



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.22 @ 02:24:00

End Date: 2014.06.22 @ 09:19:30

Job Ticket #: 58319 DST #: 1

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

Printed: 2014.06.27 @ 15:30:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:26:45

Time Test Ended: 09:19:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4024.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 16.98 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.22

End Date:

2014.06.22

Last Calib.:

2014.06.22

Start Time: 02:24:05

End Time:

09:19:29

Time On Btm:

2014.06.22 @ 04:26:30

Time Off Btm:

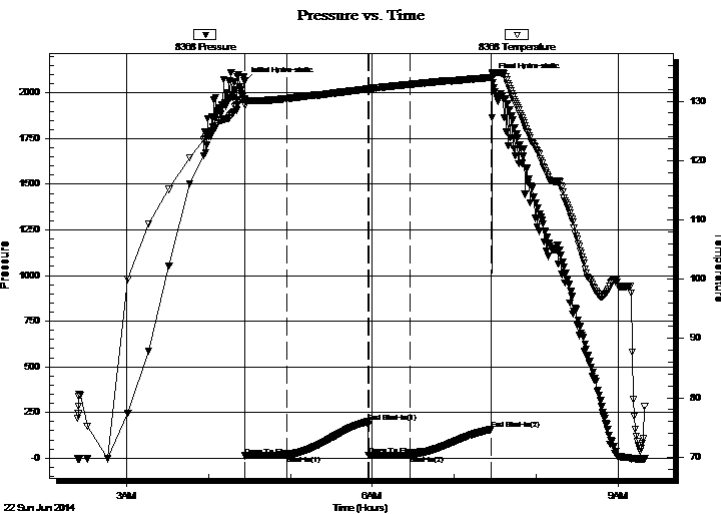
2014.06.22 @ 07:28:00

TEST COMMENT: 30 - IF - Weak Surface Blow

60 - ISI - No Return

30 - FF - No Surface Blow

60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.73	130.37	Initial Hydro-static
1	13.15	129.31	Open To Flow (1)
31	16.06	130.44	Shut-In(1)
91	199.46	132.05	End Shut-In(1)
91	16.14	132.09	Open To Flow (2)
122	16.98	132.84	Shut-In(2)
181	158.07	134.00	End Shut-In(2)
182	2084.28	134.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

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 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

Tool Information

Drill Pipe:	Length: 3820.82 ft	Diameter: 3.80 inches	Volume: 53.60 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.28 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4024.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			4002.00	
Hydraulic tool	5.00			4007.00	
Jars	5.00			4012.00	
Safety Joint	3.00			4015.00	
Packer	4.00			4019.00	27.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Stubb	1.00			4025.00	
Recorder	0.00	8368	Inside	4025.00	
Recorder	0.00	6753	Inside	4025.00	
Perforations	18.00			4043.00	
Change Over Sub	1.00			4044.00	
Drill Pipe	31.00			4075.00	
Change Over Sub	1.00			4076.00	
Bullnose	4.00			4080.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**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 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

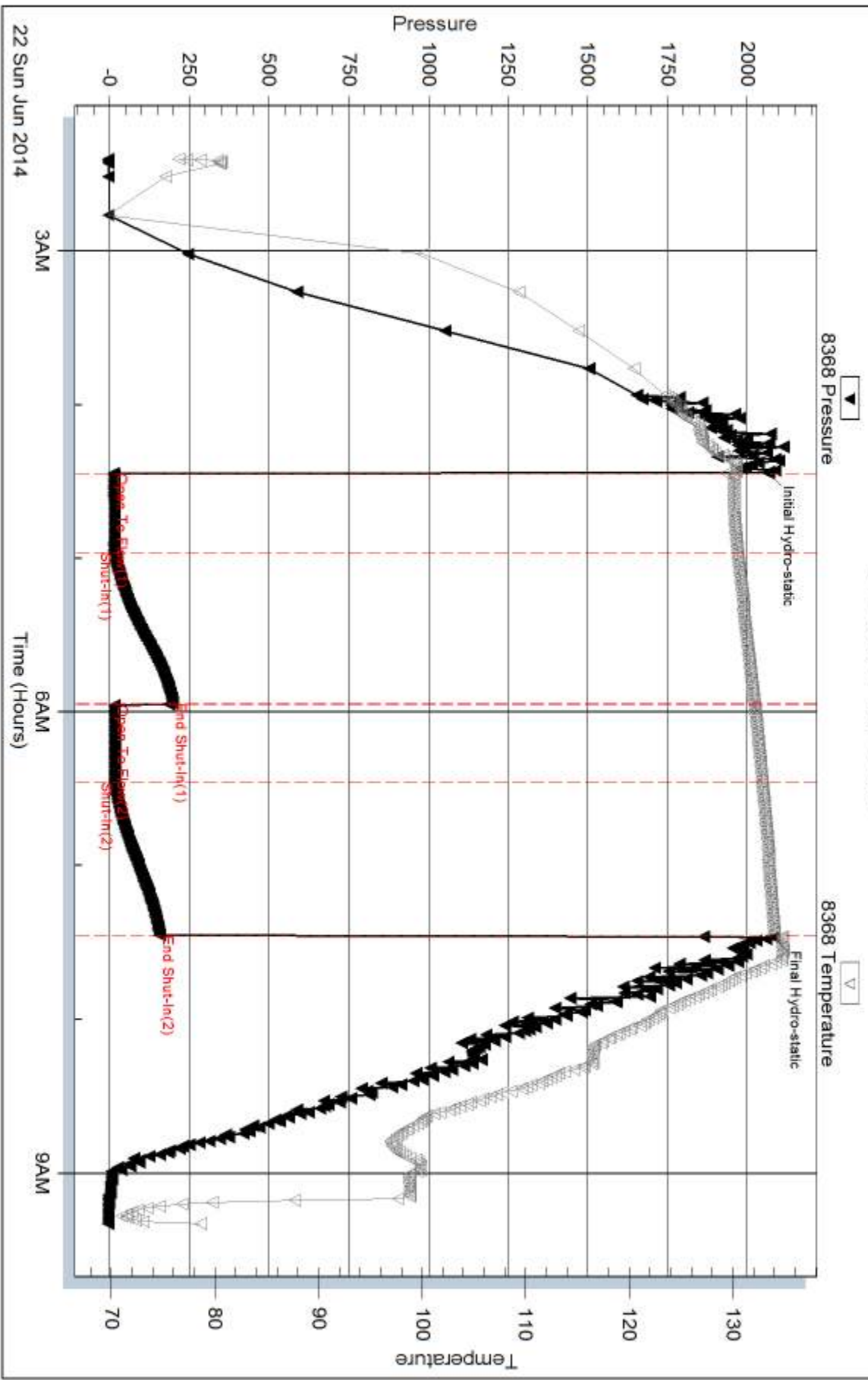
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



22 Sun Jun 2014

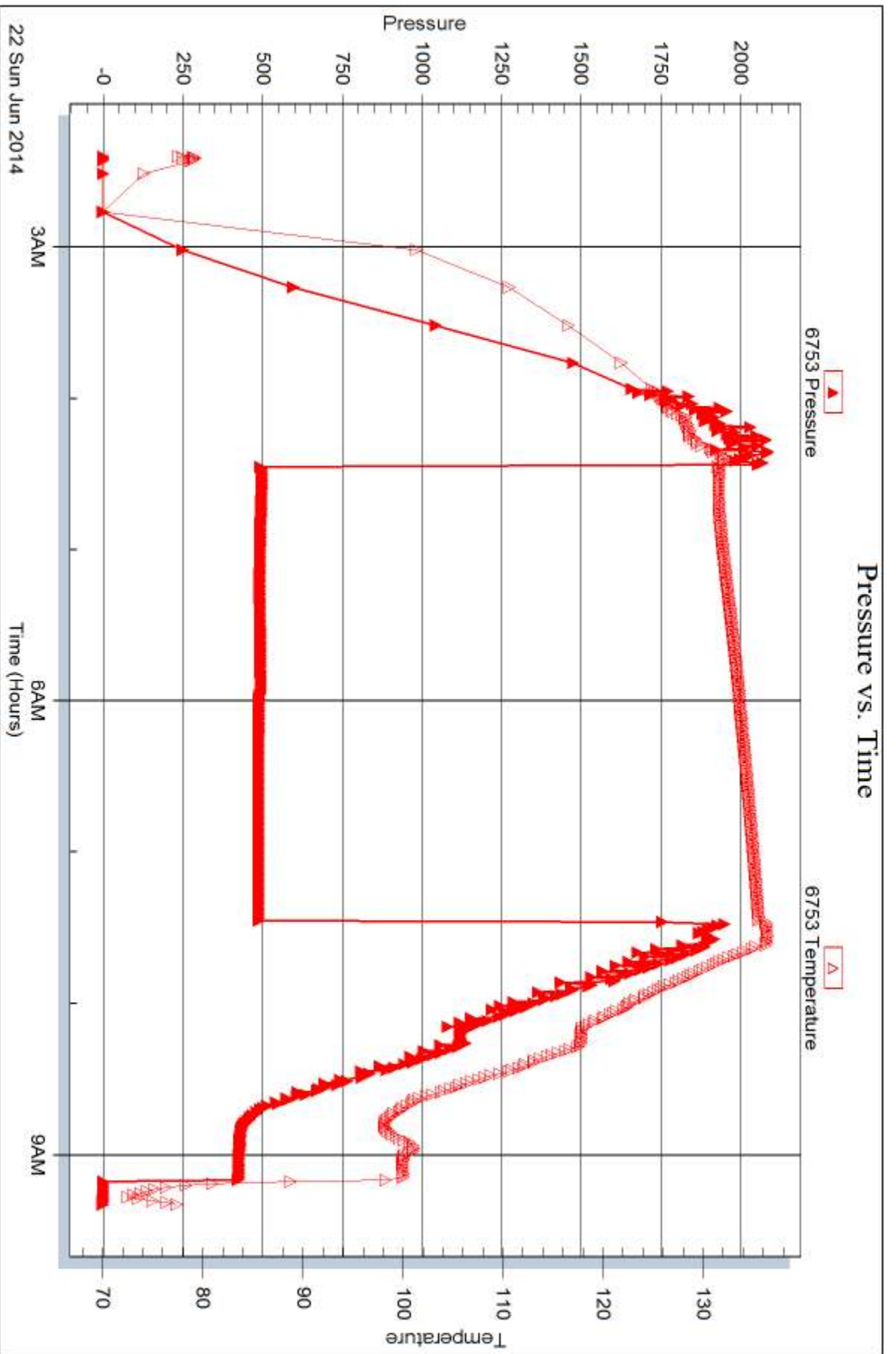
Serial #: 6753

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58319

Printed: 2014.06.27 @ 15:30:23



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.23 @ 00:18:00

End Date: 2014.06.23 @ 09:08:45

Job Ticket #: 58320 DST #: 2

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

Printed: 2014.06.27 @ 15:29:31

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

Burk Trust "D" #3-23

DST # 2

LKC - 'B-D'

2014.06.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

GENERAL INFORMATION:

Formation: **LKC - 'B-D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:15

Time Test Ended: 09:08:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4170.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 134.64 psig @ 4171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.23

Last Calib.:

2014.06.22

Start Time: 00:18:05

End Time:

09:08:45

Time On Btm:

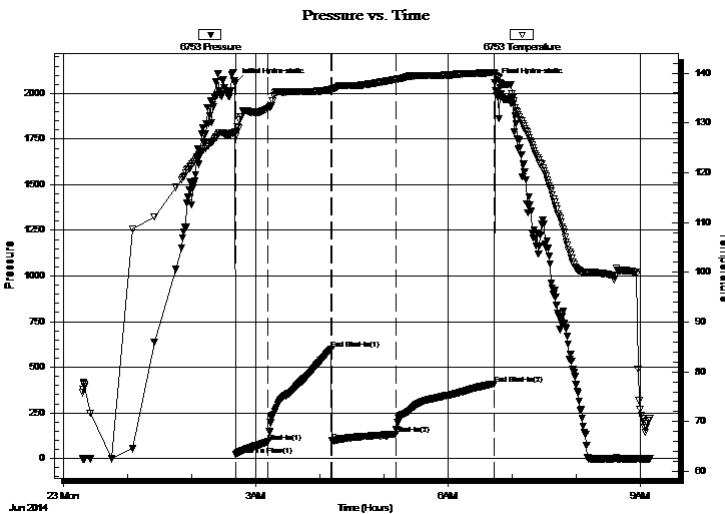
2014.06.23 @ 02:41:00

Time Off Btm:

2014.06.23 @ 06:43:45

TEST COMMENT: 30 - IF - Surface Blow built to 9"
60 - ISI - No Return
60 - FF - Surface Blow built to 9 1/2"
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.81	128.25	Initial Hydro-static
1	20.38	127.35	Open To Flow (1)
31	90.73	132.93	Shut-In(1)
90	601.18	136.65	End Shut-In(1)
91	97.56	136.43	Open To Flow (2)
150	134.64	138.72	Shut-In(2)
242	409.37	140.15	End Shut-In(2)
243	2061.40	139.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	OCWM - 65M - 20W - 15o	0.93
63.00	OCWM - 60M - 15W - 25o	0.75
31.00	Free Oil	0.43

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 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

Tool Information

Drill Pipe:	Length: 3947.84 ft	Diameter: 3.80 inches	Volume: 55.38 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 56.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.30 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4170.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	3.00			4161.00	
Packer	4.00			4165.00	27.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	8368	Inside	4171.00	
Recorder	0.00	6753	Inside	4171.00	
Perforations	18.00			4189.00	
Change Over Sub	1.00			4190.00	
Drill Pipe	31.00			4221.00	
Change Over Sub	1.00			4222.00	
Bullnose	4.00			4226.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**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 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	OCWM - 65M - 20W - 15o	0.929
63.00	OCWM - 60M - 15W - 25o	0.752
31.00	Free Oil	0.435

Total Length: 283.00 ft Total Volume: 2.116 bbl

Num Fluid Samples: 0

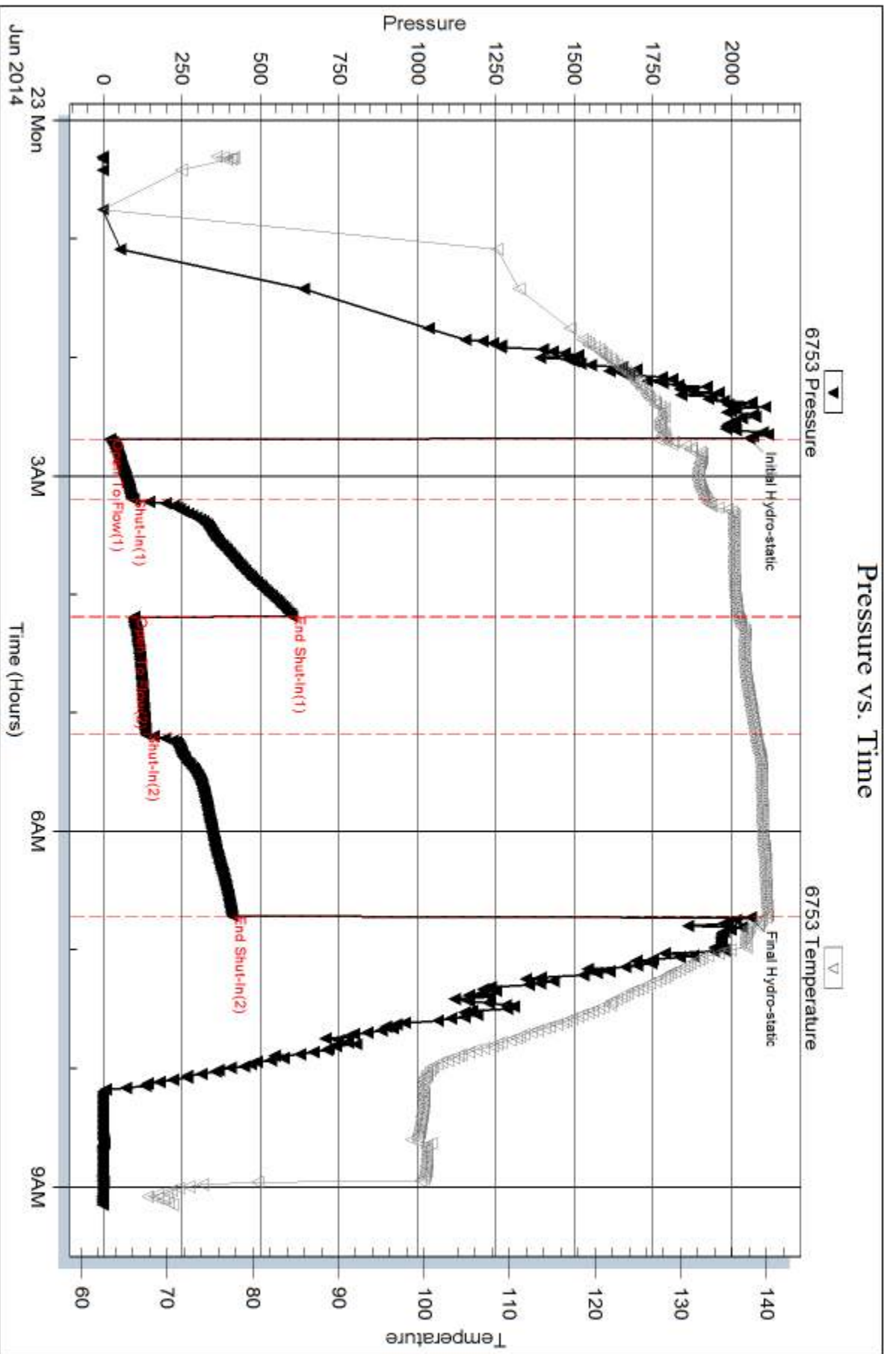
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



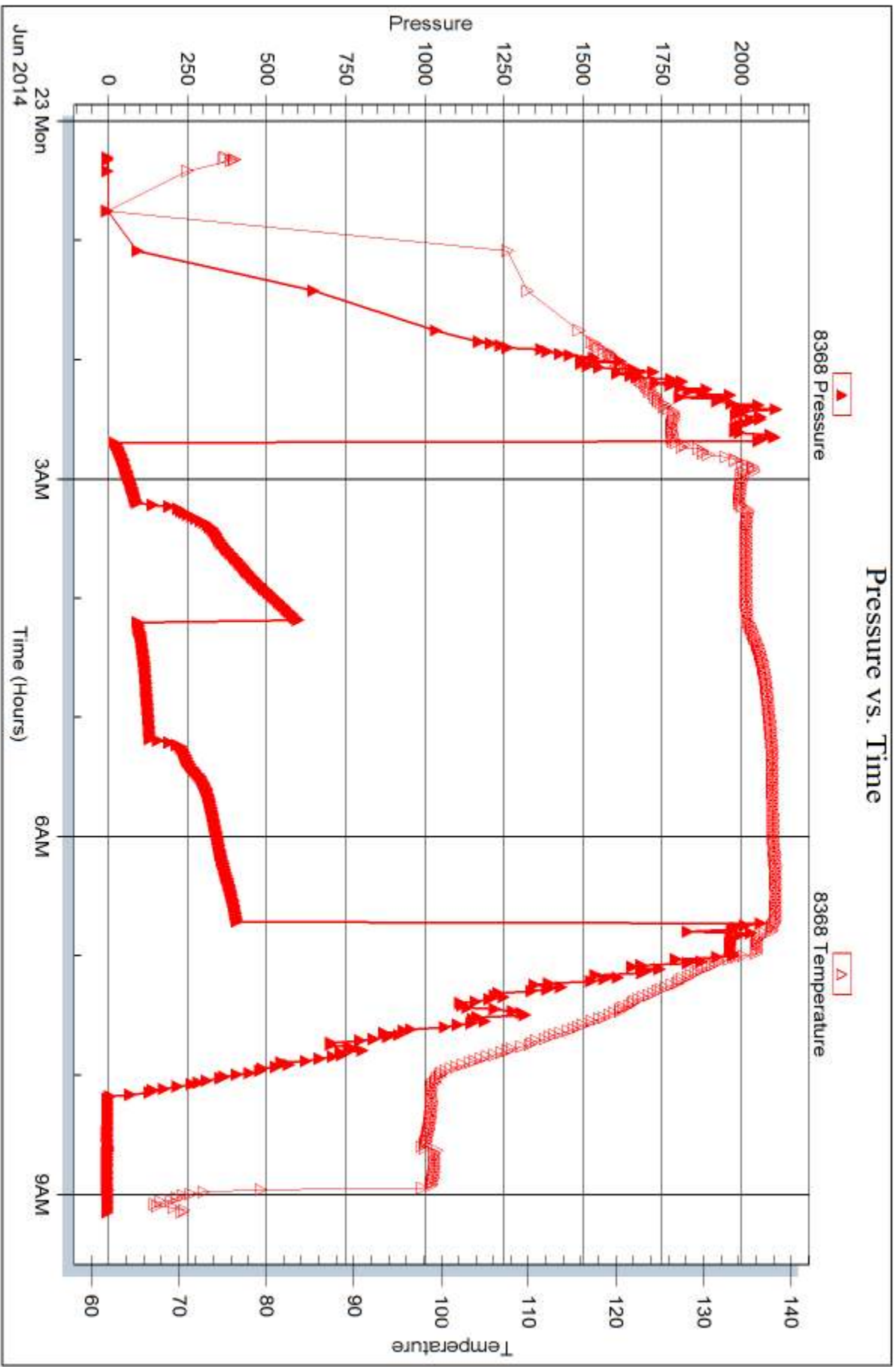
Serial #: 8368

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.23 @ 18:58:00

End Date: 2014.06.24 @ 03:46:30

Job Ticket #: 58321 DST #: 3

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

Printed: 2014.06.27 @ 15:28:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

GENERAL INFORMATION:

Formation: **LKC - 'G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:00

Time Test Ended: 03:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4238.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 97.75 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.24

Last Calib.:

2014.06.24

Start Time: 18:58:05

End Time:

03:46:30

Time On Btm:

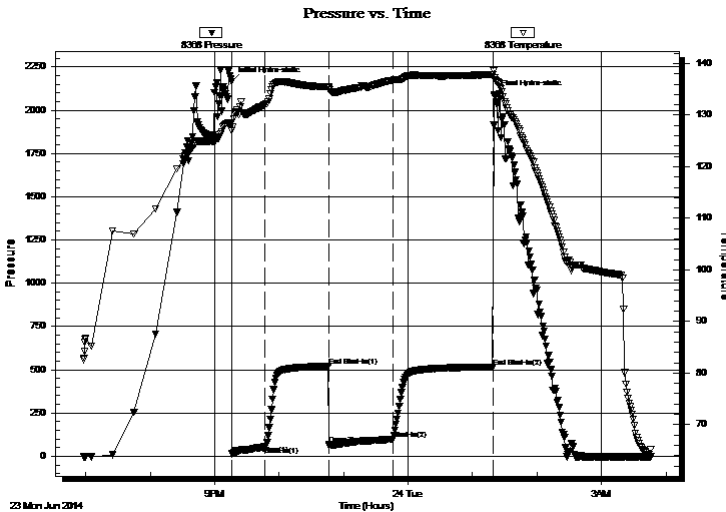
2014.06.23 @ 21:15:45

Time Off Btm:

2014.06.24 @ 01:20:30

TEST COMMENT: 30 - IF - Surface Blow built up to 8 1/2 inches
60 - ISI - No Return
60 - FF - Surface Blow built to bottom of the bucket in 44 minutes
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.10	128.50	Initial Hydro-static
1	14.24	127.03	Open To Flow (1)
31	55.00	132.06	Shut-In(1)
91	520.83	135.47	End Shut-In(1)
91	66.86	135.20	Open To Flow (2)
150	97.75	136.75	Shut-In(2)
243	516.84	137.89	End Shut-In(2)
245	2090.32	137.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM - 65M - 35o	0.31
140.00	Free Oil	0.69

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 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

Tool Information

Drill Pipe:	Length: 4009.86 ft	Diameter: 3.80 inches	Volume: 56.25 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.32 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4238.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4216.00	
Hydraulic tool	5.00			4221.00	
Jars	5.00			4226.00	
Safety Joint	3.00			4229.00	
Packer	4.00			4233.00	27.00 Bottom Of Top Packer
Packer	5.00			4238.00	
Stubb	1.00			4239.00	
Recorder	0.00	8368	Inside	4239.00	
Recorder	0.00	6753	Inside	4239.00	
Perforations	14.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	31.00			4285.00	
Change Over Sub	1.00			4286.00	
Bullnose	4.00			4290.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**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 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OCM - 65M - 35o	0.310
140.00	Free Oil	0.688

Total Length: 203.00 ft

Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

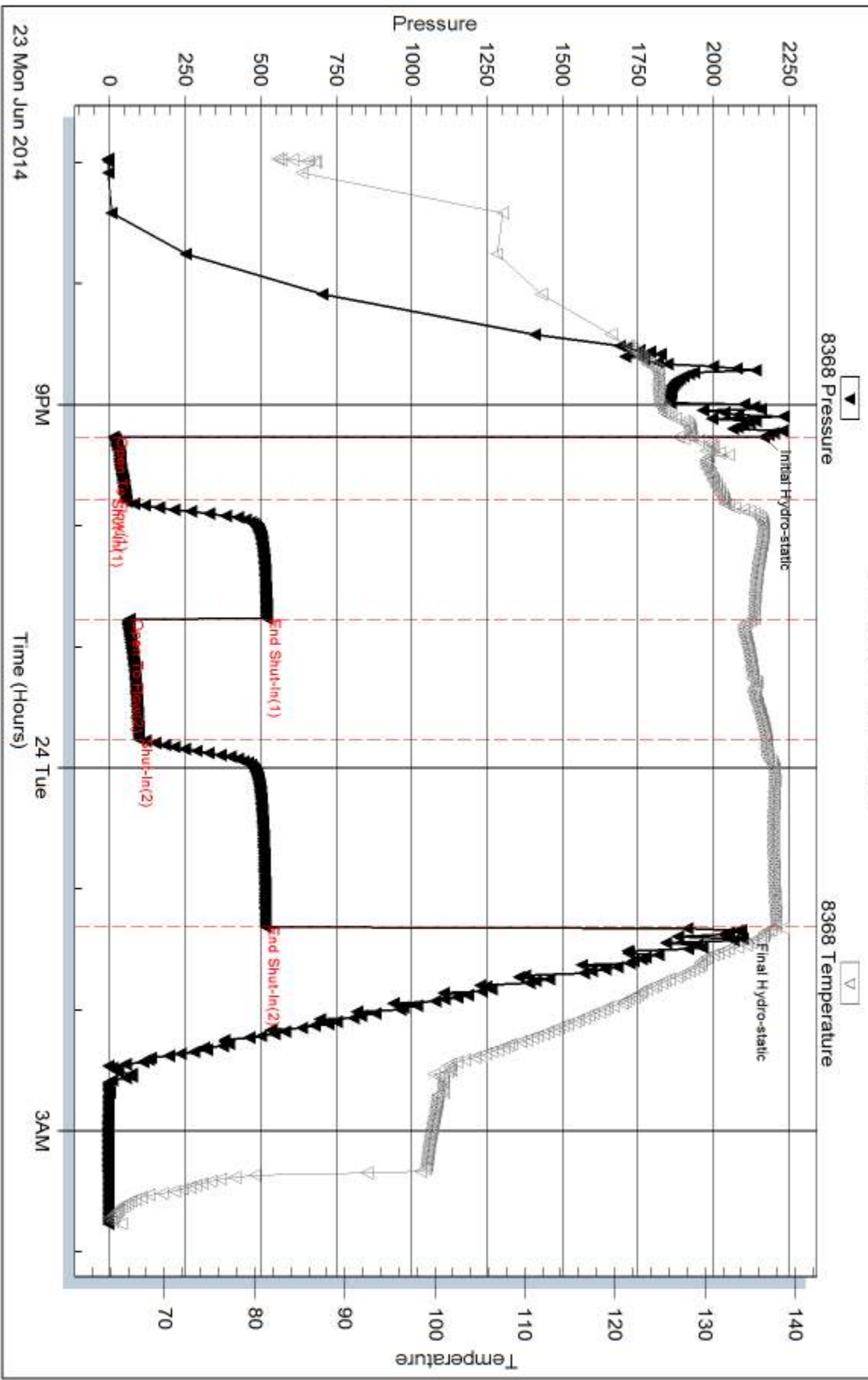
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



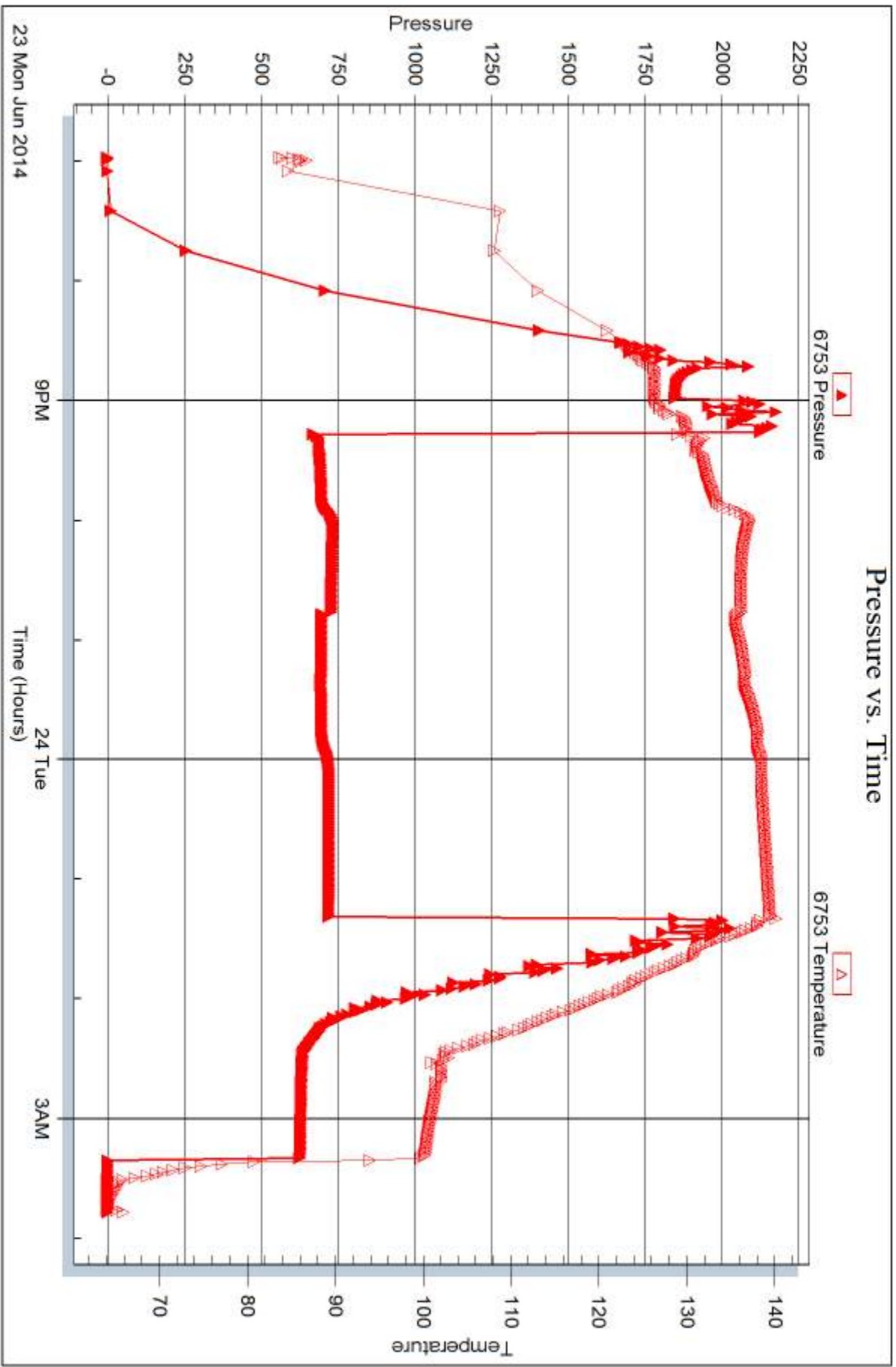
Serial #: 6753

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 58321

Printed: 2014.06.27 @ 15:28:58



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.25 @ 00:52:00

End Date: 2014.06.25 @ 08:39:30

Job Ticket #: 58322 DST #: 4

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

Printed: 2014.06.27 @ 15:27:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

GENERAL INFORMATION:

Formation: **LKC - 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:00

Time Test Ended: 08:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4326.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 22.41 psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.25

End Date:

2014.06.25

Last Calib.:

2014.06.25

Start Time: 00:52:05

End Time:

08:39:29

Time On Btm:

2014.06.25 @ 03:19:45

Time Off Btm:

2014.06.25 @ 06:20:30

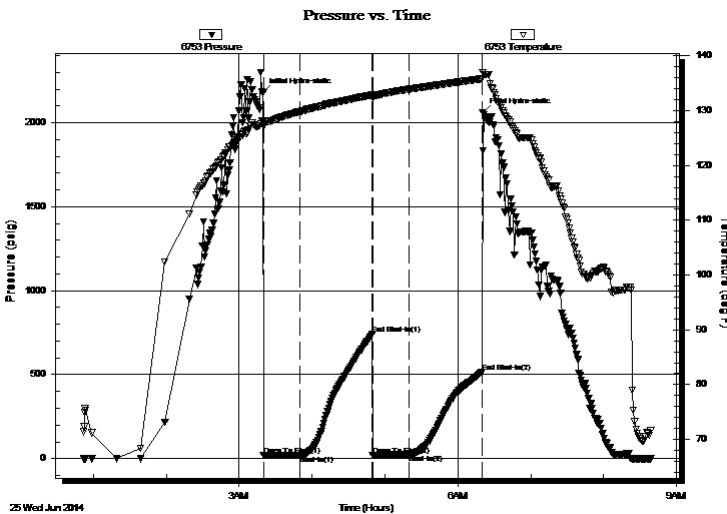
TEST COMMENT: 30 - IF - Surface blow started off with weak surface and died off after twenty minutes

60 - ISI - No Return

60 - FF - No Surface Blow

90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.08	128.21	Initial Hydro-static
1	17.75	127.19	Open To Flow (1)
31	20.56	129.85	Shut-In(1)
90	740.11	132.89	End Shut-In(1)
91	20.40	132.40	Open To Flow (2)
120	22.41	133.93	Shut-In(2)
180	514.28	135.82	End Shut-In(2)
181	2060.19	137.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

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 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

Tool Information

Drill Pipe:	Length: 4104.44 ft	Diameter: 3.80 inches	Volume: 57.57 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 58.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.90 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4326.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			4304.00	
Hydraulic tool	5.00			4309.00	
Jars	5.00			4314.00	
Safety Joint	3.00			4317.00	
Packer	4.00			4321.00	27.00 Bottom Of Top Packer
Packer	5.00			4326.00	
Stubb	1.00			4327.00	
Recorder	0.00	8368	Inside	4327.00	
Recorder	0.00	6753	Inside	4327.00	
Perforations	26.00			4353.00	
Change Over Sub	1.00			4354.00	
Drill Pipe	31.00			4385.00	
Change Over Sub	1.00			4386.00	
Bullnose	4.00			4390.00	64.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**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 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud	0.015

Total Length: 3.00 ft

Total Volume: bbl

Num Fluid Samples: 0

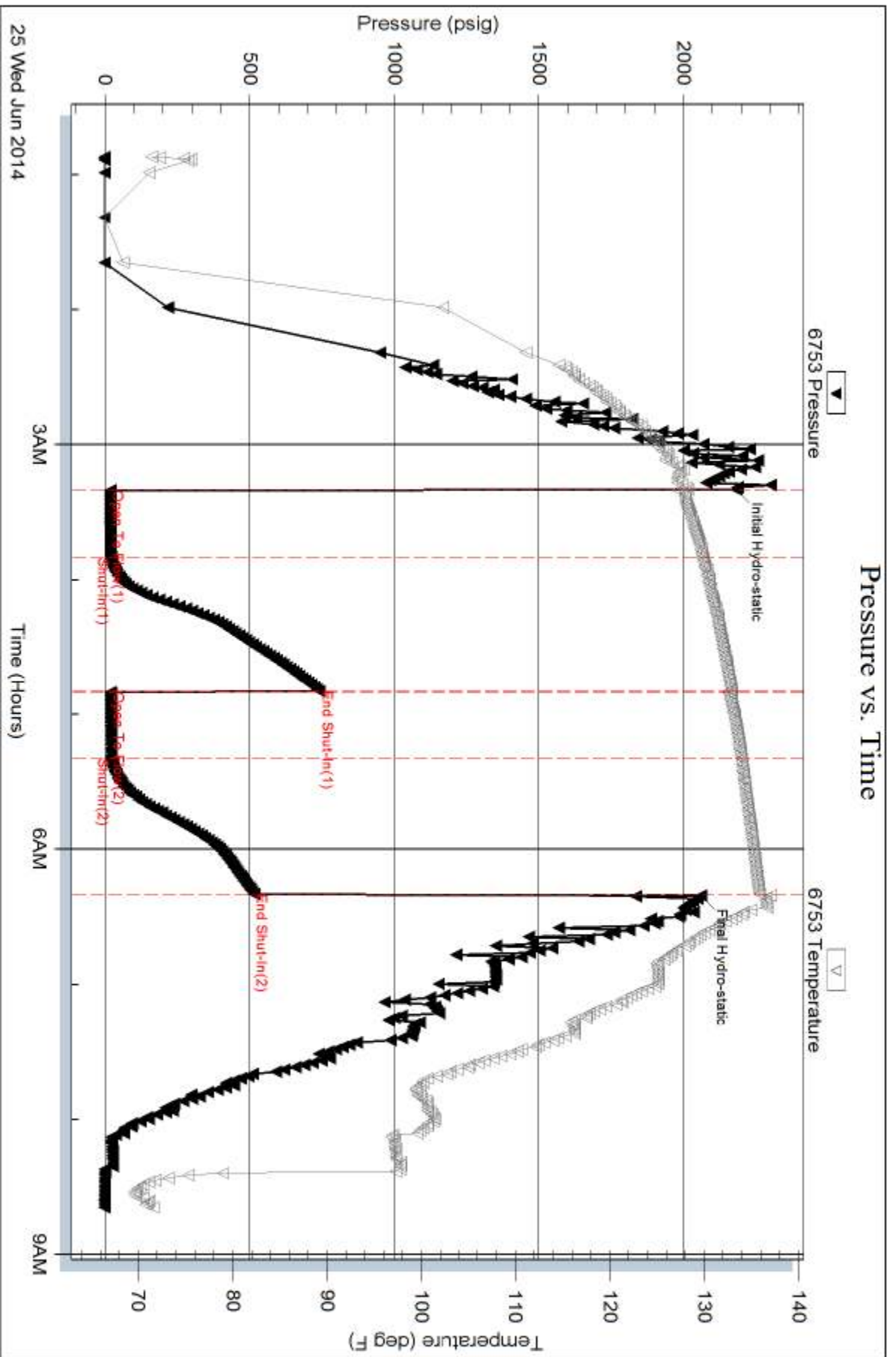
Num Gas Bombs: 0

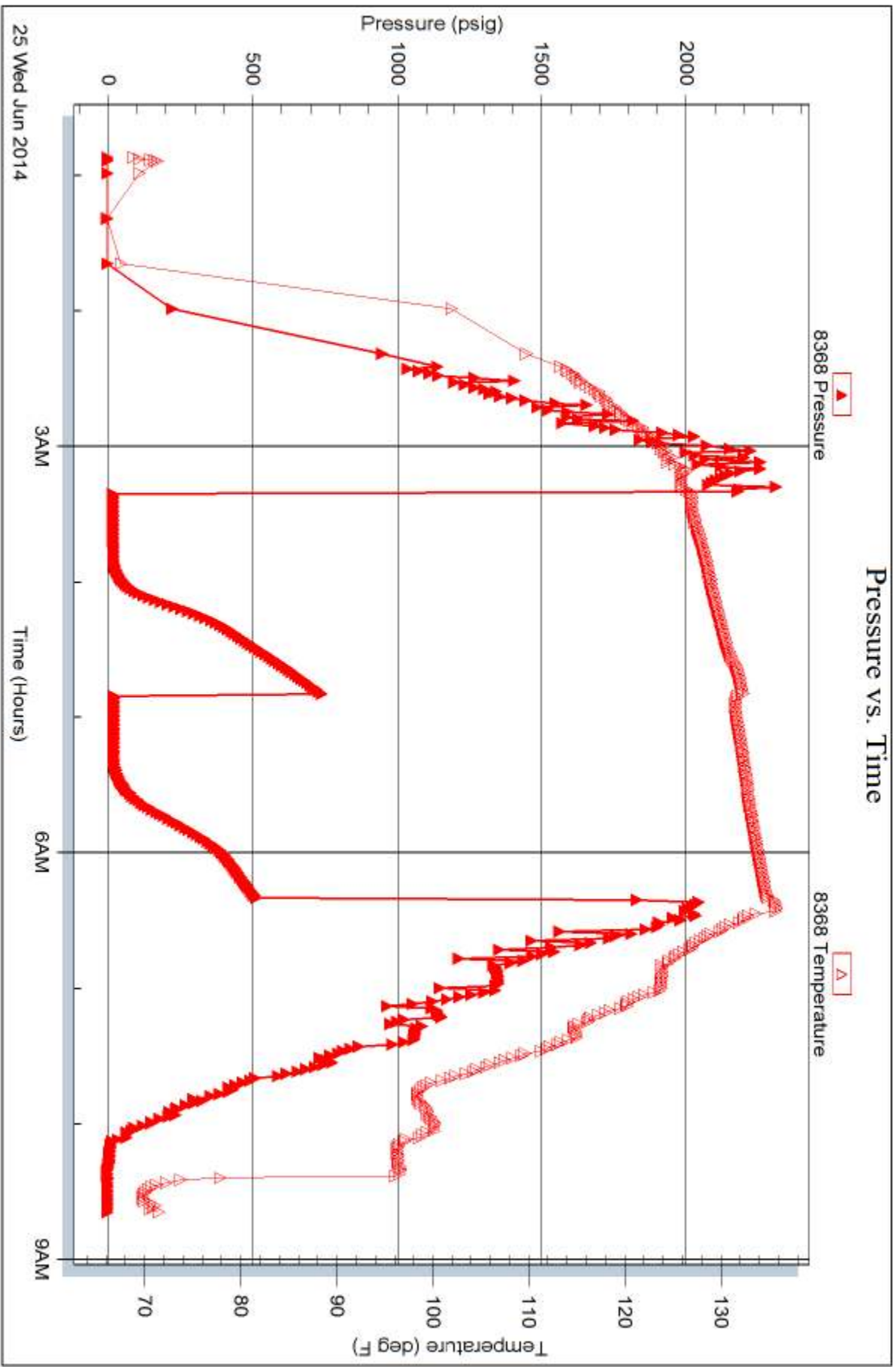
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58319

Well Name & No. Buck Trust #10' # 3-23 Test No. 1 Date 6-22-14
 Company Murkin Drilling Co., Inc. Elevation 3226 KB 3215 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Shanfaie Rig Murkin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4024 - 4080 Zone Tested Oread
 Anchor Length 56 Drill Pipe Run 3820.82 Mud Wt. 9.0
 Top Packer Depth 4019 Drill Collars Run 203.46 Vis 62
 Bottom Packer Depth 4024 Wt. Pipe Run 0 WL 6.0
 Total Depth 4080 Chlorides 600 ppm System LCM 11 #
 Blow Description IF - WEAK SURFACE BLOW STAYED THROUGHOUT THE OPEN
ISI - No return
FF - No surface blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 2 BHT 134°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2063</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>1:50am</u>
(B) First Initial Flow <u>13</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:24am</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>4:27 am</u>
(D) Initial Shut-In <u>199</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:27am</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:20am</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>116 B/T</u> 179.80	Comments _____
(G) Final Shut-In <u>158</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2084</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1754.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1754.80</u>	

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58320**

Well Name & No. Burk Trust 'D' #3-23 Test No. 2 Date 6-22-14
 Company Murkin Drilling Co., Inc. Elevation 3226 KB 3215 GL
 Address 250 N. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman ShariFaie Rig Murkin #2
 Location: Sec. 23 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4170-4226 Zone Tested LKC-'B-D'
 Anchor Length 56' Drill Pipe Run 3947.84 Mud Wt. 9.3
 Top Packer Depth 4165 Drill Collars Run 203.46 Vis 55
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 6.8
 Total Depth 4226 Chlorides 600 ppm System LCM 10#
 Blow Description IF - Surface blow built to 9"
ISI - No RETURN
FF - SURFACE BUILT TO 9.5"
FST - No RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>189'</u>	<u>OCWM</u>	<u>15</u>	<u>20</u>	<u>65</u>	
<u>63'</u>	<u>OCWM</u>	<u>25</u>	<u>15</u>	<u>60</u>	
<u>3'</u>	<u>Free Oil</u>	<u>100</u>			

Rec Total 283 BHT 140 Gravity 42 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2058 Test 1250 T-On Location 10:35am 11:35pm
 (B) First Initial Flow 20 Jars 250 T-Started 11:18pm 12:18am
 (C) First Final Flow 90 Safety Joint 75 T-Open 2:41am
 (D) Initial Shut-In 601 Circ Sub N/C T-Pulled 6:41 AM
 (E) Second Initial Flow 97 Hourly Standby _____ T-Out 9:09 AM
 (F) Second Final Flow 134 Mileage 116 B/T 179.80 Comments _____
 (G) Final Shut-In 409 Sampler _____
 (H) Final Hydrostatic 2061 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Total 1754.80
 Sub Total 1754.80 Accessibility _____ MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58321

Well Name & No. Burk Trust 'D' #3-23 Test No. 3 Date 6-23-14
 Company Murfin Drilling Co, Inc Elevation 3226 KB 3215 GL
 Address 250 N. Water, Ste 300 Wichita Ks 67202
 Co. Rep / Geo. Saman Sharif Fata Rig Murfin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State Ks

Interval Tested 4238 - 4290 Zone Tested LKC - 'G'
 Anchor Length 52' Drill Pipe Run 4009.86' Mud Wt. 9.2
 Top Packer Depth 4233' Drill Collars Run 203.46 Vis 60
 Bottom Packer Depth 4238' Wt. Pipe Run 0 WL 6.0
 Total Depth 4290 Chlorides 600 ppm System LCM 16#
 Blow Description IF - SURFACE BLOW BUILT TO 8.5"
ISI - NO RETURN
FF - SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 44 MINUTES
FSI - NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Free Oil</u>	<u>100</u>			
<u>63'</u>	<u>OCM</u>	<u>35</u>		<u>65</u>	

Rec Total 203' BHT 137°F Gravity 39@60 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2166</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:45pm</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:58pm</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:16 PM</u>
(D) Initial Shut-In <u>520</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1:16 AM</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:45 am</u>
(F) Second Final Flow <u>97</u>	<input checked="" type="checkbox"/> Mileage <u>116 RTT</u> <u>179.80</u>	Comments _____
(G) Final Shut-In <u>516</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2090</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>9:00 AM</u> <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>9:16 AM</u> <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10:16 AM</u> <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____ <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1754.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. ~~58323~~ 58322

Well Name & No. Buck Trust 'D' # 3-23 Test No. 4 Date 6-24-14
 Company Murfin Drilling Co., Inc Elevation 3226 KB 3215 GL
 Address 250 W. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharif Faei Rig Murfin # 2
 Location: Sec. 23 Twp. 15 Rge. 36 W Co. Rawlins State KS

Interval Tested 4326' - 4390 Zone Tested LKC - 'J'
 Anchor Length 64' Drill Pipe Run 4104.44 Mud Wt. 8.6
 Top Packer Depth 4321 Drill Collars Run 203.46 Vis 60
 Bottom Packer Depth 4326 Wt. Pipe Run 0 WL 5.6
 Total Depth 4390 Chlorides 1100 ppm System LCM 28#

Blow Description IF - surface blow started with a weak surface then died in 20
ISI - No Return
FF - No surface blow
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 135°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2181 Test 1250 T-On Location 11:50pm
 (B) First Initial Flow 17 Jars 250 T-Started 12:52am
 (C) First Final Flow 20 Safety Joint 75 T-Open 3:20am
 (D) Initial Shut-In 740 Circ Sub N/C T-Pulled 6:20am
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 8:40am
 (F) Second Final Flow 22 Mileage 116 R/T 179.80 Comments picked up to after
 (G) Final Shut-In 514 Sampler _____ test, but not released
 (H) Final Hydrostatic 2060 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1754.80
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1754.80

Approved By _____ Our Representative Blake [Signature]

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