



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.07 @ 22:33:00

End Date: 2012.02.08 @ 10:02:30

Job Ticket #: 45565 DST #: 1

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

Printed: 2012.02.16 @ 10:04:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45565

DST#: 1

Test Start: 2012.02.07 @ 22:33:00

GENERAL INFORMATION:

Formation: **LKC "A - D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:39:00
 Time Test Ended: 10:02:30
 Interval: **3917.00 ft (KB) To 3987.00 ft (KB) (TVD)**
 Total Depth: 3987.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3014.00 ft (KB)
 3009.00 ft (CF)
 KB to GR/CF: 5.00 ft

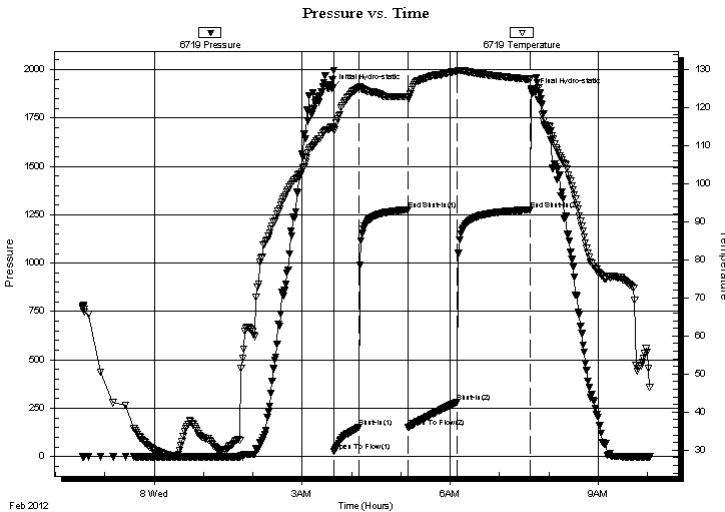
Serial #: 6719

Inside

Press @ Run Depth: 282.48 psig @ 3918.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.07 End Date: 2012.02.08 Last Calib.: 2012.02.08
 Start Time: 22:33:05 End Time: 10:02:30 Time On Btm: 2012.02.08 @ 03:36:30
 Time Off Btm: 2012.02.08 @ 07:41:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 17 min. (Diesel in Bucket)
 60 - IS: Bled off, Weak surface blow back from 12 min. - 17 min. then dead
 60 - FF: Blow built to BOB in 21 min.
 90 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.61	114.83	Initial Hydro-static
3	26.11	114.02	Open To Flow (1)
33	150.78	125.20	Shut-In (1)
92	1276.13	122.73	End Shut-In (1)
93	150.42	122.45	Open To Flow (2)
152	282.48	129.41	Shut-In (2)
241	1275.53	127.35	End Shut-In (2)
245	1882.63	124.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW 92%w, 8% m	2.72
125.00	MCW 85%w, 15% m	1.75
145.00	MCW 64%w, 36% m	2.03
0.00	Show of Oil in Tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45565

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.02.07 @ 22:33:00

Tool Information

Drill Pipe:	Length: 3725.00 ft	Diameter: 3.80 inches	Volume: 52.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3917.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Rig slipped and cut bad drilling line (22:45 - 2:30) before starting in with test

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3894.00	
Hydraulic tool	5.00			3899.00	
Jars	5.00			3904.00	
Safety Joint	3.00			3907.00	
Packer	5.00			3912.00	28.00 Bottom Of Top Packer
Packer	5.00			3917.00	
Packer - Shale	0.00			3917.00	
Stubb	1.00			3918.00	
Recorder	0.00	6719	Inside	3918.00	
Recorder	0.00	8320	Outside	3918.00	
Perforations	30.00			3948.00	
Blank Spacing	33.00			3981.00	
Perforations	3.00			3984.00	
Bullnose	3.00			3987.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45565

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.02.07 @ 22:33:00

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:

25000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
315.00	MCW 92%w, 8%m	2.715
125.00	MCW 85%w, 15%m	1.753
145.00	MCW 64%w, 36%m	2.034
0.00	Show of Oil in Tool	0.000

Total Length: 585.00 ft

Total Volume: 6.502 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

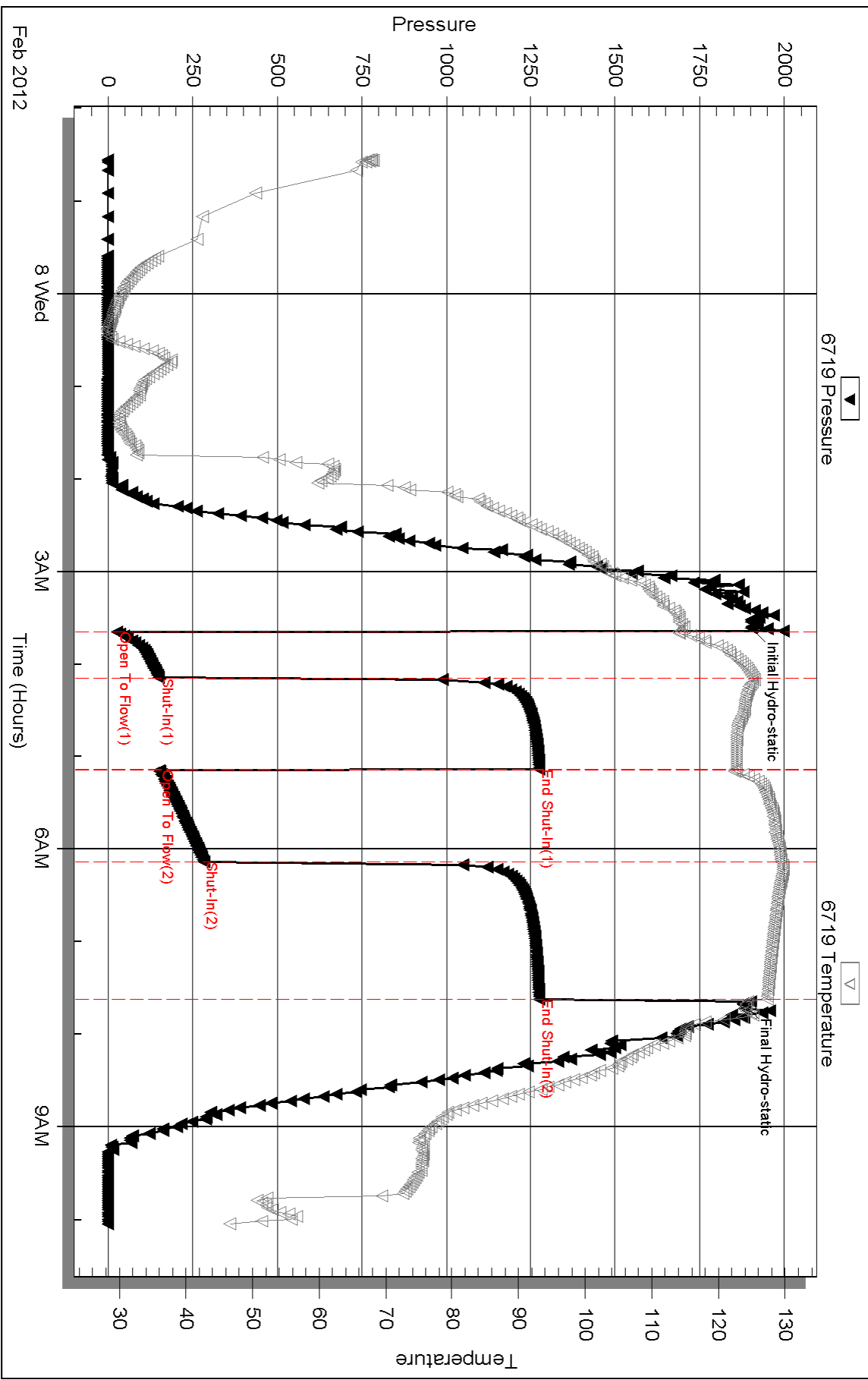
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .314 ohms @ 60 deg F

Pressure vs. Time

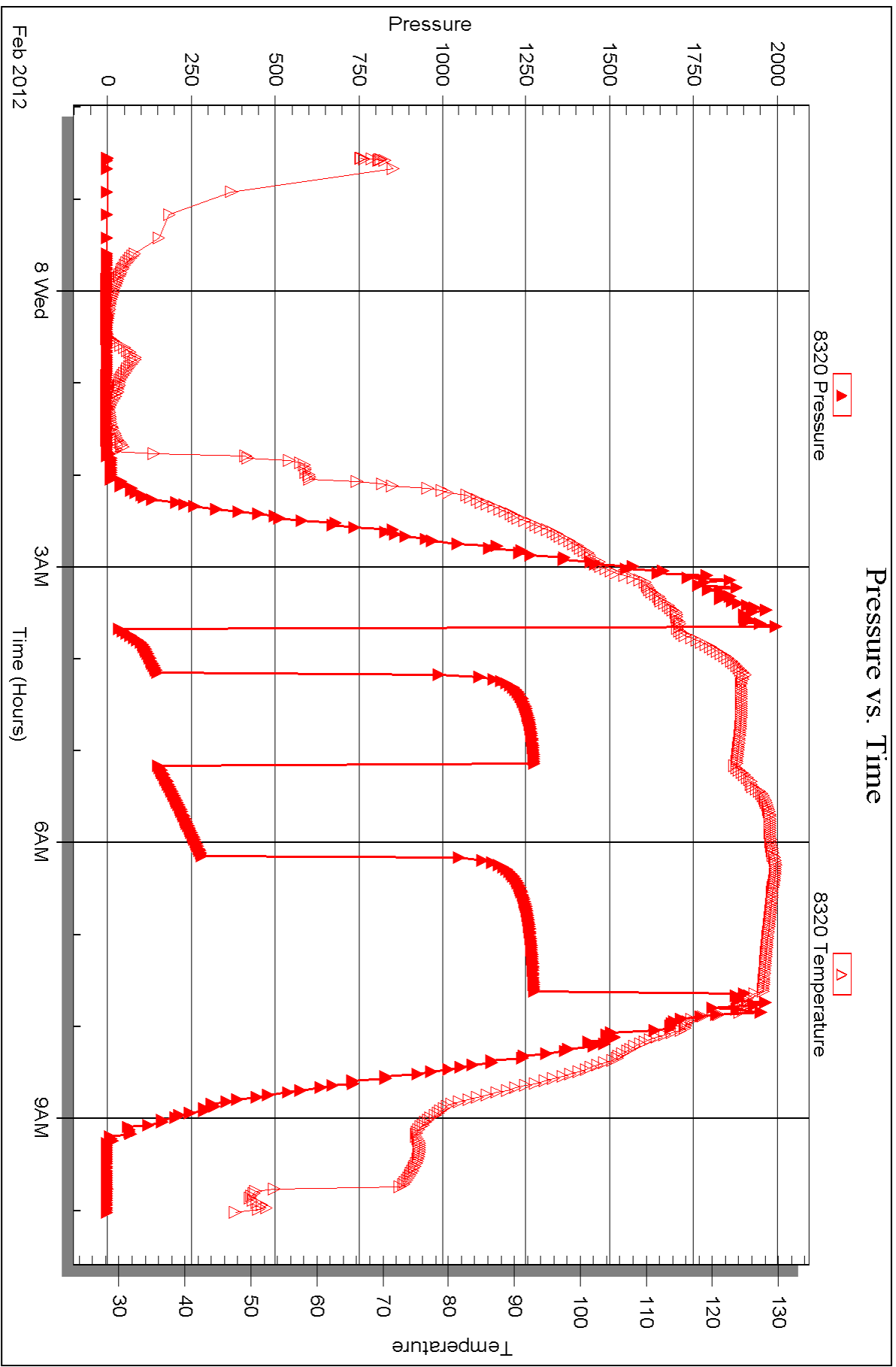


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45565

Printed: 2012.02.16 @ 10:05:00



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.08 @ 19:54:05

End Date: 2012.02.09 @ 04:07:59

Job Ticket #: 45566 DST #: 2

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

Printed: 2012.02.16 @ 10:04:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45566

DST#: 2

Test Start: 2012.02.08 @ 19:54:05

GENERAL INFORMATION:

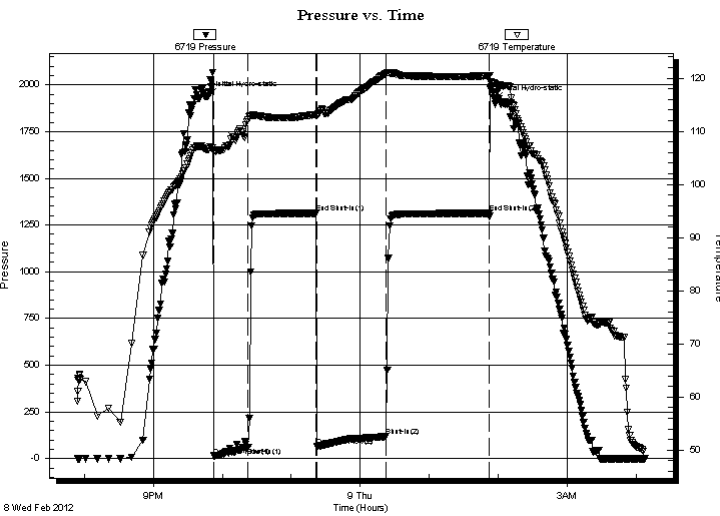
Formation: **LKC "E - G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:52:30
 Time Test Ended: 04:07:59
 Interval: **3985.00 ft (KB) To 4037.00 ft (KB) (TVD)**
 Total Depth: 4037.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3014.00 ft (KB)
 3009.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 117.68 psig @ 3986.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.08 End Date: 2012.02.09 Last Calib.: 2012.02.09
 Start Time: 19:54:05 End Time: 04:07:59 Time On Btm: 2012.02.08 @ 21:48:00
 Time Off Btm: 2012.02.09 @ 01:56:59

TEST COMMENT: 30 - IF: 1/4" Blow at open, Surging blow built to 4 1/2" (Diesel in Bucket)
 60 - IS: Bled off, Blow back at 11 min., built to about 1/8"
 60 - FF: Blow built to 8 1/2"
 90 - FS: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.72	106.66	Initial Hydro-static
5	14.71	106.56	Open To Flow (1)
35	60.11	112.23	Shut-In(1)
94	1312.87	113.16	End Shut-In(1)
95	65.81	112.95	Open To Flow (2)
155	117.68	120.89	Shut-In(2)
244	1313.08	120.48	End Shut-In(2)
249	1921.93	119.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW 55%w, 45%m	0.30
125.00	WCM 82%w, 18%w	0.61
38.00	Mud 100%	0.53

* 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.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45566

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.02.08 @ 19:54:05

Tool Information

Drill Pipe:	Length: 3788.00 ft	Diameter: 3.80 inches	Volume: 53.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3985.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			3970.00	
Hydraulic tool	5.00			3975.00	
Packer	5.00			3980.00	20.00 Bottom Of Top Packer
Packer	5.00			3985.00	
Stubb	1.00			3986.00	
Recorder	0.00	6719	Inside	3986.00	
Recorder	0.00	8320	Outside	3986.00	
Perforations	15.00			4001.00	
Blank Spacing	33.00			4034.00	
Bullnose	3.00			4037.00	52.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45566

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.02.08 @ 19:54:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	MW 55%w, 45%m	0.305
125.00	WCM 82%m, 18%w	0.615
38.00	Mud 100%	0.533

Total Length: 225.00 ft Total Volume: 1.453 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

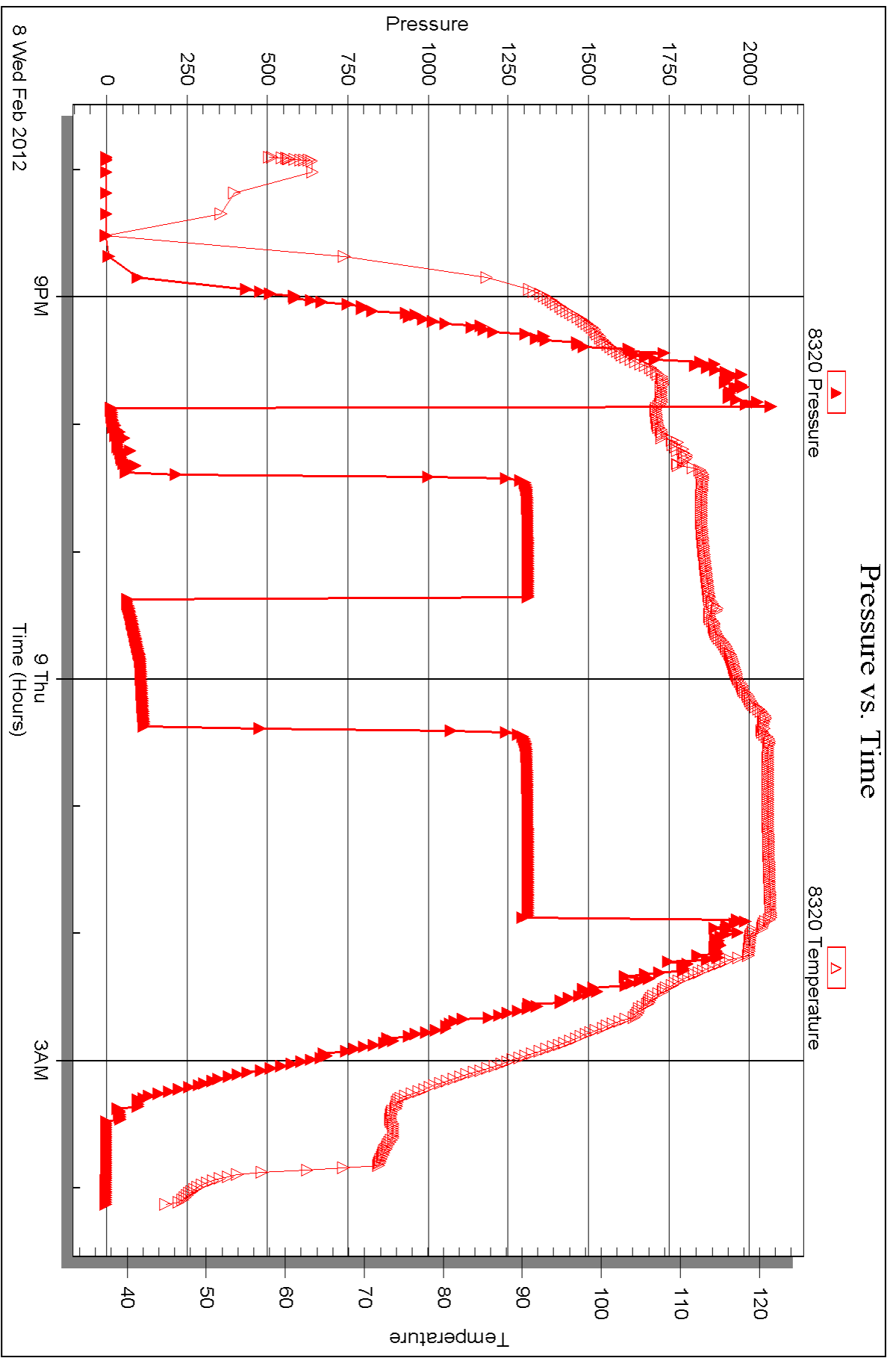
Recovery Comments: RW = .367 ohms @ 53 deg F

Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45566

Printed: 2012.02.16 @ 10:04:11



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.09 @ 16:31:00

End Date: 2012.02.10 @ 00:58:30

Job Ticket #: 45567 DST #: 3

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

Printed: 2012.02.16 @ 10:03:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45567

DST#: 3

Test Start: 2012.02.09 @ 16:31:00

GENERAL INFORMATION:

Formation: **LKC "Lower H- J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:33:30
 Tester: James Winder
 Time Test Ended: 00:58:30
 Unit No: 57
 Interval: **4062.00 ft (KB) To 4118.00 ft (KB) (TVD)**
 Reference Elevations: 3014.00 ft (KB)
 Total Depth: 4118.00 ft (KB) (TVD)
 3009.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

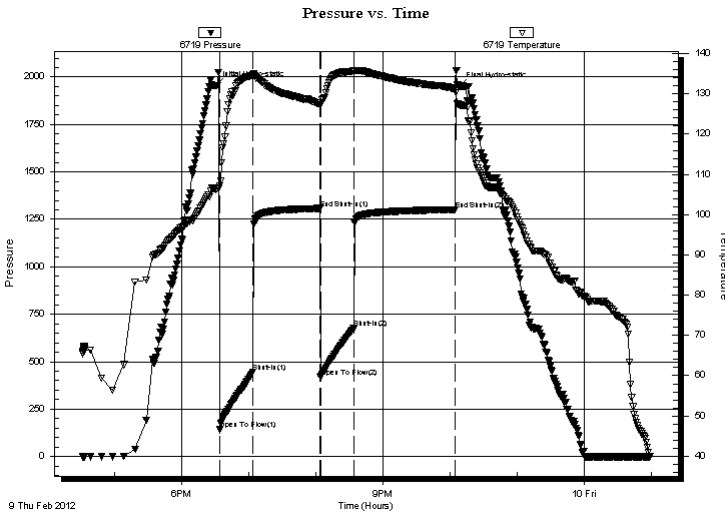
Serial #: 6719

Inside

Press @ Run Depth: 677.19 psig @ 4063.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.09 End Date: 2012.02.10 Last Calib.: 2012.02.10
 Start Time: 16:31:05 End Time: 00:58:29 Time On Btm: 2012.02.09 @ 18:30:30
 Time Off Btm: 2012.02.09 @ 22:08:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 3 1/4 min. (Diesel in Bucket)
 60 - IS: Bled off, No blow back
 30 - FF: Blow built to BOB in 3 1/2 min.
 90 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.36	106.31	Initial Hydro-static
3	141.97	107.23	Open To Flow (1)
33	444.04	134.65	Shut-In(1)
93	1307.64	127.66	End Shut-In(1)
94	418.75	127.38	Open To Flow (2)
124	677.19	135.65	Shut-In(2)
214	1301.45	131.28	End Shut-In(2)
218	1951.73	127.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
945.00	Water 96%w, 4% m	11.55
315.00	MCW w/trace oil 70%w, 30% m	4.42
190.00	WM w/trace oil 57% m, 43% w	2.67

* 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.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45567

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.02.09 @ 16:31:00

Tool Information

Drill Pipe:	Length: 3880.00 ft	Diameter: 3.80 inches	Volume: 54.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 55.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4062.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	76.00 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			4047.00	
Hydraulic tool	5.00			4052.00	
Packer	5.00			4057.00	20.00 Bottom Of Top Packer
Packer	5.00			4062.00	
Stubb	1.00			4063.00	
Recorder	0.00	6719	Inside	4063.00	
Recorder	0.00	8320	Outside	4063.00	
Perforations	15.00			4078.00	
Blank Spacing	33.00			4111.00	
Perforations	4.00			4115.00	
Bullnose	3.00			4118.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45567

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.02.09 @ 16:31:00

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:

33000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
945.00	Water 96%w, 4%m	11.552
315.00	MCW w/trace oil 70%w, 30%m	4.419
190.00	WMw/trace oil 57%m, 43%w	2.665

Total Length: 1450.00 ft Total Volume: 18.636 bbl

Num Fluid Samples: 0

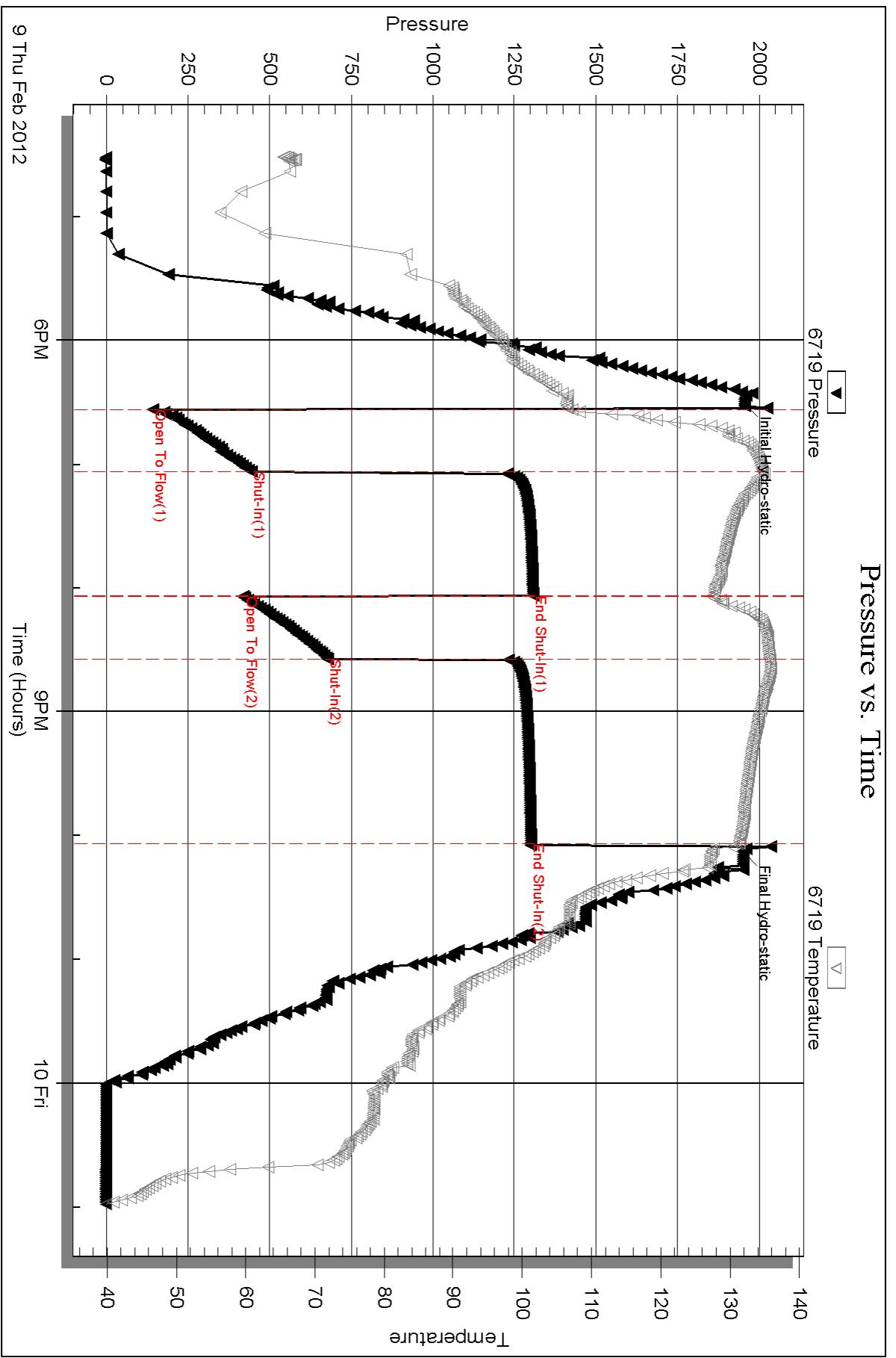
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .292 ohms @ 52.6 deg F

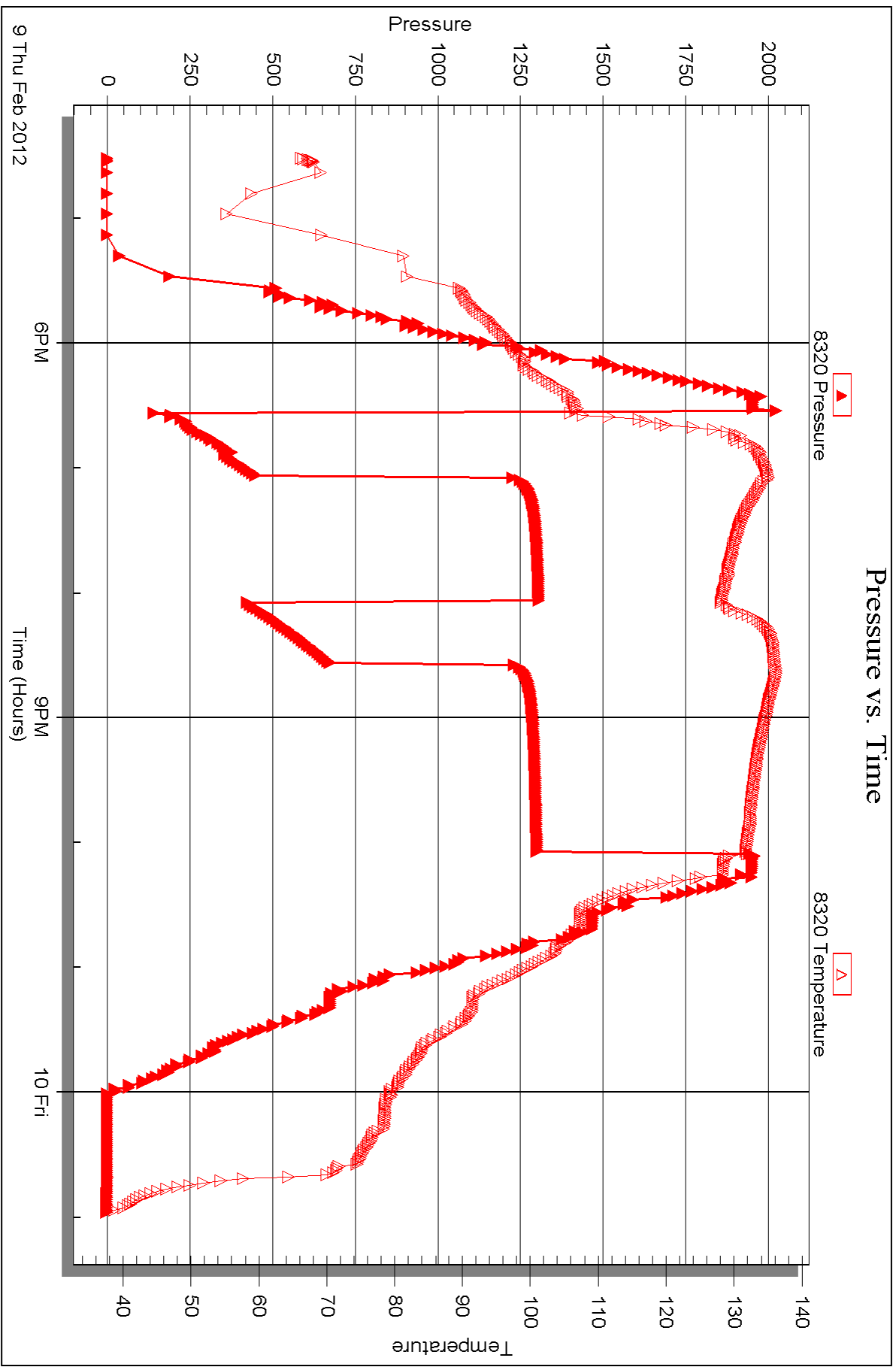


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.11 @ 16:27:00

End Date: 2012.02.12 @ 01:29:30

Job Ticket #: 45568 DST #: 4

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

Printed: 2012.02.16 @ 10:02:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45568

DST#: 4

Test Start: 2012.02.11 @ 16:27:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:30

Time Test Ended: 01:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4308.00 ft (KB) To 4345.00 ft (KB) (TVD)

Reference Elevations: 3014.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press @ Run Depth: 256.67 psig @ 4309.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.11

End Date:

2012.02.12

Last Calib.:

2012.02.12

Start Time:

16:27:05

End Time:

01:29:30

Time On Btm:

2012.02.11 @ 18:20:30

Time Off Btm:

2012.02.11 @ 22:35:30

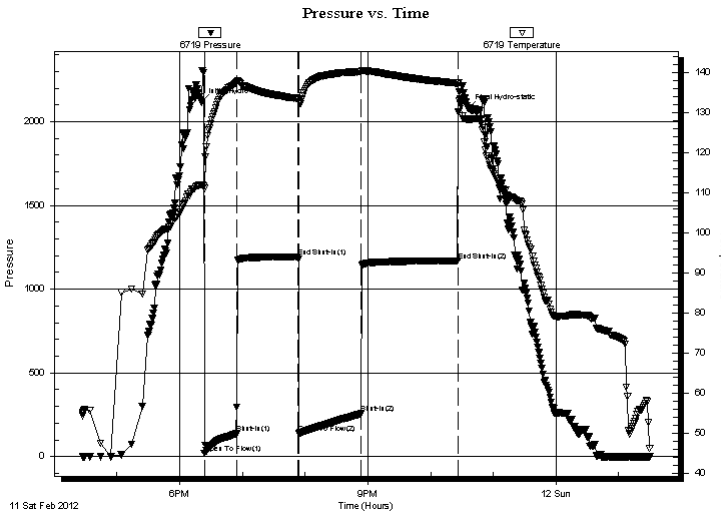
TEST COMMENT: 30 - IF: Blow built to BOB (11") in 16 1/2 min. (Diesel in Bucket)

60 - IS: Bled off, Blow back built to 1"

60 - FF: Blow built to BOB in 20 1/2 min.

90 - FS: Bled off, Blow back built to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.57	112.00	Initial Hydro-static
3	21.32	111.19	Open To Flow (1)
34	137.08	137.52	Shut-In (1)
93	1193.00	133.55	End Shut-In (1)
94	140.65	132.68	Open To Flow (2)
153	256.67	140.30	Shut-In (2)
246	1169.08	137.40	End Shut-In (2)
255	2079.19	128.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	SOMCW 94%w, 5%o, 1%g	2.72
125.00	SO/MCW 86%w, 12%o, 2%g	1.75
95.00	SO/WCM 56%o, 35%w, 7%g, 2%g	1.33
0.00	GIP = 30'+	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.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45568

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.02.11 @ 16:27:00

Tool Information

Drill Pipe:	Length: 4103.00 ft	Diameter: 3.80 inches	Volume: 57.55 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 58.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4308.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Jars	5.00			4295.00	
Safety Joint	3.00			4298.00	
Packer	5.00			4303.00	28.00 Bottom Of Top Packer
Packer	5.00			4308.00	
Stubb	1.00			4309.00	
Recorder	0.00	6719	Inside	4309.00	
Recorder	0.00	8320	Outside	4309.00	
Perforations	33.00			4342.00	
Bullnose	3.00			4345.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45568

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.02.11 @ 16:27:00

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:

36000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
315.00	SOMCW 94%w, 5%m, 1%o	2.715
125.00	SO/MCW 86%w, 12%m, 2%o	1.753
95.00	SO/WCM 56%m, 35%w, 7%o, 2%g	1.333
0.00	GIP = 30'+	0.000

Total Length: 535.00 ft

Total Volume: 5.801 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

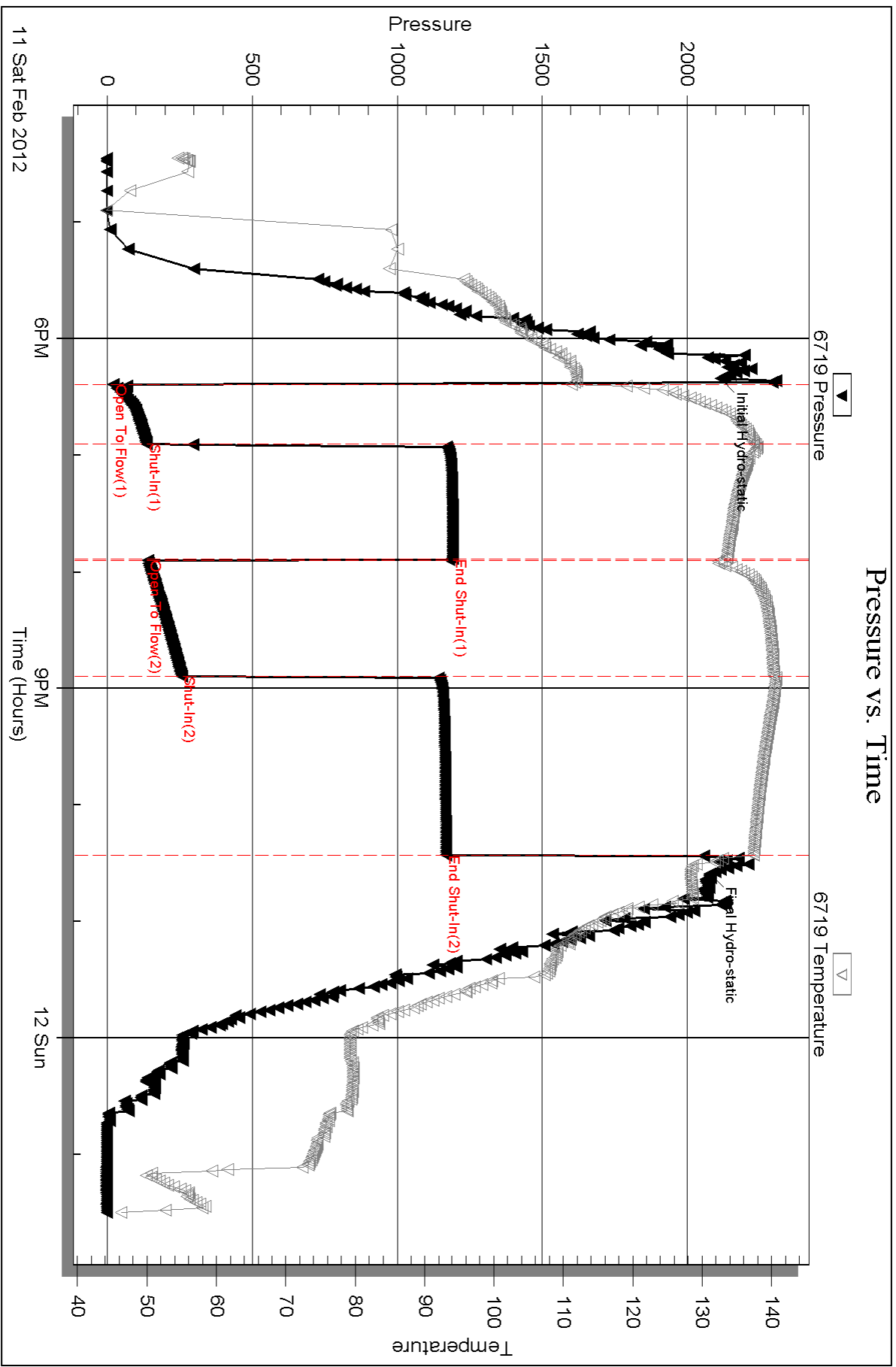
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .267 ohms @ 53.1 deg F

Chlorides = 36,000 ppm

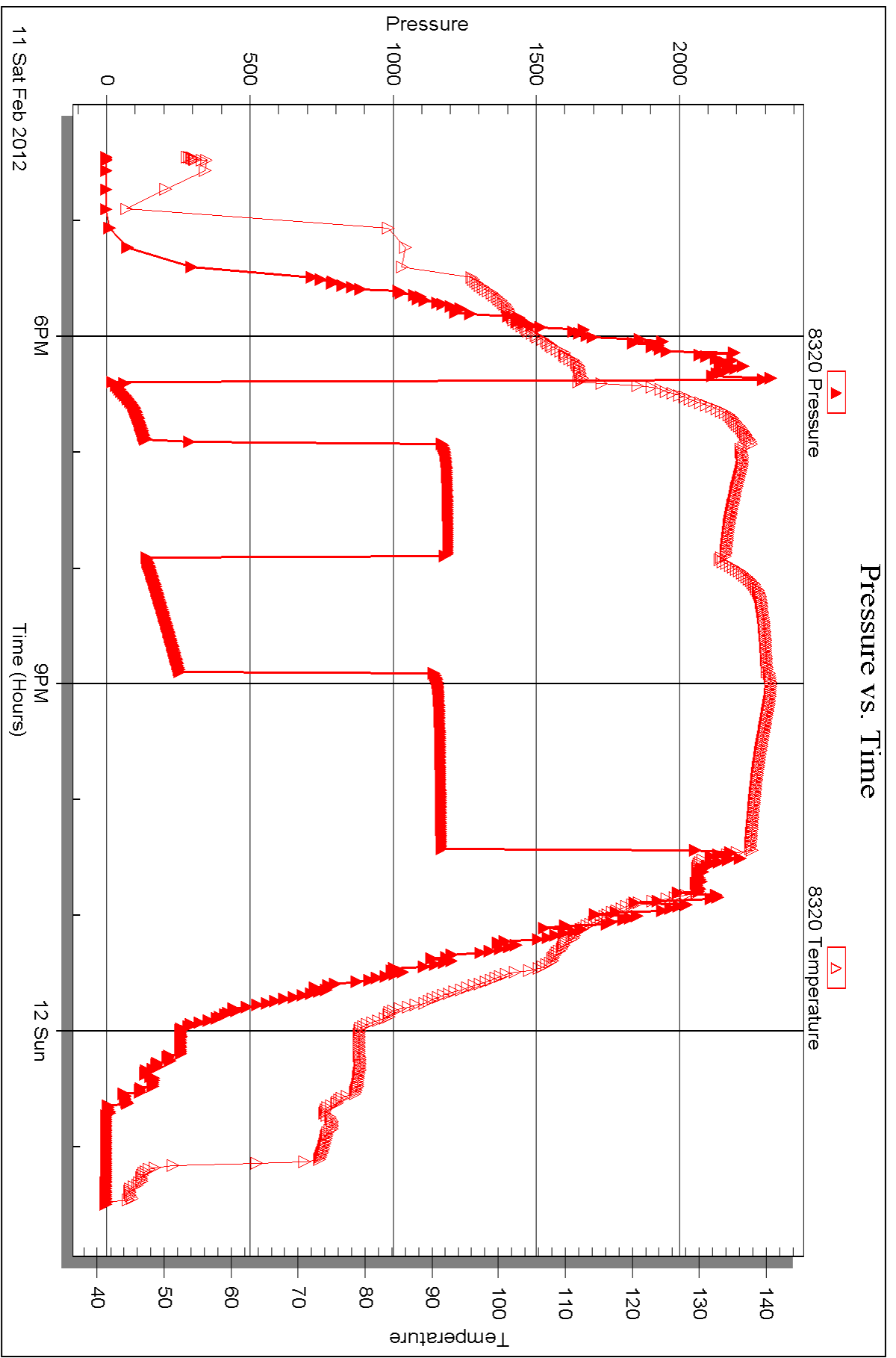


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 45568

Printed: 2012.02.16 @ 10:02:57



DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Rocky Milford

Drake #1-22

22-5s-33w Rawlins KS

Start Date: 2012.02.12 @ 13:36:00

End Date: 2012.02.12 @ 20:04:30

Job Ticket #: 45569 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.16 @ 10:01:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

22-5s-33w Rawlins KS

Drake #1-22

Job Ticket: 45569

DST#: 5

Test Start: 2012.02.12 @ 13:36:00

GENERAL INFORMATION:

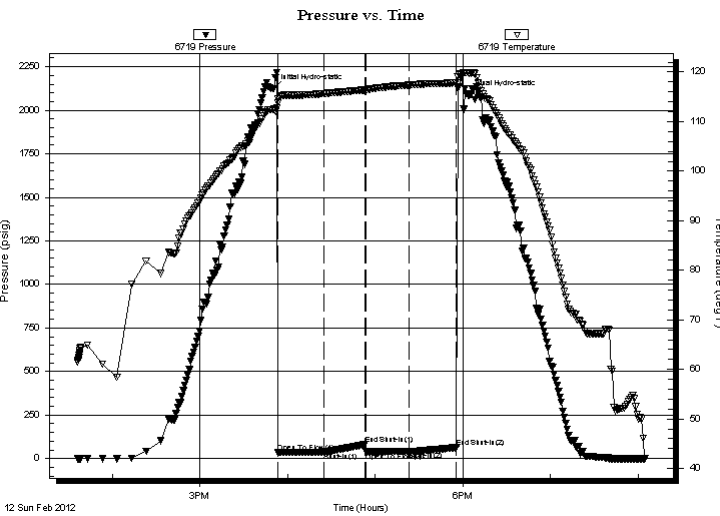
Formation: **Ft. Scott - Celia**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:53:00
 Time Test Ended: 20:04:30
 Interval: **4342.00 ft (KB) To 4402.00 ft (KB) (TVD)**
 Total Depth: 4402.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3014.00 ft (KB)
 3009.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 40.25 psig @ 4343.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.12 End Date: 2012.02.12 Last Calib.: 2012.02.12
 Start Time: 13:36:05 End Time: 20:04:29 Time On Btm: 2012.02.12 @ 15:50:30
 Time Off Btm: 2012.02.12 @ 18:03:30

TEST COMMENT: 30 - IF: 1 1/2" surge blow, Bled off, Blow built to 1/8" in 15 min., on/off blow at 1/8" till close
 30 - IS: Bled off, No blow back (Diesel in Bucket)
 30 - FF: on/off surface blow, dead after 18 min.
 30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.46	112.49	Initial Hydro-static
3	34.00	113.73	Open To Flow (1)
34	37.59	115.66	Shut-In(1)
63	81.76	116.39	End Shut-In(1)
63	38.89	116.40	Open To Flow (2)
93	40.25	117.37	Shut-In(2)
125	63.42	117.85	End Shut-In(2)
133	2087.52	119.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Mud 100%	0.29
0.00	Trace of oil in Tool	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.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45569

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.12 @ 13:36:00

Tool Information

Drill Pipe:	Length: 4134.00 ft	Diameter: 3.80 inches	Volume: 57.99 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 58.91 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4342.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool chased 2' to bottom at open - No mud loss at top

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

Shut In Tool	5.00			4319.00	
Hydraulic tool	5.00			4324.00	
Jars	5.00			4329.00	
Safety Joint	3.00			4332.00	
Packer	5.00			4337.00	28.00 Bottom Of Top Packer
Packer	5.00			4342.00	
Stubb	1.00			4343.00	
Recorder	0.00	6719	Inside	4343.00	
Recorder	0.00	8320	Outside	4343.00	
Perforations	20.00			4363.00	
Blank Spacing	32.00			4395.00	
Perforations	4.00			4399.00	
Bullnose	3.00			4402.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

22-5s-33w Rawlins KS

250 N. Water Suite 300
Wichita, KS 67202

Drake #1-22

Job Ticket: 45569

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.12 @ 13:36:00

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: 45.00 sec/qt

Cushion Volume:

dbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume dbl
58.00	Mud 100%	0.285
0.00	Trace of oil in Tool	0.000

Total Length: 58.00 ft Total Volume: 0.285 dbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

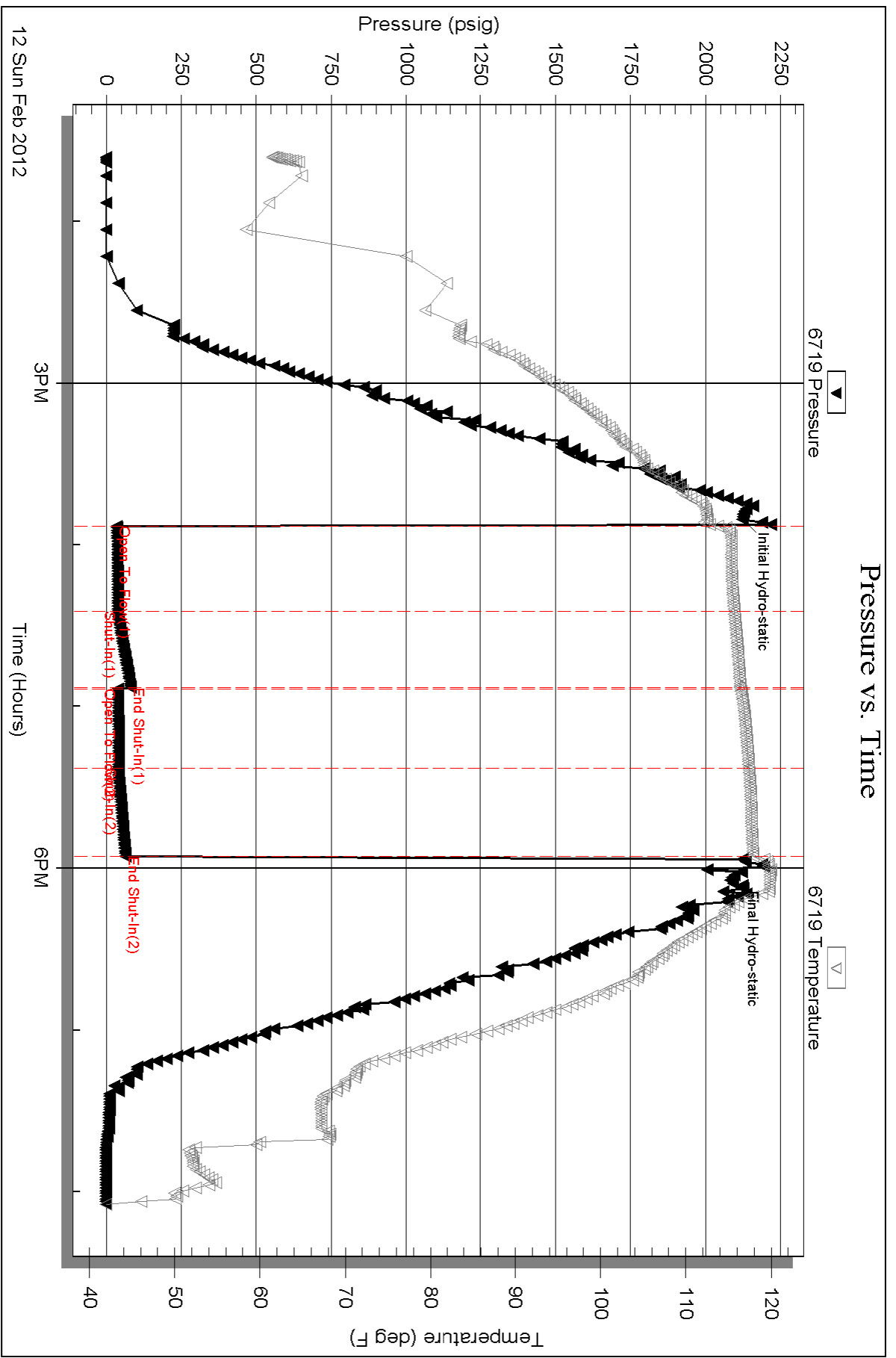
Serial #: 6719

Inside

Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 5

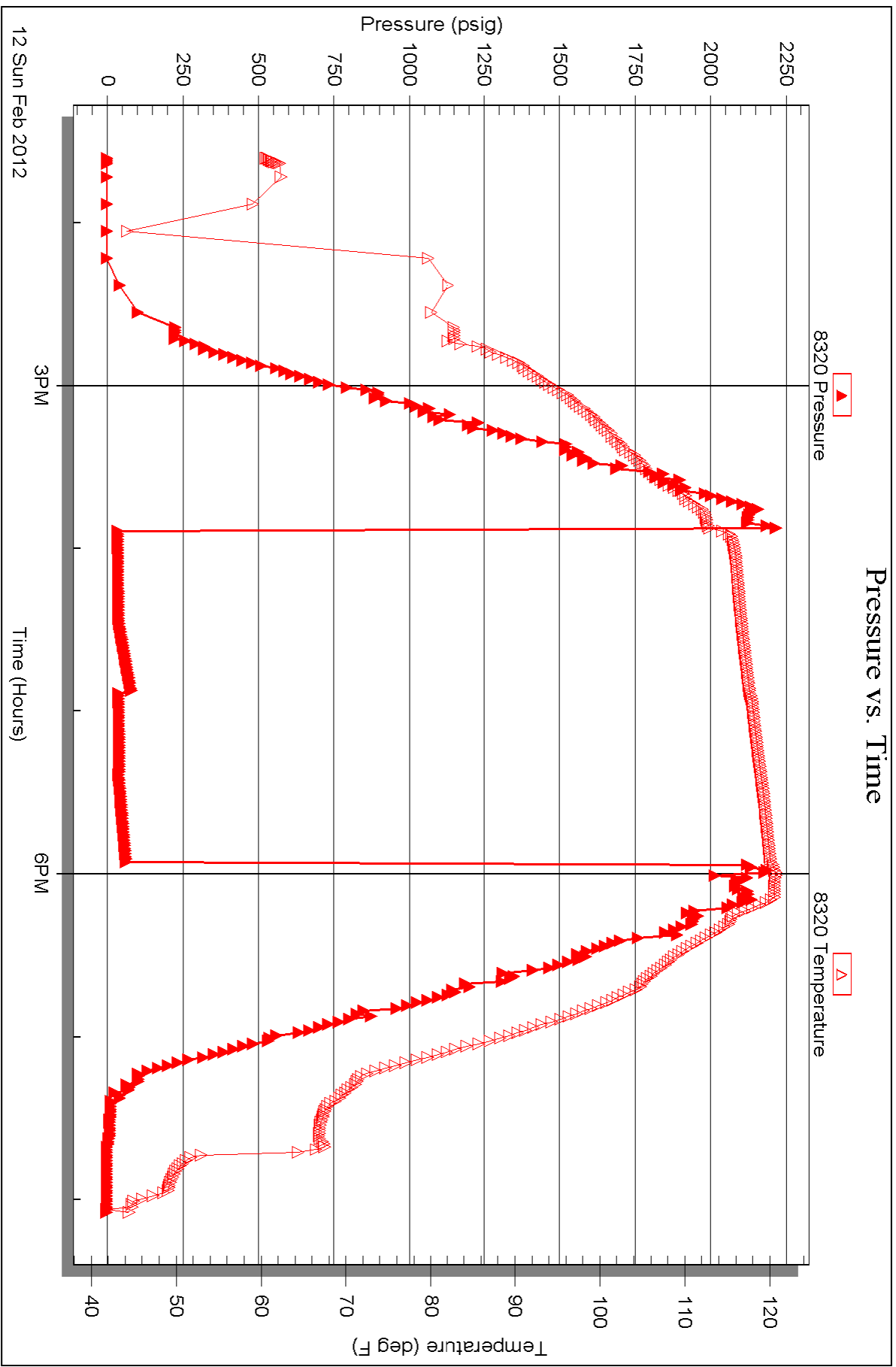


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Drake #1-22

DST Test Number: 5





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P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

NO. 45565

4/10

Well Name & No. Drake #1-22 Test No. 1 Date 2-7-12
 Company Murfin Drilling Co. Inc Elevation 3014 KB 3009 GL
 Address 250 N. Water Suite 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 22 Twp. 5s Rge. 33w Co. Rawlins State KS

Interval Tested 3917 - 3987 Zone Tested LKC "A-D"
 Anchor Length 70 Drill Pipe Run 3725 Mud Wt. 9.2
 Top Packer Depth 3912 Drill Collars Run 187 Vis 64
 Bottom Packer Depth 3917 (shale) Wt. Pipe Run - WL 7.2
 Total Depth 3987 Chlorides 5100 ppm System LCM 7

Blow Description IF: Blow built to BOB (11") in 17 min. (Diesel in Bucket)
ISI: Bled off; weak surface blowback from 12 min - 17 min., then dead
FF: Blow built to BOB in 21 min.
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>MCW</u>	-	-	<u>64</u>	<u>36</u>
<u>125</u>	<u>MCW</u>	-	-	<u>85</u>	<u>15</u>
<u>315</u>	<u>MCW</u>	-	-	<u>92</u>	<u>8</u>
Rec	Feet of <u>Show of oil in Tool</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 585 BHT 127 Gravity - API RW .314 @ 60 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>1904</u>	<input type="checkbox"/> Test <u>* 1125</u>	T-On Location <u>21:50</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars <u>* 250</u>	T-Started <u>22:33</u>
(C) First Final Flow <u>151</u>	<input type="checkbox"/> Safety Joint <u>* 75</u>	T-Open <u>3:39</u>
(D) Initial Shut-In <u>1276</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>7:37</u>
(E) Second Initial Flow <u>150</u>	<input type="checkbox"/> Hourly Standby <u>3/4 hr 325</u>	T-Out <u>10:00</u>
(F) Second Final Flow <u>282</u>	<input type="checkbox"/> Mileage <u>92RT 128.50</u>	Comments <u>Rig slipped & cut</u>
(G) Final Shut-In <u>1276</u>	<input checked="" type="checkbox"/> Sampler	<u>bad drilling line before</u>
(H) Final Hydrostatic <u>1883</u>	<input checked="" type="checkbox"/> Straddle	<u>starting in 22:45-2:30</u>

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>* 250</u>	<input checked="" type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby	Total <u>2153.50</u>
	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2153.50</u>	

Approved By Rocky Milford Our Representative James Winkler

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 13 2012

Test Ticket

NO. 45566

Well Name & No. Drake #1-22 BY: _____ Test No. 2 Date 2-8-12
 Company Murfin Drilling Co, Inc. Elevation 3014 KB 3009 GL _____
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 22 Twp. 5s Rge. 33w Co. Rawlins State KS

Interval Tested 3985-4037 Zone Tested LKC "E-6"
 Anchor Length 52 Drill Pipe Run 3788 Mud Wt. 9.2
 Top Packer Depth 3980 Drill Collars Run 187 Vis 52
 Bottom Packer Depth 3985 Wt. Pipe Run - WL 7.6
 Total Depth 4037 Chlorides 6200 ppm System LCM 7

Blow Description IF: 1/4" blow at open, surging blow built to 4 1/2" (Diesel in Bucket)
ISI: Bled off, Blowback at 11 min., built to about 1/8"
FF: Blow built to 8 1/2"
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>38</u>	<u>Mud</u>	-	-	<u>100</u>	<u>100</u>
<u>125</u>	<u>wcm</u>	-	-	<u>18</u>	<u>82</u>
<u>62</u>	<u>MW</u>	-	-	<u>55</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 225 BHT 120 Gravity - API RW .367 @ 53 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic 1942 Test 12-25 T-On Location 19:10
 (B) First Initial Flow 15 Jars _____ T-Started 19:54
 (C) First Final Flow 60 Safety Joint _____ T-Open 21:52
 (D) Initial Shut-In 1313 Circ Sub ANA T-Pulled 1:52
 (E) Second Initial Flow 66 Hourly Standby _____ T-Out 4:00
 (F) Second Final Flow 118 Mileage 92RT 12880 Comments _____
 (G) Final Shut-In 1313 Sampler _____
 (H) Final Hydrostatic 1922 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1353.80
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1353.80

Approved By Rocky Milford Our Representative James Winkler
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Test Ticket

NO. 45567

BY: _____

Well Name & No. Drake #1-22 Test No. 3 Date 2-9-12
 Company Murfin Drilling Co. Inc Elevation 3014 KB 3009 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 22 Twp. 5s Rge. 33w Co. Rawlins State KS

Interval Tested 4062 - 4118 Zone Tested LKC "Lower H-5"
 Anchor Length 56 Drill Pipe Run 3880 Mud Wt. 9.3
 Top Packer Depth 4057 Drill Collars Run 187 Vis 53
 Bottom Packer Depth 4062 Wt. Pipe Run - WL 8.0
 Total Depth 4118 Chlorides 6900 ppm System LCM 7
 Blow Description IF: Blow built to BOB (11") in 3 1/4 min. (Diesel in Bucket)
ISI: Bled off, No blowback
FF: Blow built to BOB in 3 1/2 min.
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>WM w/trace oil</u>	<u>trace</u>	<u>43</u>	<u>57</u>	
<u>315</u>	<u>MCW w/trace oil</u>	<u>trace</u>	<u>70</u>	<u>30</u>	
<u>945</u>	<u>Water</u>	<u>-</u>	<u>96</u>	<u>4</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1450 BHT 131 Gravity - API RW .292 @ 52.6 °F Chlorides 33,000 ppm

(A) Initial Hydrostatic 1954 Test 1225 T-On Location 15:45
 (B) First Initial Flow 142 Jars T-Started 16:31
 (C) First Final Flow 444 Safety Joint T-Open 18:33
 (D) Initial Shut-In 1308 Circ Sub *NA T-Pulled 22:04
 (E) Second Initial Flow 419 Hourly Standby T-Out 00:55
 (F) Second Final Flow 677 Mileage 92RT 128.80 Comments _____
 (G) Final Shut-In 1301 Sampler _____
 (H) Final Hydrostatic 1952 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 1353
 Day Standby _____ Total 1353
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1353.50

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

Approved By Rocky Milford Our Representative Jenna Winkler

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TRILOBITE TESTING INC.

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Test Ticket

NO. 45568

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FEB 15 2012

Well Name & No. Drake #1-22 BY: _____ Test No. 4 Date 2-11-12
 Company Murfin Drilling Co. Inc Elevation 3014 KB 3009 GL _____
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 22 Twp. 5s Rge. 33w Co. Rawlins State KS

Interval Tested 4308-4345 Zone Tested Lower Pawnee
 Anchor Length 37 Drill Pipe Run 4103 Mud Wt. ~~8.4~~ 9.4
 Top Packer Depth 4303 Drill Collars Run 187 Vis ~~80~~ 80
 Bottom Packer Depth 4308 Wt. Pipe Run - WL ~~7.6~~ 7.6
 Total Depth 4345 Chlorides 6900 ppm System LCM 8#

Blow Description IF: Blow built to BOB(11") in 16 1/2 min. (Diesel in Bucket)
ISI: Bled off, Blowback built to 1"
FF: Blow built to BOB in 20 1/2 min.
FSI: Bled off, Blowback built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>50/mcw</u>	<u>2</u>	<u>7</u>	<u>35</u>	<u>56</u>
<u>125</u>	<u>50/mcw</u>	<u>-</u>	<u>2</u>	<u>86</u>	<u>12</u>
<u>315</u>	<u>50 50mcw</u>	<u>-</u>	<u>1</u>	<u>94</u>	<u>5</u>
Rec	Feet of <u>G.I.P.=30'+</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 535 Fluid 30' GIP BHT 137 Gravity - API RW .267 @ 53.1 °F Chlorides 36,000 ppm

- (A) Initial Hydrostatic 2117
- (B) First Initial Flow 21
- (C) First Final Flow 137
- (D) Initial Shut-In 1193
- (E) Second Initial Flow 141
- (F) Second Final Flow 257
- (G) Final Shut-In 1169
- (H) Final Hydrostatic 2079

- Test * 1225'
 - Jars * 250'
 - Safety Joint * 75'
 - Circ Sub * NA
 - Hourly Standby ?
 - Mileage 92 RTX 2 257.60
 - Sampler
 - Straddle
 - Shale Packer
 - Extra Packer
 - Extra Recorder
 - Day Standby
 - Accessibility
- Sub Total 1807.60

T-On Location 123:45 2/10
 T-Started 16:27 3/11 16:25 3/11
 T-Open 18:23
 T-Pulled 22:26
 T-Out 1:15
 Comments Called and told me
Rig was going back in
to Recondition at 5 miles
from Rig/Start
out at
1:00
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1807.60
 MP/DST Disc't _____

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

Approved By Rocky Milford Our Representative James Winder
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TRILOBITE TESTING INC.

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Test Ticket

NO. 45569

RECEIVED
FEB 15 2012

Well Name & No. Drake #1-22 BY: _____ Test No. 5 Date 2-12-12
 Company Murfin Drilling Co. Inc. Elevation 3014 KB 3009 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 22 Twp. 5s Rge. 33w Co. Rawlins State KS

Interval Tested 4342 - 4402 Zone Tested Ft Scott - Celia
 Anchor Length 60 Drill Pipe Run 4134 Mud Wt. 9.2
 Top Packer Depth 4337 Drill Collars Run 187 Vis 45
 Bottom Packer Depth 4342 Wt. Pipe Run - WL 8.8
 Total Depth 4402 Chlorides 5400 ppm System LCM 6
 Blow Description IF: 1/2" surge blow, Bled off, Blow built to 1/8" in 15 min. on/off blow at 1/8"
ISI: Bled off, No blowback (Diesel in Bucket) till close
FF: on/off surface blow, dead after 18 min.
FSI: ~~Blow~~ No Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>58</u>	<u>Mud</u>			<u>100</u>	
	<u>Trace of Oil in Tool</u>				

Rec Total 58 BHT _____ Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2123</u>	<input type="checkbox"/> Test <u>* 1225"</u>	T-On Location <u>12:15</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>* 250"</u>	T-Started <u>13:36</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>* 75"</u>	T-Open <u>15:53</u>
(D) Initial Shut-In <u>82</u>	<input checked="" type="checkbox"/> Circ Sub <u>* NA</u>	T-Pulled <u>17:55</u>
(E) Second Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>19:50</u>
(F) Second Final Flow <u>40</u>	<input type="checkbox"/> Mileage <u>92RT 128.80</u>	Comments <u>Tool chased</u>
(G) Final Shut-In <u>63</u>	<input checked="" type="checkbox"/> Sampler	<u>2' to bottom at open</u>
(H) Final Hydrostatic <u>2088</u>	<input checked="" type="checkbox"/> Straddle	<u>- No mud loss at top</u>
	<input checked="" type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input checked="" type="checkbox"/> Day Standby	Total <u>1678.80</u>
	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1678.80</u>	

Approved By Rocky Milford Our Representative James Winkler
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