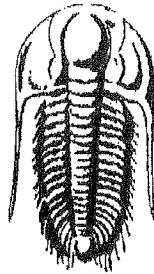


15-135-24811

34-19s-23w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

221 N. Main
Suite 300
Wichita, KS 67202

ATTN: Phil Askey

34 19 23 Ness KS

Monty #1-34

Start Date: 2008.08.08 @ 18:06:00

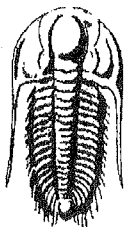
End Date: 2008.08.09 @ 00:23:00

Job Ticket #: 32554 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

Monty #1-34

34 19 23 Ness KS

Job Ticket: 32554

DST#: 1

Test Start: 2008.08.08 @ 18:06:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:44:45

Time Test Ended: 00:23:00

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4258.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Total Depth: 4310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2267.00 ft (KB)

2262.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8017 Inside

Press@RunDepth: 74.32 psig @ 4262.00 ft (KB)

Start Date: 2008.08.08

End Date:

2008.08.09

Capacity: 7000.00 psig

Last Calib.: 2008.08.09

Start Time: 18:06:01

End Time:

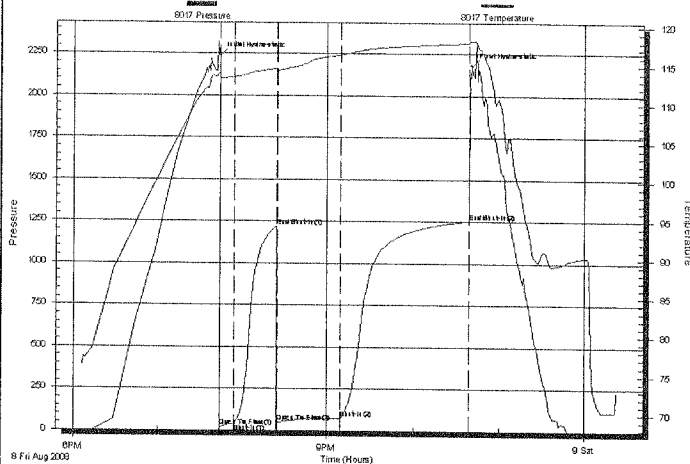
00:23:00

Time On Btm: 2008.08.08 @ 19:44:30

Time Off Btm: 2008.08.08 @ 22:40:45

TEST COMMENT: IF 2" Blow
ISI No return
FF BOB @ 33 min
FSI No return

Pressure vs. Time



PRESSURE SUMMARY

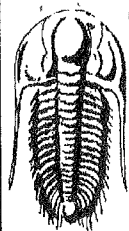
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.00	114.05	Initial Hydro-static
1	19.37	113.20	Open To Flow (1)
10	40.90	113.50	Shut-In(1)
40	1217.22	114.61	End Shut-In(1)
41	48.54	114.31	Open To Flow (2)
85	74.32	116.38	Shut-In(2)
175	1253.62	117.93	End Shut-In(2)
177	2178.59	118.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOWCM 50%G 10%O 20%W 20%M	0.30
61.00	GOCM 5%G 2%O 93%M	0.30
10.00	M 100%M	0.14
0.00	50 Feet of weak GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

Monty #1-34

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

34 19 23 Ness KS

Job Ticket: 32554

DST#: 1

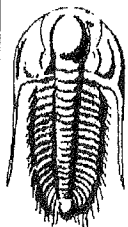
Test Start: 2008.08.08 @ 18:06:00

Tool Information

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 bbl	Tool Weight: 2200.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 58.55 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4258.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4237.00	
Shut In Tool	5.00			4242.00	
Hydraulic tool	5.00			4247.00	
Safety Joint	2.00			4249.00	
Packer	5.00			4254.00	22.00 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Perforations	3.00			4262.00	
Recorder	0.00	8017	Inside	4262.00	
Recorder	0.00	8351	Inside	4262.00	
Perforations	10.00			4272.00	
Change Over Sub	1.00			4273.00	
Anchor	31.00			4304.00	
Change Over Sub	1.00			4305.00	
Bullnose	5.00			4310.00	52.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

Monty #1-34

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

34 19 23 Ness KS

Job Ticket: 32554

DST#: 1

Test Start: 2008.08.08 @ 18:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

15000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GOWCM 50%G 10%O 20%W 20%M	0.300
61.00	GOCM 5%G 2%O 93%M	0.300
10.00	M 100%M	0.140
0.00	50 Feet of weak GIP	0.000

Total Length: 132.00 ft Total Volume: 0.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

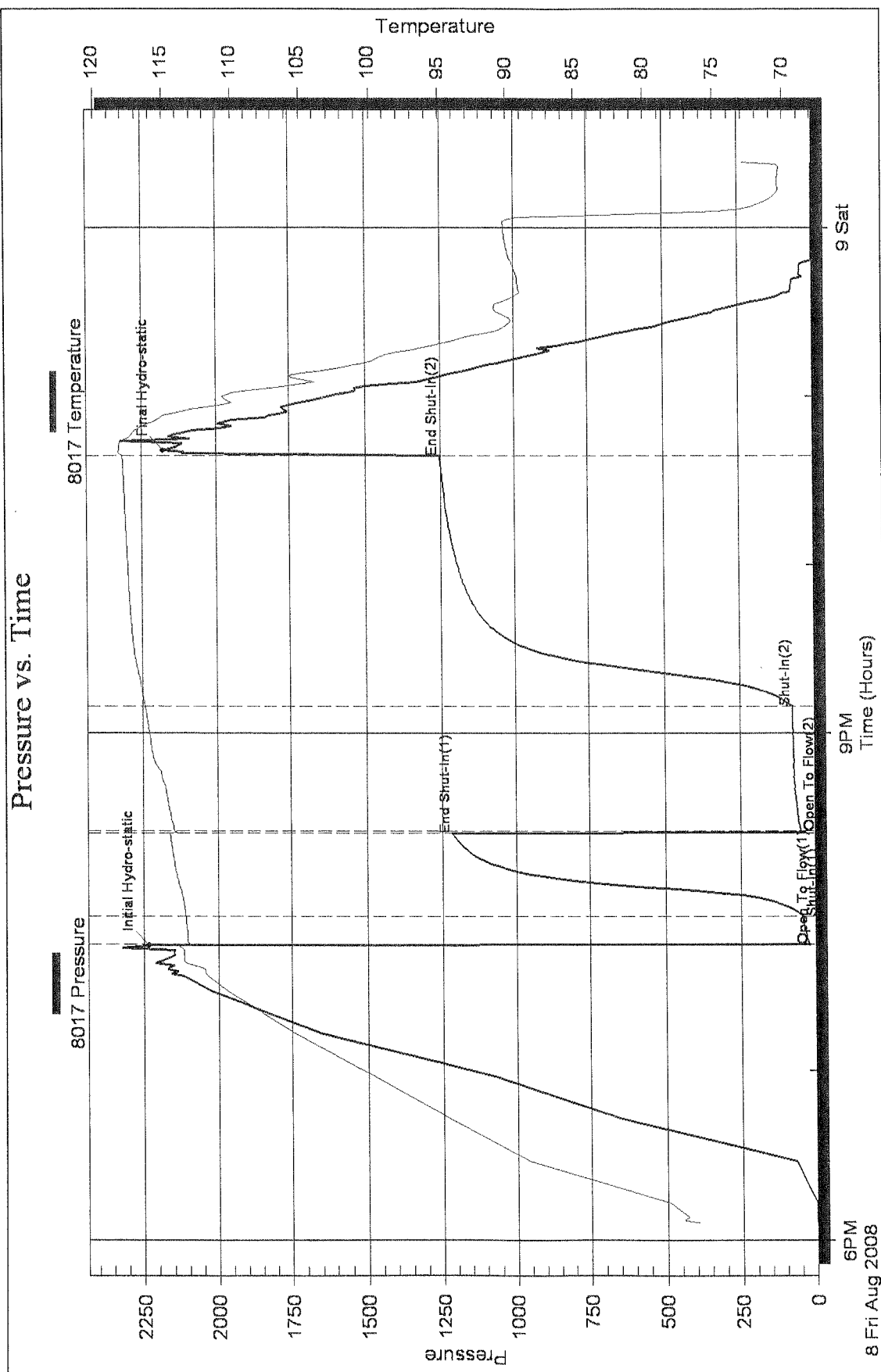
Serial #:

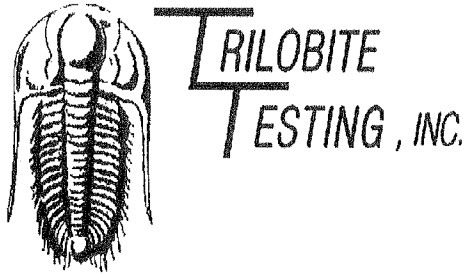
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .480 @ 73 Degrees F = 15000 chlorides.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

221 N. Main
Suite 300
Wichita, KS 67202

ATTN: Phil Askey

34 19 23 Ness KS

Monty #1-34

Start Date: 2008.08.09 @ 09:20:00

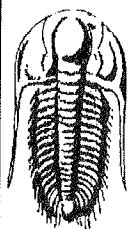
End Date: 2008.08.09 @ 19:02:45

Job Ticket #: 32555 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

Monty #1-34

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

34 19 23 Ness KS

Job Ticket: 32555

DST#: 2

Test Start: 2008.08.09 @ 09:20:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:30

Time Test Ended: 19:02:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4305.00 ft (KB) To 4386.00 ft (KB) (TVD)

Total Depth: 4386.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2267.00 ft (KB)

2262.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8351 Inside

Press@RunDepth: 654.47 psig @ 4309.00 ft (KB)

Start Date: 2008.08.09

End Date:

2008.08.09

Start Time: 09:20:01

End Time:

19:02:45

Capacity: 7000.00 psig

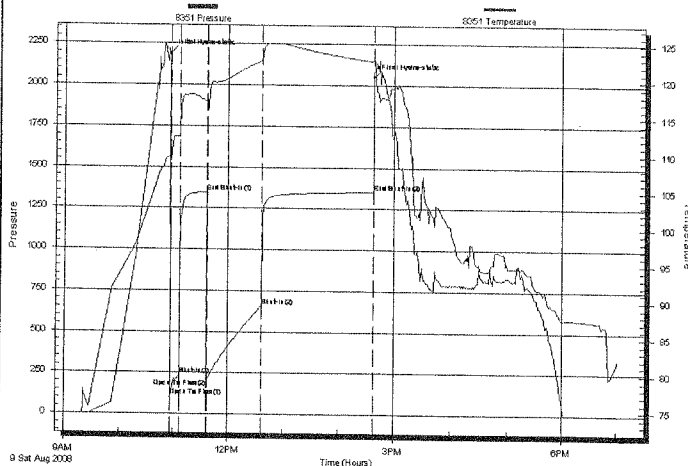
Last Calib.: 2008.08.09

Time On Btm: 2008.08.09 @ 10:56:00

Time Off Btm: 2008.08.09 @ 14:38:30

TEST COMMENT: IF BOB @ 4 min
ISI 1" Return died @ 27 min
FF BOB @ 3 1/2 min
FSI 1 1/2" Return died @ 45 min

Pressure vs. Time



PRESSURE SUMMARY

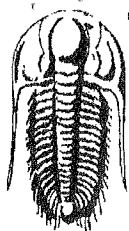
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.69	109.61	Initial Hydro-static
1	104.55	109.24	Open To Flow (1)
11	233.11	112.42	Shut-In(1)
41	1347.42	117.26	End Shut-In(1)
42	210.45	116.04	Open To Flow (2)
101	654.47	122.75	Shut-In(2)
223	1351.02	122.75	End Shut-In(2)
223	2050.26	123.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	WOCM 5%W 10%O 85%M	0.30
61.00	MCO 30%M 70%O	0.30
1588.00	GMCO 15%G 10%M 75%O Circulated out	22.28
105.00	GMCO 15%G 10%M 75%O	1.47
0.00	195 Feet GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

Monty #1-34

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

34 19 23 Ness KS

Job Ticket: 32555

DST#: 2

Test Start: 2008.08.09 @ 09:20:00

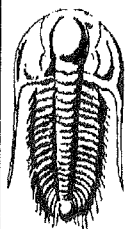
Tool Information

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 59.01 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4305.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4284.00	
Shut In Tool	5.00			4289.00	
Hydraulic tool	5.00			4294.00	
Safety Joint	2.00			4296.00	
Packer	5.00			4301.00	22.00 Bottom Of Top Packer
Packer	4.00			4305.00	
Stubb	1.00			4306.00	
Perforations	3.00			4309.00	
Recorder	0.00	8017	Inside	4309.00	
Recorder	0.00	8351	Inside	4309.00	
Perforations	10.00			4319.00	
Change Over Sub	1.00			4320.00	
Anchor	60.00			4380.00	
Change Over Sub	1.00			4381.00	
Bullnose	5.00			4386.00	81.00 Bottom Packers & Anchor

Total Tool Length: 103.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

Monty #1-34

221 N. Main
Suite 300
Wichita, KS 67202
ATTN: Phil Askey

34 19 23 Ness KS

Job Ticket: 32555

DST#: 2

Test Start: 2008.08.09 @ 09:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 0.00 ohm.m

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

30 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	WOCM 5%W 10%O 85%M	0.300
61.00	MCO 30%M 70%O	0.300
1588.00	GMCO 15%G 10%M 75%O Circulated out to ti	22.275
105.00	GMCO 15%G 10%M 75%O	1.473
0.00	195 Feet GIP	0.000

Total Length: 1815.00 ft

Total Volume: 24.348 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 35 @ 110 Degrees F=30

Not enough clean water for chlorides check

Pressure vs. Time

