

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton, Ks

Mulder A

Start Date: 2010.09.21 @ 10:57:29

End Date: 2010.09.21 @ 16:44:53

Job Ticket #: 39966 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED
JAN 24 2011
KCC WICHITA**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer, Inc
370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 39966

DST#: 1

Test Start: 2010.09.21 @ 10:57:29

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:21:24

Time Test Ended: 16:44:53

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3365.00 ft (KB) To 3410.00 ft (KB) (TVD)**

Total Depth: **3410.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2183.00 ft (KB)**

2178.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8647 **Inside**

Press@RunDepth: **70.12 psig @ 3372.00 ft (KB)**

Start Date: **2010.09.21**

End Date: **2010.09.21**

Start Time: **10:57:29**

End Time: **16:44:53**

Capacity: **8000.00 psig**

Last Calib.: **2010.09.21**

Time On Btm: **2010.09.21 @ 12:19:54**

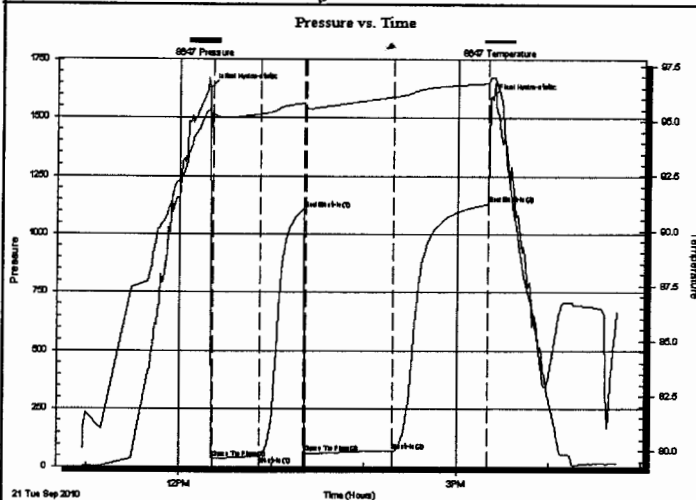
Time Off Btm: **2010.09.21 @ 15:21:53**

TEST COMMENT: IFP - weak blow throughout 1/2" - 2 1/2"

ISI - no blow back

FFP - weak to good blow sur - 7"

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.67	95.56	Initial Hydro-static
2	36.68	95.27	Open To Flow (1)
32	45.91	95.29	Shut-In(1)
61	1109.39	95.79	End Shut-In(1)
62	60.42	95.58	Open To Flow (2)
119	70.12	96.09	Shut-In(2)
180	1131.00	96.71	End Shut-In(2)
182	1585.97	96.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	MCO 55%O, 45%M	0.54
20.00	FREE OIL 95%O, 5%M	0.16
0.00	60' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39966

DST#: 1

Russell, Ks 67665

ATTN: Steve Murphy

Test Start: 2010.09.21 @ 10:57:29

Tool Information

Drill Pipe:	Length: 3235.00 ft	Diameter: 3.80 inches	Volume: 45.38 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 45.98 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3365.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Tool slid 5' to bottom				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3343.00	
Hydraulic tool	5.00			3348.00	
Jars	5.00			3353.00	
Safety Joint	2.00			3355.00	
Packer	5.00			3360.00	27.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Stubb	1.00			3366.00	
Perforations	5.00			3371.00	
Change Over Sub	1.00			3372.00	
Recorder	0.00	8647	Inside	3372.00	
Recorder	0.00	8365	Outside	3372.00	
Blank Spacing	32.00			3404.00	
Change Over Sub	1.00			3405.00	
Perforations	2.00			3407.00	
Bullnose	3.00			3410.00	45.00 Bottom Packers & Anchor

Total Tool Length: 72.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39966

DST#: 1

Russell, Ks 67665

Test Start: 2010.09.21 @ 10:57:29

ATTN: Steve Murphy

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	MCO 55%O, 45%M	0.541
20.00	FREE OIL 95%O, 5%M	0.162
0.00	60' GIP	0.000

Total Length: 130.00 ft

Total Volume: 0.703 bbl

Num Fluid Samples: 0

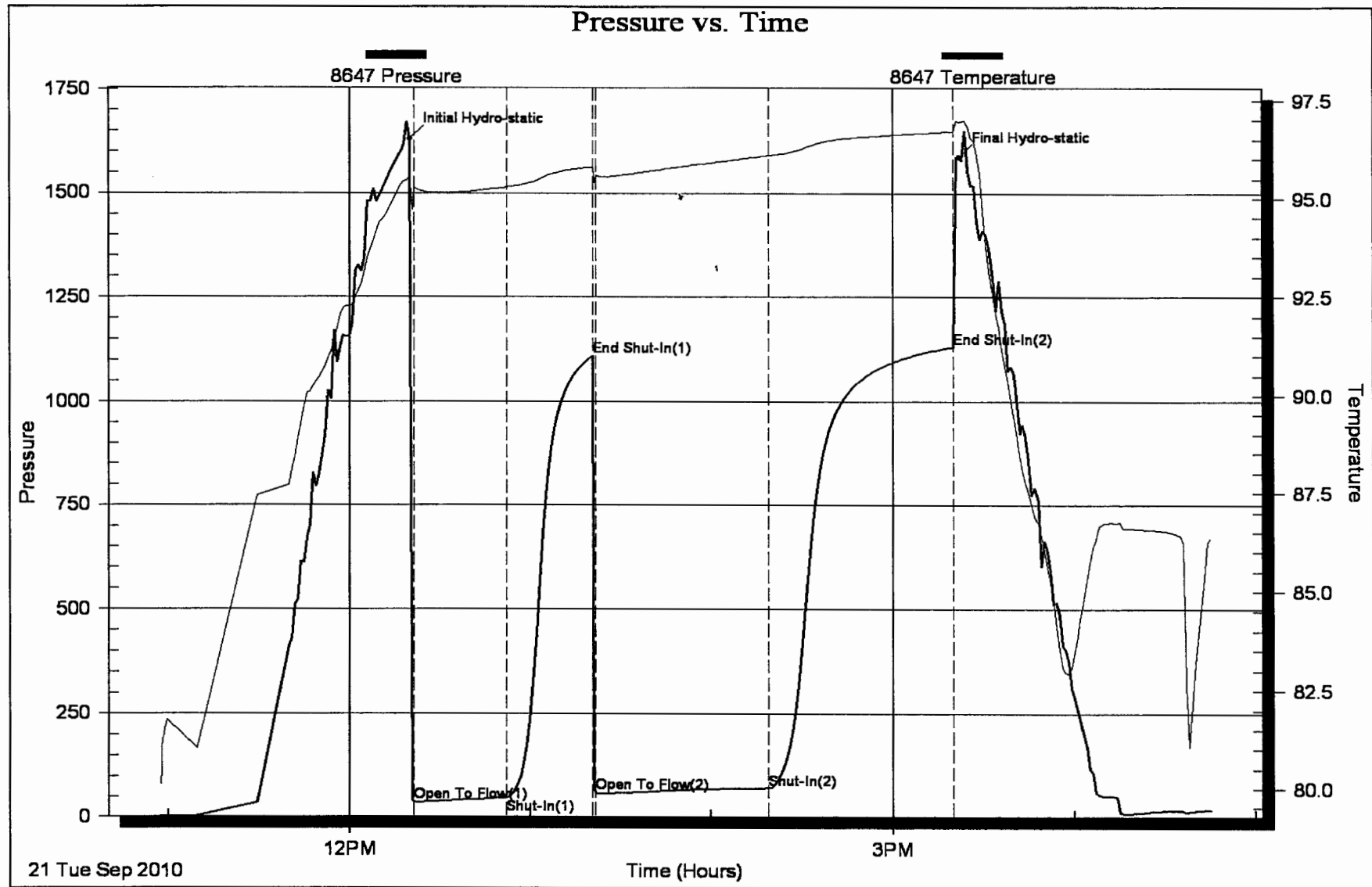
Num Gas Bombs: 0

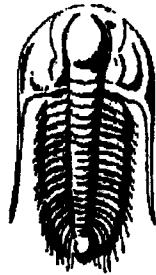
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton,Ks

Mulder A

Start Date: 2010.09.21 @ 21:20:54

End Date: 2010.09.22 @ 03:00:18

Job Ticket #: 39967 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer, Inc

Mulder A

12-4-21 Norton,Ks

DST # 2

LKC "A"

2010.09.21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 39967

DST#: 2

Test Start: 2010.09.21 @ 21:20:54

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:37:49

Time Test Ended: 03:00:18

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3410.00 ft (KB) To 3425.00 ft (KB) (TVD)

Total Depth: 3425.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2183.00 ft (KB)

2178.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 231.76 psig @ 3412.00 ft (KB)

Start Date: 2010.09.21

End Date:

2010.09.22

Capacity: 8000.00 psig

Last Calib.: 2010.09.22

Start Time: 21:20:54

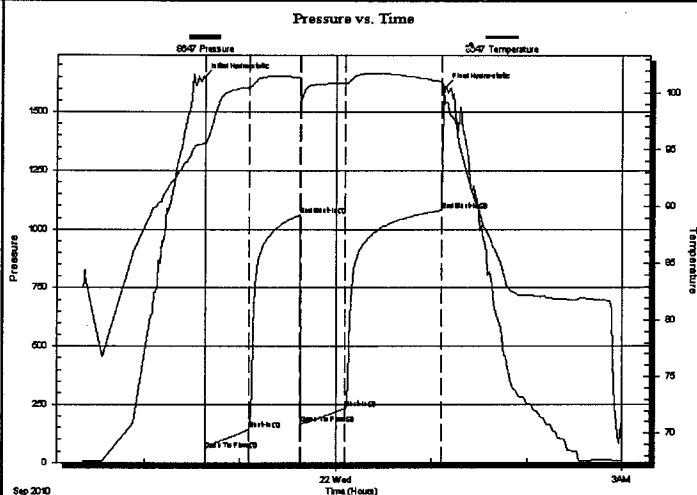
End Time:

03:00:18

Time On Btm: 2010.09.21 @ 22:36:49

Time Off Btm: 2010.09.22 @ 01:08:49

TEST COMMENT: IFP - BOB 3 min
ISI - BOB 9 min
FFP - BOB 6 min
FSI - BOB 14 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.74	95.61	Initial Hydro-static
1	57.91	95.43	Open To Flow (1)
29	142.23	100.49	Shut-In(1)
61	1059.97	101.32	End Shut-In(1)
62	166.51	99.24	Open To Flow (2)
89	231.76	100.83	Shut-In(2)
150	1079.43	101.01	End Shut-In(2)
152	1606.77	99.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GMCO 25%G, 50%O, 25%M	0.98
455.00	FREE OIL 95%O, 5%M	6.38
0.00	635' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39967

DST#: 2

Russell, Ks 67665

Test Start: 2010.09.21 @ 21:20:54

ATTN: Steve Murphy

Tool Information

Drill Pipe:	Length: 3270.00 ft	Diameter: 3.80 inches	Volume: 45.87 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 42000.00 lb
		Total Volume: 46.47 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3410.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			3388.00	
Hydraulic tool	5.00			3393.00	
Jars	5.00			3398.00	
Safety Joint	2.00			3400.00	
Packer	5.00			3405.00	27.00 Bottom Of Top Packer
Packer	5.00			3410.00	
Stubb	1.00			3411.00	
Perforations	1.00			3412.00	
Recorder	0.00	8647	Inside	3412.00	
Recorder	0.00	8365	Outside	3412.00	
Perforations	10.00			3422.00	
Bullnose	3.00			3425.00	15.00 Bottom Packers & Anchor

Total Tool Length: 42.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39967

DST#: 2

Russell, Ks 67665

Test Start: 2010.09.21 @ 21:20:54

ATTN: Steve Murphy

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GMCO 25%G, 50%O, 25%M	0.984
455.00	FREE OIL 95%O, 5%M	6.382
0.00	635' GIP	0.000

Total Length: 605.00 ft

Total Volume: 7.366 bbl

Num Fluid Samples: 0

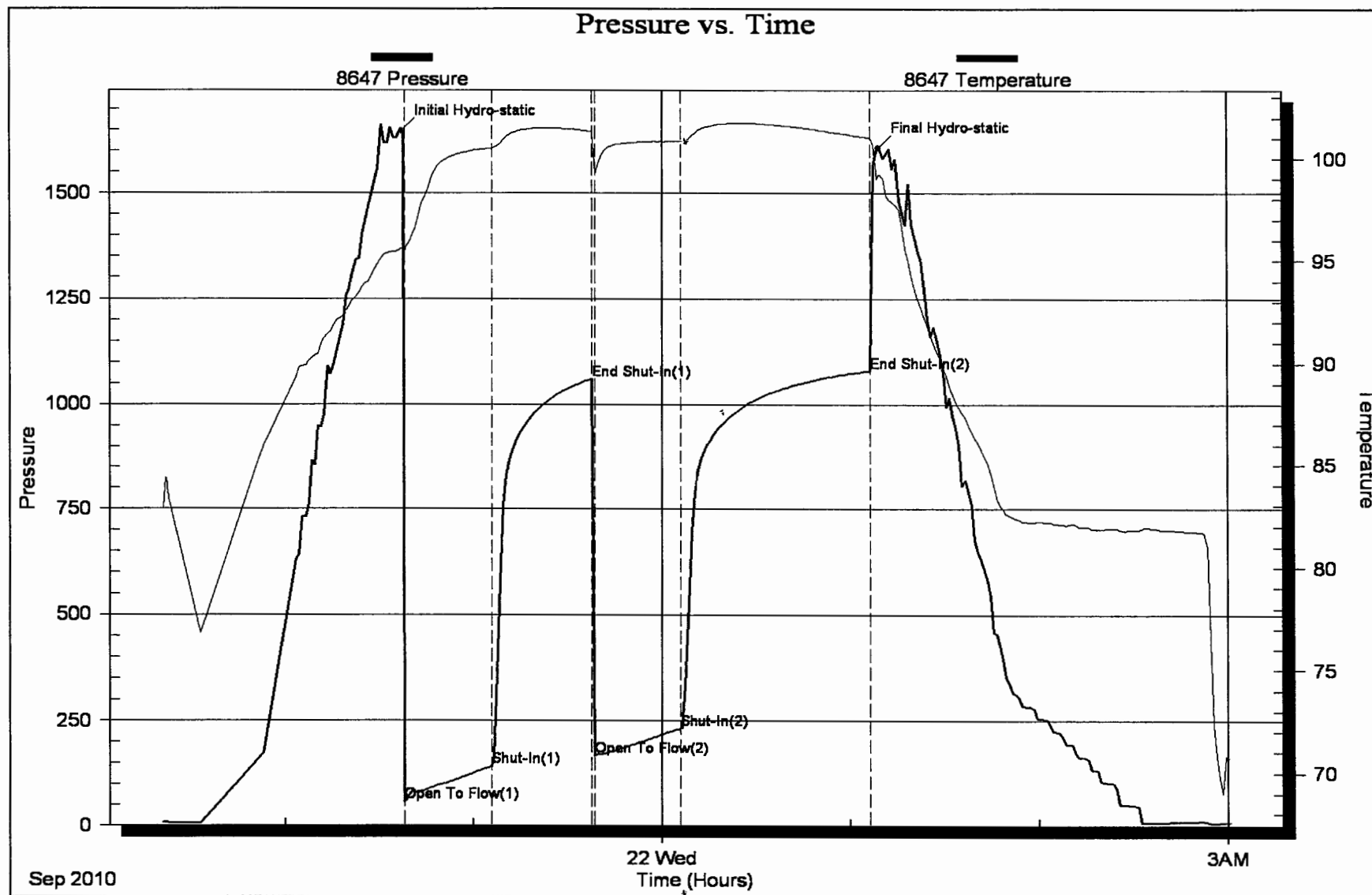
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton, Ks

Mulder A

Start Date: 2010.09.22 @ 08:48:56

End Date: 2010.09.22 @ 14:14:20

Job Ticket #: 39968 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer, Inc

Mulder A

12-4-21 Norton, Ks

DST # 3

LKC "C"

2010.09.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer, Inc

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 39968

DST#: 3

Test Start: 2010.09.22 @ 08:48:56

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 10:00:51

Time Test Ended: 14:14:20

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3438.00 ft (KB) To 3451.00 ft (KB) (TVD)**

Total Depth: **3451.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2183.00 ft (KB)**

2178.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8647

Inside

Press@RunDepth: **65.82 psig @ 3443.00 ft (KB)**

Start Date: **2010.09.22**

End Date:

2010.09.22

Capacity: **8000.00 psig**

Last Calib.: **2010.09.22**

Start Time: **08:48:56**

End Time:

14:14:20

Time On Btm: **2010.09.22 @ 09:59:21**

Time Off Btm: **2010.09.22 @ 13:01:51**

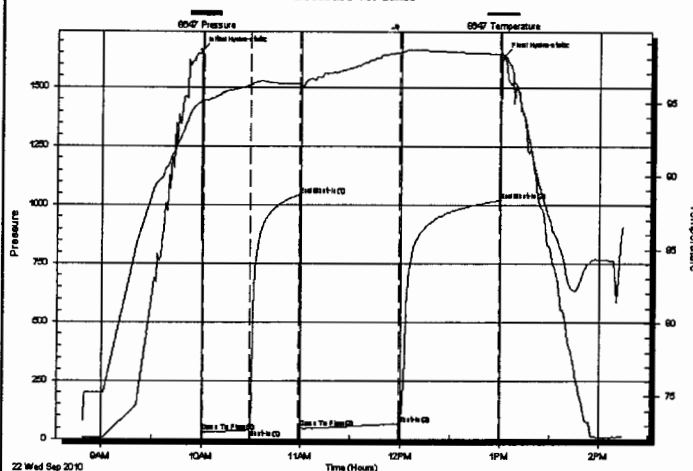
TEST COMMENT: IFP - weak blow throughout sur - 2"

ISI - no blow back

FFP - no blow 10 min - 1 1/4"

FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.57	95.17	Initial Hydro-static
2	31.58	95.08	Open To Flow (1)
30	39.29	96.17	Shut-In(1)
60	1043.25	96.30	End Shut-In(1)
61	47.97	96.05	Open To Flow (2)
120	65.82	98.38	Shut-In(2)
180	1021.29	98.31	End Shut-In(2)
183	1636.06	98.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	MW 80%W, 20%M	0.31
1.00	FREE OIL TSTM	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39968

DST#: 3

Russell, Ks 67665

Test Start: 2010.09.22 @ 08:48:56

ATTN: Steve Murphy

Tool Information

Drill Pipe:	Length: 3307.00 ft	Diameter: 3.80 inches	Volume: 46.39 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	38000.00 lb
		Total Volume:	46.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3438.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	40.00 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			3416.00	
Hydraulic tool	5.00			3421.00	
Jars	5.00			3426.00	
Safety Joint	2.00			3428.00	
Packer	5.00			3433.00	27.00 Bottom Of Top Packer
Packer	5.00			3438.00	
Stubb	1.00			3439.00	
Perforations	4.00			3443.00	
Recorder	0.00	8647	Inside	3443.00	
Recorder	0.00	8365	Outside	3443.00	
Perforations	5.00			3448.00	
Bullnose	3.00			3451.00	13.00 Bottom Packers & Anchor
Total Tool Length:		40.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39968

DST#: 3

Russell, Ks 67665

Test Start: 2010.09.22 @ 08:48:56

ATTN: Steve Murphy

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:

15000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	MW 80%W, 20%M	0.315
1.00	FREE OIL TSTM	0.005

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

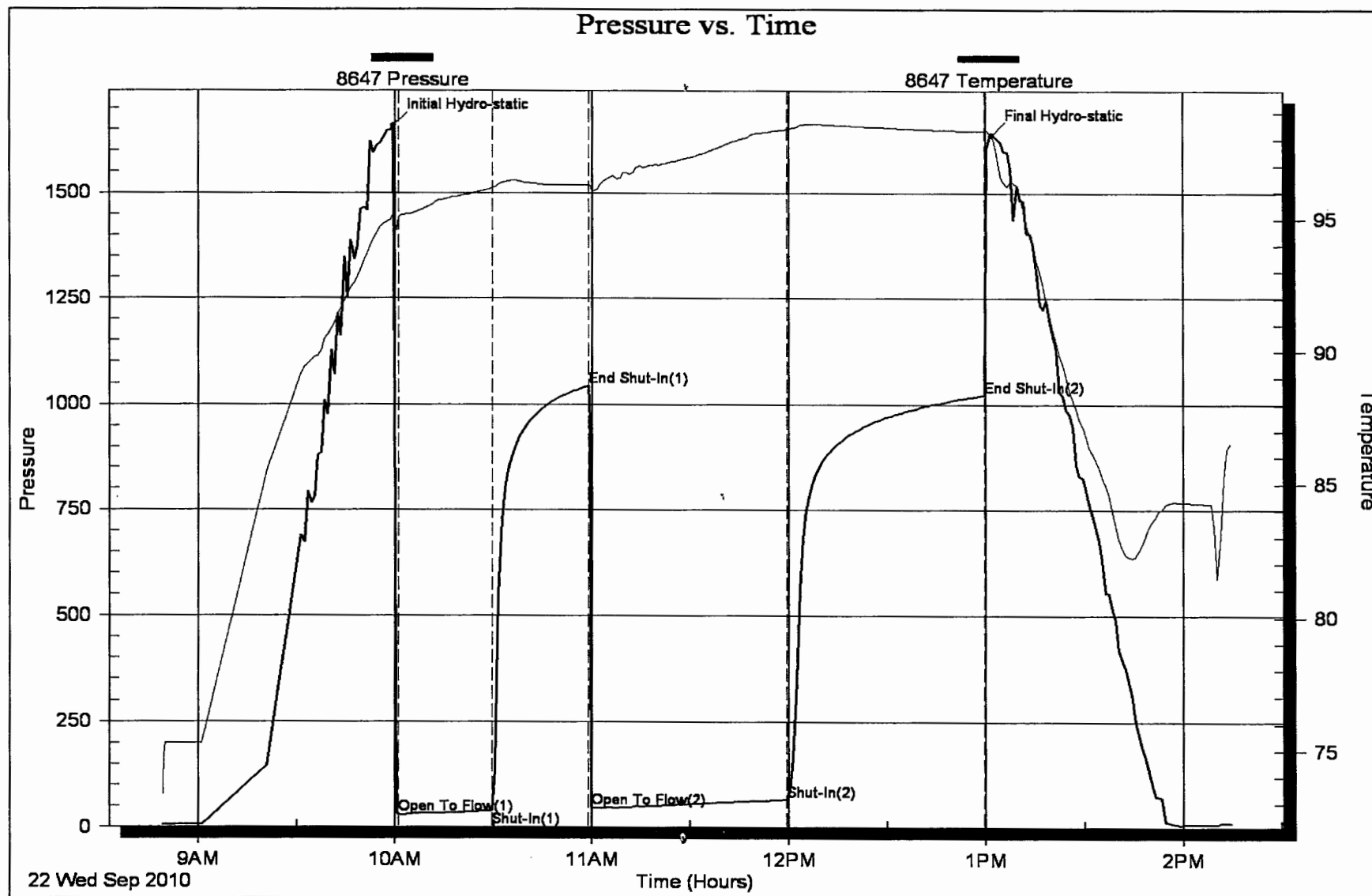
Num Gas Bombs: 0

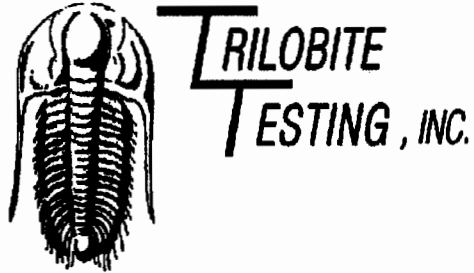
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton,Ks

Mulder A

Start Date: 2010.09.22 @ 19:26:38

End Date: 2010.09.23 @ 01:31:02

Job Ticket #: 339969 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer, Inc

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 339969

DST#: 4

Test Start: 2010.09.22 @ 19:26:38

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:46:03

Time Test Ended: 01:31:02

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3458.00 ft (KB) To 3475.00 ft (KB) (TVD)**

Total Depth: **3475.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2183.00 ft (KB)**

2178.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8647

Inside

Press@RunDepth: **530.91 psig @ 3462.00 ft (KB)**

Start Date: **2010.09.22**

End Date:

2010.09.23

Start Time: **19:26:38**

End Time:

01:31:02

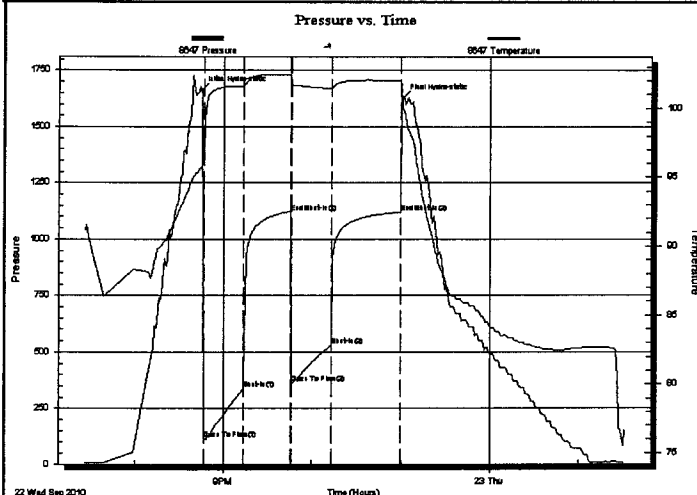
Capacity: **8000.00 psig**

Last Calib.: **2010.09.23**

Time On Btm: **2010.09.22 @ 20:44:33**

Time Off Btm: **2010.09.22 @ 23:01:03**

TEST COMMENT: IFP - BOB 75 sec
ISI - 8 1/2" blow back
FFP - BOB 2 1/2 min
FSI - BOB 27 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.43	95.68	Initial Hydro-static
2	116.35	96.38	Open To Flow (1)
29	335.18	101.58	Shut-In(1)
61	1121.43	102.42	End Shut-In(1)
62	362.57	101.89	Open To Flow (2)
89	530.91	101.43	Shut-In(2)
135	1119.97	102.03	End Shut-In(2)
137	1629.12	100.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMCO 20%G, 70%O, 10%M	0.44
1340.00	G FREE OIL 10%G, 85%O, 5%M	18.50
0.00	90' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

12-4-21 Norton, Ks

Job Ticket: 339969

DST#: 4

Test Start: 2010.09.22 @ 19:26:38

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 42000.00 lb
			Total Volume: 47.34 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3458.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Tool slid 2' to bottom				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3436.00	
Hydraulic tool	5.00			3441.00	
Jars	5.00			3446.00	
Safety Joint	2.00			3448.00	
Packer	5.00			3453.00	27.00 Bottom Of Top Packer
Packer	5.00			3458.00	
Stubb	1.00			3459.00	
Perforations	3.00			3462.00	
Recorder	0.00	8647	Inside	3462.00	
Recorder	0.00	8365	Outside	3462.00	
Perforations	10.00			3472.00	
Bullnose	3.00			3475.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 339969

DST#: 4

Russell, Ks 67665

Test Start: 2010.09.22 @ 19:26:38

ATTN: Steve Murphy

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMCO 20%G, 70%O, 10%M	0.443
1340.00	G FREE OIL 10%G, 85%O, 5%M	18.496
0.00	90' GIP	0.000

Total Length: 1430.00 ft

Total Volume: 18.939 bbl

Num Fluid Samples: 0

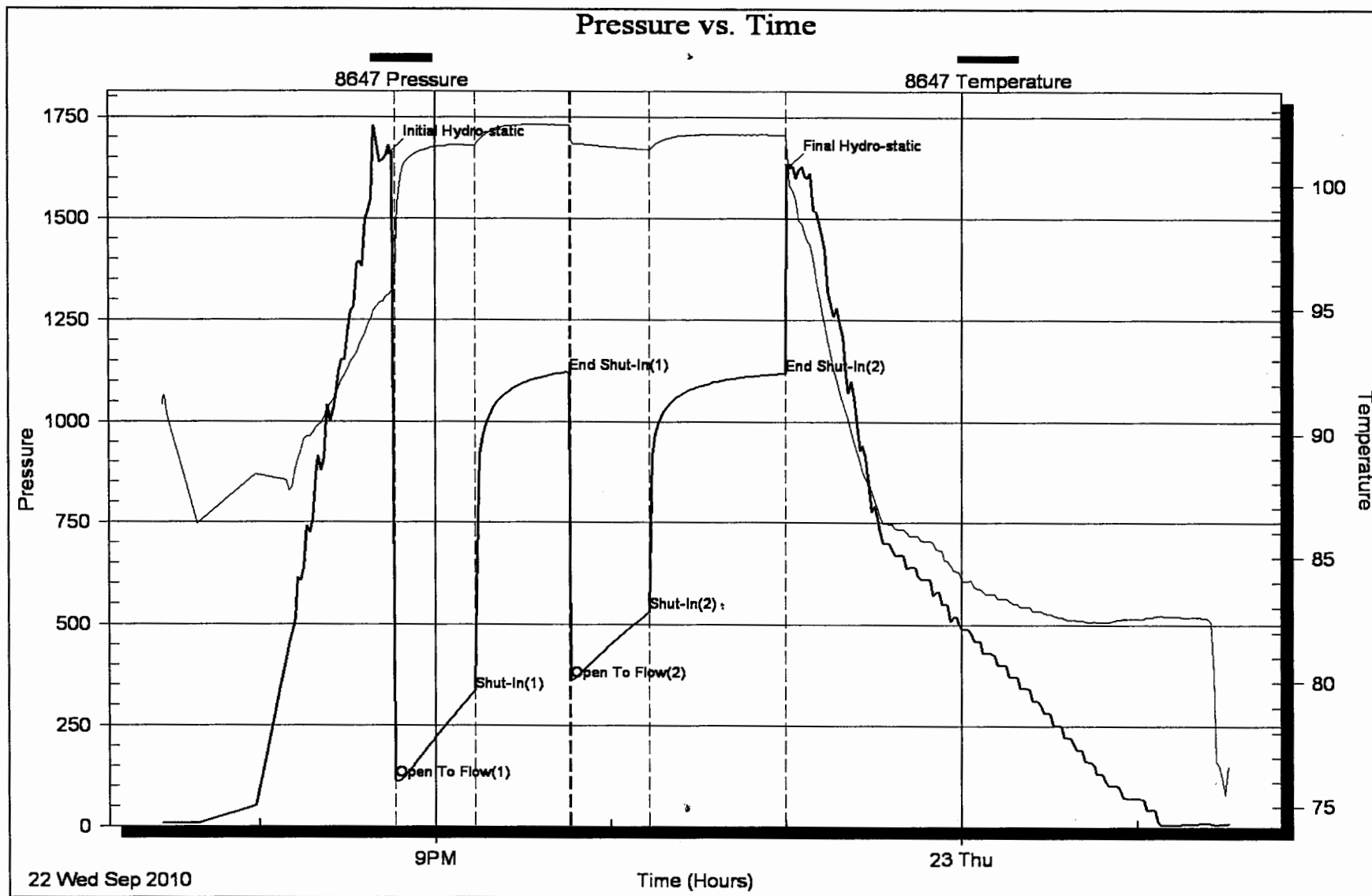
Num Gas Bombs: 0

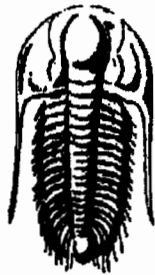
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton,Ks

Mulder A

Start Date: 2010.09.23 @ 07:00:08

End Date: 2010.09.23 @ 11:27:08

Job Ticket #: 39970

DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer, Inc

Mulder A

12-4-21 Norton,Ks

DST # 5

LKC "E"

2010.09.23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 39970

DST#: 5

Test Start: 2010.09.23 @ 07:00:08

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:08

Time Test Ended: 11:27:08

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3480.00 ft (KB) To 3495.00 ft (KB) (TVD)**

Total Depth: 3495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2183.00 ft (KB)

2178.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 30.57 psig @ 3482.00 ft (KB)

Start Date: 2010.09.23

End Date:

2010.09.23

Capacity: 8000.00 psig

Last Calib.: 2010.09.23

Start Time: 07:00:13

End Time:

11:27:07

Time On Btm: 2010.09.23 @ 08:17:38

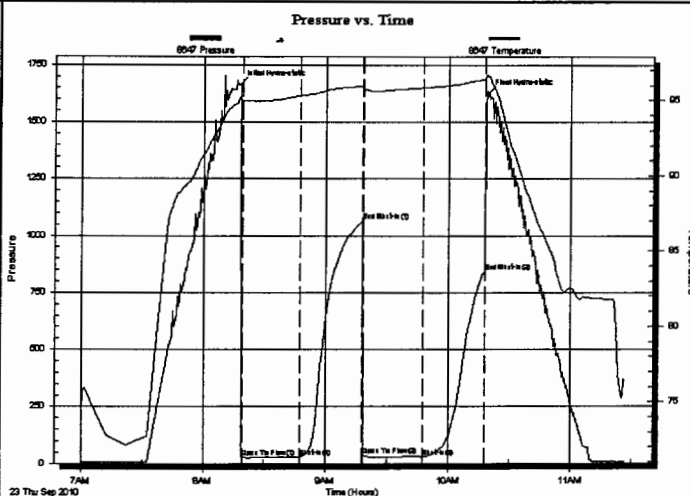
Time Off Btm: 2010.09.23 @ 10:19:08

TEST COMMENT: IFP - stg sur blow - died 17 min

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.21	95.20	Initial Hydro-static
2	29.69	94.96	Open To Flow (1)
30	29.03	95.31	Shut-In(1)
61	1065.09	95.93	End Shut-In(1)
61	37.68	95.60	Open To Flow (2)
90	30.57	95.83	Shut-In(2)
120	842.38	96.36	End Shut-In(2)
122	1626.77	96.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 10%O, 90%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39970

DST#: 5

Russell, Ks 67665

Test Start: 2010.09.23 @ 07:00:08

ATTN: Steve Murphy

Tool Information

Drill Pipe:	Length: 3334.00 ft	Diameter: 3.80 inches	Volume: 46.77 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	47.37 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3480.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3458.00	
Hydraulic tool	5.00			3463.00	
Jars	5.00			3468.00	
Safety Joint	2.00			3470.00	
Packer	5.00			3475.00	27.00 Bottom Of Top Packer
Packer	5.00			3480.00	
Stubb	1.00			3481.00	
Perforations	1.00			3482.00	
Recorder	0.00	8647	Inside	3482.00	
Recorder	0.00	8365	Outside	3482.00	
Perforations	10.00			3492.00	
Bullnose	3.00			3495.00	15.00 Bottom Packers & Anchor

Total Tool Length: 42.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39970

DST#: 5

Russell, Ks 67665

Test Start: 2010.09.23 @ 07:00:08

ATTN: Steve Murphy

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 10%O, 90%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

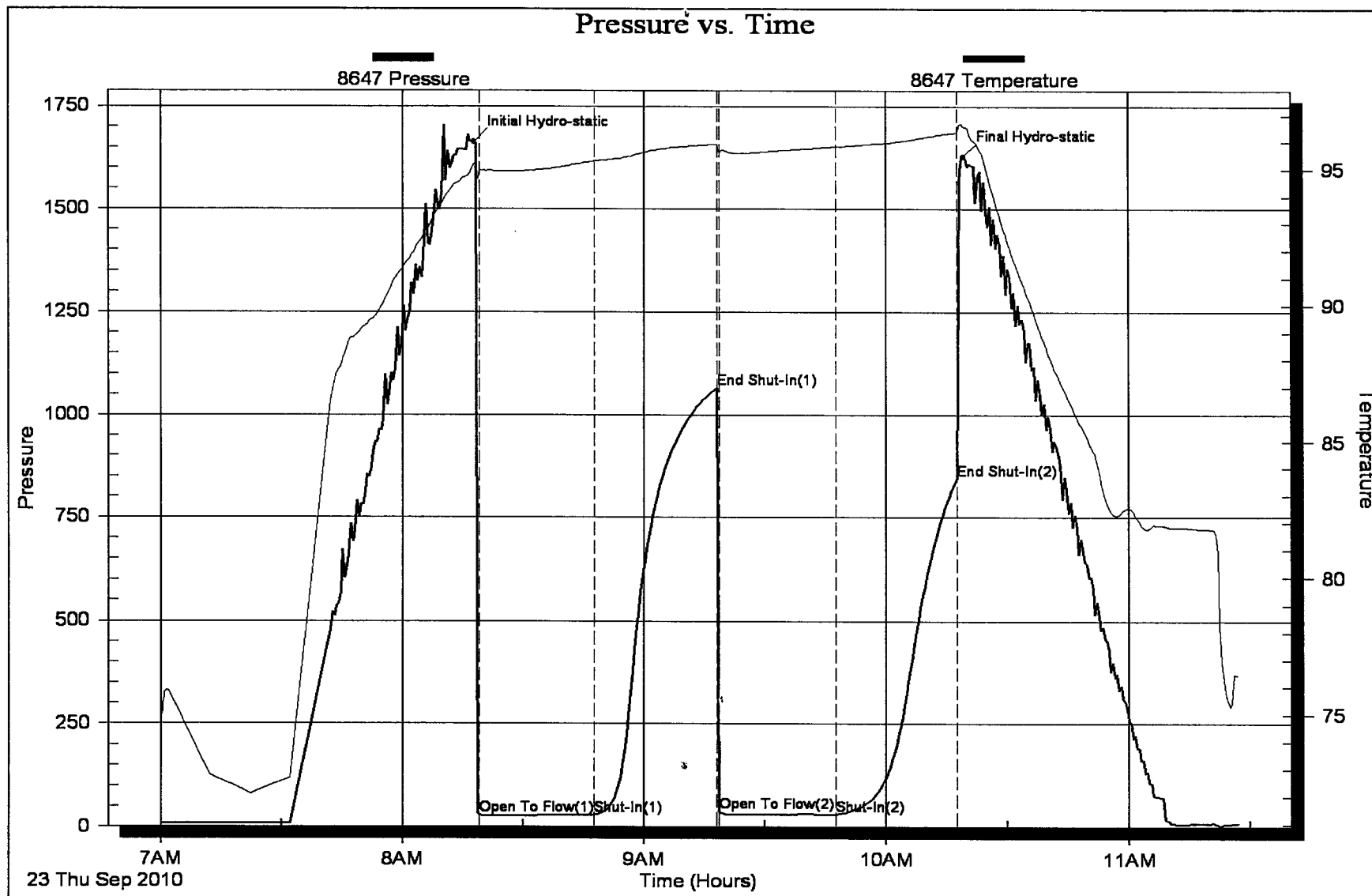
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665

ATTN: Steve Murphy

12-4-21 Norton,Ks

Mulder A

Start Date: 2010.09.23 @ 20:29:30

End Date: 2010.09.24 @ 00:54:24

Job Ticket #: 39971 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer, Inc

Mulder A

12-4-21 Norton,Ks

DST # 6

LKC "I-L"

2010.09.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer, Inc

370 W. Wichita Ave
PO Box 352
Russell, Ks 67665
ATTN: Steve Murphy

Mulder A

12-4-21 Norton, Ks

Job Ticket: 39971

DST#: 6

Test Start: 2010.09.23 @ 20:29:30

GENERAL INFORMATION:

Formation: LKC "I-L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:25

Time Test Ended: 00:54:24

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3554.00 ft (KB) To 3605.00 ft (KB) (TVD)

Total Depth: 3605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2183.00 ft (KB)

2178.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 39.57 psig @ 3559.00 ft (KB)

Start Date: 2010.09.23

End Date:

2010.09.24

Start Time: 20:29:30

End Time:

00:54:24

Capacity: 8000.00 psig

Last Calib.: 2010.09.24

Time On Btm: 2010.09.23 @ 21:45:55

Time Off Btm: 2010.09.23 @ 23:47:55

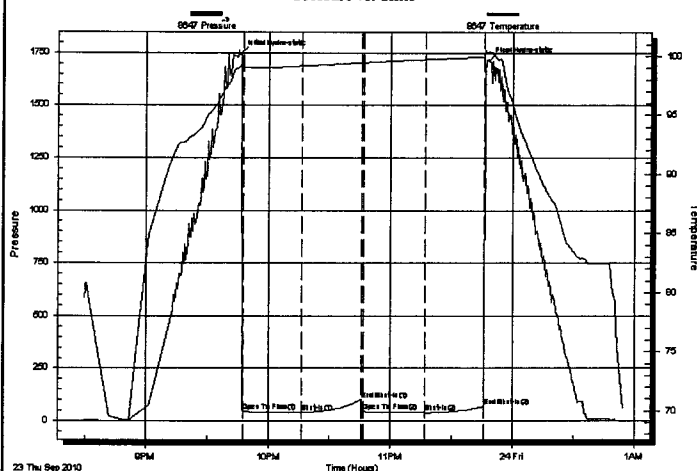
TEST COMMENT: IFP - stg sur blow - died 6 min

ISI - no blow back

FFP - no blow

FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

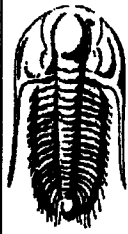
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.43	99.14	Initial Hydro-static
2	47.63	99.05	Open To Flow (1)
31	40.50	99.15	Shut-In(1)
60	102.52	99.45	End Shut-In(1)
61	46.36	99.45	Open To Flow (2)
91	39.57	99.72	Shut-In(2)
120	68.32	99.95	End Shut-In(2)
122	1712.58	100.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	VSOCM 5% O ₂ , 95% M	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39971

DST#: 6

Russell, Ks 67665

Test Start: 2010.09.23 @ 20:29:30

ATTN: Steve Murphy

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 36000.00 lb
			Total Volume: 48.64 bbl	Tool Chased 10.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3554.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

tool slid 10' to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3532.00	
Hydraulic tool	5.00			3537.00	
Jars	5.00			3542.00	
Safety Joint	2.00			3544.00	
Packer	5.00			3549.00	27.00 Bottom Of Top Packer
Packer	5.00			3554.00	
Stubb	1.00			3555.00	
Perforations	3.00			3558.00	
Change Over Sub	1.00			3559.00	
Recorder	0.00	8647	Inside	3559.00	
Recorder	0.00	8365	Outside	3559.00	
Blank Spacing	32.00			3591.00	
Change Over Sub	1.00			3592.00	
Perforations	10.00			3602.00	
Bullnose	3.00			3605.00	51.00 Bottom Packers & Anchor

Total Tool Length: 78.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

Mulder A

370 W. Wichita Ave

12-4-21 Norton, Ks

PO Box 352

Job Ticket: 39971

DST#: 6

Russell, Ks 67665

Test Start: 2010.09.23 @ 20:29:30

ATTN: Steve Murphy

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	VSOCM 5%O, 95%M	0.005

Total Length:

1.00 ft

Total Volume:

0.005 bbl

Num Fluid Samples: 0

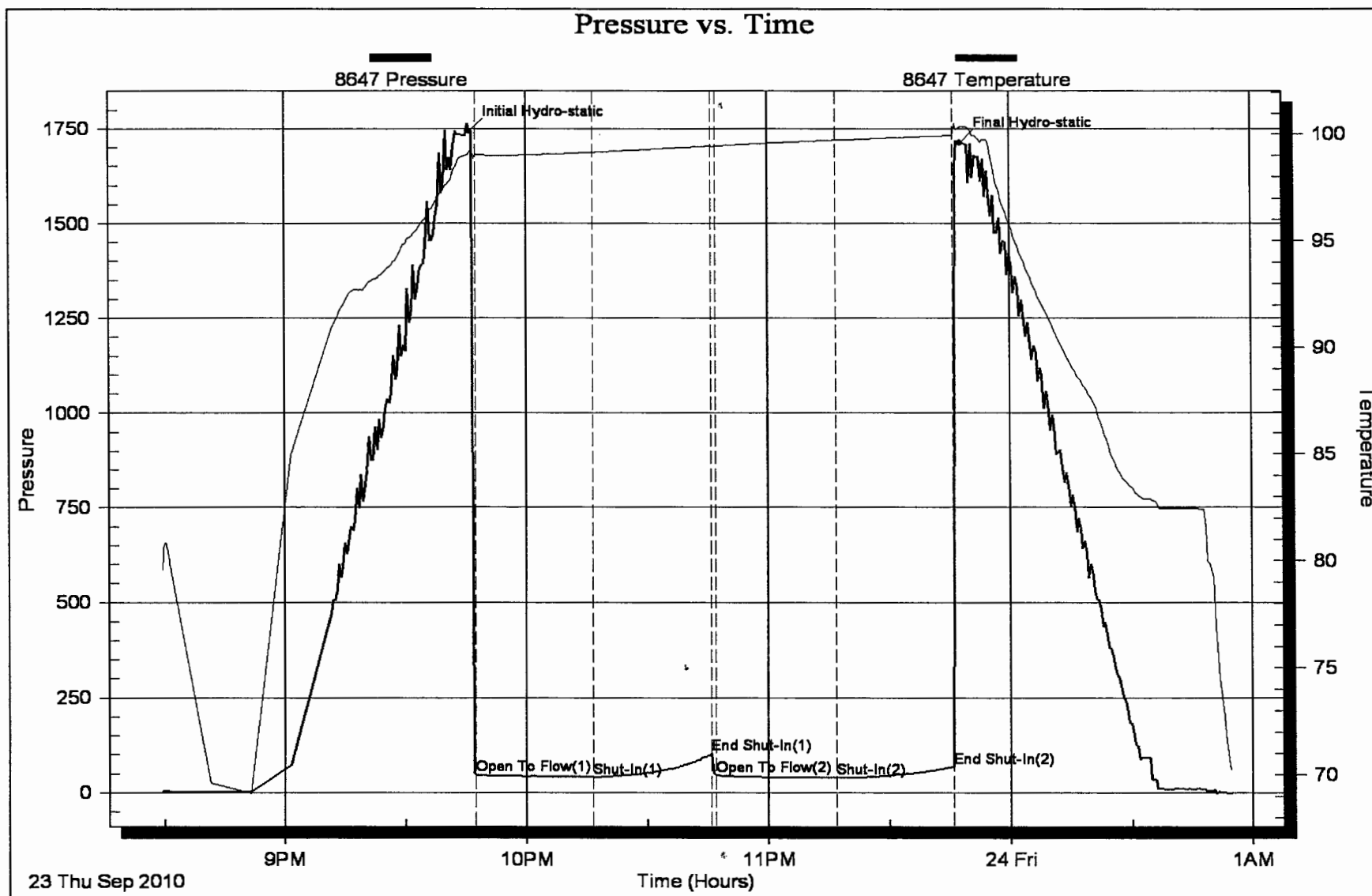
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039966 14845

Well Name & No. Mulder A Test No. 1 Date 9-21-10
 Company JOF Elevation 2183 ~~KB~~ 2178 GL
 Address 370 W. Wichita, #1 Ave PO Box 352 Russell, K 67665
 Co. Rep / Geo. Steve Murphy Rig WW 8
 Location: Sec. 12 Twp. 4 Rge. 21 Co. Norton State Ks

Interval Tested 3365 - 3410 Zone Tested Toronto
 Anchor Length 3345 Drill Pipe Run 3235 Mud Wt. 8.8
 Top Packer Depth 3360 Drill Collars Run 123 Vis 70
 Bottom Packer Depth 3365 Wt. Pipe Run — WL 8.0
 Total Depth 3410 Chlorides 700 ppm System LCM

Blow Description IFP - weak blow throughout 1/2 - 2 1/2"
ISI - no blow back
FFP - weak to Good blow sur - 7"
FSI - no blow back

Rec <u>60</u>	Feet of <u>GIP</u>	%gas	%oil	%water	%mud
Rec <u>20</u>	Feet of <u>Free Oil</u>	%gas	<u>95</u> %oil	%water	<u>5</u> %mud
Rec <u>110</u>	Feet of <u>MCO</u>	%gas	<u>55</u> %oil	%water	<u>45</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 97 Gravity 28 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1630
 (B) First Initial Flow 37
 (C) First Final Flow 46
 (D) Initial Shut-In 1109
 (E) Second Initial Flow 60
 (F) Second Final Flow 70
 (G) Final Shut-In 1131
 (H) Final Hydrostatic 1586

☒ Test 1125
☒ Jars 250-
☒ Safety Joint 75'
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 66 RT 8250
☐ Sampler
☐ Straddle
☒ Shale Packer 250-
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1782.50

T-On Location 0955
 T-Started 1057
 T-Open 1221
 T-Pulled 1521
 T-Out 1645

Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1782.50
 MP/DST Disc't

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

Approved By

Our Representative Brian Fairbairn

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039967

Well Name & No. Mulder A Test No. 2 Date 9-21-10
 Company JOF Elevation 2183 KB 2178 GL
 Address _____
 Co. Rep / Geo. Steve Murphy Rig WY 8
 Location: Sec. 12 Twp. 4 Rge. 21 Co. Norton State K

Interval Tested 3410-3425 Zone Tested LHC "A"
 Anchor Length 15 Drill Pipe Run 3270 Mud Wt. 9.0
 Top Packer Depth 3405 Drill Collars Run 123 Vis 56
 Bottom Packer Depth 3410 Wt. Pipe Run — WL 8.0
 Total Depth 3425 Chlorides 1200 ppm System LCM _____

Blow Description IFP- BOB 3 min
ISI- BOB 9 min
FFP- BOB 6 min
FSI- BOB 14 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>635</u>	<u>GIP</u>				
<u>455</u>	<u>Free oil</u>		<u>95%</u>		<u>5%</u>
<u>150</u>	<u>G MCO</u>	<u>25%</u>	<u>50%</u>		<u>25%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 605 BHT 101 Gravity 38 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1647</u>	☒ Test	<u>1125"</u>	T-On Location	<u>2100</u>
(B) First Initial Flow	<u>58</u>	☒ Jars	<u>250"</u>	T-Started	<u>2120</u>
(C) First Final Flow	<u>142</u>	☒ Safety Joint	<u>75"</u>	T-Open	<u>2237</u>
(D) Initial Shut-In	<u>1060</u>	☐ Circ Sub		T-Pulled	<u>0107</u>
(E) Second Initial Flow	<u>167</u>	☐ Hourly Standby		T-Out	<u>0301</u>
(F) Second Final Flow	<u>232</u>	☒ Mileage	<u>WORT 82.50</u>	Comments	
(G) Final Shut-In	<u>1079</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1607</u>	☐ Straddle			

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

☒ Shale Packer 250"
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

Sub Total 1782.50

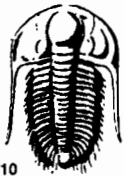
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies

Sub Total 8
 Total 1782.50
 MP/DST Disc't _____

Approved By _____

Our Representative Brian Fairbank

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039968

Well Name & No. Maider A Test No. 3 Date 9-22-10
Company JOF Elevation 2183 KB 2178 GL
Address _____
Co. Rep / Geo. Steve Murphy Rig WW8
Location: Sec. 12 Twp. 4 Rge. 21 Co. Norton State K

Interval Tested 3438-3451 Zone Tested LKC "C"
Anchor Length 13 Drill Pipe Run 3307 Mud Wt. 9.0
Top Packer Depth 3433 Drill Collars Run 123 Vis 56
Bottom Packer Depth 3438 Wt. Pipe Run — WL 8.0
Total Depth 3451 Chlorides 1200 ppm System LCM _____

Blow Description IFP - weak blow throughout
ISI - no blow back
FFP - no blow 10 min - 1 1/4"
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>				
<u>64</u>	<u>MW</u>				

Rec Total 65 BHT 98 Gravity TSTM API RW .354 @ 89 ° F Chlorides 15,000 ppm

(A) Initial Hydrostatic 1659
(B) First Initial Flow 32
(C) First Final Flow 39
(D) Initial Shut-In 1043
(E) Second Initial Flow 48
(F) Second Final Flow 66
(G) Final Shut-In 1021
(H) Final Hydrostatic 1636

☒ Test 1125"
☒ Jars 250"
☒ Safety Joint 75"
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage WDR RT 82.50
☐ Sampler _____
☐ Straddle _____
☒ Shale Packer 250"
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
Sub Total 1782.50

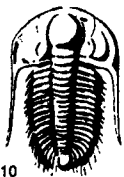
T-On Location 0830
T-Started 0848
T-Open 1000
T-Pulled 1300
T-Out 1415
Comments _____
☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total 0
Total 1782.50
MP/DST Disc't _____

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

Approved By _____

Our Representative Brian Farbank

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039969

Well Name & No. Mulder A Test No. 4 Date 9-22-10
 Company IOF Elevation 2183 KB 2178 GL
 Address _____
 Co. Rep / Geo. Steve Murphy Rig WW 8
 Location: Sec. 12 Twp. 4 Rge. 21 Co. Norton State K

Interval Tested 3458-3475 Zone Tested LKC "D"
 Anchor Length 17 Drill Pipe Run 3332 Mud Wt. 9.0
 Top Packer Depth 3453 Drill Collars Run 123 Vis 55
 Bottom Packer Depth 3458 Wt. Pipe Run — WL 8.4
 Total Depth 3475 Chlorides 1100 ppm System LCM _____

Blow Description IFP- BOB 75 sec
ISI- 8 1/2" blow back
FFP- BOB 2 1/2 min
FSI- BOB 27 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>GIP</u>				
<u>1340</u>	<u>G Free Oil</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>90</u>	<u>G MCO</u>	<u>20</u>	<u>70</u>	<u>10</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1430 BHT 102 Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

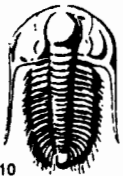
(A) Initial Hydrostatic	<u>1662</u>	☒ Test	<u>1125</u>	T-On Location	<u>1846</u>
(B) First Initial Flow	<u>116</u>	☒ Jars	<u>250</u>	T-Started	<u>1926</u>
(C) First Final Flow	<u>335</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>2045</u>
(D) Initial Shut-In	<u>1121</u>	☐ Circ Sub		T-Pulled	<u>2300</u>
(E) Second Initial Flow	<u>363</u>	☐ Hourly Standby		T-Out	<u>0132</u>
(F) Second Final Flow	<u>531</u>	☒ Mileage	<u>100 RT 8250</u>	Comments	<u>Tool slid 2' to bottom</u>
(G) Final Shut-In	<u>1120</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1629</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open	<u>30</u>	☒ Shale Packer	<u>250</u>	☐ Ruined Packer	
Initial Shut-In	<u>30</u>	☐ Extra Packer		☐ Extra Copies	
Final Flow	<u>30</u>	☐ Extra Recorder		Sub Total	<u>8</u>
Final Shut-In	<u>45</u>	☐ Day Standby		Total	<u>1782.50</u>
		☐ Accessibility		MP/DST Disc't	

Sub Total 1782.50

Approved By _____ Our Representative Brian Farbank

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039970

Well Name & No. Mulder A Test No. 5 Date 9-23-10
 Company JOF Elevation 2183 KB 2178 GL
 Address _____
 Co. Rep / Geo. Steve Murphy Rig WW8
 Location: Sec. 12 Twp. 4 Rge. 21 Co. Nebraska State KS

Interval Tested 3480-3495 Zone Tested LAC "E"
 Anchor Length 15 Drill Pipe Run 3334 Mud Wt. 9.0
 Top Packer Depth 3475 Drill Collars Run 123 Vis SS
 Bottom Packer Depth 3480 Wt. Pipe Run — WL 8.4
 Total Depth 3495 Chlorides 1100 ppm System LCM

Blow Description IFP - stg su blow - died 17 min
ISI - no blow back
FFP - no blow
FSTI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>	<u>10</u>		<u>90</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 5 BHT 96 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1662</u>	☒ Test	<u>1125</u>	T-On Location	<u>0627</u>
(B) First Initial Flow	<u>30</u>	☒ Jars	<u>250</u>	T-Started	<u>0700</u>
(C) First Final Flow	<u>29</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>0819</u>
(D) Initial Shut-In	<u>1065</u>	☐ Circ Sub		T-Pulled	<u>1019</u>
(E) Second Initial Flow	<u>38</u>	☐ Hourly Standby		T-Out	<u>1125</u>
(F) Second Final Flow	<u>31</u>	☒ Mileage	<u>66 RT 82.50</u>	Comments	
(G) Final Shut-In	<u>842</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1627</u>	☐ Straddle		☐ Ruined Shale Packer	

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

☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1782.50

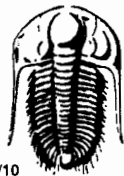
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1782.50
 MP/DST Disc't _____

Approved By _____

Our Representative

Brian Fairbank

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



**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039971

SEP 27 2000

Well Name & No. Mulder A Test No. 6 Date 9-23-00
Company J&F Elevation 2183 KB 2178 GL
Address _____
Co. Rep / Geo. Steve Murphy Rig WW8
Location: Sec. 12 Twp. 4 Rge. 21 Co. Norton State K

Interval Tested 3554-3605 Zone Tested LKC "I-L"
Anchor Length 51 Drill Pipe Run 3425 Mud Wt. 9.0
Top Packer Depth 3549 Drill Collars Run 123 Vis 49
Bottom Packer Depth 3554 Wt. Pipe Run — WL 7.6
Total Depth 3605 Chlorides 1000 ppm System LCM _____

Blow Description IFP - stop sub blow - died 6 min
ISI - no blow back
FFP - no blow
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>USOCM</u>	<u>5</u>	<u>—</u>	<u>—</u>	<u>95</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 1 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1742
(B) First Initial Flow 48
(C) First Final Flow 41
(D) Initial Shut-In 103
(E) Second Initial Flow 46
(F) Second Final Flow 40
(G) Final Shut-In 68
(H) Final Hydrostatic 1713

☒ Test 1125
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage WORT 8250
☐ Sampler _____
☐ Straddle _____
☒ Shale Packer 250
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
Sub Total 178250

T-On Location 2000
T-Started 2029
T-Open 2147
T-Pulled 2347
T-Out 2056
Comments _____

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

☒ Ruined Shale Packer 280
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total 280
Total 206250
MP/DST Disc't _____

Approved By _____

Our Representative Brian Fairbairn

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.