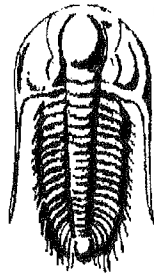


15-101-22001

15-17s-28w

KGS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

15 17 28 Lane KS

Borell #1-15

Start Date: 2007.01.22 @ 02:20:56

End Date: 2007.01.22 @ 09:40:05

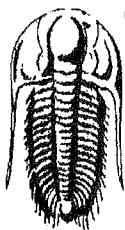
Job Ticket #: 26426 DST #: 1

KCC
MAY 03 2007
CONFIDENTIAL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Borell #1-15

15 17 28 Lane KS

Job Ticket: 26426

DST#: 1

Test Start: 2007.01.22 @ 02:20:56

GENERAL INFORMATION:

Formation: **E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:05:06

Time Test Ended: 09:40:05

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4025.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Reference Elevations: 2756.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 20.80 psig @ 4026.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.22

End Date:

2007.01.22

Last Calib.: 2007.01.22

Start Time: 02:20:56

End Time:

09:24:05

Time On Btm: 2007.01.22 @ 05:04:36

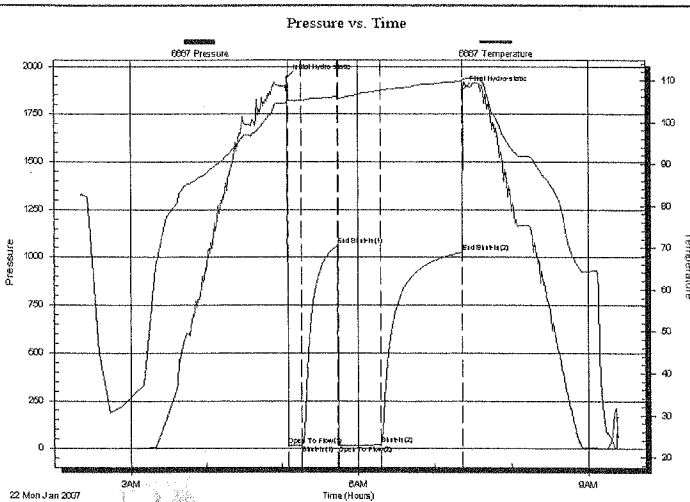
Time Off Btm: 2007.01.22 @ 07:22:05

TEST COMMENT: Weak surface blow

No return

No blow

No return



PRESSURE SUMMARY

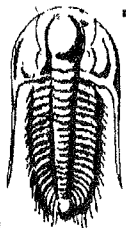
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.18	105.57	Initial Hydro-static
1	14.10	105.15	Open To Flow (1)
12	16.30	105.25	Shut-In (1)
40	1060.41	106.07	End Shut-In (1)
40	15.16	105.77	Open To Flow (2)
74	20.80	107.58	Shut-In (2)
138	1027.52	109.79	End Shut-In (2)
138	1875.29	110.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26426

DST#: 1

ATTN: Kevin Kessler

Test Start: 2007.01.22 @ 02:20:56

Tool Information

Drill Pipe:	Length:	4013.00 ft	Diameter:	3.80 inches	Volume:	56.29 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	56.29 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4025.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		35.00 ft						
Tool Length:		54.00 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			4011.00		
Hydraulic tool	5.00			4016.00		
Packer	5.00			4021.00	19.00	Bottom Of Top Packer
Packer	4.00		Inside	4025.00		
Stubb	1.00			4026.00		
Recorder	0.00	6667	Inside	4026.00		
Perforations	29.00			4055.00		
Recorder	0.00	11058	Outside	4055.00		
Bullnose	5.00			4060.00	35.00	Bottom Packers & Anchor
Total Tool Length:	54.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26426

DST#: 1

ATTN: Kevin Kessler

Test Start: 2007.01.22 @ 02:20:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

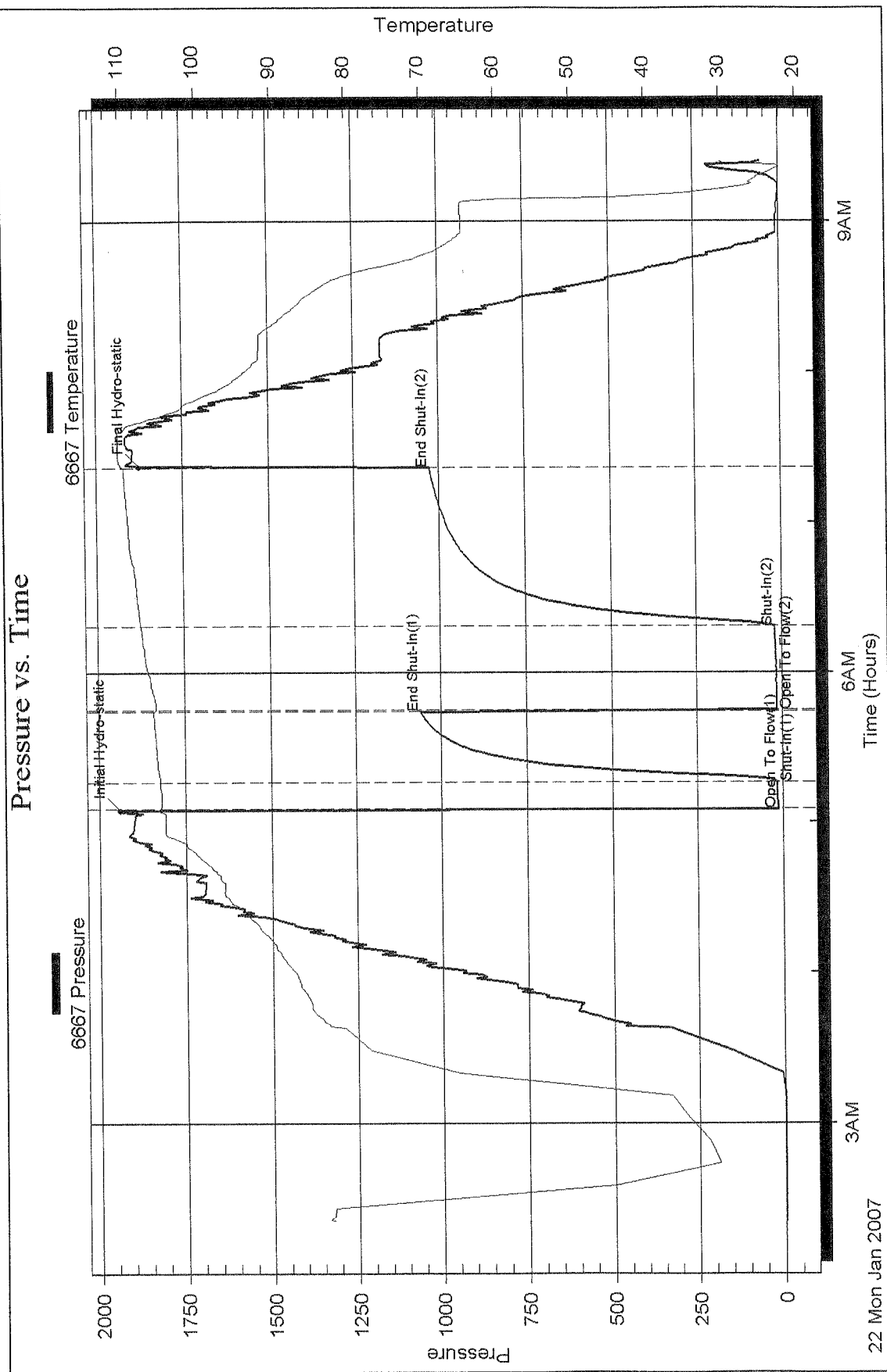
Serial #:

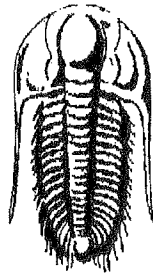
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

15 17 28 Lane KS

Borell #1-15

Start Date: 2007.01.23 @ 03:39:30

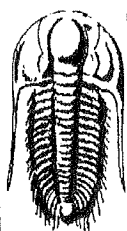
End Date: 2007.01.23 @ 09:45:54

Job Ticket #: 26427 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Borell #1-15

15 17 28 Lane KS

Job Ticket: 26427

DST#: 2

Test Start: 2007.01.23 @ 03:39:30

GENERAL INFORMATION:

Formation: H-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:55

Time Test Ended: 09:45:54

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4100.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2756.00 ft (KB)

2746.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 32.06 psig @ 4101.00 ft (KB)

Start Date: 2007.01.23

End Date: 2007.01.23

Capacity: 7000.00 psig

Last Calib.: 2007.01.23

Start Time: 03:39:30

End Time: 09:39:54

Time On Btm: 2007.01.23 @ 05:32:40

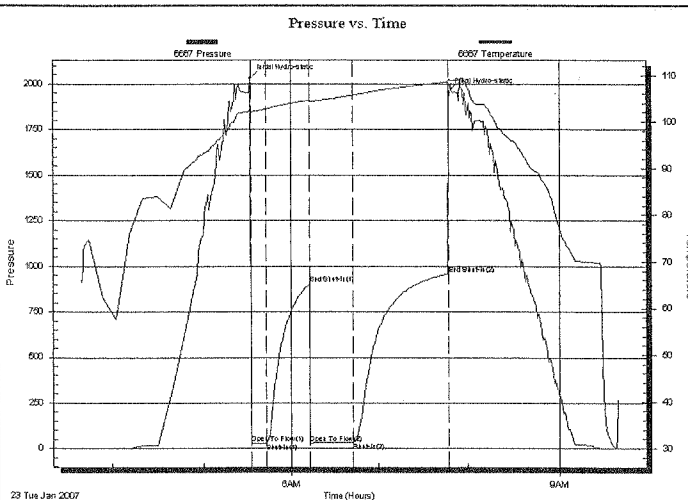
Time Off Btm: 2007.01.23 @ 07:47:10

TEST COMMENT: Weak surface blow

No return

No blow

No return



PRESSURE SUMMARY

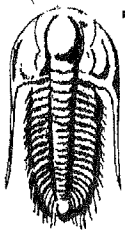
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.88	102.50	Initial Hydro-static
1	28.08	101.59	Open To Flow (1)
11	29.77	102.75	Shut-In (1)
40	903.29	104.57	End Shut-In (1)
41	30.48	104.27	Open To Flow (2)
70	32.06	105.68	Shut-In (2)
135	958.05	108.51	End Shut-In (2)
135	1956.93	108.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26427

DST#: 2

ATTN: Kevin Kessler

Test Start: 2007.01.23 @ 03:39:30

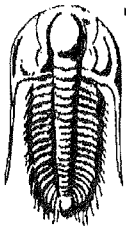
Tool Information

Drill Pipe:	Length: 4105.00 ft	Diameter: 3.80 inches	Volume: 57.58 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4100.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	119.00 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			4086.00	
Hydraulic tool	5.00			4091.00	
Packer	5.00			4096.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4100.00	
Stubb	1.00			4101.00	
Recorder	0.00	6667	Inside	4101.00	
Perforations	30.00			4131.00	
Change Over Sub	1.00			4132.00	
Drill Pipe	62.00			4194.00	
Change Over Sub	1.00			4195.00	
Recorder	0.00	11058	Outside	4195.00	
Bullnose	5.00			4200.00	100.00 Bottom Packers & Anchor

Total Tool Length: 119.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26427

DST#: 2

ATTN: Kevin Kessler

Test Start: 2007.01.23 @ 03:39:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

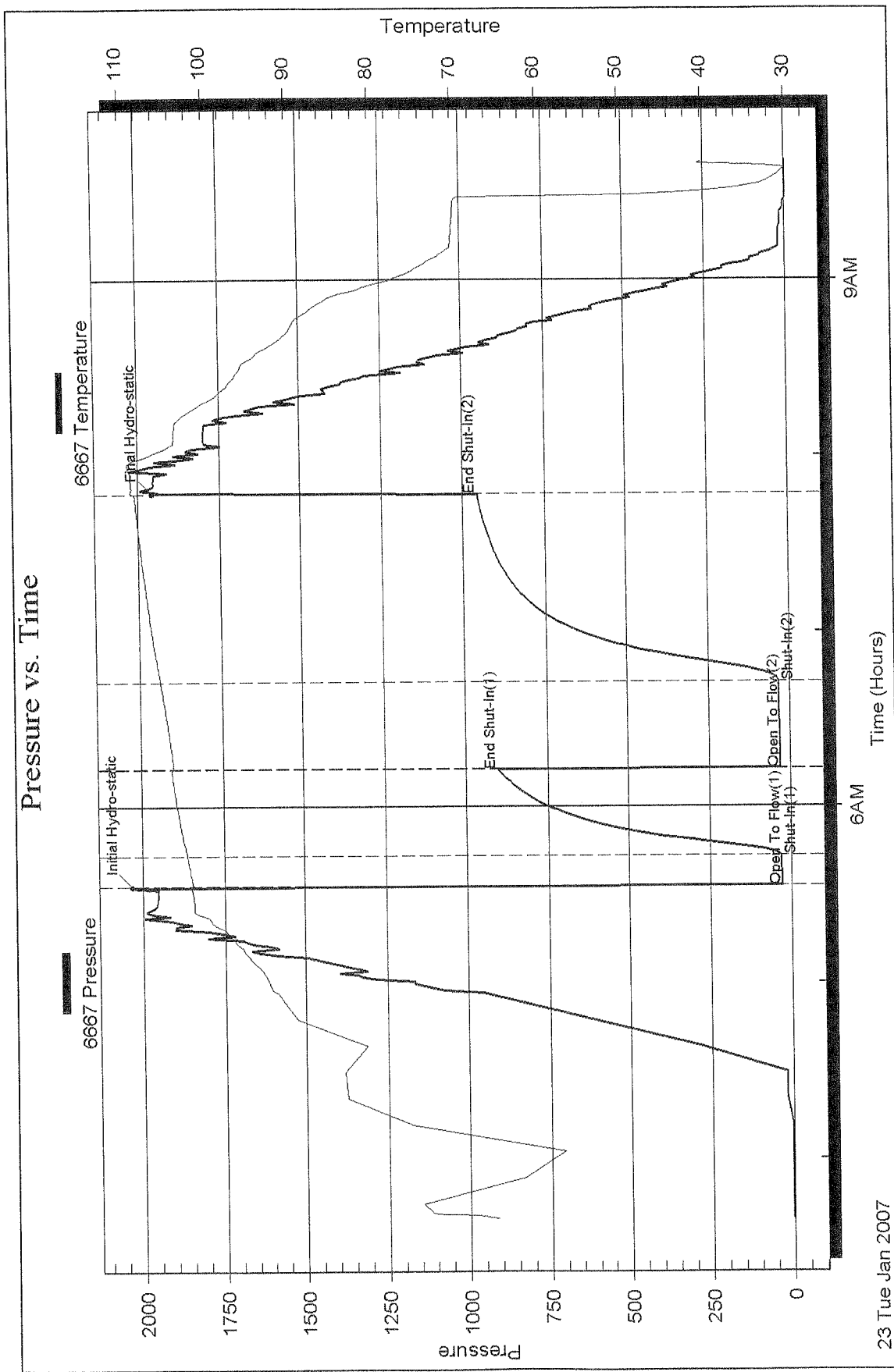
Serial #:

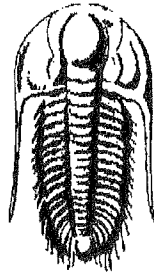
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

15 17 28 Lane KS

Borell #1-15

Start Date: 2007.01.24 @ 22:20:54

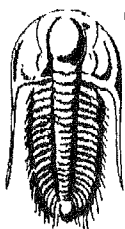
End Date: 2007.01.25 @ 05:40:33

Job Ticket #: 26428 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Borell #1-15

15 17 28 Lane KS

Job Ticket: 26428

DST#: 3

Test Start: 2007.01.24 @ 22:20:54

GENERAL INFORMATION:

Formation: **K**

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

Time Tool Opened: 23:52:49

Time Test Ended: 05:40:33

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4201.00 ft (KB) To 4241.00 ft (KB) (TVD)**

Total Depth: **4241.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2756.00 ft (KB)**

2746.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: **140.99 psig @ 4202.00 ft (KB)**

Start Date: **2007.01.24**

End Date:

2007.01.25

Capacity: **7000.00 psig**

Last Calib.: **2007.01.24**

Start Time: **22:20:54**

End Time:

05:27:33

Time On Btm: **2007.01.24 @ 23:52:34**

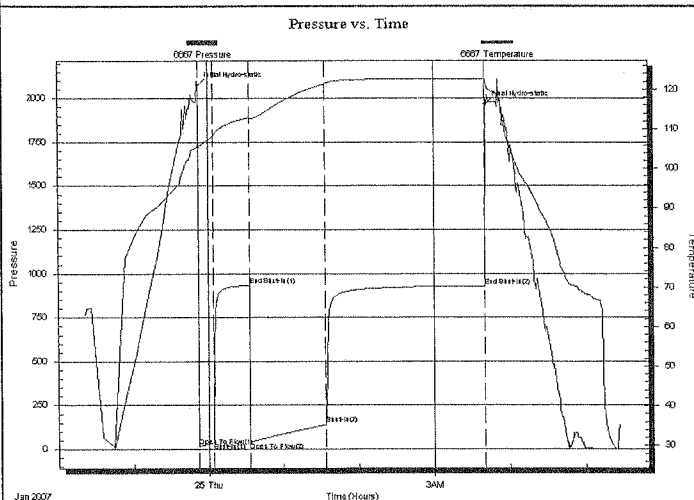
Time Off Btm: **2007.01.25 @ 03:40:33**

TEST COMMENT: **1/2 " @ open built to 3 "**

No return

1/4 " @ open built to 10 1/2 "

No return



PRESSURE SUMMARY

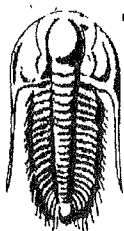
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.01	105.78	Initial Hydro-static
1	15.54	104.68	Open To Flow (1)
12	37.01	108.12	Shut-In (1)
41	933.61	112.89	End Shut-In (1)
41	41.06	112.64	Open To Flow (2)
102	140.99	121.42	Shut-In (2)
228	929.44	122.56	End Shut-In (2)
228	1964.32	122.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCW 40%M 60%W	0.42
240.00	Water 100%W	3.37

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26428

DST#: 3

ATTN: Kevin Kessler

Test Start: 2007.01.24 @ 22:20:54

Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight:	1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			Total Volume: 59.00 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4201.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	59.00 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			4187.00	
Hydraulic tool	5.00			4192.00	
Packer	5.00			4197.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4201.00	
Stubb	1.00			4202.00	
Recorder	0.00	6667	Inside	4202.00	
Perforations	34.00			4236.00	
Recorder	0.00	11058	Outside	4236.00	
Bullnose	5.00			4241.00	40.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26428

DST#: 3

ATTN: Kevin Kessler

Test Start: 2007.01.24 @ 22:20:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 58000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCW 40%M 60%W	0.421
240.00	Water 100%W	3.367

Total Length: 270.00 ft

Total Volume: 3.788 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

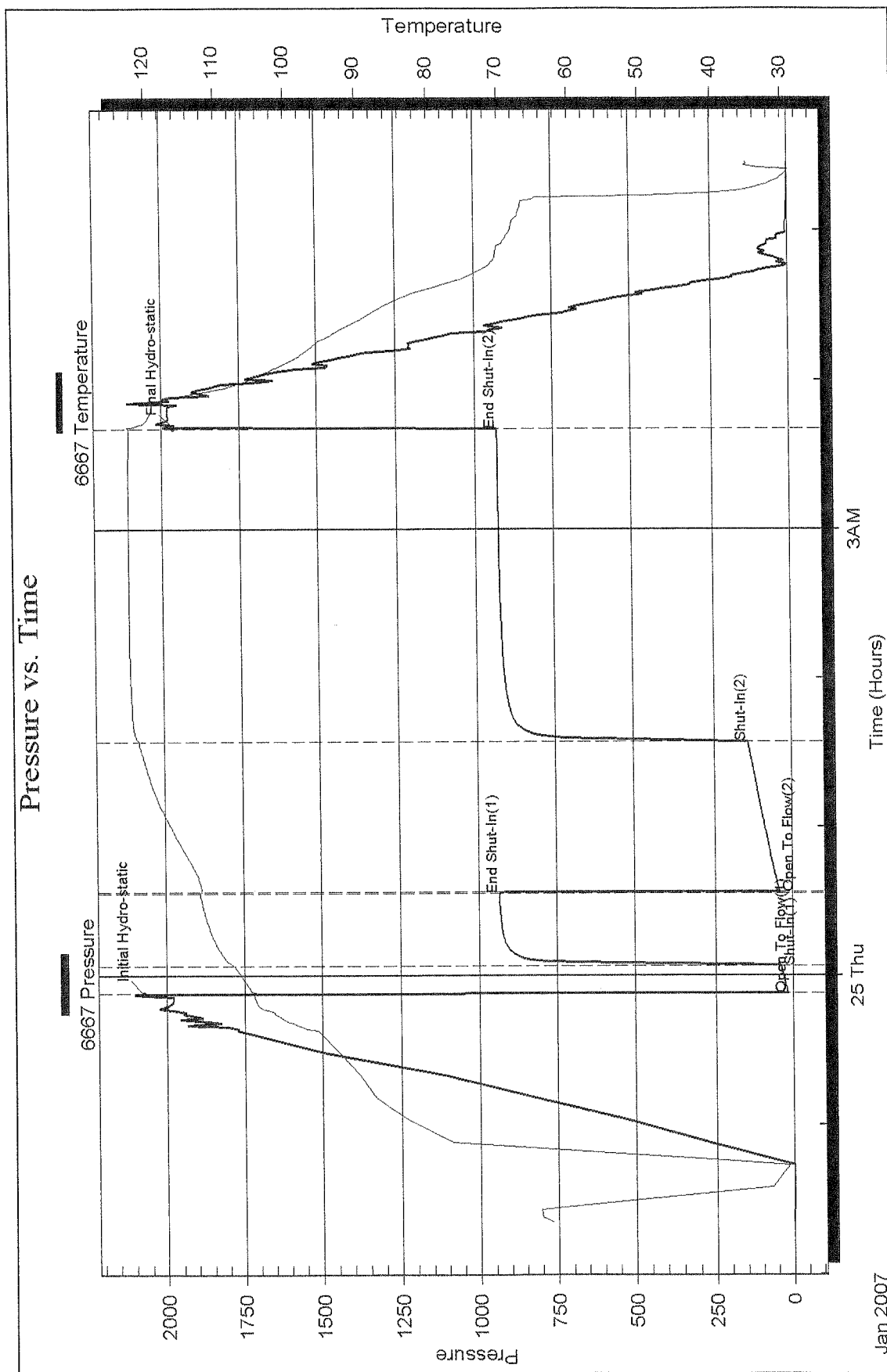
Serial #:

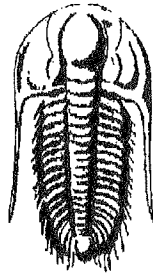
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

15 17 28 Lane KS

Borell #1-15

Start Date: 2007.01.24 @ 14:30:57

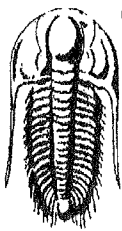
End Date: 2007.01.24 @ 22:25:06

Job Ticket #: 26429 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Borell #1-15

15 17 28 Lane KS

Job Ticket: 26429

DST#: 4

Test Start: 2007.01.24 @ 14:30:57

GENERAL INFORMATION:

Formation: L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:31:52

Time Test Ended: 22:25:06

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4245.00 ft (KB) To 4280.00 ft (KB) (TVD)

Total Depth: 4280.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2756.00 ft (KB)

2746.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 76.18 psig @ 4246.00 ft (KB)

Start Date: 2007.01.24

End Date:

2007.01.24

Capacity: 7000.00 psig

Last Calib.: 2007.01.24

Start Time: 14:30:57

End Time:

22:16:06

Time On Btm: 2007.01.24 @ 16:31:37

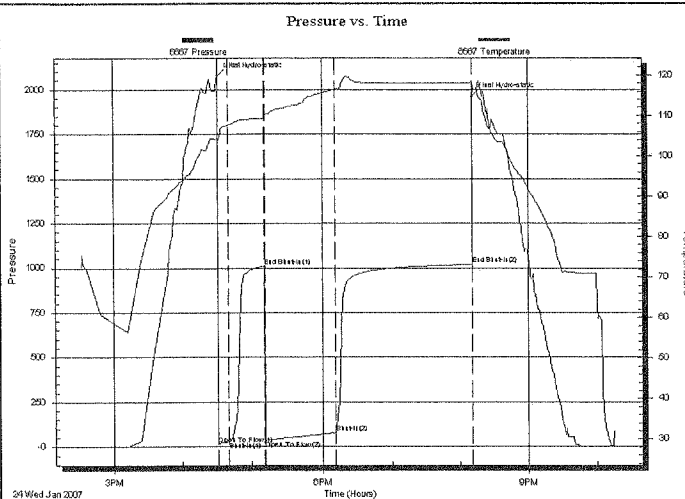
Time Off Btm: 2007.01.24 @ 20:10:52

TEST COMMENT: 1/2 " @ open built to 6 1/4 "

No return

BOB in 6 min.

No return



PRESSURE SUMMARY

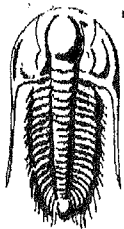
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.12	104.58	Initial Hydro-static
1	14.80	103.57	Open To Flow (1)
10	26.99	107.62	Shut-In(1)
40	1009.53	109.29	End Shut-In(1)
40	31.71	109.28	Open To Flow (2)
99	76.18	116.39	Shut-In(2)
219	1018.55	118.18	End Shut-In(2)
220	1960.00	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 35%O 65%M	0.84
90.00	MCO 40%M 60%O	1.26

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26429

DST#: 4

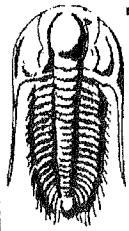
ATTN: Kevin Kessler

Test Start: 2007.01.24 @ 14:30:57

Tool Information

Drill Pipe:	Length:	4232.00 ft	Diameter:	3.80 inches	Volume:	59.36 bbl	Tool Weight:	1500.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	59.36 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		4245.00 ft					Final	54000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		35.00 ft						
Tool Length:		54.00 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			4231.00	
Hydraulic tool	5.00			4236.00	
Packer	5.00			4241.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4245.00	
Stubb	1.00			4246.00	
Recorder	0.00	6667	Inside	4246.00	
Perforations	29.00			4275.00	
Recorder	0.00	11058	Outside	4275.00	
Bullnose	5.00			4280.00	35.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26429

DST#: 4

ATTN: Kevin Kessler

Test Start: 2007.01.24 @ 14:30:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 35%O 65%M	0.842
90.00	MCO 40%M 60%O	1.262

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

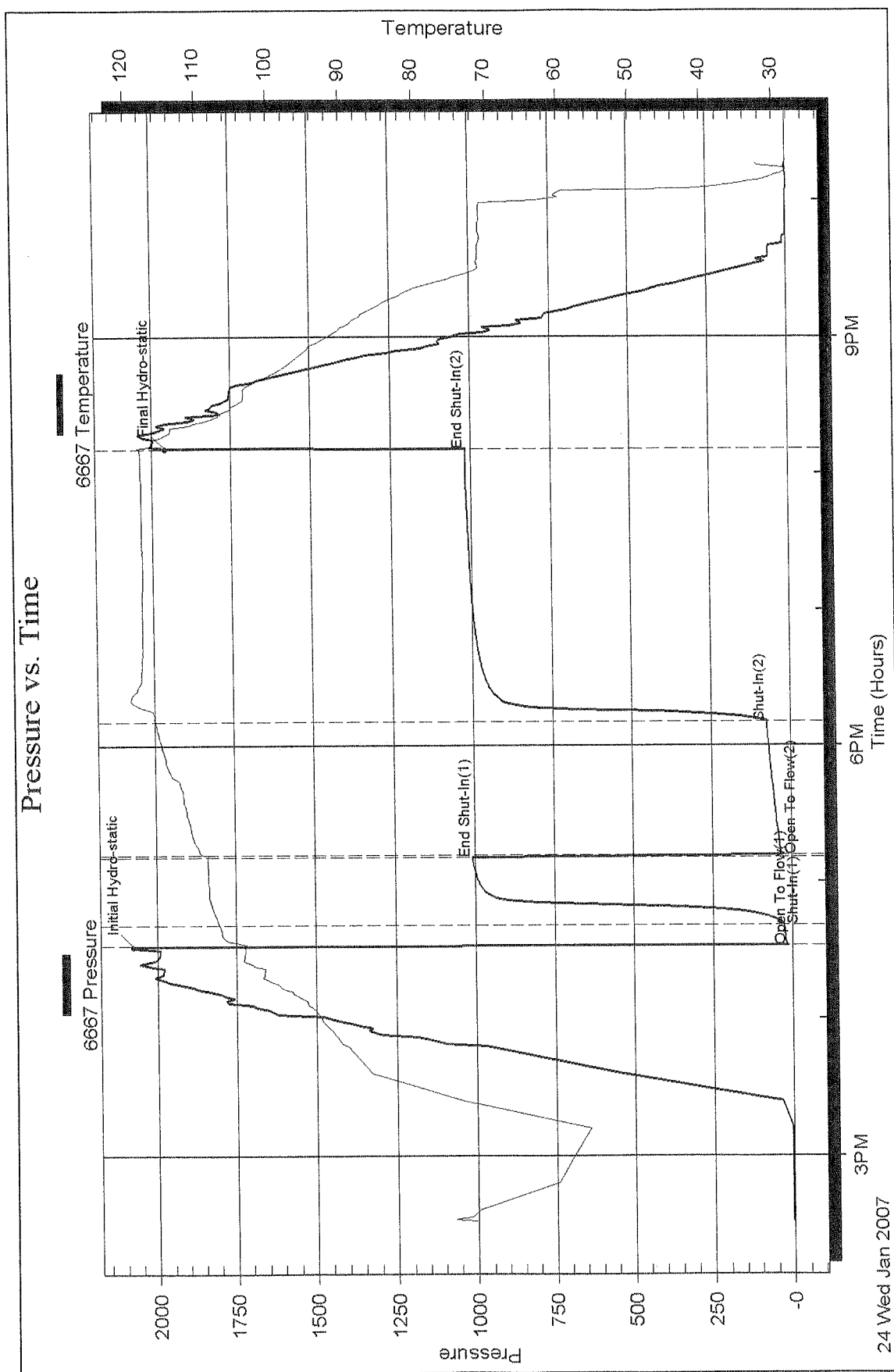
Serial #:

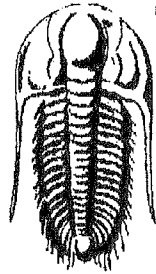
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

15 17 28 Lane KS

Borell #1-15

Start Date: 2007.01.25 @ 15:30:11

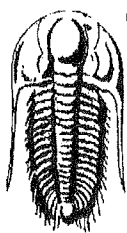
End Date: 2007.01.25 @ 00:30:50

Job Ticket #: 26430 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company

PO Box 2758
Wichita KS 67201

ATTN: Kevin Kessler

Borell #1-15

15 17 28 Lane KS

Job Ticket: 26430

DST#: 5

Test Start: 2007.01.25 @ 15:30:11

GENERAL INFORMATION:

Formation: **Marm**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:51

Time Test Ended: 00:30:50

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4280.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Reference Elevations: 2756.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2746.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 327.01 psig @ 4281.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.01.25

End Date: 2007.01.25

Last Calib.: 2007.01.26

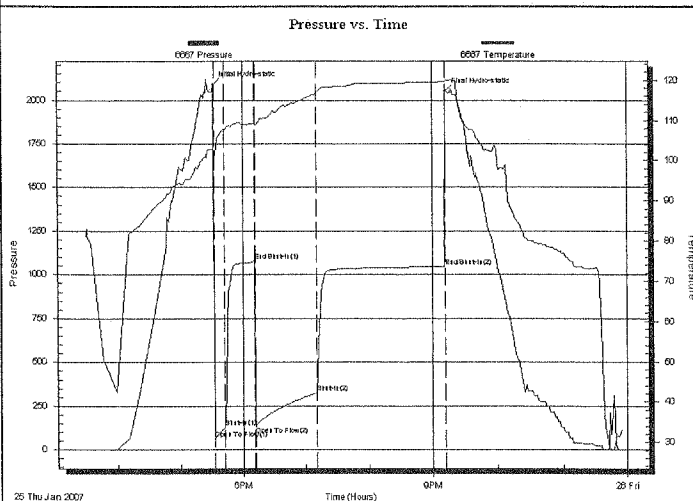
Start Time: 15:30:11

End Time: 23:55:50

Time On Btm: 2007.01.25 @ 17:31:21

Time Off Btm: 2007.01.25 @ 21:11:51

TEST COMMENT: BOB in 6 min.
Weak surface return
BOB in 5 min.
4 1/2" return



PRESSURE SUMMARY

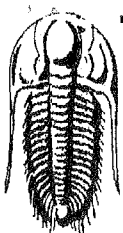
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.52	102.76	Initial Hydro-static
1	62.29	102.44	Open To Flow (1)
11	128.83	107.68	Shut-In (1)
39	1077.07	109.25	End Shut-In (1)
40	134.26	108.93	Open To Flow (2)
100	327.01	116.75	Shut-In (2)
220	1046.13	119.60	End Shut-In (2)
221	2048.24	119.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GW & OCM 25%G 10%W 20%O 45%M	1.74
496.00	GW&MCO 30%G 10%W 15%M 45%O	6.96
62.00	GSOCMW 10%G 5%O 40%M 45%W	0.87

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26430

DST#: 5

ATTN: Kevin Kessler

Test Start: 2007.01.25 @ 15:30:11

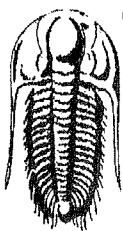
Tool Information

Drill Pipe:	Length: 4292.00 ft	Diameter: 3.80 inches	Volume: 60.21 bbl	Tool Weight:	1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	60.21 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4280.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	129.00 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			4266.00	
Hydraulic tool	5.00			4271.00	
Packer	5.00			4276.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4280.00	
Stubb	1.00			4281.00	
Recorder	0.00	6667	Inside	4281.00	
Perforations	9.00			4290.00	
Change Over Sub	1.00			4291.00	
Drill Pipe	93.00			4384.00	
Change Over Sub	1.00			4385.00	
Recorder	0.00	11058	Outside	4385.00	
Bullnose	5.00			4390.00	110.00 Bottom Packers & Anchor

Total Tool Length: 129.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Borell #1-15

PO Box 2758
Wichita KS 67201

15 17 28 Lane KS

Job Ticket: 26430

DST#: 5

ATTN: Kevin Kessler

Test Start: 2007.01.25 @ 15:30:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 53000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GW & OCM 25%G 10%W 20%O 45%M	1.739
496.00	GW&MCO 30%G 10%W 15%M 45%O	6.958
62.00	GSOCMW 10%G 5%O 40%M 45%W	0.870

Total Length: 682.00 ft

Total Volume: 9.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 5

15 17 28 Lane KS

Mull Drilling Company

Inside

Serial #: 6667

Pressure vs. Time

