



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Hatch #1-30X

30-1s-36w Rawlins KS

Start Date: 2012.07.31 @ 03:20:00

End Date: 2012.07.31 @ 11:44:00

Job Ticket #: 46138 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.10 @ 14:01:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Rocky Milford

30-1s-36w Rawlins KS

Hatch #1-30X

Job Ticket: 46138

DST#: 1

Test Start: 2012.07.31 @ 03:20:00

GENERAL INFORMATION:

Formation: **Foraker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:30

Time Test Ended: 11:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 3794.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 3329.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

3324.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 25.69 psig @ 3795.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.31

End Date:

2012.07.31

Last Calib.:

2012.07.31

Start Time: 03:20:05

End Time:

11:43:59

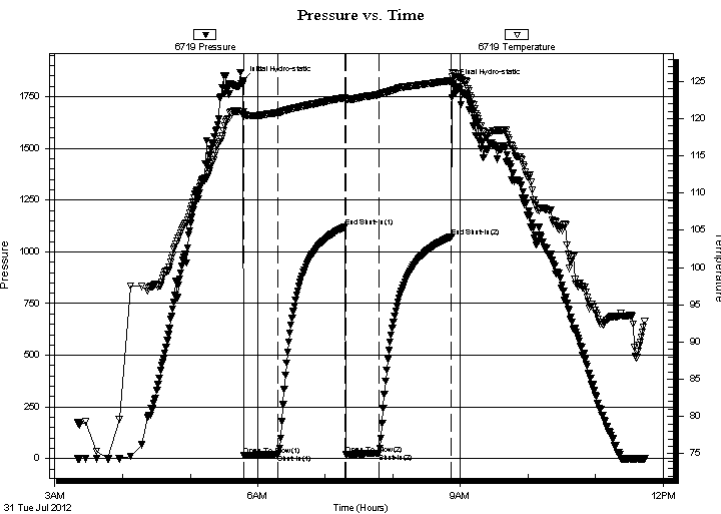
Time On Btm:

2012.07.31 @ 05:47:00

Time Off Btm:

2012.07.31 @ 08:53:00

TEST COMMENT: 30 - IF: 1/4" blow at open, built slowly to 1"
 60 - IS: Bled off, No blow back
 30 - FF: No blow
 60 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.96	120.94	Initial Hydro-static
1	15.01	120.28	Open To Flow (1)
31	19.96	120.82	Shut-In(1)
91	1119.82	122.83	End Shut-In(1)
92	21.57	122.62	Open To Flow (2)
121	25.69	123.21	Shut-In(2)
185	1072.93	125.09	End Shut-In(2)
186	1811.63	126.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /trace of Oil 100% m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46138 **DST#: 1**
Test Start: 2012.07.31 @ 03:20:00

Tool Information

Drill Pipe:	Length: 3271.00 ft	Diameter: 3.80 inches	Volume: 45.88 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: 515.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3794.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Rig tripped slowly due to loss circulation up hole and drill pipe is newly hardbanded so the elevators get stuck on pipe

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3771.00	
Hydraulic tool	5.00			3776.00	
Jars	5.00			3781.00	
Safety Joint	3.00			3784.00	
Packer	5.00			3789.00	28.00 Bottom Of Top Packer
Packer	5.00			3794.00	
Stubb	1.00			3795.00	
Recorder	0.00	6719	Inside	3795.00	
Recorder	0.00	8320	Outside	3795.00	
Perforations	15.00			3810.00	
Blank Spacing	33.00			3843.00	
Perforations	4.00			3847.00	
Bullnose	3.00			3850.00	56.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

30-1s-36w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Hatch #1-30X

Job Ticket: 46138

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.07.31 @ 03:20:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /trace of Oil 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM = 8#

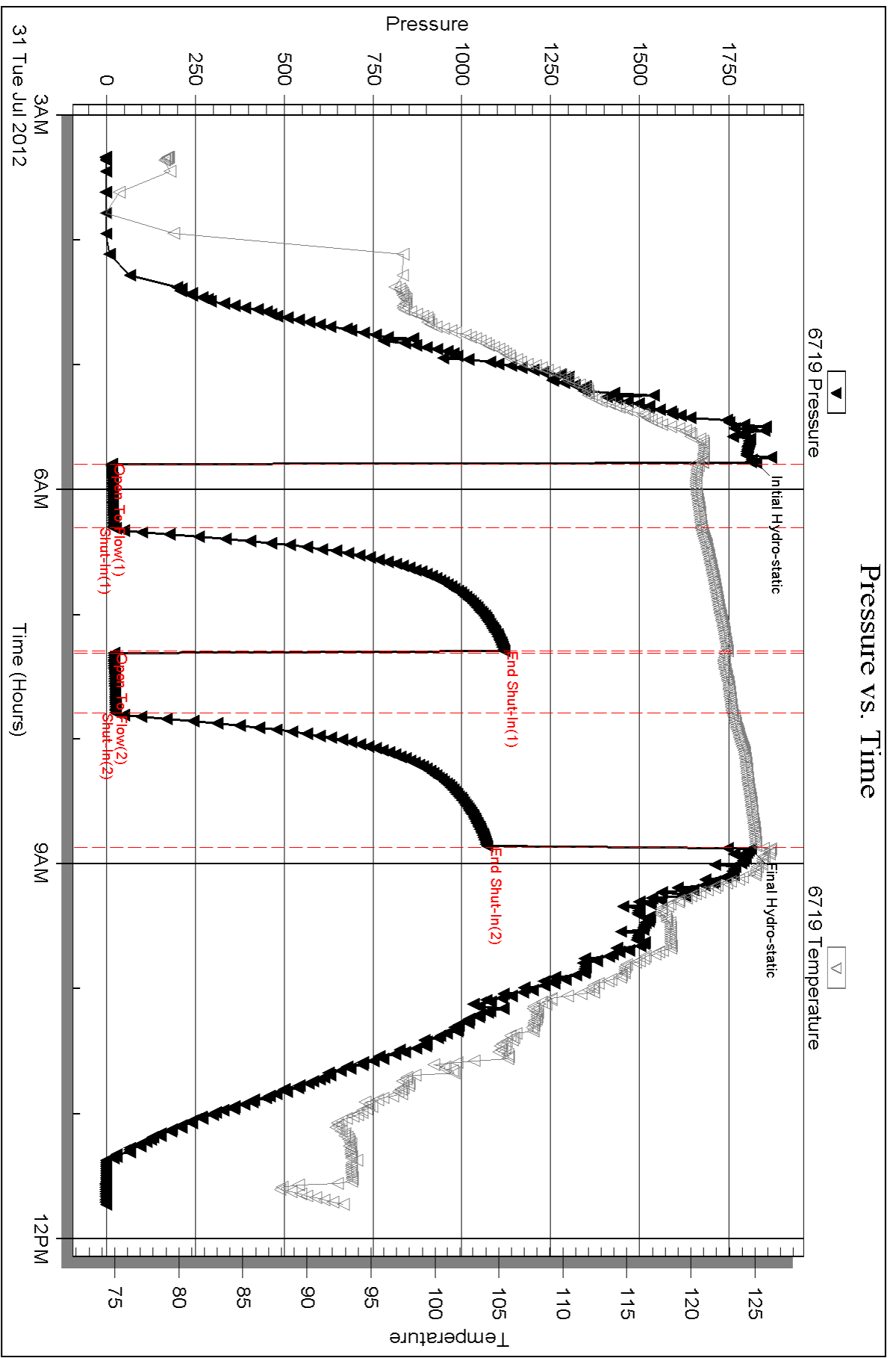
Serial #: 6719

Inside

Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 1

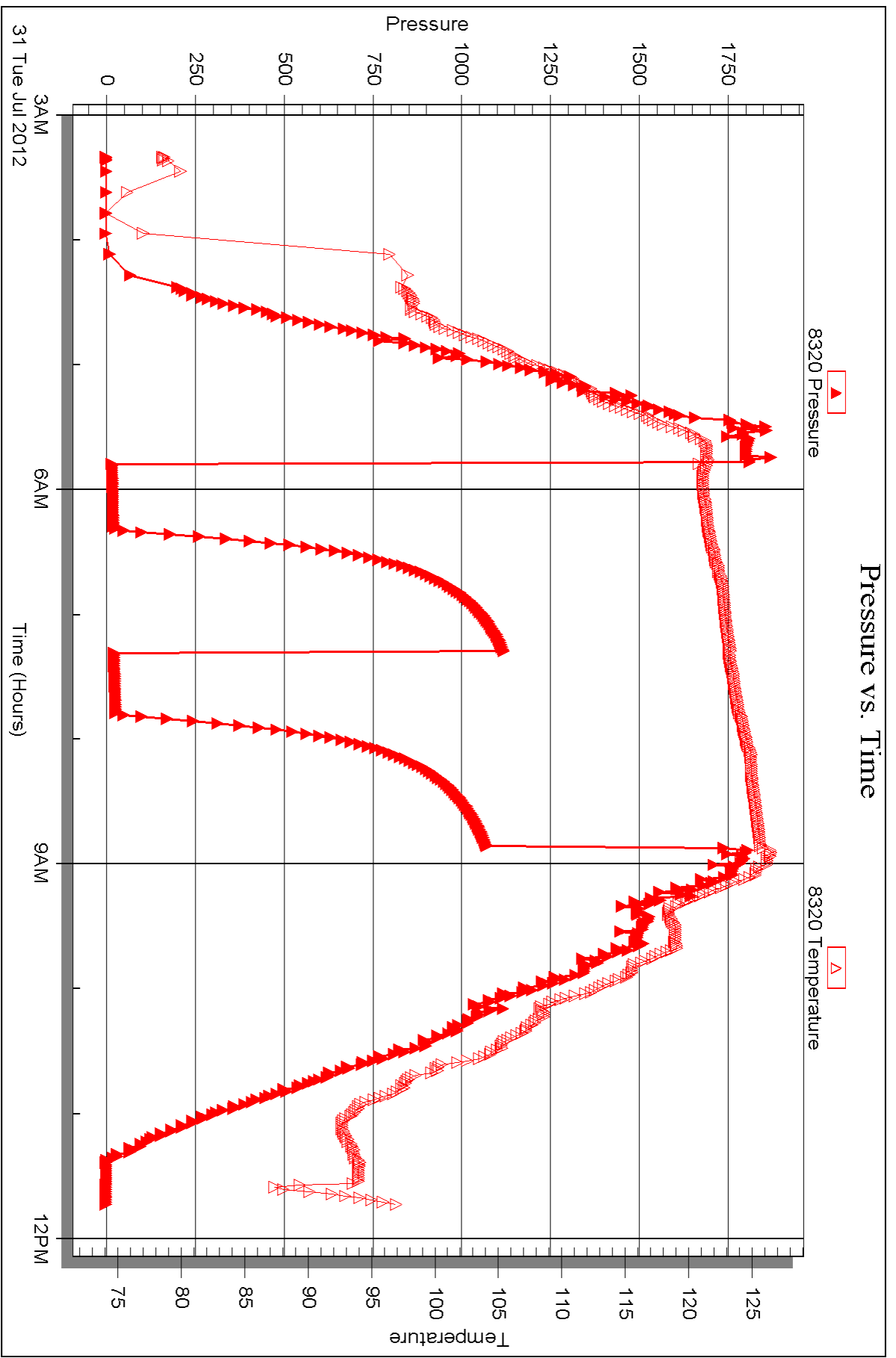


Serial #: 8320

Outside Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Hatch #1-30X

30-1s-36w Rawlins KS

Start Date: 2012.08.01 @ 03:42:00

End Date: 2012.08.01 @ 11:37:00

Job Ticket #: 46139 DST #: 2

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

Printed: 2012.08.10 @ 14:00:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Rocky Milford

30-1s-36w Rawlins KS

Hatch #1-30X

Job Ticket: 46139

DST#: 2

Test Start: 2012.08.01 @ 03:42:00

GENERAL INFORMATION:

Formation: **Stotler**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:52:30
 Time Test Ended: 11:37:00
 Interval: **3883.00 ft (KB) To 4044.00 ft (KB) (TVD)**
 Total Depth: 4044.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3329.00 ft (KB)
 3324.00 ft (CF)
 KB to GR/CF: 5.00 ft

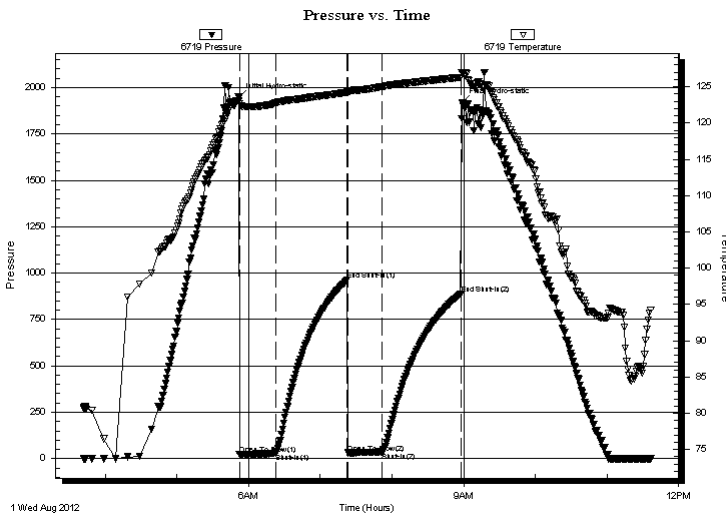
Serial #: 6719

Inside

Press @ Run Depth: 36.47 psig @ 3884.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.01 End Date: 2012.08.01 Last Calib.: 2012.08.01
 Start Time: 03:42:05 End Time: 11:36:59 Time On Btm: 2012.08.01 @ 05:52:00
 Time Off Btm: 2012.08.01 @ 08:59:00

TEST COMMENT: 30 - IF: Blow built to 1" in 10 min., died back slightly by close
 60 - IS: Bled off, No blow back
 30 - FF: No blow
 60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.86	123.04	Initial Hydro-static
1	22.25	122.65	Open To Flow (1)
31	28.05	122.72	Shut-In(1)
91	962.08	124.23	End Shut-In(1)
91	31.54	124.16	Open To Flow (2)
120	36.47	125.01	Shut-In(2)
186	889.03	126.29	End Shut-In(2)
187	1920.24	126.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46139 **DST#: 2**
Test Start: 2012.08.01 @ 03:42:00

Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.80 inches	Volume: 47.19 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: 515.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 49.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3883.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	161.00 ft			
Tool Length:	189.00 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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Shut In Tool	5.00			3860.00	
Hydraulic tool	5.00			3865.00	
Jars	5.00			3870.00	
Safety Joint	3.00			3873.00	
Packer	5.00			3878.00	28.00 Bottom Of Top Packer
Packer	5.00			3883.00	
Packer - Shale	0.00			3883.00	
Stubb	1.00			3884.00	
Recorder	0.00	6719	Inside	3884.00	
Recorder	0.00	8320	Outside	3884.00	
Perforations	20.00			3904.00	
Blank Spacing	126.00			4030.00	
Perforations	11.00			4041.00	
Bullnose	3.00			4044.00	161.00 Bottom Packers & Anchor

Total Tool Length: 189.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

30-1s-36w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Hatch #1-30X

Job Ticket: 46139

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.08.01 @ 03:42:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM = 8#

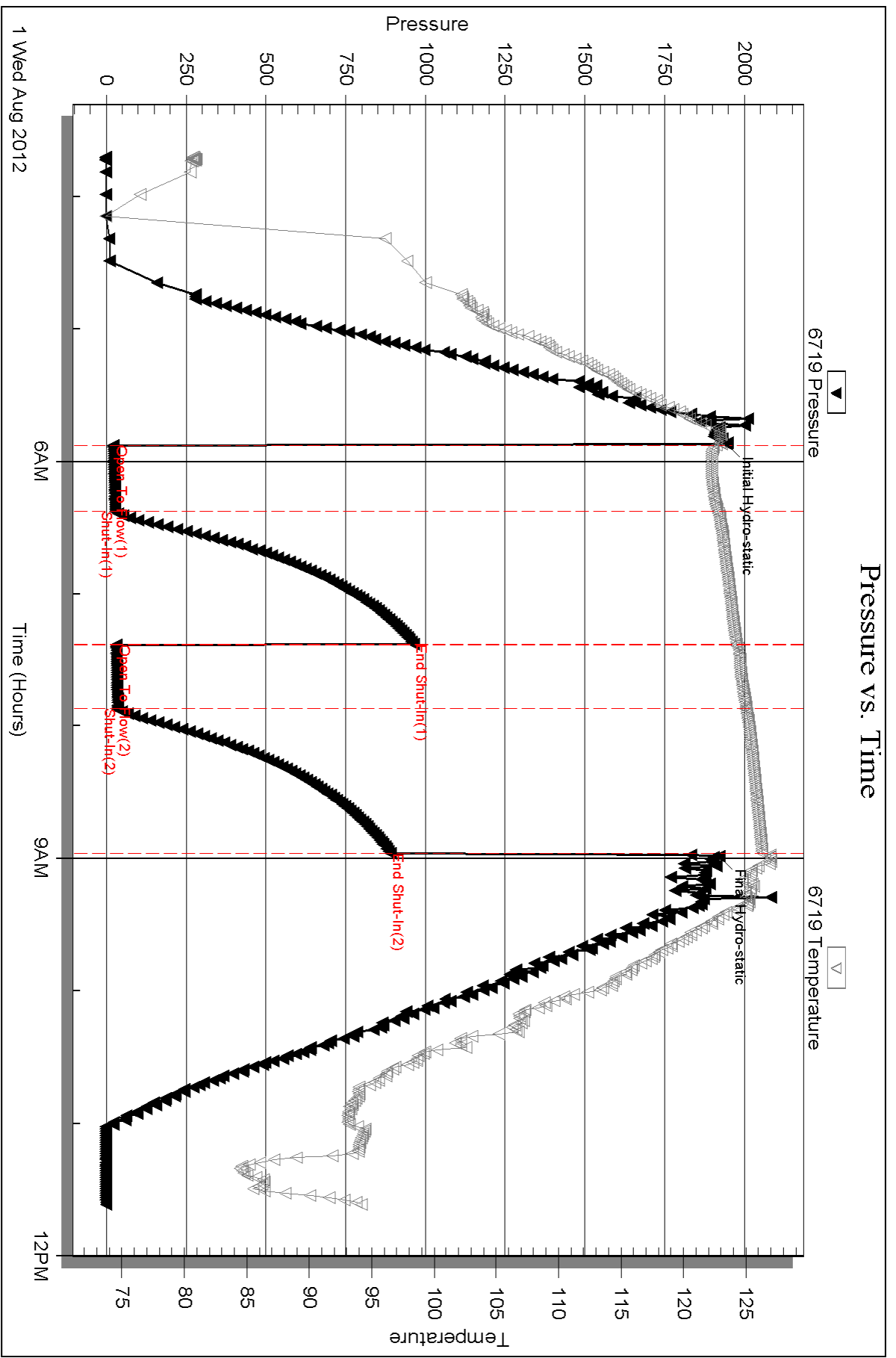
Serial #: 6719

Inside

Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46139

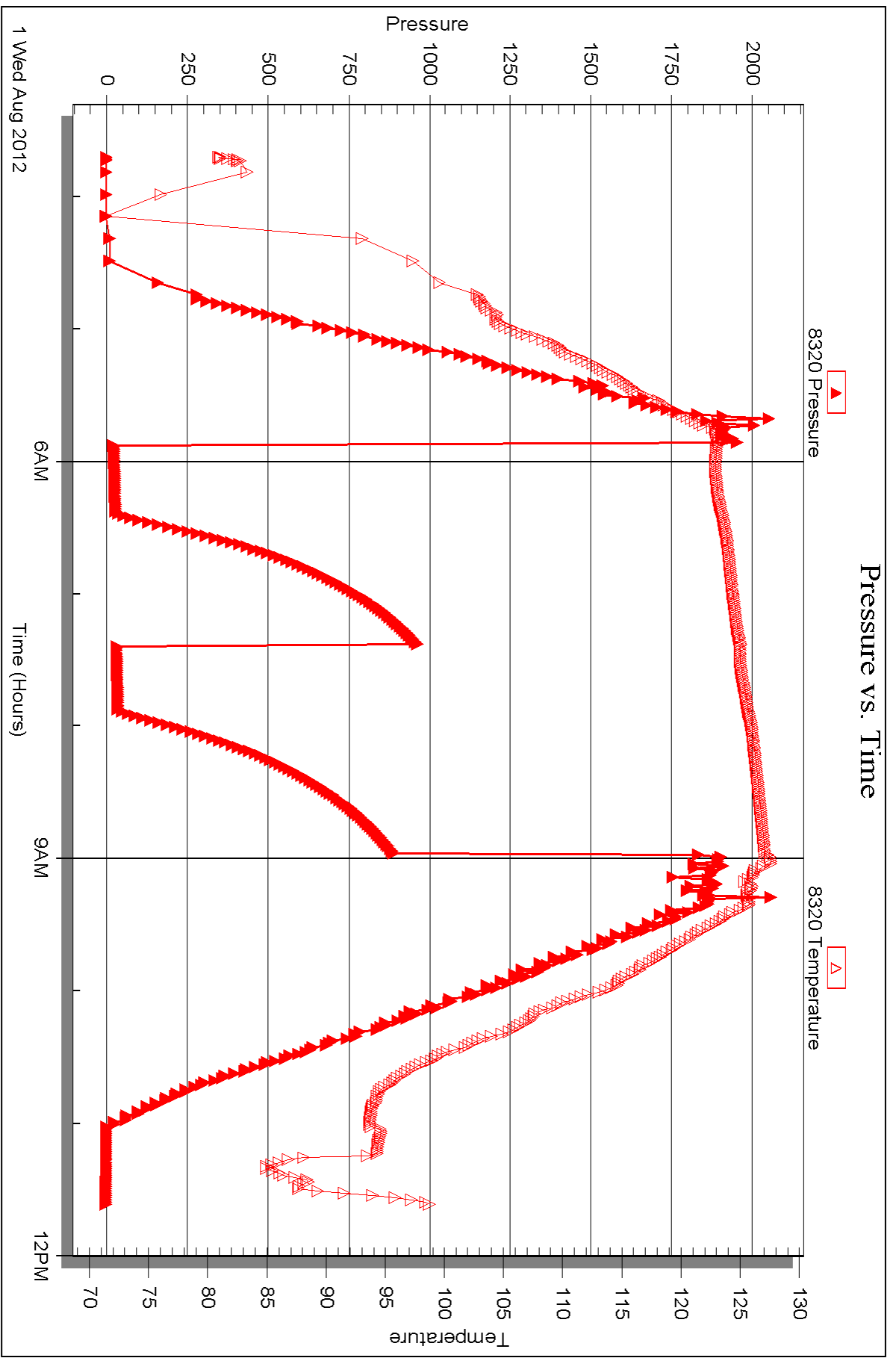
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Serial #: 8320

Outside Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46139

Printed: 2012.08.10 @ 14:00:19



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Hatch #1-30X

30-1s-36w Rawlins KS

Start Date: 2012.08.02 @ 10:00:00

End Date: 2012.08.02 @ 18:29:30

Job Ticket #: 46140 DST #: 3

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

Printed: 2012.08.10 @ 13:59:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Rocky Milford

30-1s-36w Rawlins KS

Hatch #1-30X

Job Ticket: 46140

DST#: 3

Test Start: 2012.08.02 @ 10:00:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:30

Time Test Ended: 18:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4124.00 ft (KB) To 4188.00 ft (KB) (TVD)

Reference Elevations: 3329.00 ft (KB)

Total Depth: 4188.00 ft (KB) (TVD)

3324.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 36.94 psig @ 4125.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.02

End Date:

2012.08.02

Last Calib.:

2012.08.02

Start Time: 10:00:05

End Time:

18:29:29

Time On Btm:

2012.08.02 @ 11:58:00

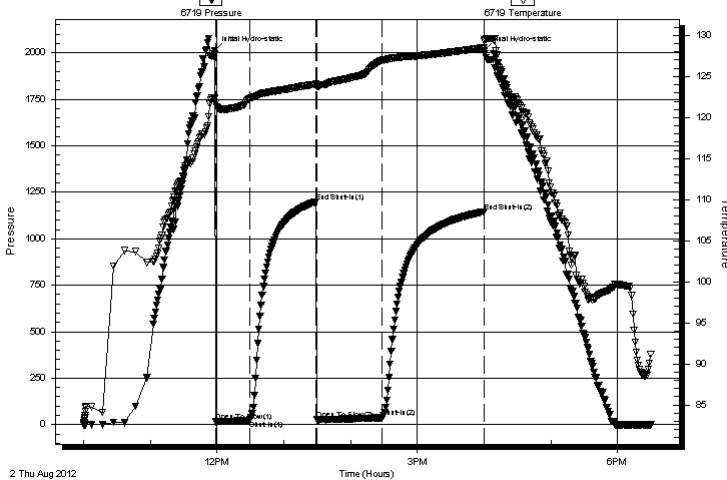
Time Off Btm:

2012.08.02 @ 16:00:00

TEST COMMENT:

- 30 - IF: Blow built to 3/4"
- 60 - IS: Bled off, No blow back
- 60 - FF: Blow started at 14 min., built to 3/4"
- 90 - FS: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.67	122.31	Initial Hydro-static
1	15.97	121.75	Open To Flow (1)
31	22.17	122.26	Shut-In(1)
91	1198.10	124.08	End Shut-In(1)
92	26.07	123.78	Open To Flow (2)
150	36.94	126.95	Shut-In(2)
242	1144.54	128.53	End Shut-In(2)
242	2010.15	129.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCM 75% m, 23% o, 2% g	0.22

* 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
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46140 **DST#: 3**
Test Start: 2012.08.02 @ 10:00:00

Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 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: 515.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4124.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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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Shut In Tool	5.00			4101.00	
Hydraulic tool	5.00			4106.00	
Jars	5.00			4111.00	
Safety Joint	3.00			4114.00	
Packer	5.00			4119.00	28.00 Bottom Of Top Packer
Packer	5.00			4124.00	
Stubb	1.00			4125.00	
Recorder	0.00	6719	Inside	4125.00	
Recorder	0.00	8320	Outside	4125.00	
Perforations	22.00			4147.00	
Blank Spacing	33.00			4180.00	
Perforations	5.00			4185.00	
Bullnose	3.00			4188.00	64.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

30-1s-36w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Hatch #1-30X

Job Ticket: 46140

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.08.02 @ 10:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	OCM 75% _m , 23% _o , 2% _g	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM = 14# at flow line

Rig spotted 50 bbl of fresh chemical mud on bottom before the DST

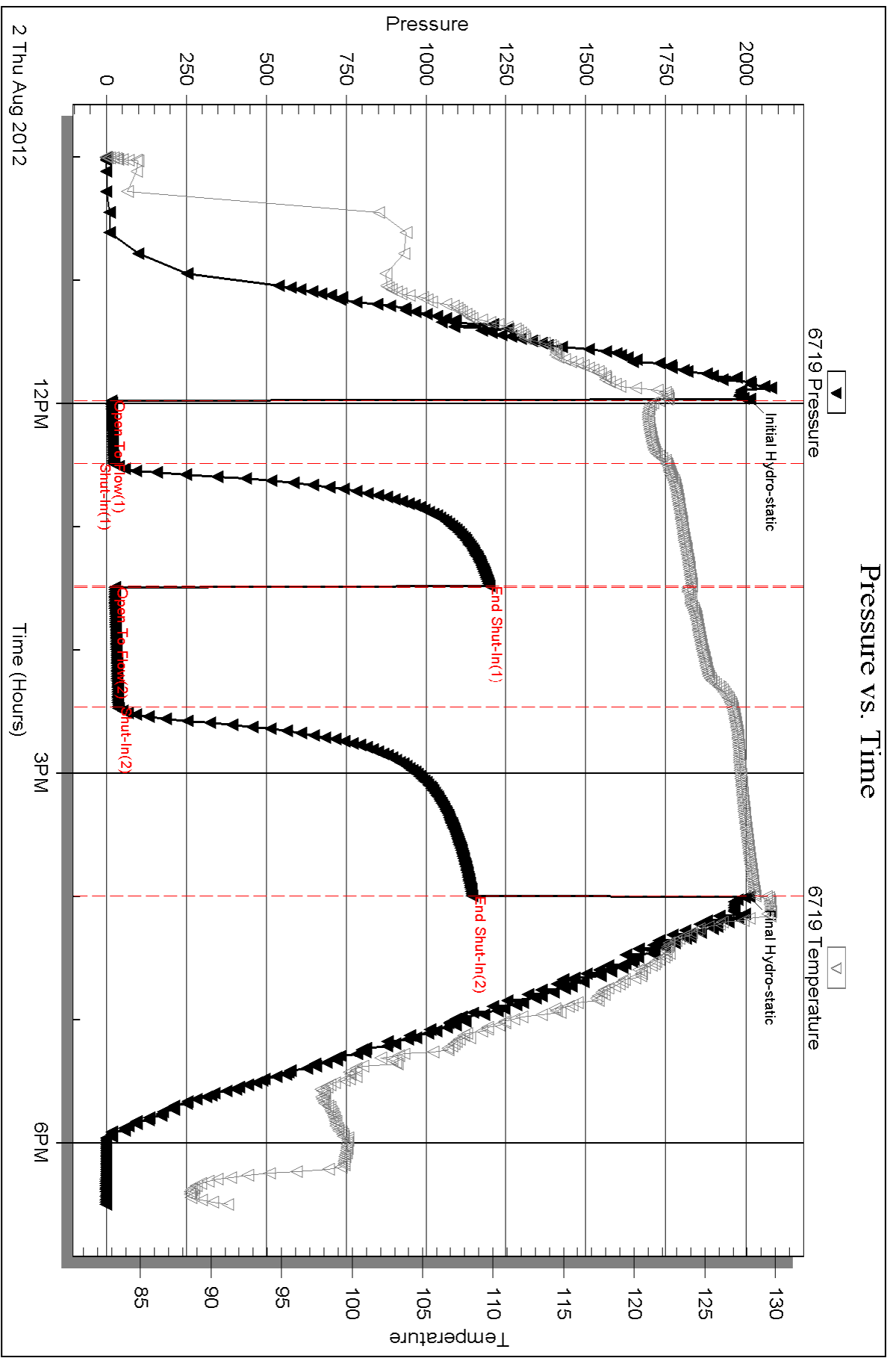
Serial #: 6719

Inside

Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46140

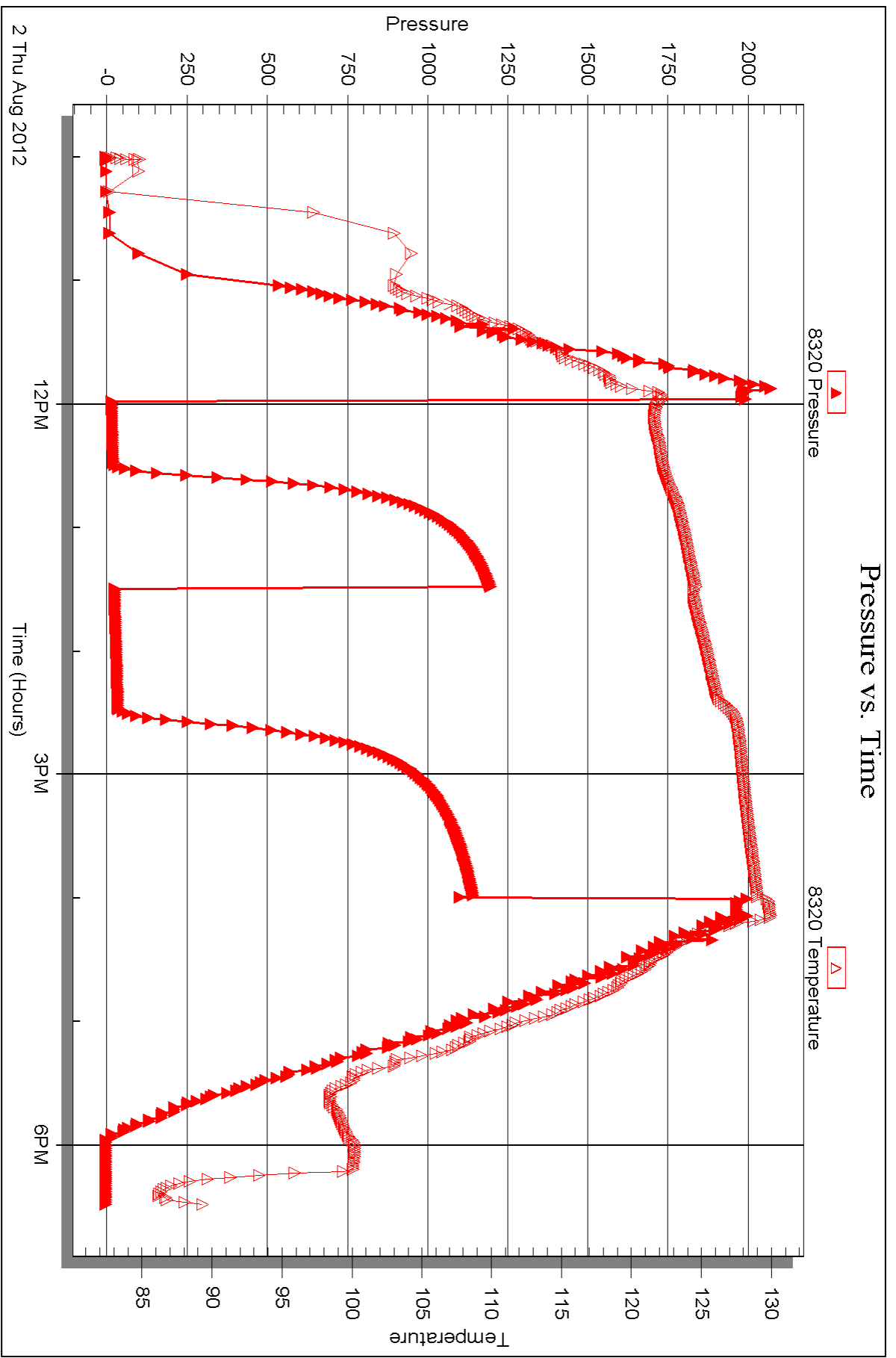
Printed: 2012.08.10 @ 13:59:13

Serial #: 8320

Outside Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46140

Printed: 2012.08.10 @ 13:59:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Hatch #1-30X

30-1s-36w Rawlins KS

Start Date: 2012.08.04 @ 00:01:00

End Date: 2012.08.04 @ 09:39:30

Job Ticket #: 46141 DST #: 4

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

Printed: 2012.08.10 @ 13:58:21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS

Hatch #1-30X

Job Ticket: 46141

DST#: 4

Test Start: 2012.08.04 @ 00:01:00

GENERAL INFORMATION:

Formation: **Douglas Sand - Lans.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:43:00

Time Test Ended: 09:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4207.00 ft (KB) To 4400.00 ft (KB) (TVD)

Reference Elevations: 3329.00 ft (KB)

Total Depth: 4400.00 ft (KB) (TVD)

3324.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 74.13 psig @ 4208.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.04

End Date:

2012.08.04

Last Calib.: 2012.08.04

Start Time: 00:01:05

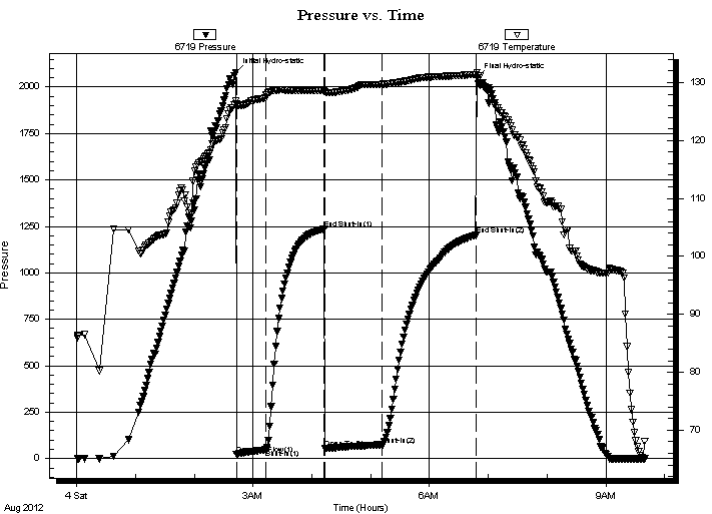
End Time:

09:39:30

Time On Btm: 2012.08.04 @ 02:42:30

Time Off Btm: 2012.08.04 @ 06:48:30

TEST COMMENT: 30 - IF: 1" Blow at open, built to 2 1/2"
60 - IS: Bled off, No blow back
60 - FF: Blow started at 26 min., built to 1/4"
90 - FS: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2079.14	126.78	Initial Hydro-static
1	23.29	126.28	Open To Flow (1)
31	47.87	127.81	Shut-In(1)
90	1235.77	128.70	End Shut-In(1)
91	53.92	128.44	Open To Flow (2)
150	74.13	129.71	Shut-In(2)
245	1202.61	131.39	End Shut-In(2)
246	2049.21	131.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 85% m, 10% o, 5% g	0.30
64.00	Mud w/oil spots 97% m, 3% o	0.31

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
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46141 **DST#: 4**
Test Start: 2012.08.04 @ 00:01:00

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 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: 515.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4207.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	193.00 ft			
Tool Length:	221.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4184.00	
Hydraulic tool	5.00			4189.00	
Jars	5.00			4194.00	
Safety Joint	3.00			4197.00	
Packer	5.00			4202.00	28.00 Bottom Of Top Packer
Packer	5.00			4207.00	
Stubb	1.00			4208.00	
Recorder	0.00	6719	Inside	4208.00	
Recorder	0.00	8320	Outside	4208.00	
Perforations	22.00			4230.00	
Blank Spacing	158.00			4388.00	
Perforations	9.00			4397.00	
Bullnose	3.00			4400.00	193.00 Bottom Packers & Anchor

Total Tool Length: 221.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

30-1s-36w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Hatch #1-30X

Job Ticket: 46141

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.08.04 @ 00:01:00

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: 77.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 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
60.00	OCM 85% <i>m</i> , 10% <i>o</i> , 5% <i>g</i>	0.295
64.00	Mud w /oil spots 97% <i>m</i> , 3% <i>o</i>	0.315

Total Length: 124.00 ft Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rig spotted 50 bbl of clean chemical mud on bottom for the DST

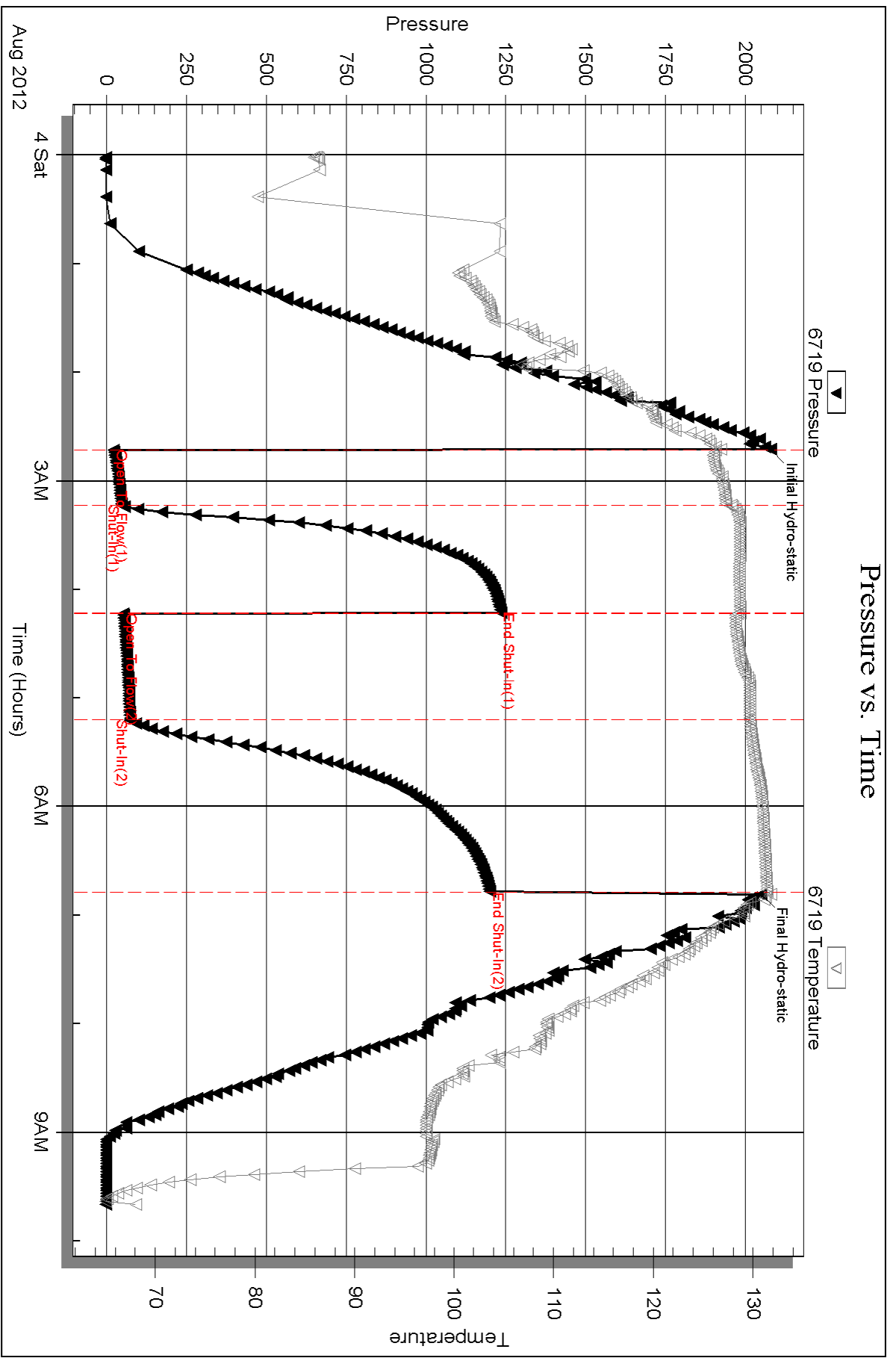
Serial #: 6719

Inside

Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 4

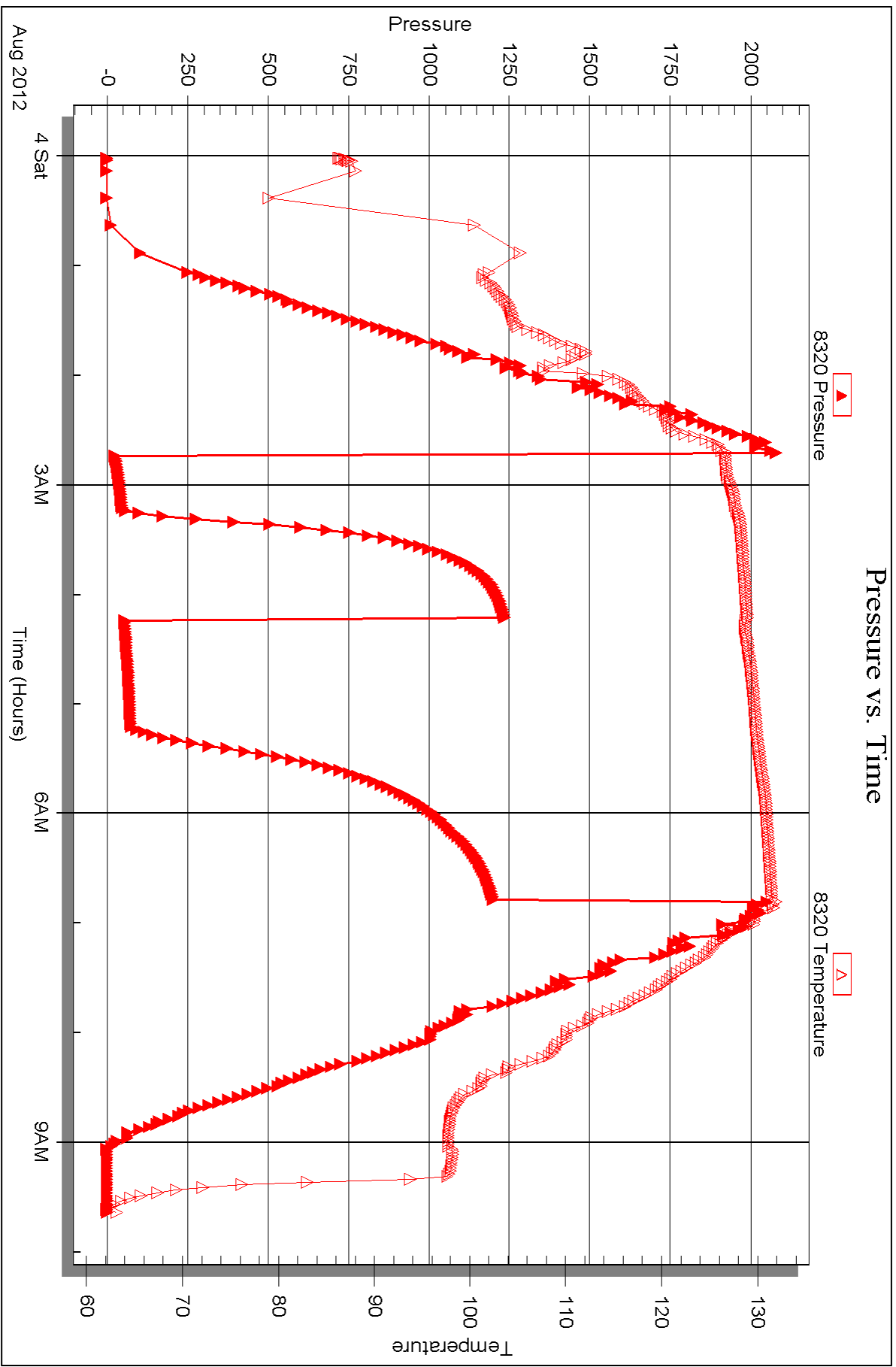


Serial #: 8320

Outside Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Hatch #1-30X

30-1s-36w Rawlins KS

Start Date: 2012.08.05 @ 01:26:00

End Date: 2012.08.05 @ 10:31:30

Job Ticket #: 46142 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.10 @ 13:57:37

Murfin Drilling Co Inc
30-1s-36w Rawlins KS
Hatch #1-30X
DST # 5
Lans. "H - J"
2012.08.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Rocky Milford

30-1s-36w Rawlins KS

Hatch #1-30X

Job Ticket: 46142

DST#: 5

Test Start: 2012.08.05 @ 01:26:00

GENERAL INFORMATION:

Formation: **Lans. "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:32:30

Time Test Ended: 10:31:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4394.00 ft (KB) To 4481.00 ft (KB) (TVD)

Total Depth: 4481.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3329.00 ft (KB)

3324.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 213.75 psig @ 4395.00 ft (KB)

Start Date: 2012.08.05

End Date:

2012.08.05

Start Time: 01:26:05

End Time:

10:31:30

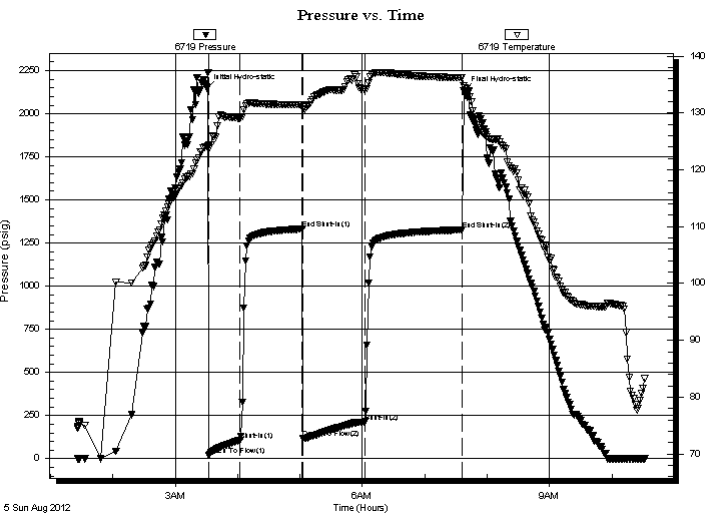
Capacity: 8000.00 psig

Last Calib.: 2012.08.05

Time On Btm: 2012.08.05 @ 03:30:30

Time Off Btm: 2012.08.05 @ 07:37:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 18 min.
 60 - IS: Bled off, Blow back built to 1"
 60 - FF: Blow built to BOB at 17 3/4 min.
 90 - FS: Bled off, Blow back built to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2148.30	124.03	Initial Hydro-static
2	21.15	124.37	Open To Flow (1)
32	108.42	129.07	Shut-In(1)
92	1331.86	131.47	End Shut-In(1)
93	116.60	130.77	Open To Flow (2)
152	213.75	134.11	Shut-In(2)
246	1326.99	136.17	End Shut-In(2)
247	2134.27	134.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	GOCM 59% <i>m</i> , 23% <i>g</i> , 18% <i>o</i>	1.03
340.00	GO 85% <i>o</i> , 11% <i>g</i> , 4% <i>m</i>	1.99
0.00	GIP = 220'	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
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46142 **DST#: 5**
Test Start: 2012.08.05 @ 01:26:00

Tool Information

Drill Pipe:	Length: 3863.00 ft	Diameter: 3.80 inches	Volume: 54.19 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: 515.00 ft	Diameter: 2.25 inches	Volume: 2.53 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 56.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4394.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4371.00	
Hydraulic tool	5.00			4376.00	
Jars	5.00			4381.00	
Safety Joint	3.00			4384.00	
Packer	5.00			4389.00	28.00 Bottom Of Top Packer
Packer	5.00			4394.00	
Packer - Shale	0.00			4394.00	
Stubb	1.00			4395.00	
Recorder	0.00	6719	Inside	4395.00	
Recorder	0.00	8320	Outside	4395.00	
Perforations	16.00			4411.00	
Blank Spacing	64.00			4475.00	
Perforations	3.00			4478.00	
Bullnose	3.00			4481.00	87.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Rocky Milford

30-1s-36w Rawlins KS
Hatch #1-30X
Job Ticket: 46142 **DST#: 5**
Test Start: 2012.08.05 @ 01:26:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 74.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	GOCM 59% <i>m</i> , 23% <i>g</i> , 18% <i>o</i>	1.033
340.00	GO 85% <i>o</i> , 11% <i>g</i> , 4% <i>m</i>	1.991
0.00	GIP = 220'	0.000

Total Length: 550.00 ft Total Volume: 3.024 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rig spotted 50 bbl of clean chemical mud on bottom for dst
Gravity = 34.6 api @ 80 deg F
Corrected Gravity = 32.6 api

Serial #: 6719

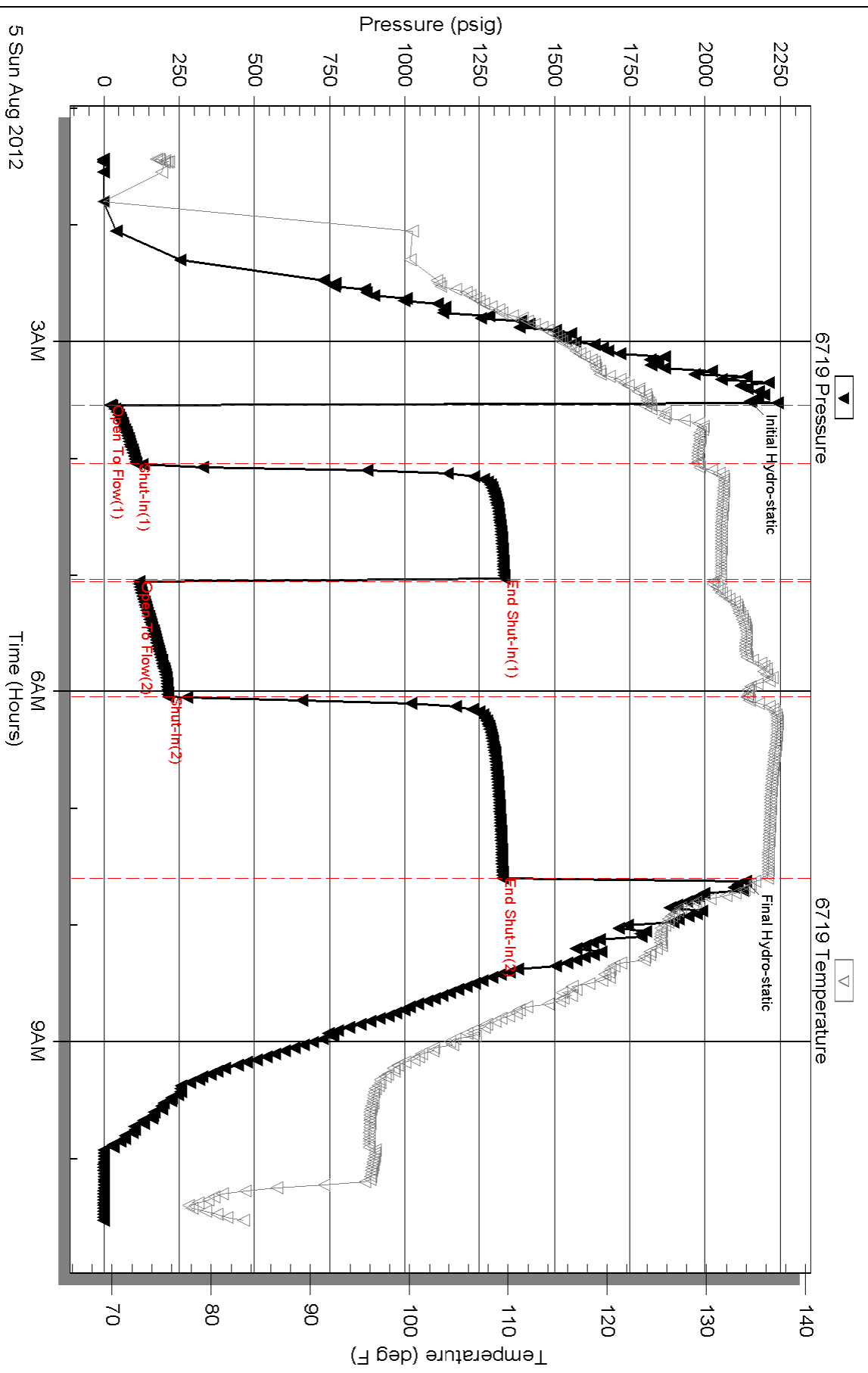
Inside

Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 5

Pressure vs. Time

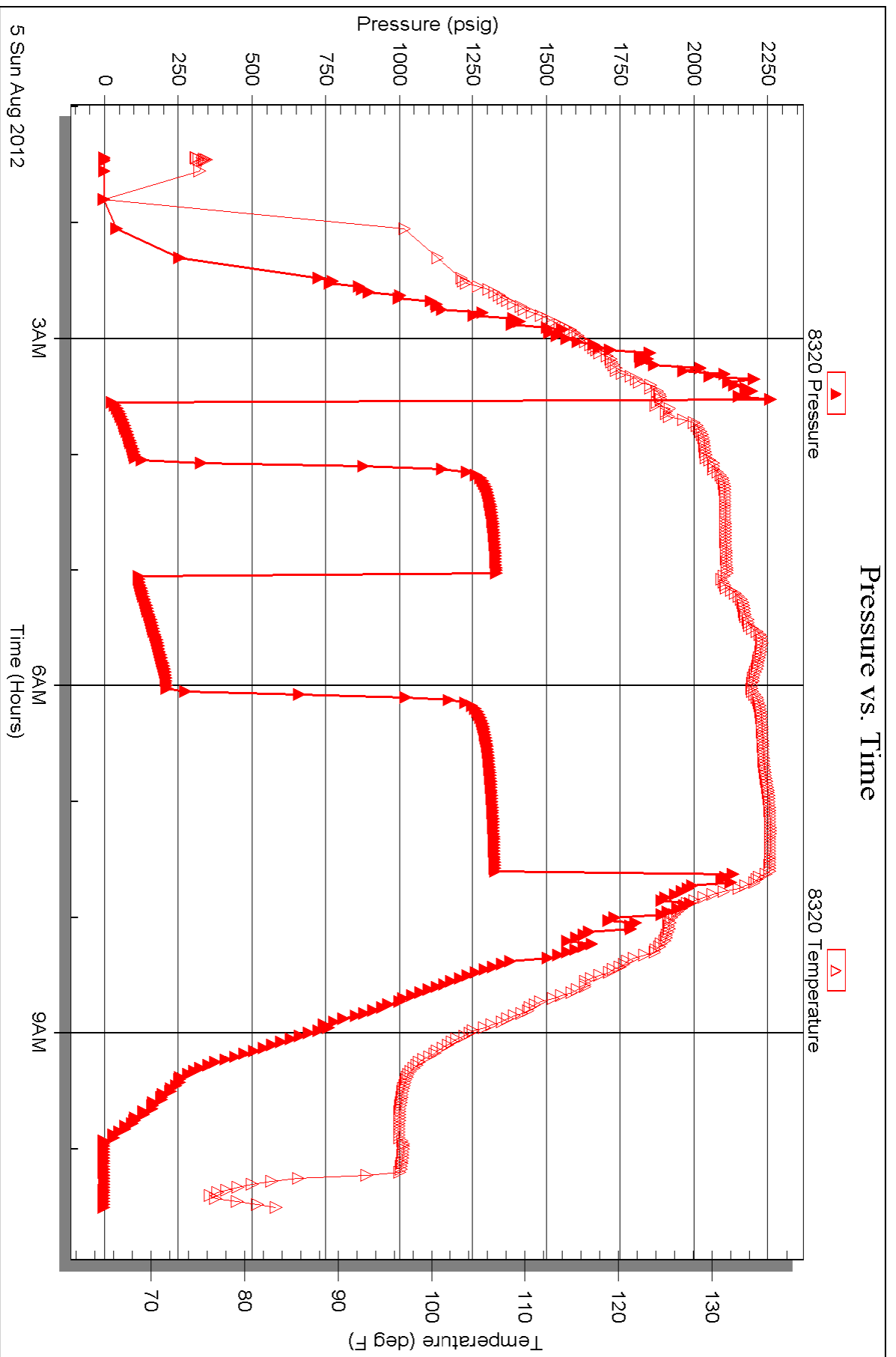


Serial #: 8320

Outside Murfin Drilling Co Inc

Hatch #1-30X

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46138**

4/10

Well Name & No. Hatch #1-30X Test No. 1 Date 7-31-12
 Company Murfin Drilling Co. Inc Elevation 3329 KB 3324 GL
 Address 250 N. Water Suite 300 Wichita, KS, 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 30 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 3794-3850 Zone Tested Foraker
 Anchor Length 56 Drill Pipe Run 3271 Mud Wt. 8.8
 Top Packer Depth 3789 Drill Collars Run 515 Vis 57
 Bottom Packer Depth 3794 Wt. Pipe Run - WL 5.2
 Total Depth 3850 Chlorides 600 ppm System LCM 8#
 Blow Description IF: 1/4" Blow at open, Built slowly to 1"
ISI: Bled off, No blowback
FF: No Blow
FSI: No Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud w/trace of Oil</u>	<u>trace</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 125 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1827</u>	<input type="checkbox"/> Test <u>*</u> 1150	T-On Location <u>1:45</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>3:20</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>5:47</u>
(D) Initial Shut-In <u>1120</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>8:52</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby <u>1hr</u> 100	T-Out <u>11:40</u>
(F) Second Final Flow <u>26</u>	<input type="checkbox"/> Mileage <u>118RT</u> 182.90	Comments _____
(G) Final Shut-In <u>1073</u>	<input checked="" type="checkbox"/> Sampler _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1812</u>	<input checked="" type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder _____	Total <u>1757.90</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input checked="" type="checkbox"/> Accessibility _____	
	Sub Total <u>1757.90</u>	

Approved By Rocky Milford

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46139

4/10

Well Name & No. Hatch #1-30X Test No. 2 Date 8-1-12
 Company Murfin Drilling Co. Inc. Elevation 3329 KB 3324 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 30 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 3883 - 4044 Zone Tested Stotler
 Anchor Length 161 Drill Pipe Run 3364 Mud Wt. 9.0
 Top Packer Depth 3878 Drill Collars Run 515 Vis 58
 Bottom Packer Depth 3883 (shale) Wt. Pipe Run - WL 5.2
 Total Depth 4044 Chlorides 600 ppm System LCM 8
 Blow Description IF: Blow built to 1" in 10 min., died back slightly by close
ISI: Bled off, No Blowback
FF: No ~~blow~~ Blow
FSI: No Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</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 15 BHT 126 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1944</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>3:00</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>3:42</u>
(C) First Final Flow <u>28</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>5:52</u>
(D) Initial Shut-In <u>962</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>8:57</u>
(E) Second Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>11:30</u>
(F) Second Final Flow <u>36</u>	<input type="checkbox"/> Mileage <u>118 RT</u> 182.90	Comments <u>Hotel</u>
(G) Final Shut-In <u>889</u>	<input checked="" type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1920</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer <u>*</u> 250	<input checked="" type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby	Total <u>2007.90</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2007.90</u>	

Approved By Rocky Milford

Our Representative James Windes

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46140

Well Name & No. Hatch #1-30X Test No. 3 Date 8-2-12
 Company Murfin Drilling Co. Inc Elevation 3329 KB 3324 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 30 Twp. 15 Rge. 36w Co. Rawlins State KS

Interval Tested 4124 - 4188 Zone Tested Oread
 Anchor Length 64 Drill Pipe Run 3615 Mud Wt. 9.2
 Top Packer Depth 4119 Drill Collars Run 515 Vis 69
 Bottom Packer Depth 4124 Wt. Pipe Run - WL 5.2
 Total Depth 4188 Chlorides 600 ppm System LCM 14

Blow Description IF: Blow built to 3/4"
ISI: Bled off, No blowback
FF: Blow started at 14 min., built to 3/4"
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>OCM</u>	<u>2</u>	<u>23</u>	<u>-</u>	<u>75</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 45 BHT 129 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2013</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>9:30 9:30</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>10:00</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>11:58</u>
(D) Initial Shut-In <u>1198</u>	<input checked="" type="checkbox"/> Circ Sub <u>ANA</u>	T-Pulled <u>15:59</u>
(E) Second Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Hourly Standby <u>3/4 hr</u>	T-Out <u>18:20</u>
(F) Second Final Flow <u>37</u>	<input type="checkbox"/> Mileage <u>118RT</u> 182.90	Comments <u>(Note!) Rig spotted</u>
(G) Final Shut-In <u>1145</u>	<input checked="" type="checkbox"/> Sampler	<u>50BBL of Fresh Chem. Mud</u>
(H) Final Hydrostatic <u>2010</u>	<input checked="" type="checkbox"/> Straddle	<u>on Bottom for DST</u>

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1757.90
 MP/DST Disc't _____
 Sub Total 1757.90

Approved By Rocky Milford Our Representative James Winder

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46141

4/10

Well Name & No. Hatch #1-30X Test No. 4 Date 8-3-12
 Company Murfin Drilling Co. Inc. Elevation 3329 KB 3324 GL
 Address 250 N. Water Suite 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 30 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4207 - 4400 Zone Tested Douglas - Lans. "6"
 Anchor Length 193 Drill Pipe Run 3675 Mud Wt. 9.1
 Top Packer Depth 4205 Drill Collars Run 515 Vis 77
 Bottom Packer Depth 4207 Wt. Pipe Run - WL 5.6
 Total Depth 4400 Chlorides 700 ppm System LCM 16

Blow Description IF: 1" Blow at open, built to 2 1/2"
ISI: Bled off, No blowback
FF: Blow started at 26 min., built to 1/4"
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>64</u>	<u>mud w/oil spots</u>	<u>3</u>	<u>-</u>	<u>97</u>	
<u>60</u>	<u>OCM</u>	<u>5</u>	<u>10</u>	<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 124 BHT 131 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2079</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>23:20</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>00:01 8-4-12</u>
(C) First Final Flow <u>48</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>2:43</u>
(D) Initial Shut-In <u>1236</u>	<input checked="" type="checkbox"/> Circ Sub <u>XNA</u>	T-Pulled <u>6:47</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby <u>1/4 hr</u>	T-Out <u>9:35</u>
(F) Second Final Flow <u>74</u>	<input type="checkbox"/> Mileage <u>118 RT</u> 182.90	Comments <u>Rig Spotted 50 bbl</u>
(G) Final Shut-In <u>1203</u>	<input checked="" type="checkbox"/> Sampler	<u>of Clean Chem. Mud</u>
(H) Final Hydrostatic <u>2049</u>	<input checked="" type="checkbox"/> Straddle	<u>on Bottom for DST</u>

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

Shale Packer
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Extra Recorder DST #3 Finished @ 18:20
 Sub Total 166.67
 Day Standby 5 hrs. 8-2-12
 Total 1924.57
 Accessibility
 MP/DST Disc't _____
 Sub Total 1757.90

Approved By Rocky Milford Our Representative James Winda
 TriLOBITE Testing Inc. shall not be liable for damaged or 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. 46142

4/10

Well Name & No. Hatch #1-30 X Test No. 5 Date 8-5-12
 Company Murfin Drilling Co. Inc Elevation 3329 KB 3324 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 30 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4394 - 4481 Zone Tested Lans "H-J"
 Anchor Length 87 Drill Pipe Run 3863 Mud Wt. 9.3
 Top Packer Depth 4389 Drill Collars Run 515 Vis 74
 Bottom Packer Depth 4394 (shale) Wt. Pipe Run - WL 6.4
 Total Depth 4481 Chlorides 800 ppm System LCM 16

Blow Description IF: Blow built to BOB (11") at 18 min.
ISI: Bled off, Blowback built to 1"
FF: Blow built to BOB at 17 3/4 min.
FSI: Bled off, Blowback built to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>340</u>	<u>Feet of 260 60</u>	<u>11</u>	<u>85</u>	<u>-</u>	<u>4</u>
<u>210</u>	<u>Feet of 60cm</u>	<u>23</u>	<u>18</u>	<u>-</u>	<u>59</u>
<u>Rec</u>	<u>Feet of GIP = 220'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 550 Fluid 220 GAS BHT 136 Gravity 32.6 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2148</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>00:45</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>1:26</u>
(C) First Final Flow <u>108</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>3:32</u>
(D) Initial Shut-In <u>1332</u>	<input checked="" type="checkbox"/> Circ Sub <u>XNA</u>	T-Pulled <u>7:36</u>
(E) Second Initial Flow <u>117</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>10:20</u>
(F) Second Final Flow <u>214</u>	<input type="checkbox"/> Mileage <u>118 RT</u> 182.90	Comments <u>Rig spotted 50 bbl of clean chem mud on bottom for DST</u>
(G) Final Shut-In <u>1327</u>	<input checked="" type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer <u>*</u> 350
(H) Final Hydrostatic <u>2134</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>*</u> 250	<input checked="" type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Packer	Sub Total <u>350</u>
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder	Total <u>2357.90</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby	MP/DST Disc't
	<input checked="" type="checkbox"/> Accessibility	
	Sub Total <u>2007.90</u>	

Approved By Rocky Milford

Our Representative James Winder

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