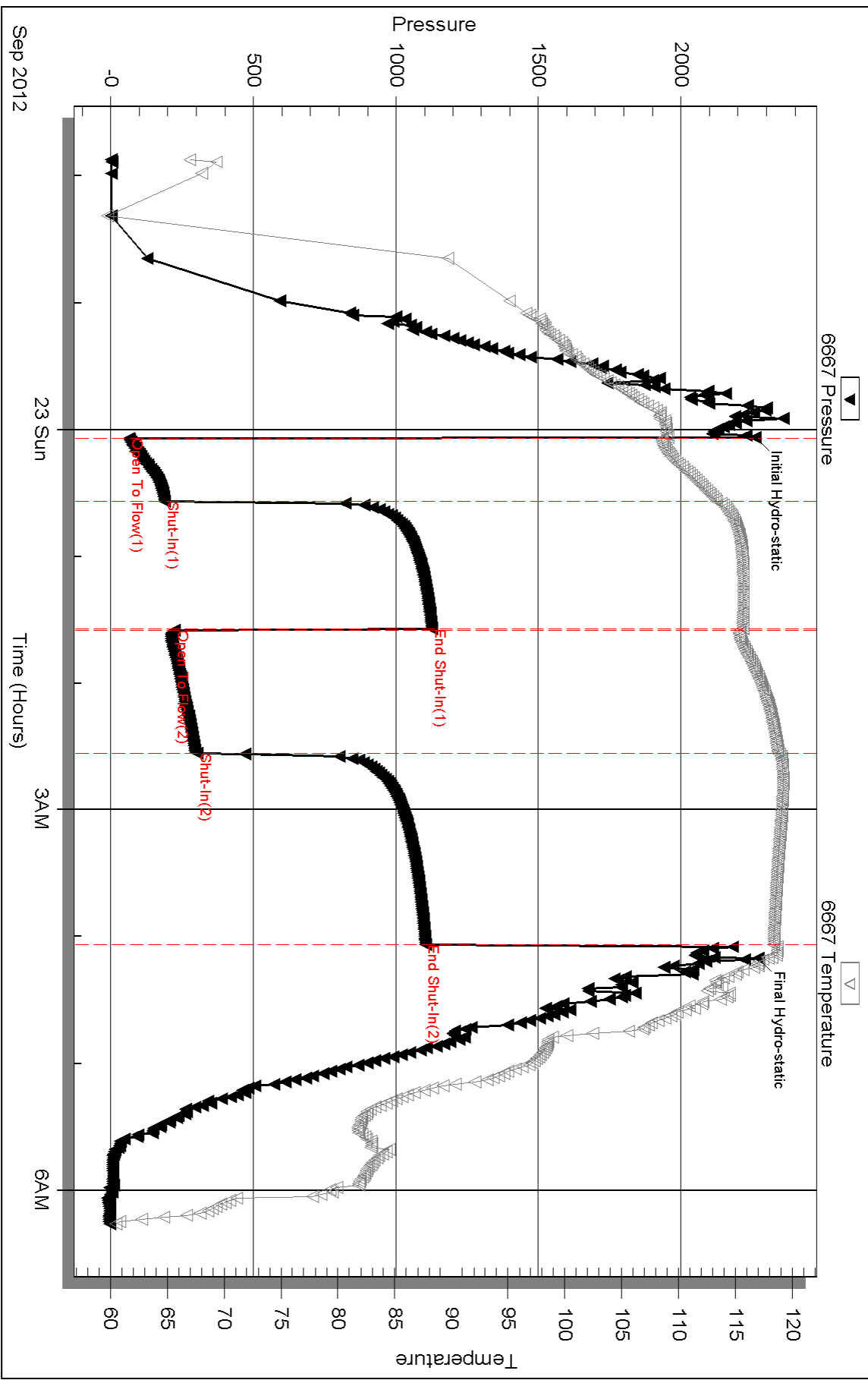
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .1 @ 59deg.= 7000ppm chlorides

Pressure vs. Time



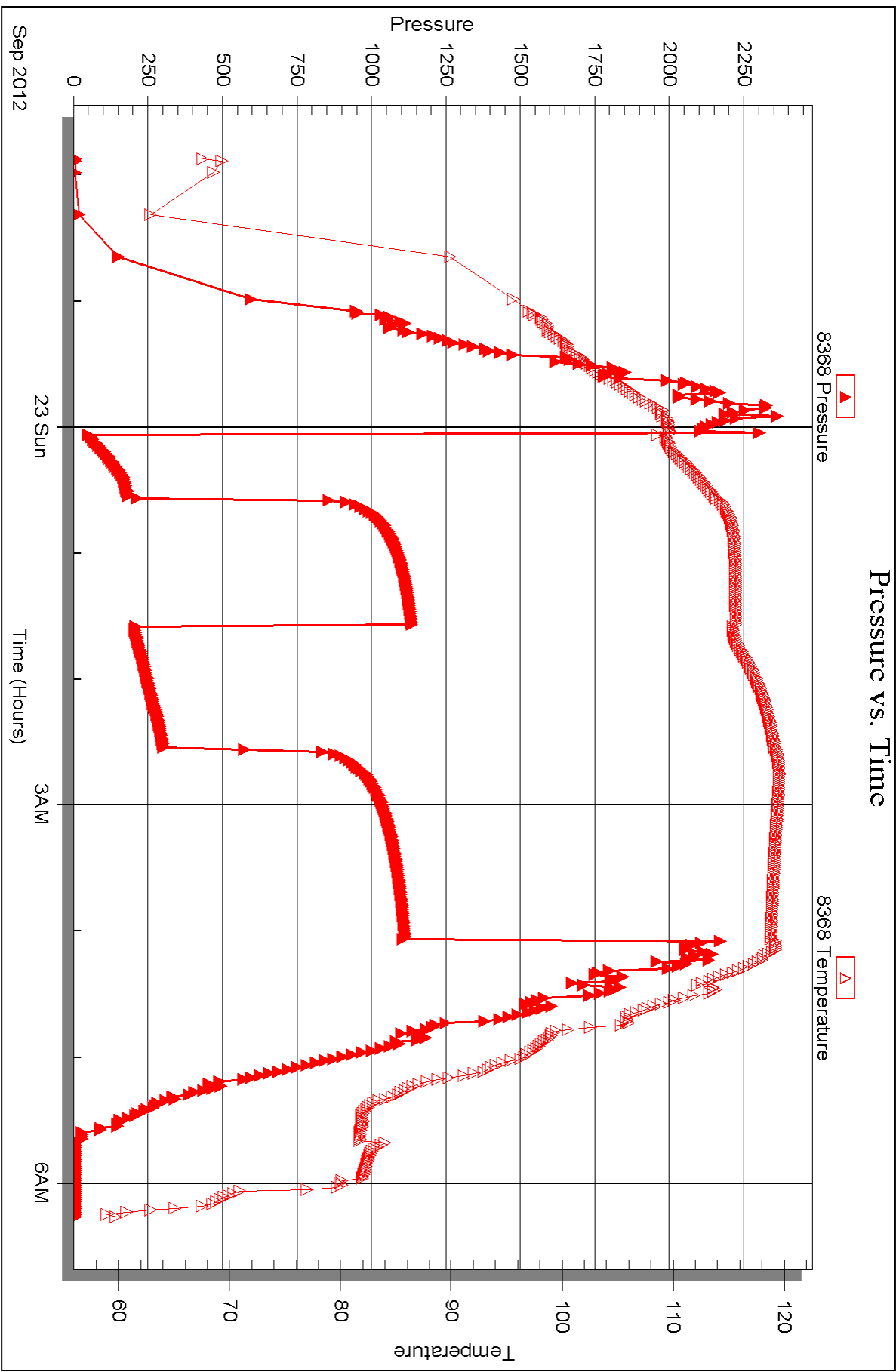
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.23 @ 17:25:56

End Date: 2012.09.24 @ 00:50:26

Job Ticket #: 50157 DST #: 6

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

Printed: 2012.09.28 @ 08:05:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:56

Time Test Ended: 00:50:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4509.00 ft (KB) To 4566.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4566.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press @ Run Depth: 39.13 psig @ 4510.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.23

End Date:

2012.09.24

Last Calib.: 2012.09.24

Start Time: 17:25:56

End Time:

00:36:26

Time On Btm: 2012.09.23 @ 19:28:26

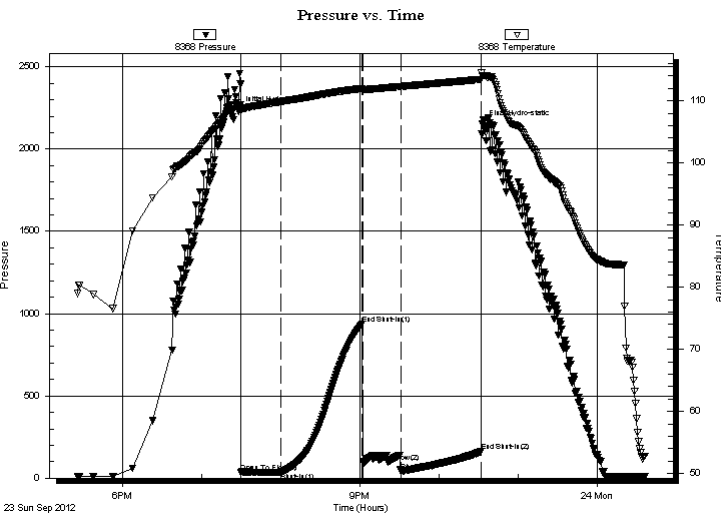
Time Off Btm: 2012.09.23 @ 22:32:56

TEST COMMENT: Weak surface blow

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.74	109.27	Initial Hydro-static
2	36.84	108.49	Open To Flow (1)
32	35.91	109.87	Shut-In(1)
94	938.08	111.97	End Shut-In(1)
94	93.75	111.66	Open To Flow (2)
123	39.13	112.28	Shut-In(2)
184	161.75	113.43	End Shut-In(2)
185	2151.30	114.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:56

Time Test Ended: 00:50:26

Interval: **4509.00 ft (KB) To 4566.00 ft (KB) (TVD)**

Total Depth: 4566.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Reference Elevations: 2994.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: psig @ 4510.00 ft (KB)

Start Date: 2012.09.23

End Date: 2012.09.24

Capacity: 8000.00 psig

Last Calib.: 2012.09.24

Start Time: 17:25:50

End Time: 00:36:20

Time On Btm:

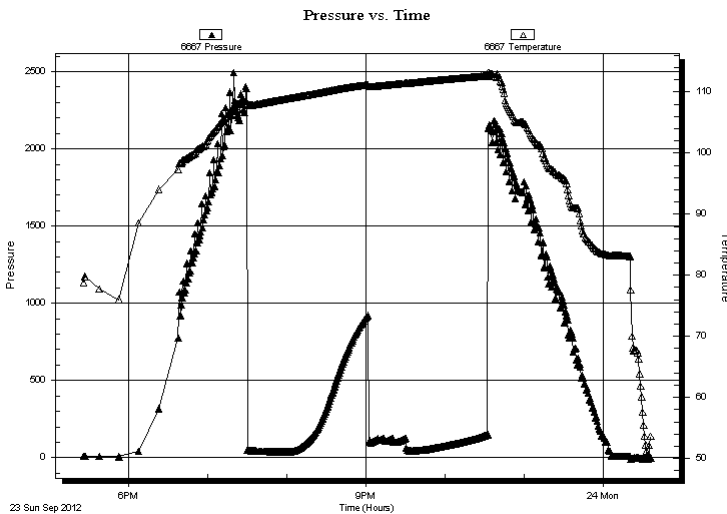
Time Off Btm:

TEST COMMENT: Weak surface blow

No return

No blow

No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

Tool Information

Drill Pipe:	Length: 4236.00 ft	Diameter: 3.80 inches	Volume: 59.42 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: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4509.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 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			4483.00	
Shut In Tool	5.00			4488.00	
Hydraulic tool	5.00			4493.00	
Jars	5.00			4498.00	
Safety Joint	2.00			4500.00	
Packer	5.00			4505.00	27.00 Bottom Of Top Packer
Packer	4.00			4509.00	
Stubb	1.00			4510.00	
Recorder	0.00	6667	Outside	4510.00	
Recorder	0.00	8368	Inside	4510.00	
Perforations	17.00			4527.00	
Change Over Sub	1.00			4528.00	
Drill Pipe	32.00			4560.00	
Change Over Sub	1.00			4561.00	
Bullnose	5.00			4566.00	57.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

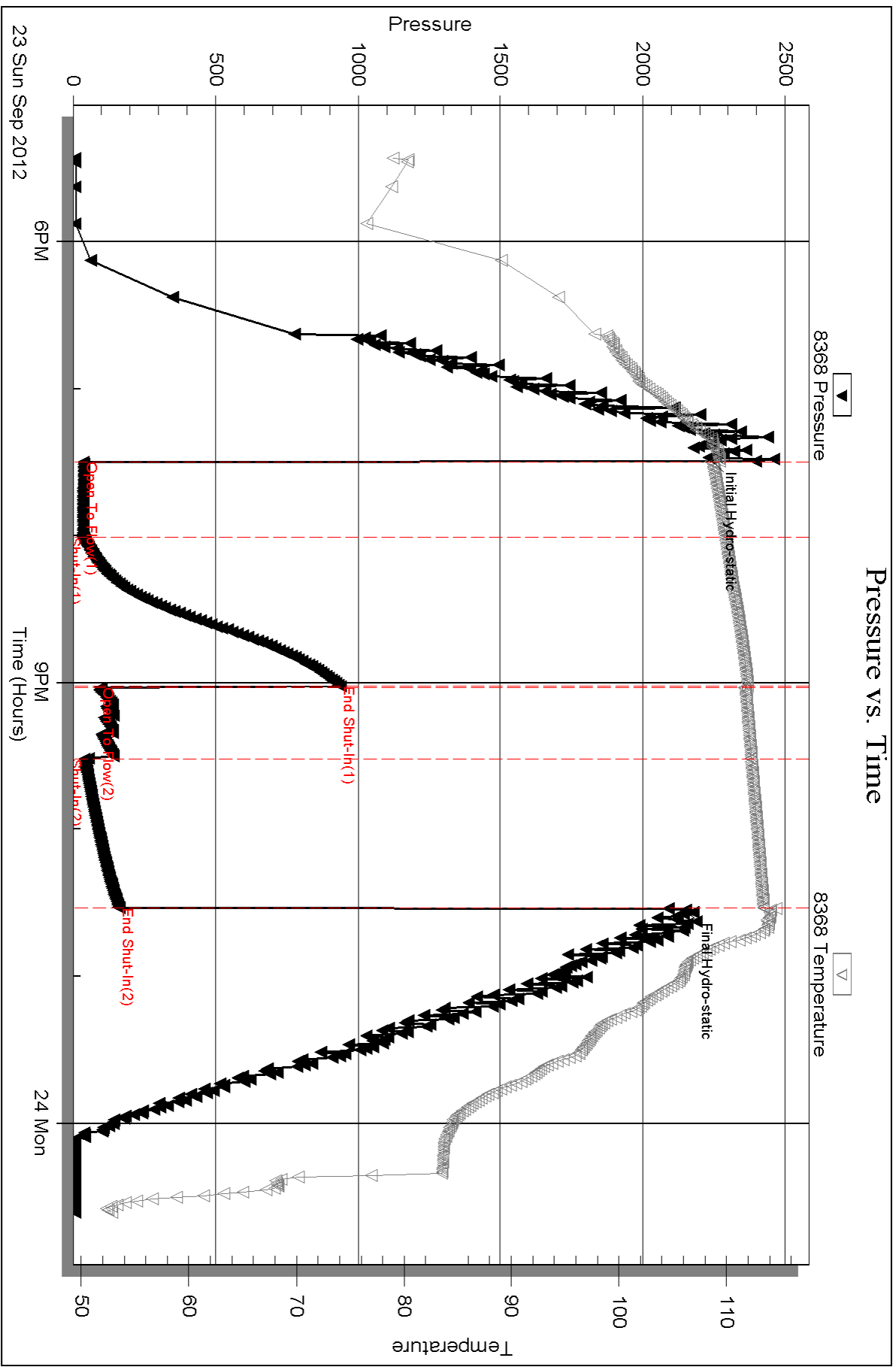
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Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 50157

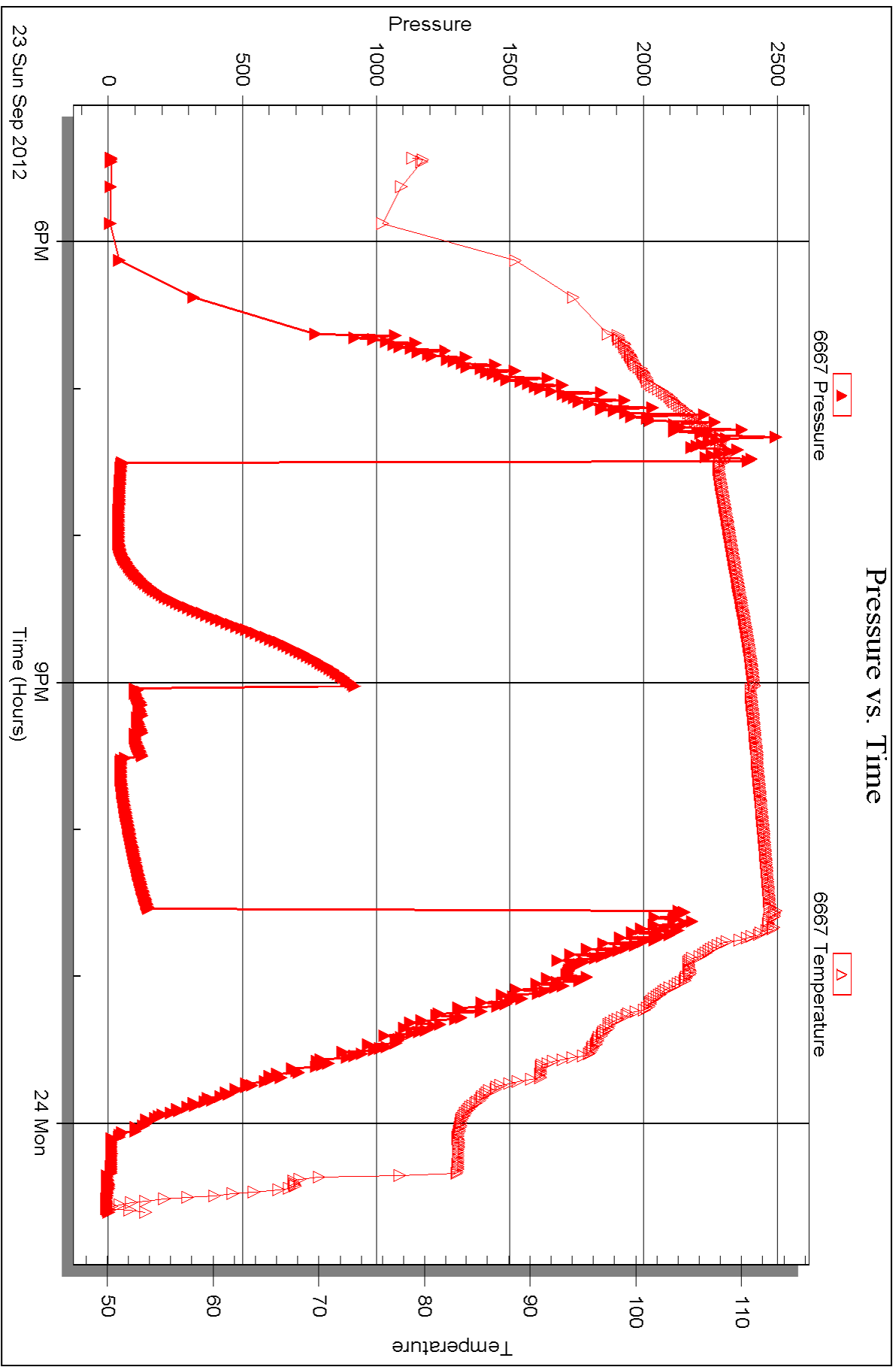
Printed: 2012.09.28 @ 08:05:10

Serial #: 6667

Outside Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.24 @ 19:16:05

End Date: 2012.09.25 @ 02:18:35

Job Ticket #: 50158 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:03:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

GENERAL INFORMATION:

Formation: **Atoka- Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:05

Time Test Ended: 02:18:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4666.00 ft (KB) To 4740.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 60.90 psig @ 4667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 19:16:05

End Time:

02:01:35

Time On Btm:

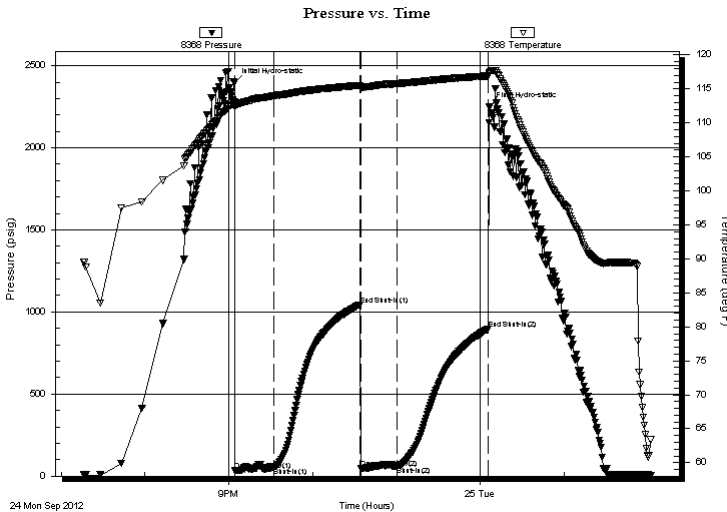
2012.09.24 @ 21:03:50

Time Off Btm:

2012.09.25 @ 00:06:20

TEST COMMENT: Surface blow
No return
Weak surface blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2397.27	113.07	Initial Hydro-static
1	33.72	112.33	Open To Flow (1)
28	50.61	113.99	Shut-In(1)
90	1044.20	115.54	End Shut-In(1)
91	46.15	115.24	Open To Flow (2)
117	60.90	115.76	Shut-In(2)
182	897.35	116.92	End Shut-In(2)
183	2249.99	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud /oil spots on top 100%m	0.15

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

GENERAL INFORMATION:

Formation: **Atoka- Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:05

Time Test Ended: 02:18:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4666.00 ft (KB) To 4740.00 ft (KB) (TVD)

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: psig @ 4667.00 ft (KB)

Start Date: 2012.09.24

End Date:

2012.09.25

Start Time: 19:15:23

End Time:

02:00:53

Capacity: 8000.00 psig

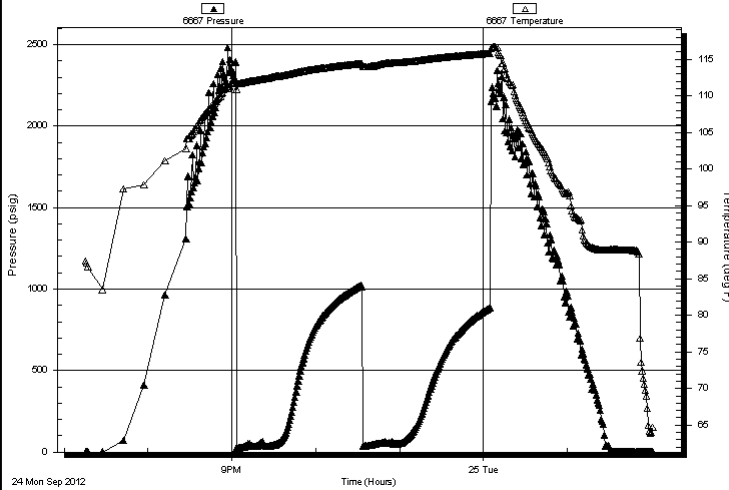
Last Calib.: 2012.09.25

Time On Btm:

Time Off Btm:

TEST COMMENT: Surface blow
No return
Weak surface blow
No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud /oil spots on top 100%m	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 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: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4666.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 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			4640.00	
Shut In Tool	5.00			4645.00	
Hydraulic tool	5.00			4650.00	
Jars	5.00			4655.00	
Safety Joint	2.00			4657.00	
Packer	5.00			4662.00	27.00 Bottom Of Top Packer
Packer	4.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	6667	Outside	4667.00	
Recorder	0.00	8368	Inside	4667.00	
Perforations	34.00			4701.00	
Change Over Sub	1.00			4702.00	
Drill Pipe	32.00			4734.00	
Change Over Sub	1.00			4735.00	
Bullnose	5.00			4740.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc
250 N. Water STE 300
Wichita, KS 67202+1216
ATTN: Jeff Christian

4-21s-34w Finney,KS
Marabelle #1-4
Job Ticket: 50158 **DST#: 7**
Test Start: 2012.09.24 @ 19:16:05

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud /oil spots on top 100%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

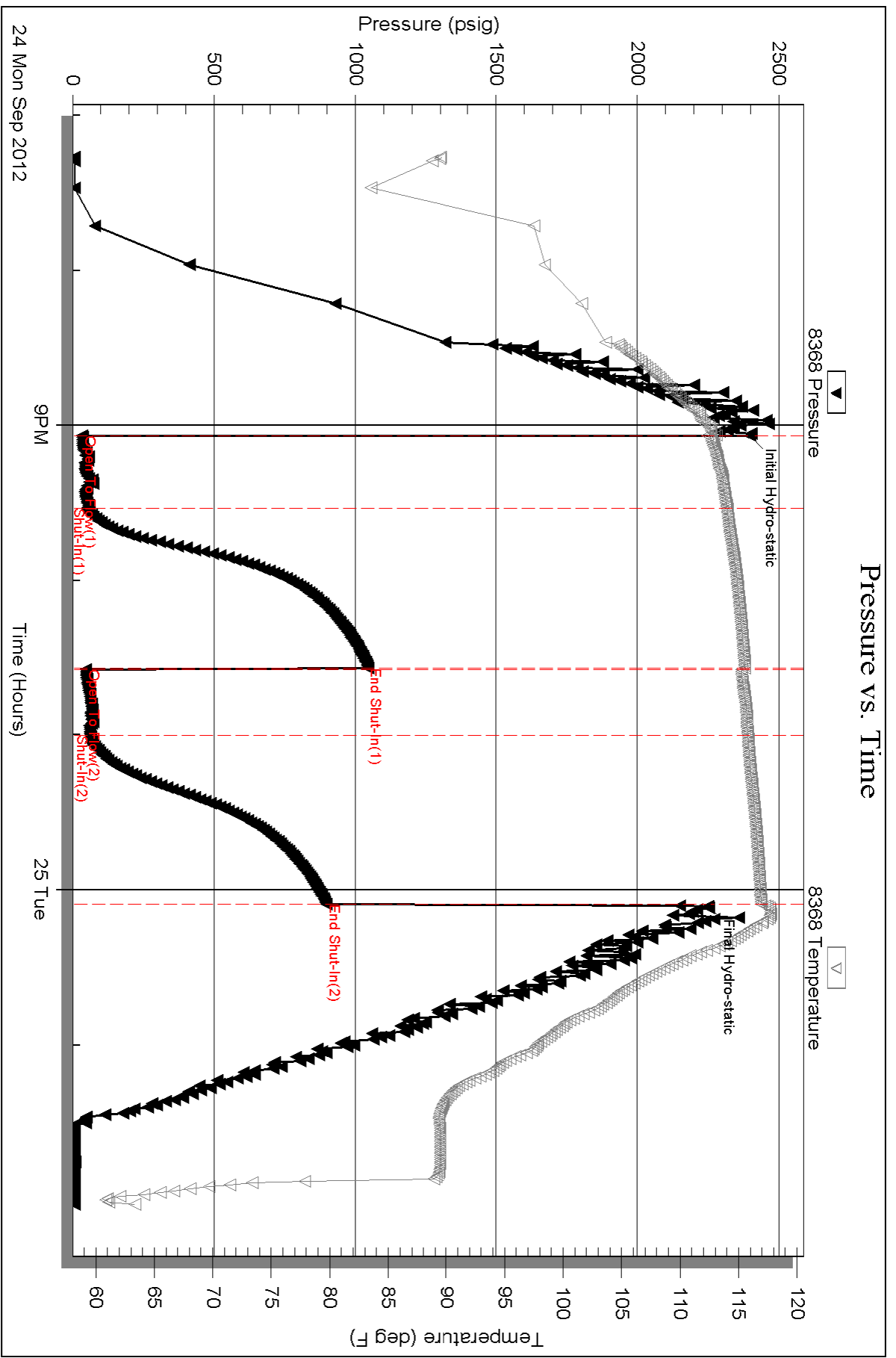
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Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 7

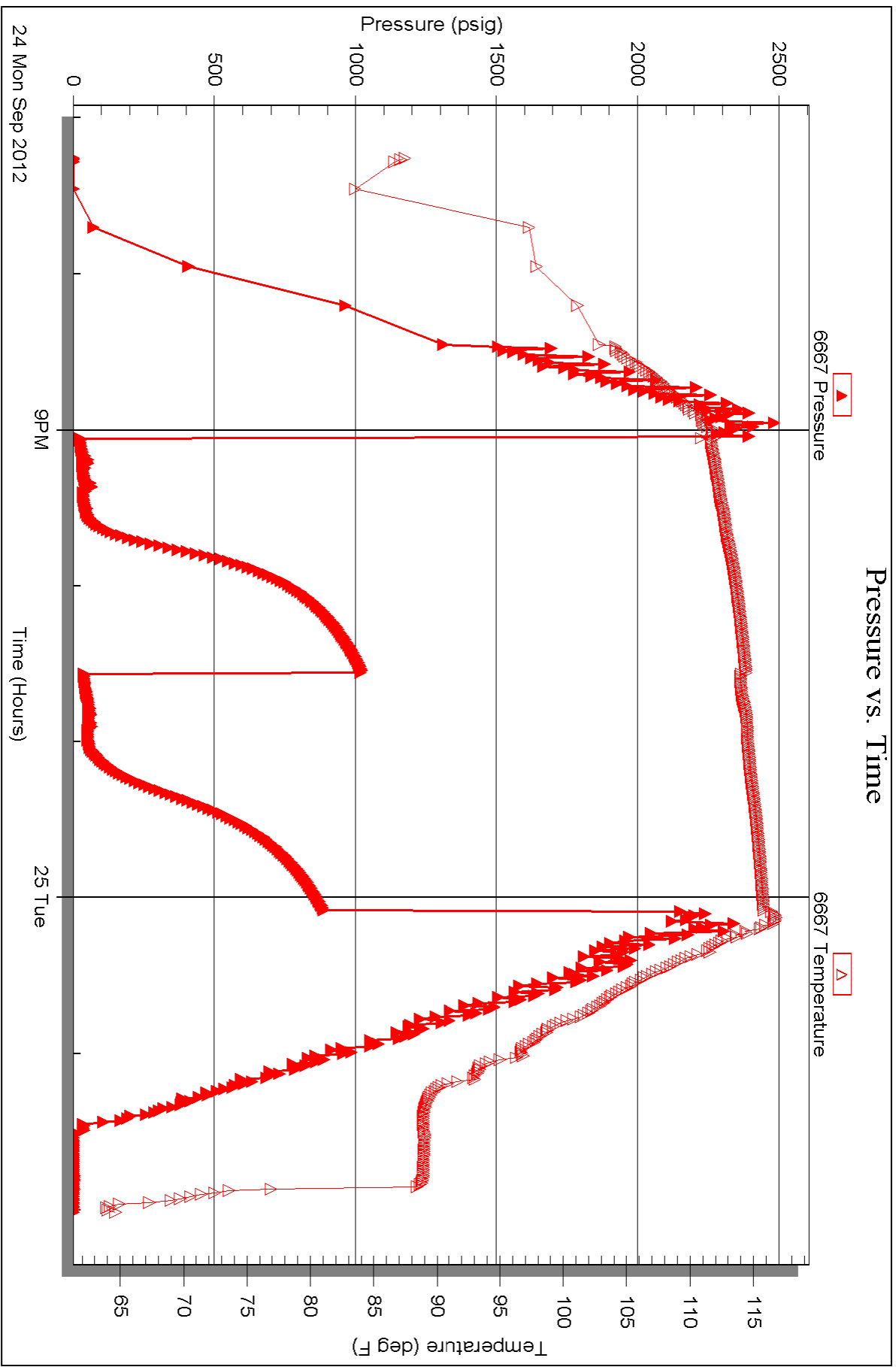


Serial #: 6667

Outside Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49406

4/10

Well Name & No. Marabelle #1-4 Test No. 1 Date 9-19-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202 +1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg # 21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State KS.

Interval Tested 4120' - 4153' Zone Tested LKC I zone
 Anchor Length 33' Drill Pipe Run 3832 Mud Wt. 9.3
 Top Packer Depth 4115 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4120 Wt. Pipe Run 0 WL 7.2
 Total Depth 4153 Chlorides 2,600 ppm System LCM 6
 Blow Description IF - Strong Blow, off Bottom in 22 min.
IS - no Blow Back
FF - Strong Blow, off Bottom in 27 min.
FS - no Blow Back

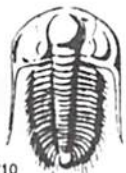
Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>clean oil</u>	<u>100</u>			
<u>124'</u>	<u>Muddy Water with oil Trace</u>	<u>T</u>	<u>60</u>	<u>40</u>	
<u>558'</u>	<u>Salt Water with oil Trace</u>	<u>T</u>	<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 683' BHT 114° Gravity _____ API RW 1.12 @ 87° F Chlorides 4600 ppm

(A) Initial Hydrostatic <u>2125</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:30 Am</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:02</u>
(C) First Final Flow <u>174</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:55 pm</u>
(D) Initial Shut-In <u>1063</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:55 pm</u>
(E) Second Initial Flow <u>188</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>315</u>	<input checked="" type="checkbox"/> Mileage <u>77.50</u> <u>25x2 - Scott City</u>	Comments _____
(G) Final Shut-In <u>1045</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1920</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>40</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1652.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1652.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49407

4/10

Well Name & No. Marabelle #1-4 Test No. 2 Date 9-20-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water St # 300 Wichita, Ks. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg. #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State Ks.

Interval Tested 4187 - 4205 Zone Tested Lansing KC K zone
 Anchor Length 18' Drill Pipe Run 3925 Mud Wt. 9.3
 Top Packer Depth 4182 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4187 Wt. Pipe Run 0 WL 7.2
 Total Depth 4205 Chlorides 2,600 ppm System LCM 6

Blow Description IF - Weak Blow, Increased slowly to 2" in BKT.
IS - NO Blow Back
FF - Weak Blow, Increased slowly to 2 1/2" in BKT.
FS - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>64'</u>	<u>Clean Gassy oil</u>	<u>50</u>	<u>50</u>		
<u>124'</u>	<u>Clean Gassy oil</u>	<u>30</u>	<u>70</u>		
<u>62'</u>	<u>HOCM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250' BHT 112° Gravity Less than 18 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2122</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>3:20 AM</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>3:53 AM</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:50 AM</u>
(D) Initial Shut-In <u>1109</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:50 AM</u>
(E) Second Initial Flow <u>70</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:07 PM</u>
(F) Second Final Flow <u>116</u>	<input checked="" type="checkbox"/> Mileage <u>25x2 Scott City</u> 77.50	Comments
(G) Final Shut-In <u>1111</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2146</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 1652.50

MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49408

Well Name & No. Marabelle #1-4 Test No. 3 Date 9-21-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State KS.

Interval Tested 4365-4380 Zone Tested Marmaton A
 Anchor Length 15' Drill Pipe Run 4078 Mud Wt. 9.4
 Top Packer Depth 4360 Drill Collars Run 268 Vis 74
 Bottom Packer Depth 4365 Wt. Pipe Run 0 WL 9.6
 Total Depth 4380 Chlorides 4,000 ppm System LCM 6

Blow Description IF - Strong Blow, OFF Bottom in 3 min.
IS - Weak Blow, 1/4" in BKT.
FF - Strong Blow, OFF Bottom in 5 min
FS - Weak Blow, 1/4" in BKT.

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Gas In Pipe</u>	<u>100</u>			
<u>10'</u>	<u>clean oil</u>	<u>20</u>	<u>80</u>		
<u>1390'</u>	<u>Soft Water</u>			<u>95</u>	<u>5</u>

Rec Total _____ BHT 117° Gravity 34 API RW 1.5 @ 96 °F Chlorides 2950 ppm

(A) Initial Hydrostatic <u>2176</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:15 Am</u>
(B) First Initial Flow <u>115</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:02 Am</u>
(C) First Final Flow <u>359</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:45 Am</u>
(D) Initial Shut-In <u>1119</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:45 Am</u>
(E) Second Initial Flow <u>416</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:28 pm</u>
(F) Second Final Flow <u>638</u>	<input checked="" type="checkbox"/> Mileage <u>25 X 2 Scott City</u> 77.50	Comments _____
(G) Final Shut-In <u>1117</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2007</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 1652.50

Sub Total 0
 Total 1652.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49409

4/10

Well Name & No. Marabelle #1-4 Test No. 4 Date 9-21-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 U Co. Finney State KS.

Interval Tested 4382 - 4430 Zone Tested Marmaton Bdc
 Anchor Length 48' Drill Pipe Run 4129 Mud Wt. 9.3
 Top Packer Depth 4377 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4382 Wt. Pipe Run 0 WL 7.2
 Total Depth 4430 Chlorides 3100 ppm System LCM 5

Blow Description IF - Strong Blow, OFF Bottom in 2 min.
IS - Strong Blow, OFF Bottom after Bled off.
FF - Strong Blow, OFF Bottom in 2 min. Gas To Surface in 20 min.
FS - Strong Blow, OFF Bottom after Bled off.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2340'</u>	<u>clean Gassy oil</u>	<u>30</u>	<u>70</u>		
<u>60'</u>	<u>Muddy oil</u>	<u>10</u>	<u>80</u>		<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2400' BHT 117° Gravity 29 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 2249 Test 1250 T-On Location 9:15 pm
 (B) First Initial Flow 319 Jars 250 T-Started 10:10 pm
 (C) First Final Flow 580 Safety Joint 75 T-Open 12:25 Am
 (D) Initial Shut-In 1047 Circ Sub opened 50 T-Pulled 3:25 Am
 (E) Second Initial Flow 688 Hourly Standby 6 1/2 HRS over 10 ^{4.75hrs 475} T-Out 11:56 Am
 (F) Second Final Flow 796 Mileage 25 x 2 Scottcity 77.50 Comments Gas to Surface
 (G) Final Shut-In 1047 Sampler 20 min. Into 2nd
 (H) Final Hydrostatic 2089 Straddle opening.
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 0
 Total 2177.50
 MP/DST Disc't
 Sub Total 2177.50

Approved By _____ Our Representative Jeff Christian

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

Test Ticket

NO. 49410

4/10

Well Name & No. Marabelle #1-4 Test No. 5 Date 9-22-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State Ks.

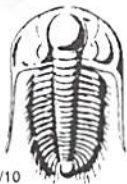
Interval Tested 4438-4483 Zone Tested Pawnee
 Anchor Length 45' Drill Pipe Run 4203 Mud Wt. 9.1
 Top Packer Depth 4433 Drill Collars Run 268 Vis 56
 Bottom Packer Depth 4438 Wt. Pipe Run 0 WL 7.2
 Total Depth 4483 Chlorides 3,400 ppm System LCM 5
 Blow Description IF - Fair Blow, OFF Bottom in 28 min.
IS - NO Blow Back
FF - Fair Blow, OFF Bottom in 45 min.
FS - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>500'</u>	<u>Salt Water</u>		<u>90</u>	<u>10</u>	
<u>60'</u>	<u>Muddy Water</u>		<u>50</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 500' BHT 118" Gravity _____ API RW .1 @ 59 °F Chlorides 7,000 ppm

(A) Initial Hydrostatic <u>2260</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>8:45 pm</u>
(B) First Initial Flow <u>64</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>9:52 pm</u>
(C) First Final Flow <u>188</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:05 Am</u>
(D) Initial Shut-In <u>1124</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:05 Am</u>
(E) Second Initial Flow <u>223</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:16 Am</u>
(F) Second Final Flow <u>302</u>	<input checked="" type="checkbox"/> Mileage <u>25x2 Scottcity</u> 77.50	Comments _____
(G) Final Shut-In <u>1102</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2270</u>	<input type="checkbox"/> Straddle	<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>60</u>	<input type="checkbox"/> Day Standby	Total <u>1652.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1652.50</u>	

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

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50157

4/10

Well Name & No. Marabelle # 1-4 Test No. #6 Date 9/23/12
 Company Murford Drilling Company Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water Ste #300 Wichita, KS 67202-1216
 Co. Rep / Geo. Jeff Christ Rig Murford #21
 Location: Sec. 4 Twp. 21S Rge. 34W Co. Finney State KS

Interval Tested 4509 4566 Zone Tested Cherokee
 Anchor Length 57 Drill Pipe Run 4236' Mud Wt. 9.2
 Top Packer Depth 4504 Drill Collars Run 268' Vis 59
 Bottom Packer Depth 4509 Wt. Pipe Run --- WL 8.8
 Total Depth 4366 Chlorides 4000 ppm System LCM #10

Blow Description Weak surface blow
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</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 3' BHT 114° Gravity --- API RW --- @ --- °F Chlorides --- ppm

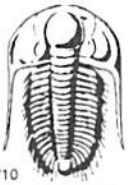
(A) Initial Hydrostatic <u>2235</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>16:45</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>17:25</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>19:30</u>
(D) Initial Shut-In <u>938</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>22:30</u>
(E) Second Initial Flow <u>93</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:50</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments _____
(G) Final Shut-In <u>161</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2151</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>1652.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____

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

Sub Total 1652.50

Approved By Jeff Christ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50158**

4/10

Well Name & No. Marabelle # 1-A Test No. # 7 Date 9/24/12
 Company Mustard Drilling Company Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water St #300 Wichita, Ks 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Mustard #21
 Location: Sec. 4 Twp. 21S Rge. 34W Co. Finnery State Ks

Interval Tested 4660 4740 Zone Tested Atoka - Morrow
 Anchor Length 74 Drill Pipe Run 4390' Mud Wt. 9.3
 Top Packer Depth 4661 Drill Collars Run 268' Vis 60
 Bottom Packer Depth 4660 Wt. Pipe Run --- WL 8.0
 Total Depth 4740 Chlorides 4500 ppm System LCM #60

Blow Description Surface blow
No return
Weak surface blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>Mud / oil spots on top</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 30' BHT 118° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2397</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:45</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>19:15</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>21:00</u>
(D) Initial Shut-In <u>1044</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:00</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:18</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>50RT</u> 77.50	Comments
(G) Final Shut-In <u>897</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2249</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30 Shale Packer
 Initial Shut-In 60 Ruined Packer
 Final Flow 30 Extra Packer
 Final Shut-In 60 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1652.50 Total 1652.50 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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