



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.21 @ 02:48:00

End Date: 2014.05.21 @ 10:42:30

Job Ticket #: 58167 DST #: 1

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

Printed: 2014.05.23 @ 10:00:15

Murfin Drilling Co., Inc.
23-1s-36w Rawlins KS
Burk Trust 'A' #4-23
DST # 1
LKC "D"
2014.05.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:41:45

Time Test Ended: 10:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4226.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 146.65 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 02:48:05

End Time:

10:42:29

Time On Btm:

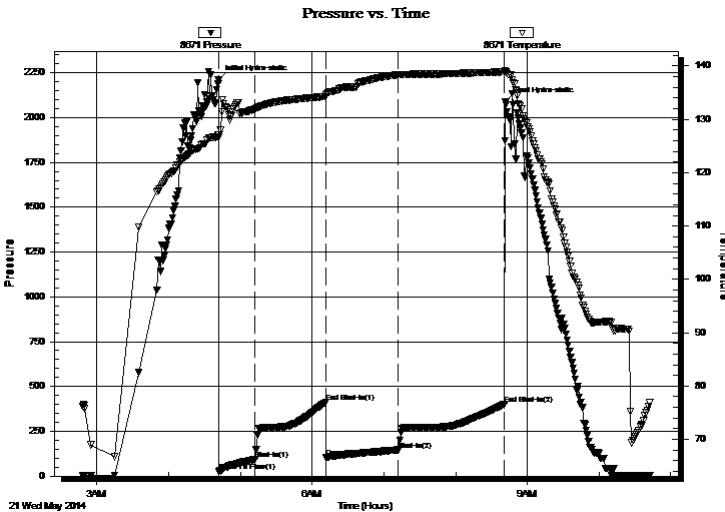
2014.05.21 @ 04:41:30

Time Off Btm:

2014.05.21 @ 08:41:45

TEST COMMENT: 30 - IF: Blow built to 9 1/2"
60 - IS: Blow back built to 1/8"
60 - FF: Blow built to BOB (11") at 60 min.
90 - FS: Weak blow back then died off

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.61	127.16	Initial Hydro-static
1	25.46	126.54	Open To Flow (1)
31	94.95	131.94	Shut-In(1)
90	411.69	134.30	End Shut-In(1)
91	104.74	134.51	Open To Flow (2)
151	146.65	138.38	Shut-In(2)
240	400.02	138.92	End Shut-In(2)
241	2087.27	138.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	SO/WCM 56% _m , 36% _w , 5% _g , 3% _o	0.58
118.00	OWCM 69% _m , 21% _w , 7% _o , 3% _g	0.86
25.00	MCO 63% _o , 35% _m , 2% _g	0.35
20.00	CO 92% _o , 6% _m , 2% _g	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:41:45

Time Test Ended: 10:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4226.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21 End Date: 2014.05.21

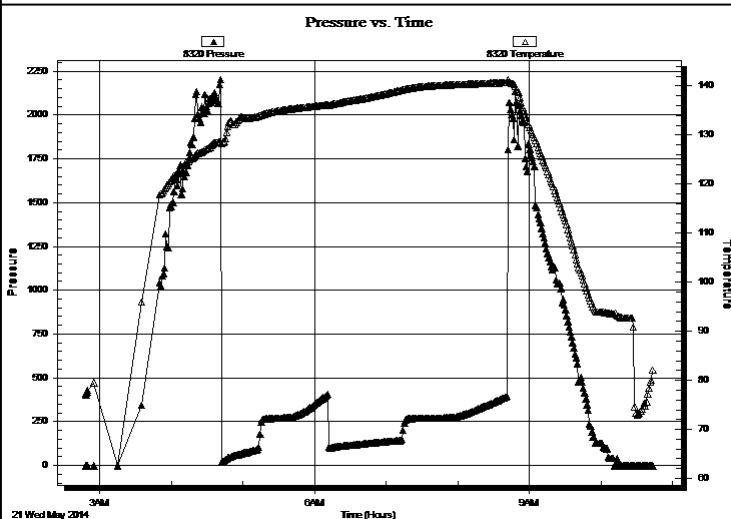
Last Calib.: 2014.05.21

Start Time: 02:48:05 End Time: 10:43:14

Time On Btm:

Time Off Btm:

TEST COMMENT:
30 - IF: Blow built to 9 1/2"
60 - ISI: Blow back built to 1/8"
60 - FF: Blow built to BOB (11") at 60 min.
90 - FS!: Weak blow back then died off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
117.00	SO/WCM 56%m, 36%w, 5%g, 3%o	0.58
118.00	OWCM 69%m, 21%w, 7%o, 3%g	0.86
25.00	MCO 63%o, 35%m, 2%g	0.35
20.00	CO 92%o, 6%m, 2%g	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

Tool Information

Drill Pipe:	Length: 4005.00 ft	Diameter: 3.80 inches	Volume: 56.18 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: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4226.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4203.00	
Hydraulic tool	5.00			4208.00	
Jars	5.00			4213.00	
Safety Joint	3.00			4216.00	
Packer	5.00			4221.00	28.00 Bottom Of Top Packer
Packer	5.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	8671	Inside	4227.00	
Recorder	0.00	8320	Outside	4227.00	
Perforations	15.00			4242.00	
Blank Spacing	33.00			4275.00	
Perforations	2.00			4277.00	
Bullnose	3.00			4280.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58167

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 02:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 5.59 in³
Resistivity: ohm.m
Salinity: 600.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 24 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	SO/WCM 56%m, 36%w, 5%g, 3%o	0.575
118.00	OWCM 69%m, 21%w, 7%o, 3%g	0.863
25.00	MCO 63%o, 35%m, 2%g	0.351
20.00	CO 92%o, 6%m, 2%g	0.281

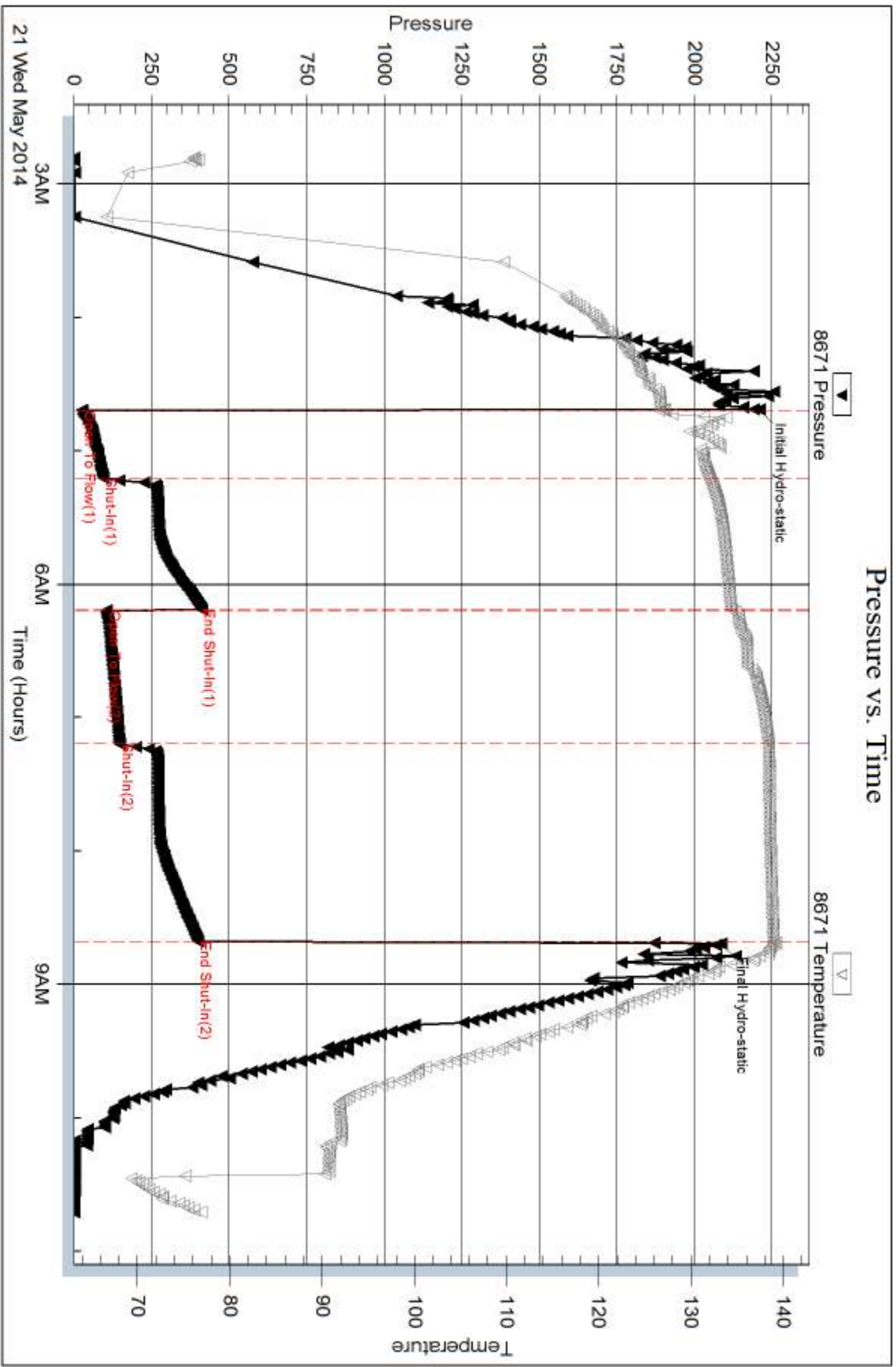
Total Length: 280.00 ft Total Volume: 2.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: LCM 10#

Gravity = 26 api @ 80 deg F Corrected Gravity = 24 api

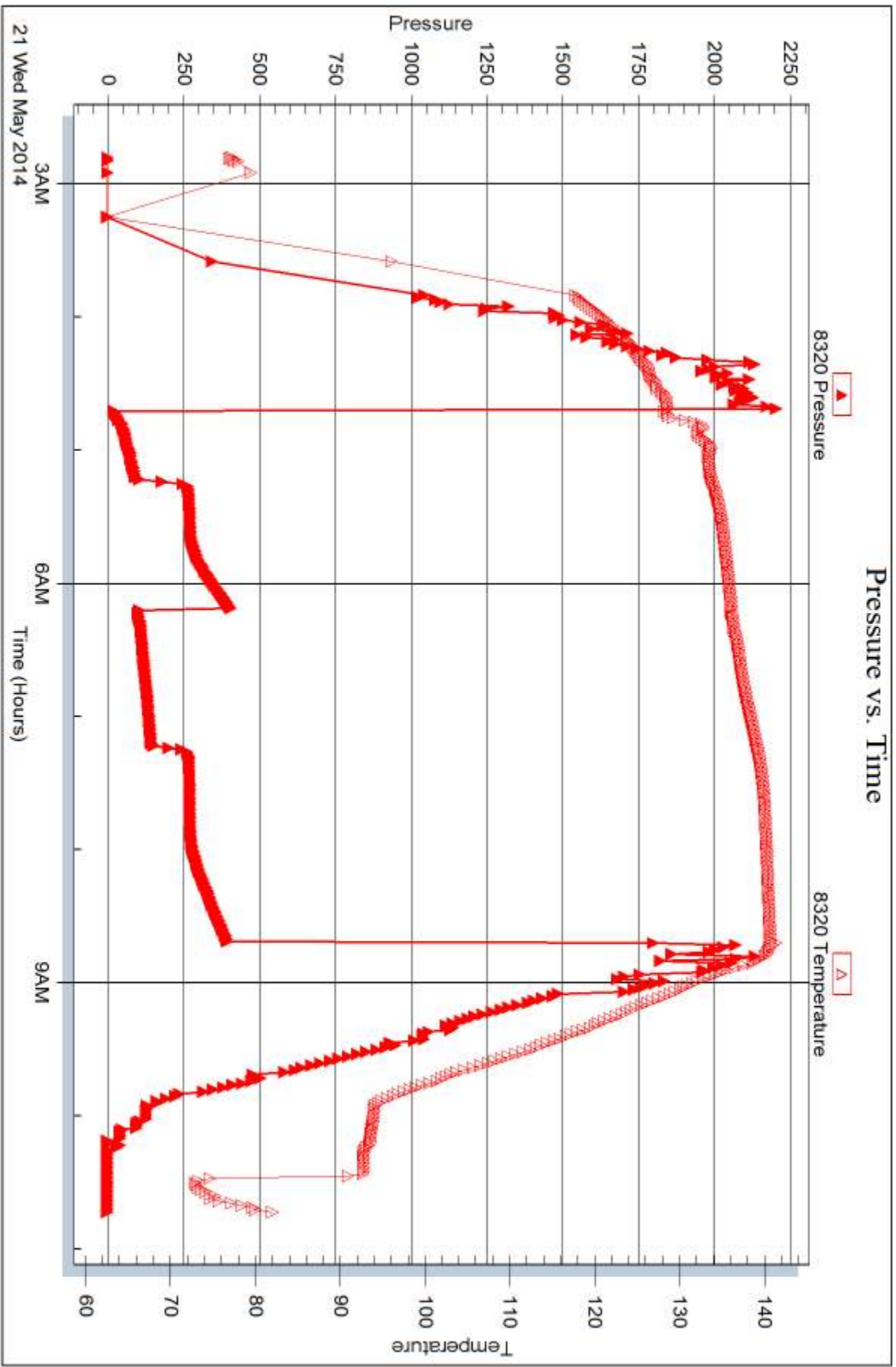


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58167

Printed: 2014.05.23 @ 10:00:16



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.21 @ 21:00:00

End Date: 2014.05.22 @ 04:41:15

Job Ticket #: 58168 DST #: 2

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

Printed: 2014.05.23 @ 09:50:11

Murfin Drilling Co., Inc.
23-1s-36w Rawlins KS
Burk Trust 'A' #4-23
DST # 2
LKC "G"
2014.05.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:32:45

Time Test Ended: 04:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4294.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 67.95 psig @ 4295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.22

Last Calib.:

2014.05.22

Start Time: 21:00:05

End Time:

04:41:14

Time On Btm:

2014.05.21 @ 22:32:15

Time Off Btm:

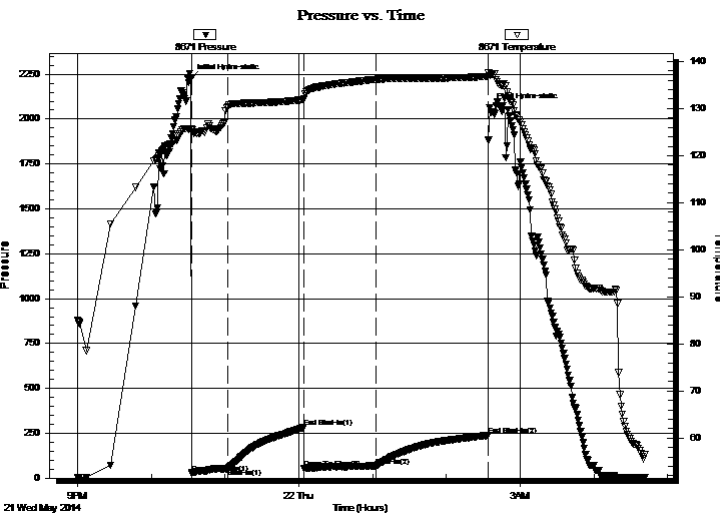
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TEST COMMENT: 30 - IF: Blow built to 4 1/2"

60 - IS: No blow back

60 - FF: Blow built to 6"

90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.67	125.75	Initial Hydro-static
1	26.51	124.95	Open To Flow (1)
30	53.18	130.36	Shut-In(1)
92	282.05	131.88	End Shut-In(1)
92	55.34	132.02	Open To Flow (2)
151	67.95	136.20	Shut-In(2)
242	237.62	136.83	End Shut-In(2)
243	2063.92	137.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	CO 91%o, 5%m, 4%g	0.22
80.00	OCM 67%m, 25%o, 8%g	0.39

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water STE 300
 Wichita, KS 67202
 ATTN: Robert Hendrix

23-1s-36w Rawlins KS
Burk Trust 'A' #4-23
 Job Ticket: 58168 **DST#: 2**
 Test Start: 2014.05.21 @ 21:00:00

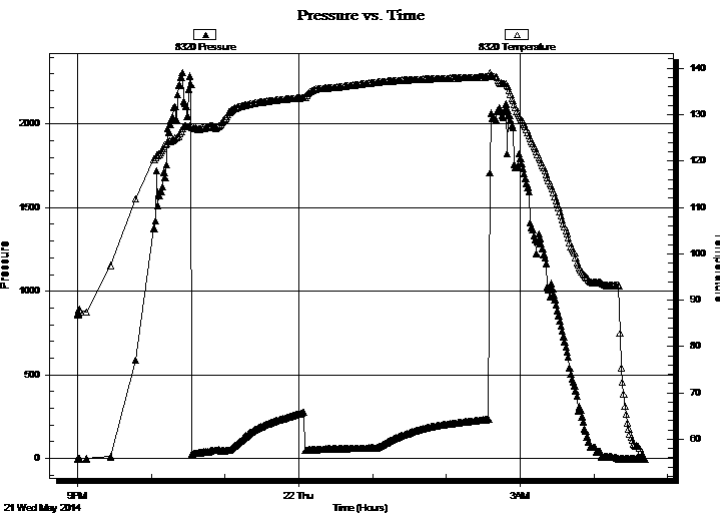
GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:32:45
 Time Test Ended: 04:41:15
 Interval: **4294.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: 4340.00 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: 3276.00 ft (KB)
 3265.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 4295.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.21 End Date: 2014.05.22 Last Calib.: 2014.05.22
 Start Time: 21:00:05 End Time: 04:41:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 4 1/2"
 60 - IS: No blow back
 60 - FF: Blow built to 6"
 90 - FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	CO 91%o, 5%m, 4%g	0.22
80.00	OCM 67%m, 25%o, 8%g	0.39

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.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4069.00 ft	Diameter: 3.80 inches	Volume: 57.08 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: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4294.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			4271.00	
Hydraulic tool	5.00			4276.00	
Jars	5.00			4281.00	
Safety Joint	3.00			4284.00	
Packer	5.00			4289.00	28.00 Bottom Of Top Packer
Packer	5.00			4294.00	
Stubb	1.00			4295.00	
Recorder	0.00	8671	Inside	4295.00	
Recorder	0.00	8320	Outside	4295.00	
Perforations	9.00			4304.00	
Blank Spacing	33.00			4337.00	
Bullnose	3.00			4340.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58168

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.05.21 @ 21:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	CO 91%o, 5%m, 4%g	0.221
80.00	OCM 67%m, 25%o, 8%g	0.393

Total Length: 125.00 ft Total Volume: 0.614 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 31.2 api @ 56 deg F

Corrected Gravity = 31.6 api

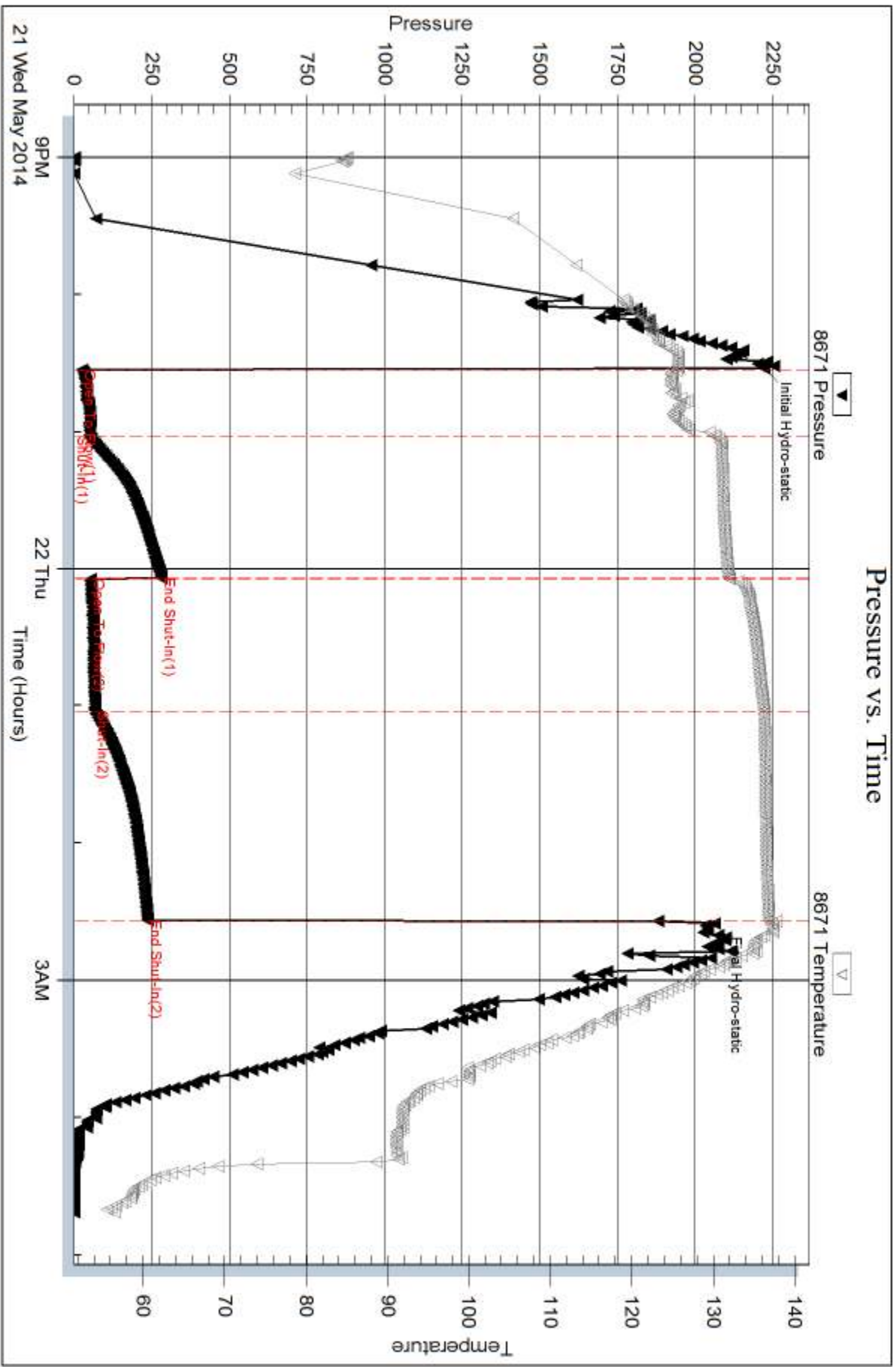
Serial #: 8671

Inside

Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58168

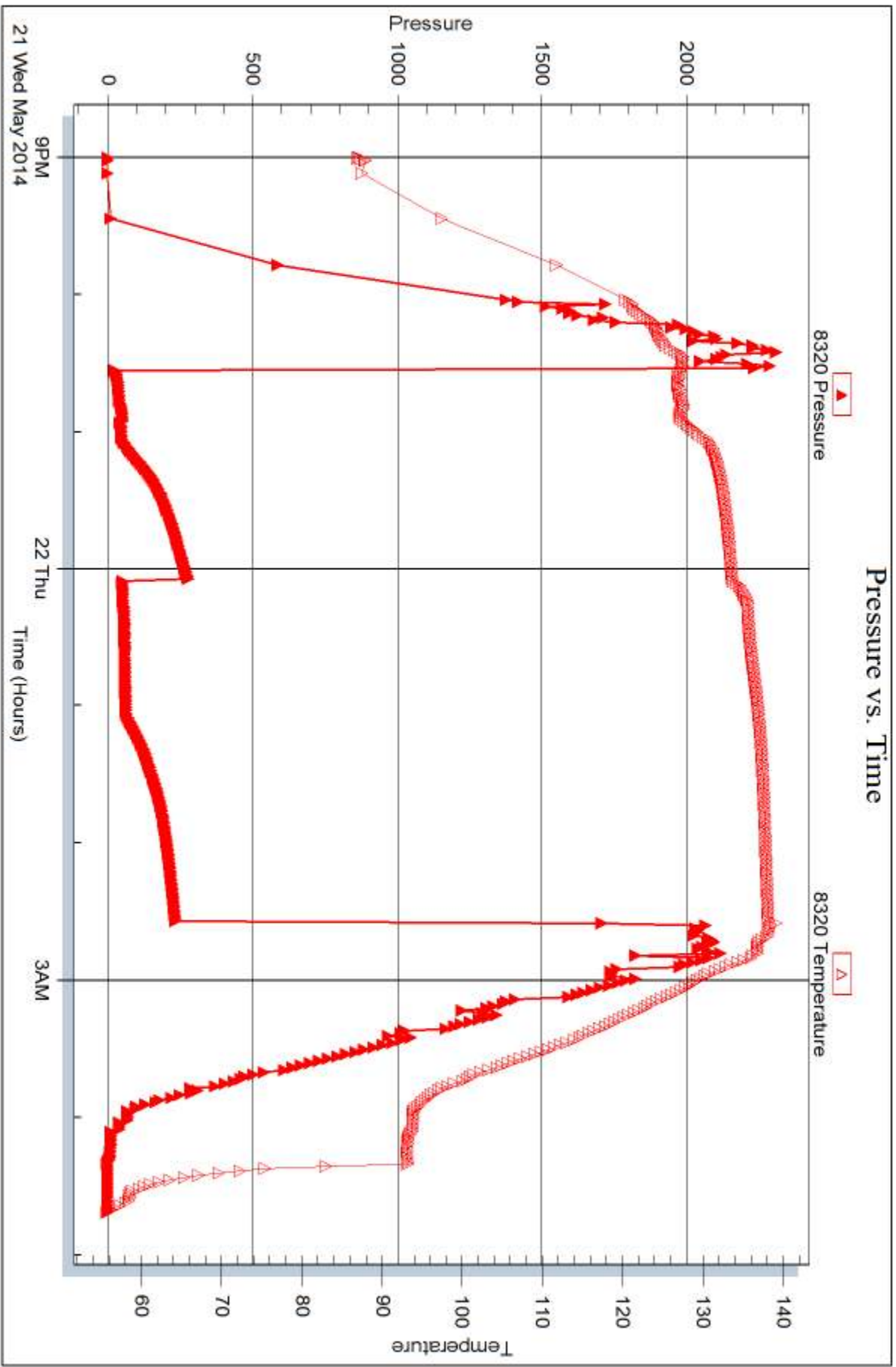
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Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58168

Printed: 2014.05.23 @ 09:50:12



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust 'A' #4-23

23-1s-36w Rawlins KS

Start Date: 2014.05.22 @ 17:08:00

End Date: 2014.05.23 @ 01:21:00

Job Ticket #: 58169 DST #: 3

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

Printed: 2014.05.23 @ 09:49:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:13:30

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4380.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 3276.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

3265.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8671

Inside

Press@RunDepth: 184.84 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22

End Date:

2014.05.23

Last Calib.:

2014.05.23

Start Time:

17:08:05

End Time:

01:20:59

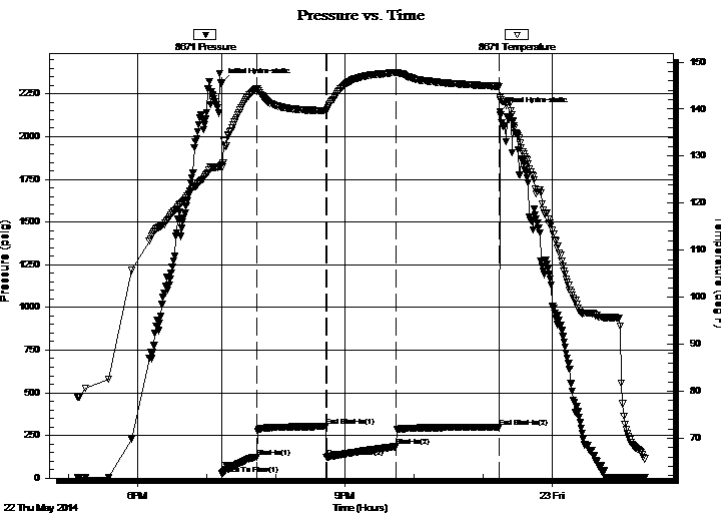
Time On Btm:

2014.05.22 @ 19:13:15

Time Off Btm:

2014.05.22 @ 23:15:00

TEST COMMENT: 30 - IF: Blow built to 9"
60 - IS: No blow back
60 - FF: Blow started at 8 min., built to 8"
90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.74	128.26	Initial Hydro-static
1	24.77	127.66	Open To Flow (1)
31	122.77	144.33	Shut-In(1)
91	302.08	139.67	End Shut-In(1)
91	121.63	139.70	Open To Flow (2)
151	184.84	147.82	Shut-In(2)
241	299.18	144.86	End Shut-In(2)
242	2145.88	142.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	MCW w/trace oil 83%w, 17%m	1.44
126.00	MW w/trace oil 60%w, 40%m	1.77

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.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

Tool Information

Drill Pipe:	Length: 4163.00 ft	Diameter: 3.80 inches	Volume: 58.40 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: 204.00 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4380.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			4357.00	
Hydraulic tool	5.00			4362.00	
Jars	5.00			4367.00	
Safety Joint	3.00			4370.00	
Packer	5.00			4375.00	28.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8671	Inside	4381.00	
Recorder	0.00	8320	Outside	4381.00	
Perforations	9.00			4390.00	
Blank Spacing	33.00			4423.00	
Perforations	4.00			4427.00	
Bullnose	3.00			4430.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'A' #4-23

Job Ticket: 58169

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.05.22 @ 17:08:00

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:

20000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
235.00	MCW w /trace oil 83%w , 17%m	1.438
126.00	MW w /trace oil 60%w , 40%m	1.767

Total Length: 361.00 ft Total Volume: 3.205 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .371 ohms @ 64.5 deg F

Chlorides = 20,000 ppm

Serial #: 8671

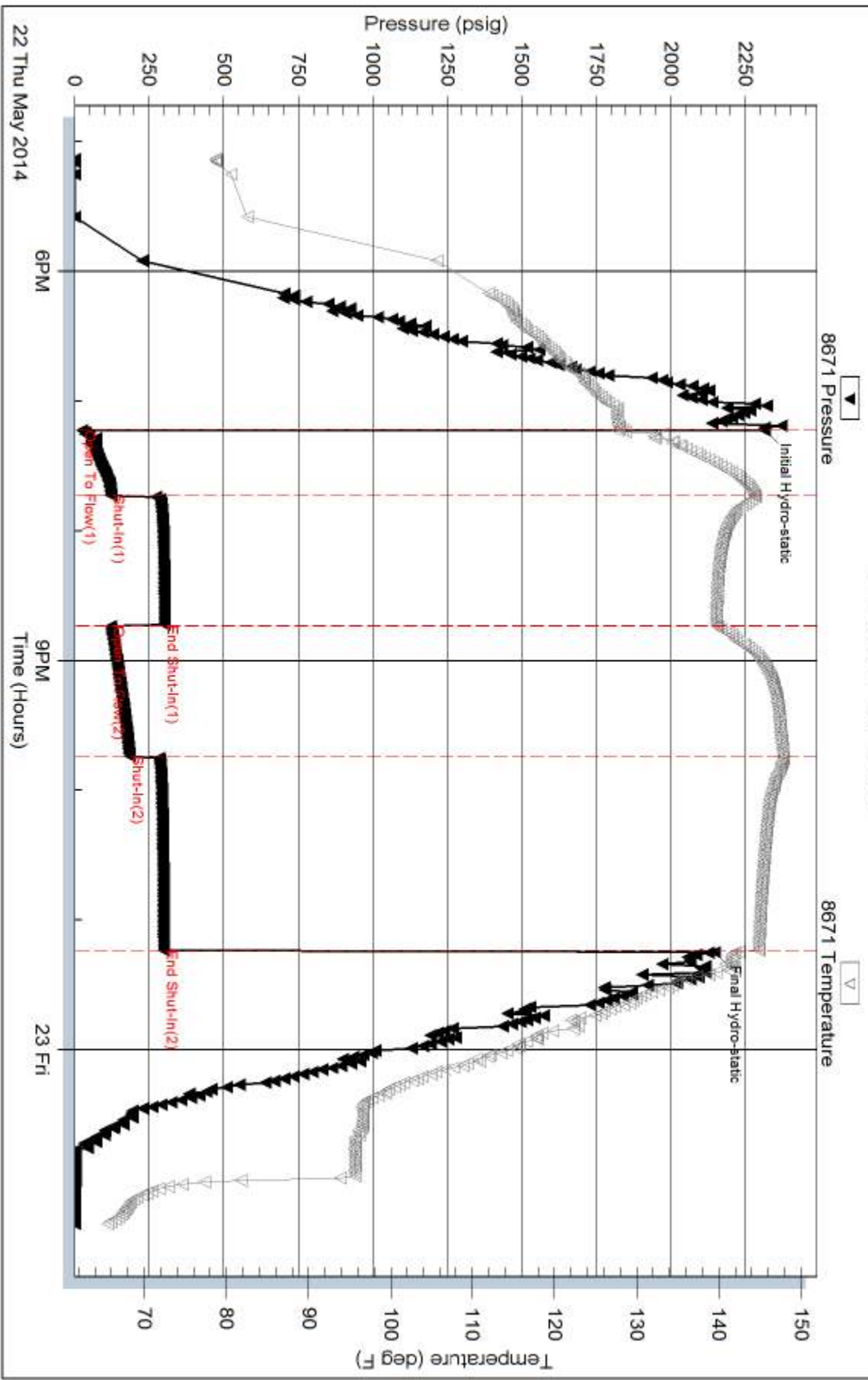
Inside

Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 58169

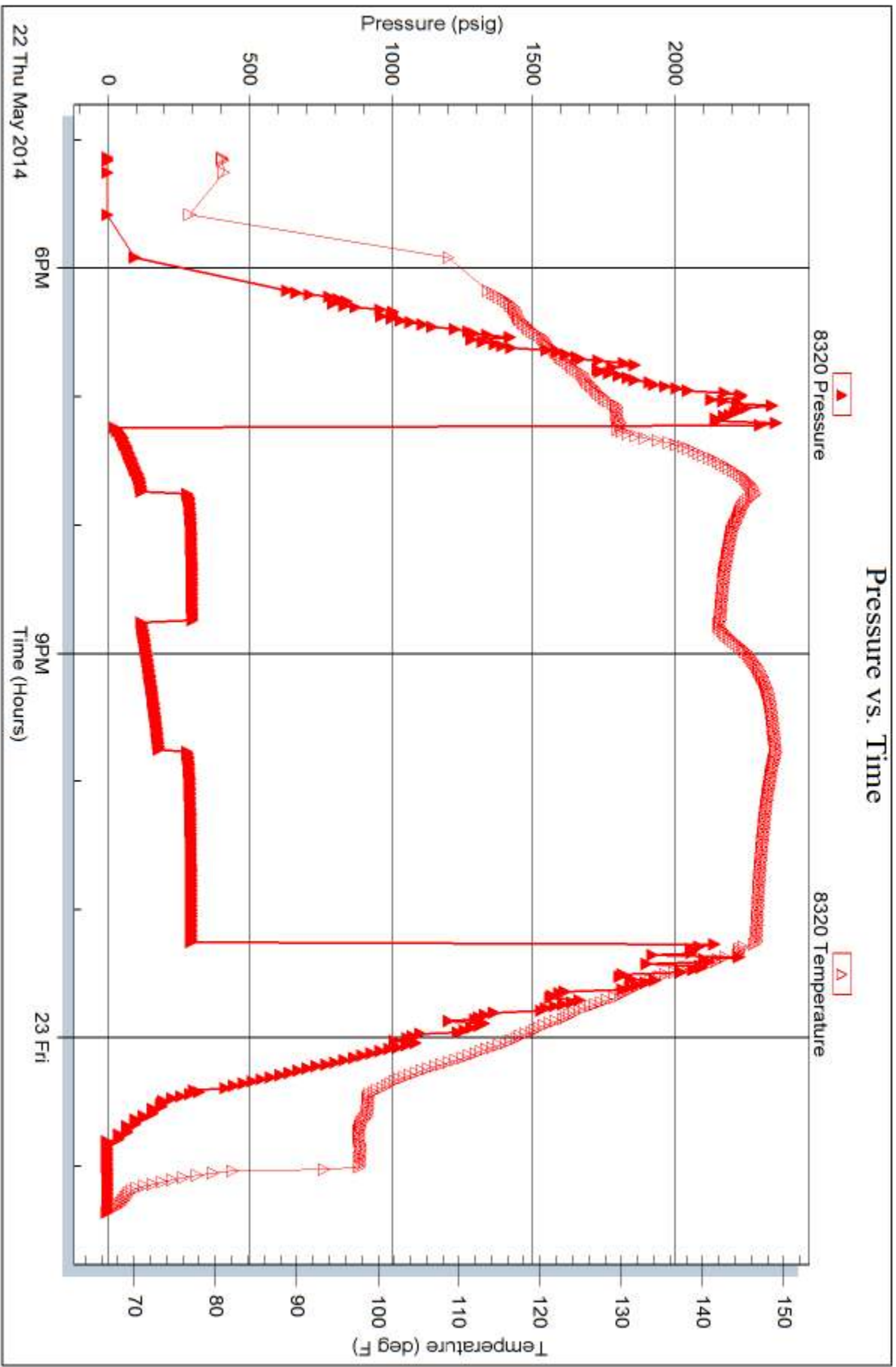
Printed: 2014.05.23 @ 09:49:22

Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'A' #4-23

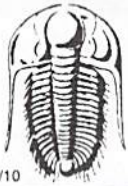
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58169

Printed: 2014.05.23 @ 09:49:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58167

4/10

Well Name & No. Burk Trust 'A' #4-23 Test No. 1 Date 5-21-14
 Company Murfin Drilling Co. Inc Elevation 3276 KB 3265 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 10S Rge. 36W Co. Rawlins State KS

Interval Tested 4226 - 4280 Zone Tested LKC "D"
 Anchor Length 54 Drill Pipe Run 4005 Mud Wt. 9.1
 Top Packer Depth 4221 Drill Collars Run 204 Vis 60
 Bottom Packer Depth 4226 Wt. Pipe Run - WL 5.6
 Total Depth 4280 Chlorides 600 ppm System LCM 10
 Blow Description IF: Blow built to 9 1/2"
ISI: Blowback built to 1/8"
FF: Blow built to BOB (11") at 60 min.
FSI: Weak blowback, then died off

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>CO</u>	<u>2</u>	<u>92</u>	<u>-</u>	<u>6</u>
<u>25</u>	<u>MCO</u>	<u>2</u>	<u>63</u>	<u>-</u>	<u>35</u>
<u>118</u>	<u>OWCM</u>	<u>3</u>	<u>7</u>	<u>21</u>	<u>69</u>
<u>117</u>	<u>SOWCM</u>	<u>5</u>	<u>3</u>	<u>36</u>	<u>56</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 280 BHT 139 Gravity 24 API RW @ ° F Chlorides ppm

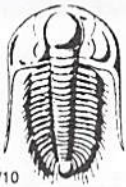
(A) Initial Hydrostatic 2210 Test 1250 T-On Location 1:15
 (B) First Initial Flow 25 Jars 250 T-Started 2:48
 (C) First Final Flow 95 Safety Joint 75 T-Open 4:41
 (D) Initial Shut-In 412 Circ Sub _____ T-Pulled 8:40
 (E) Second Initial Flow 105 Hourly Standby _____ T-Out 10:35
 (F) Second Final Flow 147 Mileage 108RT 167.40 Comments _____
 (G) Final Shut-In 400 Sampler _____
 (H) Final Hydrostatic 2087 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1742.40

Approved By [Signature] Our Representative James Winder

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58168

Well Name & No. Burk Trust 'A' #4-23 Test No. 2 Date 5-21-14
 Company Murfin Drilling Co Inc. Elevation 3276 KB 3265 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4294 - 4340 Zone Tested LKC "6"
 Anchor Length 46 Drill Pipe Run 4069 Mud Wt. 9.3
 Top Packer Depth 4289 Drill Collars Run 204 Vis 62
 Bottom Packer Depth 4294 Wt. Pipe Run - WL 6.0
 Total Depth 4340 Chlorides 1200 ppm System LCM 10

Blow Description IF: Blow built to 4'2"
ISI: No blowback
FF: Blow built to 6"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>CO</u>	<u>4</u>	<u>91</u>	<u>-</u>	<u>5</u>
<u>80</u>	<u>OCM</u>	<u>8</u>	<u>25</u>	<u>-</u>	<u>67</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125 BHT 137 Gravity 31.6 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2224 Test 1250 T-On Location 20:30 5/21
 (B) First Initial Flow 27 Jars 250 T-Started 21:00
 (C) First Final Flow 53 Safety Joint 75 T-Open 22:32
 (D) Initial Shut-In 282 Circ Sub _____ T-Pulled 2:34
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 4:30 5/22
 (F) Second Final Flow 68 Mileage 108 RT 167.40 Comments _____
 (G) Final Shut-In 238 Sampler _____
 (H) Final Hydrostatic 2064 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Sub Total 1742.40 Total 1742.40
 MP/DST Disc't _____

Approved By [Signature] Our Representative James Winde

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58169

Well Name & No. Burk Trust 'A' #4-23 Test No. 3 Date 5-22-14
 Company Murfin Drilling Co. Inc Elevation 3276 KB 3265 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4380 - 4430 Zone Tested LKC "J"
 Anchor Length 50 Drill Pipe Run 4163 Mud Wt. 9.3
 Top Packer Depth 4375 Drill Collars Run 204 Vis 57
 Bottom Packer Depth 4380 Wt. Pipe Run - WL 6.4
 Total Depth 4430 Chlorides 1200 ppm System LCM 7
 Blow Description IF: Blow built to 9"
ISI: No blowback
FF: Blow started at 8min., built to 8"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>MW w/trace of oil</u>	<u>trace</u>	<u>60</u>	<u>40</u>	
<u>235</u>	<u>MCW w/trace of oil</u>	<u>trace</u>	<u>83</u>	<u>17</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 361 BHT 145 Gravity _____ API RW .371 @ 64.5° F Chlorides 20,000 ppm

(A) Initial Hydrostatic <u>2314</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>16:15</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:08</u>
(C) First Final Flow <u>123</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:13</u>
(D) Initial Shut-In <u>302</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:14</u>
(E) Second Initial Flow <u>122</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:15</u>
(F) Second Final Flow <u>185</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> <u>167.40</u>	Comments _____
(G) Final Shut-In <u>299</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2146</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>1742.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1742.40</u>	

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

Approved By [Signature]

Our Representative James Winder

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