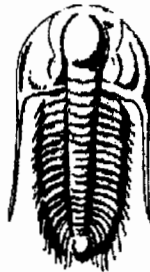


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TRILOBITE
TESTING, INC.

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DRILL STEM TEST REPORT

Prepared For: **M&M Exploration, inc.**

3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

10-34s-15w Barber KS

Z Bar #10-12

Start Date: 2003.03.16 @ 20:40:47

End Date: 2003.03.17 @ 06:44:02

Job Ticket #: 16879

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

M&M Exploration, inc.

3173 W.11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

Z Bar #10-12

10-34s-15w Barber KS

Job Ticket: 16879

DST#: 1

Test Start: 2003.03.16 @ 20:40:47

GENERAL INFORMATION:

Formation: **Drum**

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

Time Tool Opened: 22:54:02

Time Test Ended: 06:44:02

Test Type: **Conventional Bottom Hole**

Tester: **Darren L.Amerine**

Unit No: **19**

Interval: **4354.00 ft (KB) To 4395.00 ft (KB) (TVD)**

Total Depth: **4395.00 ft (KB) (TVD)**

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

Reference Elevations: **1647.00 ft (KB)**

1634.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 2346

Inside

Press@RunDepth: **213.85 psig @ 4361.00 ft (KB)**

Start Date: **2003.03.16**

End Date: **2003.03.17**

Start Time: **20:41:49**

End Time: **06:44:02**

Capacity: **7000.00 psig**

Last Calib.: **2003.03.17**

Time On Btm: **2003.03.16 @ 22:52:02**

Time Off Btm: **2003.03.17 @ 03:25:17**

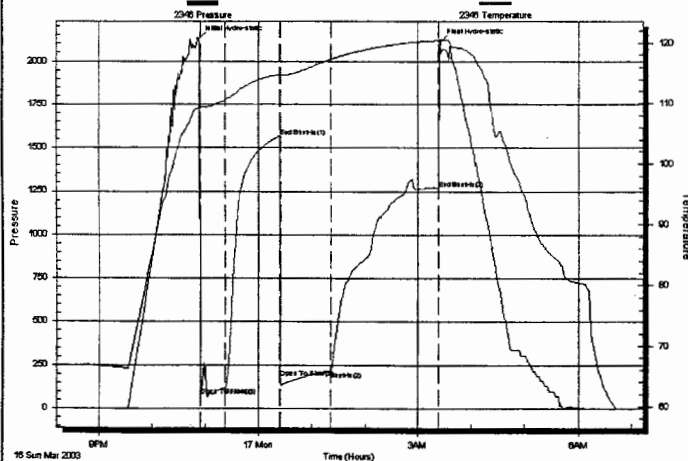
TEST COMMENT: IF: Fair blow built to b.o.b in 90 sec. GTS in 17 mins. gauge gas.

IS: Bled down for 5 mins. built back to 6" in H₂O bucket.

FF: Strong blow b.o.b in 15 sec. gauge gas.

FS: Bled down for 25 mins. built back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.39	109.25	Initial Hydro-static
2	72.62	109.23	Open To Flow (1)
30	120.14	110.55	Shut-In (1)
92	1564.55	114.80	End Shut-In (1)
93	174.40	114.85	Open To Flow (2)
149	213.85	117.32	Shut-In (2)
272	1261.48	120.40	End Shut-In (2)
274	2109.13	120.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3456.00	01 - Gas	46.78
340.00	300 - Oil and Gas cut Water	4.77
120.00	500 - Mud and Oil and Gas cut Water	1.68
240.00	50 - Oil	3.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

M&M Exploration, inc.

Z Bar #10-12

3173 W.11th Ave dr.
Broomfield Colorado 80020

10-34s-15w Barber KS

Job Ticket: 16879

DST#: 1

ATTN: Mike Pollock

Test Start: 2003.03.16 @ 20:40:47

Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 59.40 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4354.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4326.00	
S.I. Tool	5.00			4331.00	
HMV	5.00			4336.00	
Jars	5.00			4341.00	
Safety Joint	3.00			4344.00	
Packer	5.00			4349.00	29.00 Bottom Of Top Packer
Packer	5.00			4354.00	
Stubb	1.00			4355.00	
Anchor	6.00			4361.00	
Recorder	0.00	2346	Inside	4361.00	
Blank Spacing	31.00			4392.00	
Recorder	0.00	10991	Outside	4392.00	
Bullnose	3.00			4395.00	41.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

M&M Exploration, inc.

Z Bar #10-12

3173 W. 11th Ave dr.
Broomfield Colorado 80020

10-34s-15w Barber KS

Job Ticket: 16879

DST#: 1

ATTN: Mike Pollock

Test Start: 2003.03.16 @ 20:40:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

150000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.95 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3456.00	01 - Gas	46.784
340.00	300 - Oil and Gas cut Water	4.769
120.00	500 - Mud and Oil and Gas cut Water	1.683
240.00	50 - Oil	3.367

Total Length: 4156.00 ft

Total Volume: 56.603 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal Ks

Recovery Comments:

Serial # 2346

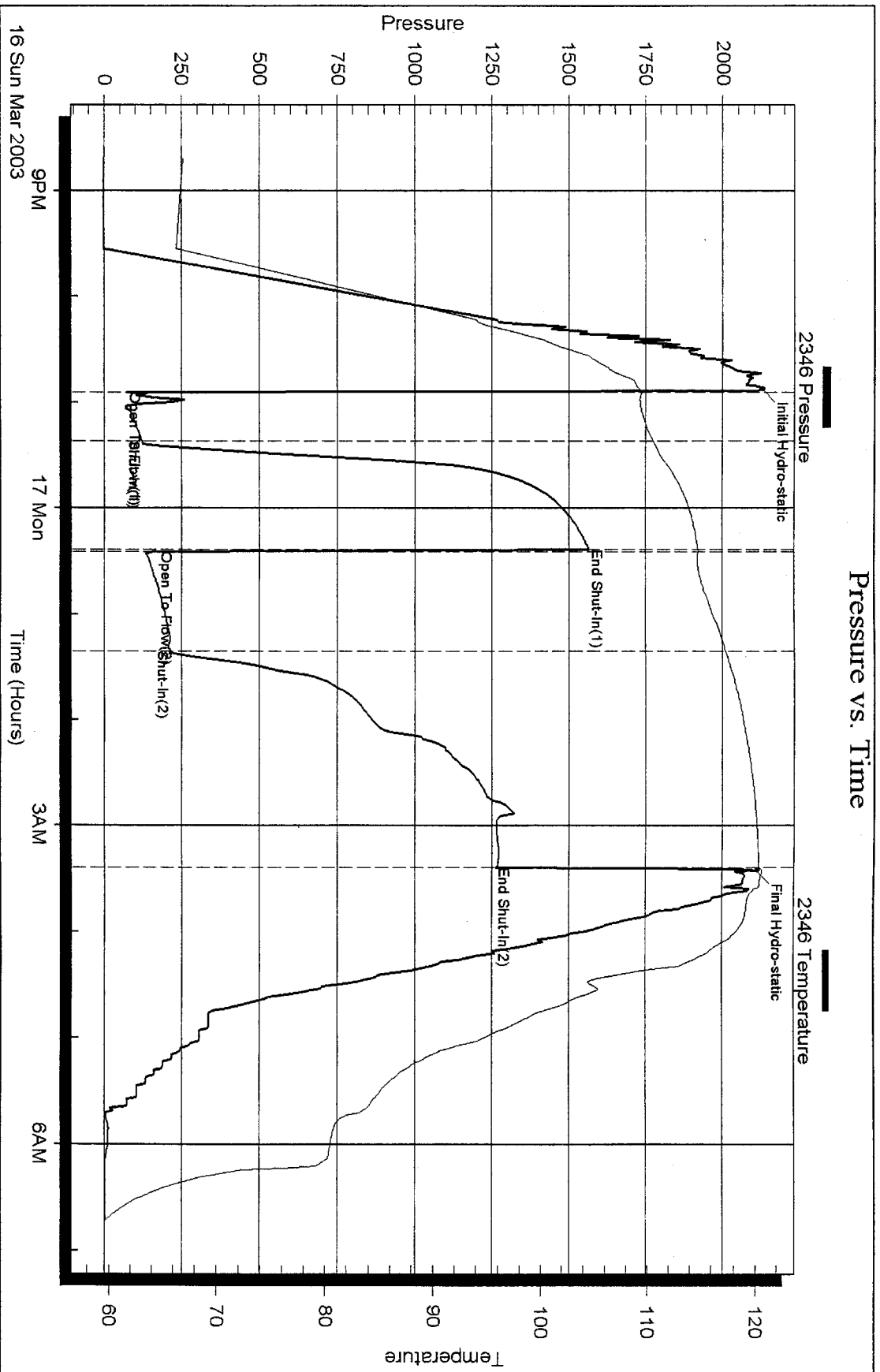
Inside

M&M Exploration, Inc.

10-34s-15w Barber KS

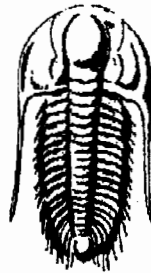
DST Test Number: 1

Pressure vs. Time



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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **M&M Exploration, inc.**

3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

10-34s-15w Barber KS

Z Bar #10-12

Start Date: 2003.03.17 @ 18:36:42

End Date: 2003.03.18 @ 02:46:12

Job Ticket #: 16880 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

M&M Exploration, inc.

3173 W.11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

Z Bar #10-12

10-34s-15w Barber KS

Job Ticket: 16880

DST#: 2

Test Start: 2003.03.17 @ 18:36:42

GENERAL INFORMATION:

Formation: **Dennis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:18:57

Time Test Ended: 02:46:12

Test Type: Conventional Bottom Hole

Tester: Darren L.Amerine

Unit No: 19

Interval: **4466.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1647.00 ft (KB)

1634.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: **2346**

Inside

Press@RunDepth: 14.51 psig @ 4467.00 ft (KB)

Start Date: 2003.03.17

End Date: 2003.03.18

Capacity: 7000.00 psig

Last Calib.: 2003.03.18

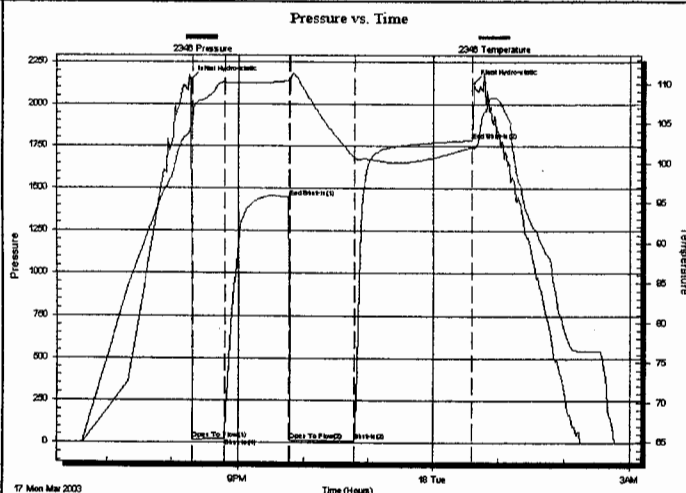
Start Time: 18:37:44

End Time: 02:46:12

Time On Btm: 2003.03.17 @ 20:17:57

Time Off Btm: 2003.03.18 @ 00:37:27

TEST COMMENT: IF: Strong blow b.o.b in 40 sec.
IS: Bled down for 8 mins. built back to b.o.b in 2 mins.
FF: Strong blow b.o.b in 10 sec. GTS gauge gas.
FS: Bled down for 5 mins. no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.89	104.42	Initial Hydro-static
1	16.94	105.02	Open To Flow (1)
30	23.37	110.20	Shut-In (1)
89	1446.85	110.43	End Shut-In (1)
90	14.26	110.64	Open To Flow (2)
149	14.51	100.78	Shut-In (2)
258	1783.06	102.06	End Shut-In (2)
260	2122.13	101.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4420.00	01 - Gas	60.31
20.00	GCM	0.28

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

M&M Exploration, inc.
3173 W.11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

Z Bar #10-12
10-34s-15w Barber KS
Job Ticket: 16880 **DST#: 2**
Test Start: 2003.03.17 @ 18:36:42

Tool Information

Drill Pipe:	Length: 4259.00 ft	Diameter: 3.80 inches	Volume: 59.74 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	60.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4466.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

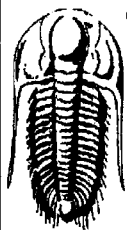
Tool Comments:

Tool Description

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

C.O. Sub	1.00			4438.00	
S.I. Tool	5.00			4443.00	
HMV	5.00			4448.00	
Jars	5.00			4453.00	
Safety Joint	3.00			4456.00	
Packer	5.00			4461.00	29.00 Bottom Of Top Packer
Packer	5.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	2346	Inside	4467.00	
Anchor	10.00			4477.00	
Recorder	0.00	10991	Outside	4477.00	
Bullnose	3.00			4480.00	14.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

M&M Exploration, inc.

Z Bar #10-12

3173 W.11th Ave dr.
Broomfield Colorado 80020

10-34s-15w Barber KS

Job Ticket: 16880

DST#: 2

ATTN: Mike Pollock

Test Start: 2003.03.17 @ 18:36:42

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: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.96 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4420.00	01 - Gas	60.307
20.00	GCM	0.281

Total Length: 4440.00 ft

Total Volume: 60.588 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2346

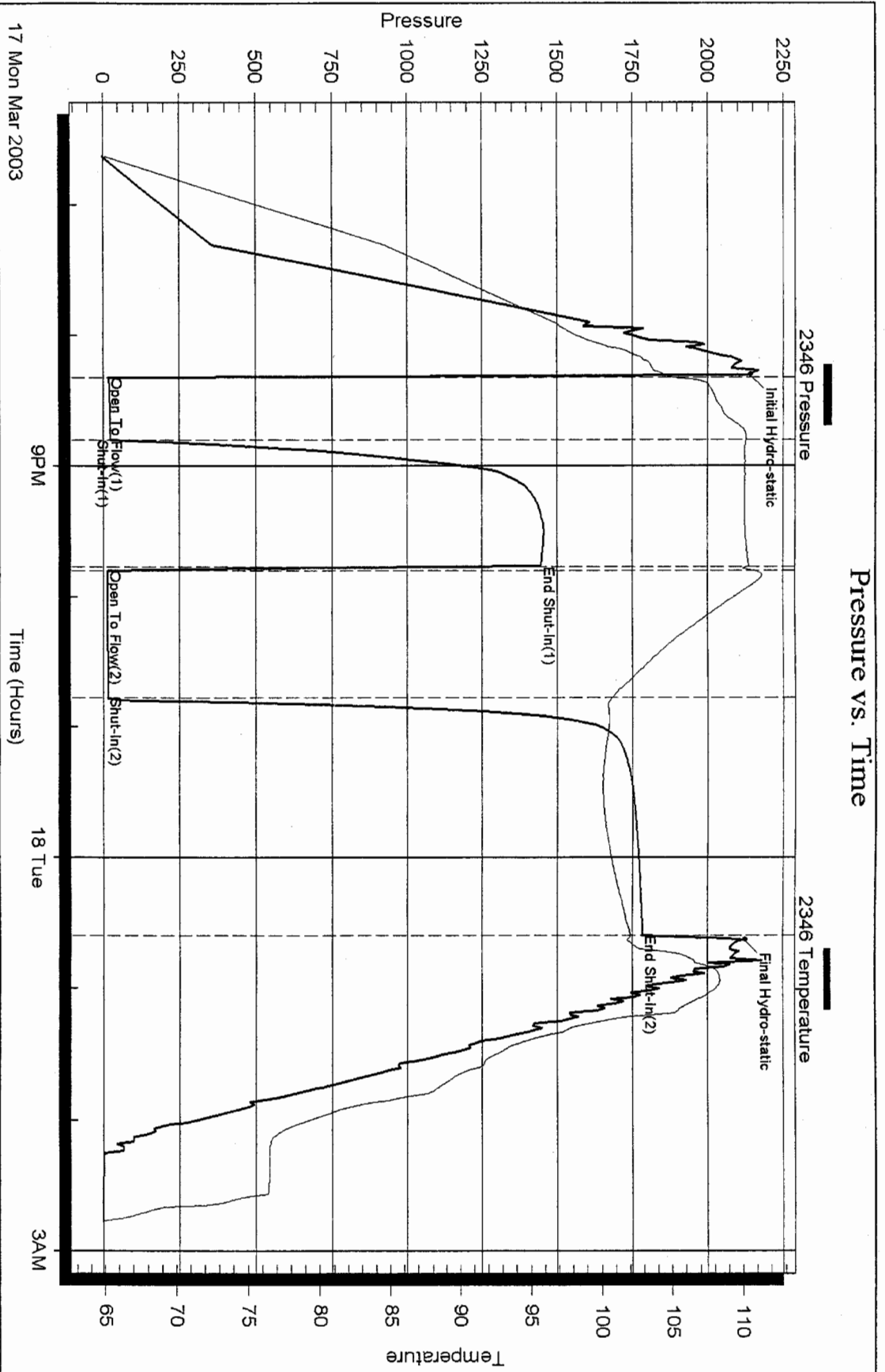
Inside

M&M Exploration, Inc.

10-34s-15w Barber KS

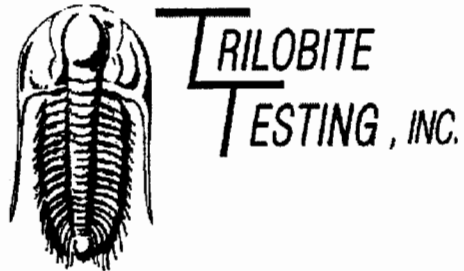
DST Test Number: 2

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **M&M Exploration, inc.**

3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

10-34s-15w Barber KS

Z Bar #10-12

Start Date: 2003.03.18 @ 14:18:58

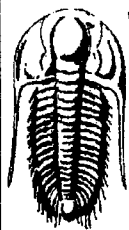
End Date: 2003.03.18 @ 22:02:58

Job Ticket #: 16881 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

M&M Exploration, Inc.
3173 W. 11th Ave. dr.
Broomfield Colorado 80020
ATTN: Mike Pollock

Z Bar #10-12

10-34s-15w Barber KS

Job Ticket: 16881

DST#: 3

Test Start: 2003.03.18 @ 14:18:58

GENERAL INFORMATION:

Formation: **Hertha**

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

Time Tool Opened: 16:45:13

Time Test Ended: 22:02:58

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **4558.00 ft (KB) To 4581.00 ft (KB) (TVD)**

Total Depth: **4581.00 ft (KB) (TVD)**

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

Reference Elevations: **1647.00 ft (KB)**

1634.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 2346

Inside

Press@RunDepth: **432.55 psig @ 4559.00 ft (KB)**

Start Date: **2003.03.18**

End Date:

2003.03.18

Capacity: **7000.00 psig**

Last Calib.: **2003.03.18**

Start Time: **14:20:00**

End Time:

22:02:58

Time On Btm: **2003.03.18 @ 16:43:28**

Time Off Btm: **2003.03.18 @ 19:10:43**

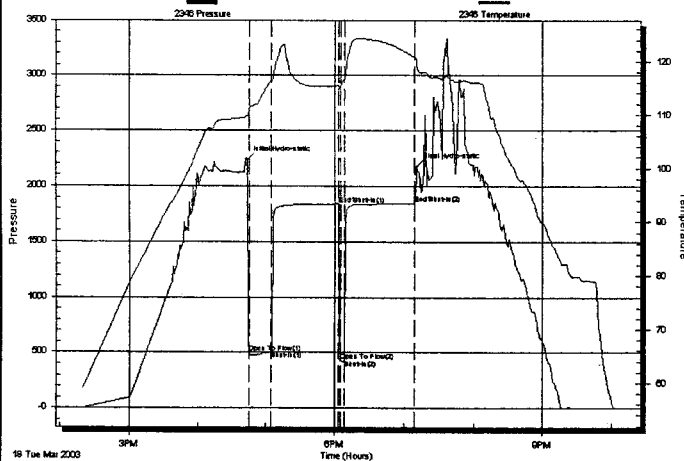
TEST COMMENT: IF: Strong blow b.o.b in 10 sec. GTS in 2 mins. oil to surface in 18 mins.

IS: Bled down n for 60 mins. b.o.b in 3 mins.

FF: Strong blow b.o.b in 30 sec. oil to surface in 3 mins.

FS: Bled down n for 60 mins

Pressure vs. Time



PRESSURE SUMMARY

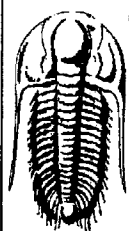
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.48	109.84	Initial Hydro-static
2	492.91	111.04	Open To Flow (1)
22	509.81	116.14	Shut-In (1)
80	1840.17	115.44	End Shut-In (1)
82	422.51	115.32	Open To Flow (2)
85	432.55	116.74	Shut-In (2)
146	1841.39	120.81	End Shut-In (2)
148	2170.95	119.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2819.00	01 - Gas	37.85
1500.00	50 - Oil	21.04
120.00	52 - Mud and Gas cut Oil	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	75.00	1396.41
Last Gas Rate	0.38	35.00	180.96
Max. Gas Rate	0.75	75.00	1396.41



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

M&M Exploration, inc.

Z Bar #10-12

3173 W.11th Ave dr.
Broomfield Colorado 80020

10-34s-15w Barber KS

Job Ticket: 16881

DST#: 3

ATTN: Mike Pollock

Test Start: 2003.03.18 @ 14:18:58

Tool Information

Drill Pipe:	Length: 4353.00 ft	Diameter: 3.80 inches	Volume: 61.06 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 61.97 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4558.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

C.O. Sub	1.00			4530.00	
S.I. Tool	5.00			4535.00	
HMV	5.00			4540.00	
Jars	5.00			4545.00	
Safety Joint	3.00			4548.00	
Packer	5.00			4553.00	29.00 Bottom Of Top Packer
Packer	5.00			4558.00	
Stubb	1.00			4559.00	
Recorder	0.00	2346	Inside	4559.00	
Anchor	19.00			4578.00	
Recorder	0.00	10991	Outside	4578.00	
Bullnose	3.00			4581.00	23.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

M&M Exploration, Inc.
3173 W. 11th Ave dr.
Broomfield Colorado 80020
ATTN: Mike Pollock

Z Bar #10-12
10-34s-15w Barber KS
Job Ticket: 16881 **DST#: 3**
Test Start: 2003.03.18 @ 14:18:58

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.98 in³
Resistivity: 0.90 ohm.m
Salinity: 7000.00 ppm
Filter Cake: 0.32 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2819.00	01 - Gas	37.849
1500.00	50 - Oil	21.041
120.00	52 - Mud and Gas cut Oil	1.683

Total Length: 4439.00 ft Total Volume: 60.573 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

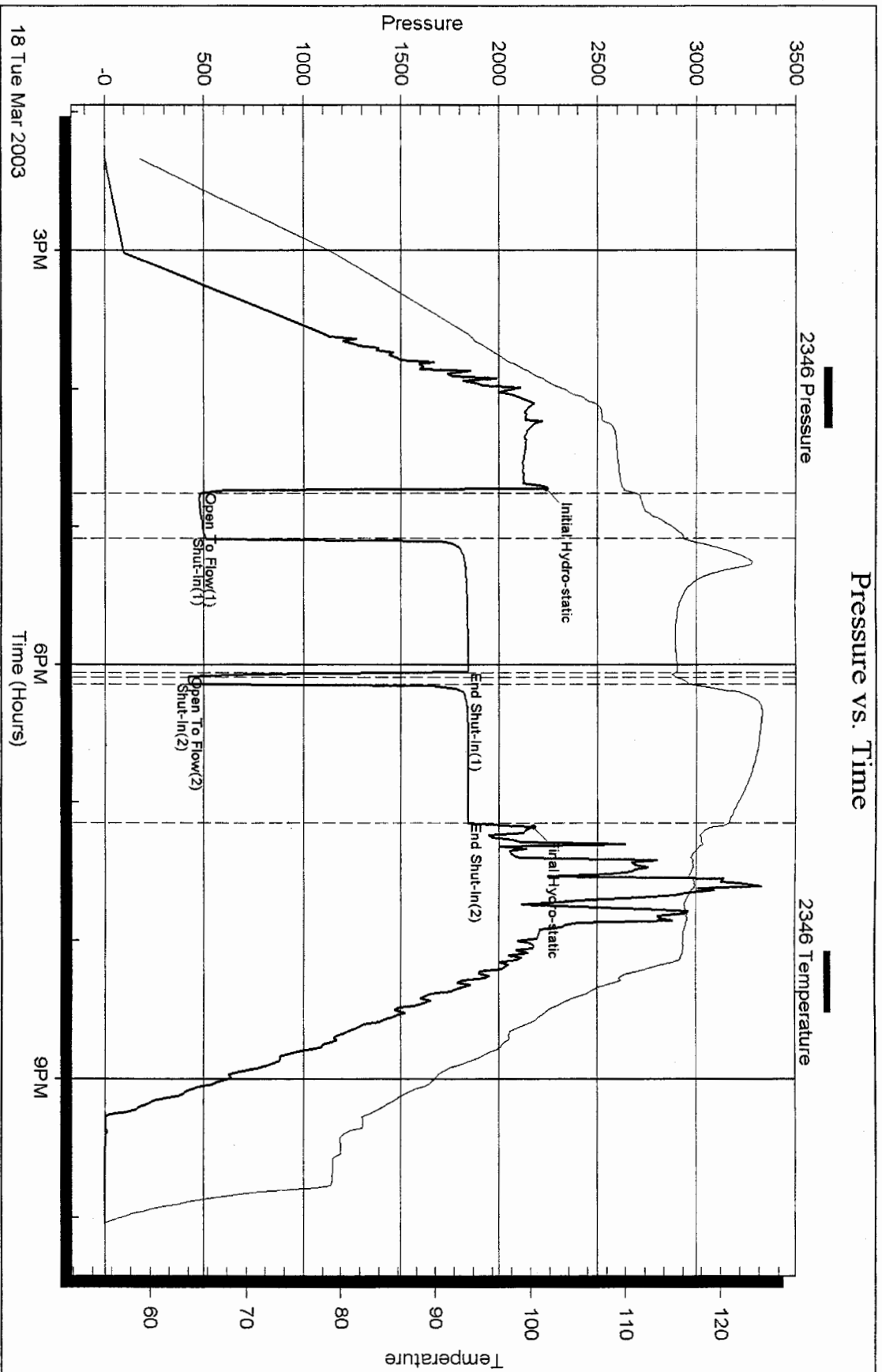
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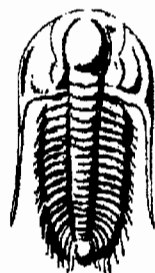
M&M Exploration, Inc.

10-34s-15w Barber KS

DST Test Number: 3



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TESTING, INC.

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DRILL STEM TEST REPORT

Prepared For: **M&M Exploration, inc.**

3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

10-34s-15w Barber KS

Z Bar #10-12

Start Date: 2003.03.22 @ 17:17:21

End Date: 2003.03.23 @ 00:46:21

Job Ticket #: 17779 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

M&M Exploration, inc.

3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

Z Bar #10-12

10-34s-15w Barber KS

Job Ticket: 17779

DST#: 4

Test Start: 2003.03.22 @ 17:17:21

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 19:37:51

Time Test Ended: 00:46:21

Test Type: **Conventional Straddle**

Tester: **Paul Simpson**

Unit No: **18**

Interval: **5228.00 ft (KB) To 5248.00 ft (KB) (TVD)**

Total Depth: **5495.00 ft (KB) (TVD)**

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

Reference Elevations: **1647.00 ft (KB)**

1634.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 3017

Inside

Press@RunDepth: **147.34 psig @ 5229.01 ft (KB)**

Start Date: **2003.03.22**

End Date:

2003.03.23

Start Time: **17:17:23**

End Time:

00:46:21

Capacity: **7000.00 psig**

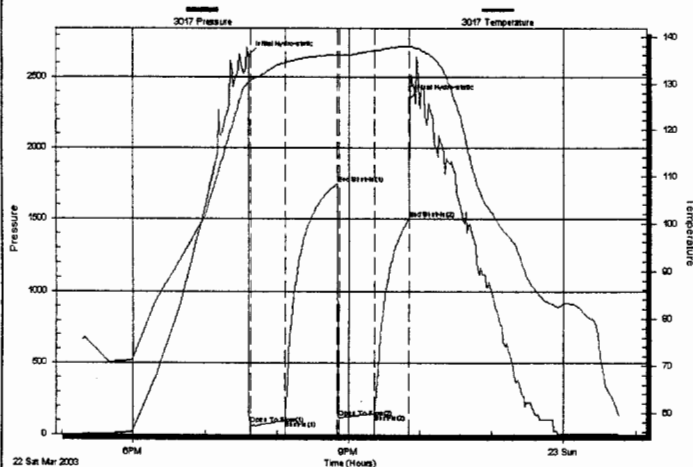
Last Calib.: **1899.12.30**

Time On Btm: **2003.03.22 @ 19:35:51**

Time Off Btm: **2003.03.22 @ 21:51:51**

TEST COMMENT: IF- strong blow - bottom of bucket in 90 seconds
IS- 1" blow
FF- 1/2" blow building to bottom of bucket in 15 minutes

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2655.83	130.29	Initial Hydro-static
2	71.98	130.71	Open To Flow (1)
30	99.27	134.44	Shut-In (1)
75	1743.91	136.12	End Shut-In (1)
76	120.78	136.13	Open To Flow (2)
106	147.34	137.01	Shut-In (2)
135	1503.42	137.93	End Shut-In (2)
136	2354.08	137.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	muddy water 90% water 10% mud	1.25
60.00	oil & water cut mud 10% oil 5% W 85% M	0.84
0.00	270' gas in pipe	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

M&M Exploration, inc.
3173 W. 11th Ave dr.
Broomfield Colorado 80020

ATTN: Mike Pollock

Z Bar #10-12
10-34s-15w Barber KS
Job Ticket: 17779 **DST#: 4**
Test Start: 2003.03.22 @ 17:17:21

Tool Information

Drill Pipe:	Length: 5027.00 ft	Diameter: 3.80 inches	Volume: 70.52 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 84000.00 lb
			Total Volume: 71.43 bbl	Tool Chased ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5228.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	5248.01 ft			
Interval between Packers:	20.01 ft			
Tool Length:	304.53 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5200.00		
S.I. Tool	5.00			5205.00		
HMV	5.00			5210.00		
Jars	5.00			5215.00		
Safety Joint	3.00			5218.00		
Packer	5.00			5223.00	29.00	Bottom Of Top Packer
Packer	5.00			5228.00		
Stubb	1.00			5229.00		
Recorder	0.01	3017	Inside	5229.01		
Perforations	18.00			5247.01		
Blank Off Sub	1.00			5248.01		
Packer	4.00			5252.01		
Recorder	0.01	11084	Outside	5252.02	20.01	Tool Interval
Packer	4.00			5256.02		
Stubb	1.00			5257.02		
C.O. Sub	0.50			5257.52		
Anchor	1.00			5258.52		
Recorder	0.01	13308	Below	5258.53		
Blank Spacing	245.00			5503.53	255.52	Bottom Packers & Anchor

Total Tool Length: 304.53



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

M&M Exploration, Inc.

Z Bar #10-12

3173 W. 11th Ave dr.
Broomfield Colorado 80020

10-34s-15w Barber KS

Job Ticket: 17779

DST#: 4

ATTN: Mike Pollock

Test Start: 2003.03.22 @ 17:17:21

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: 105000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	muddy water 90% water 10% mud	1.251
60.00	oil & water cut mud 10% oil 5% W 85%M	0.842
0.00	270' gas in pipe	0.000

Total Length: 270.00 ft

Total Volume: 2.093 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .11@47

Serial #: 3017

Inside

M&M Exploration, Inc.

10-34s-15w Barber KS

DST Test Number: 4

