



DRILL STEM TEST REPORT

Prepared For: **M&M Expl.Inc.**

60 Garden Center Ste 102
Broomfield CO 80020

ATTN: Mike Pollok

15-34s-15w Barber Ks

Z-Bar #15-4

Start Date: 2006.01.11 @ 08:32:34

End Date: 2006.01.11 @ 16:54:19

Job Ticket #: 22015 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



M&M Expl. Inc.

ATTN: Mike Pollok

15-34s-15w Barber Ks

Job Ticket: 22015

DST#: 1

Test Start: 2006.01.11 @ 08:32:34

Formation: Ft.Scott

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:49

Time Test Ended: 16:54:19

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: 4712.00 ft (KB) To 4745.00 ft (KB) (TVD)

Total Depth: 4745.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1631.00 ft (KB)

1618.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6771 Inside

Press@RunDepth: 389.15 psig @ 4713.00 ft (KB)

Start Date: 2006.01.11

End Date: 2006.01.11

Start Time: 08:32:39

End Time: 16:54:18

Capacity: 7000.00 psia

Last Calib.: 2006.01.11

Time On Btm: 2006.01.11 @ 10:32:19

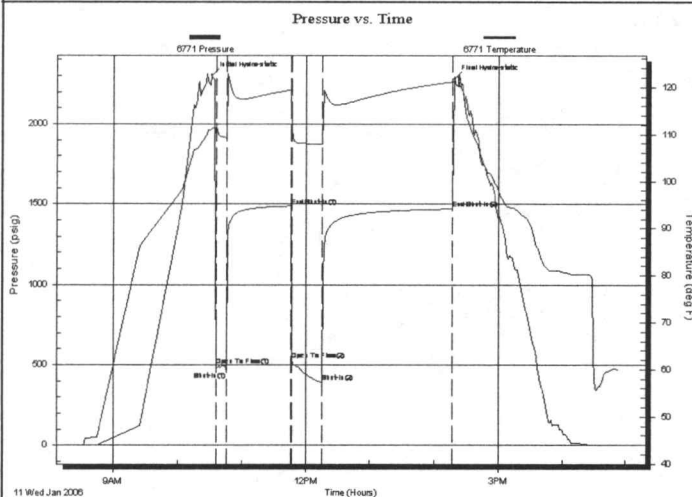
Time Off Btm: 2006.01.11 @ 14:18:49

TEST COMMENT: IF: Strong blow. GTS in 2.7 mins. (see gas flow report)

IS: No blow .

FF: Strong blow . (see gas flow report)

FSI: Weak blow . 1 - 4".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2301.77	111.23	Initial Hydro-static
5	494.91	111.71	Open To Flow (1)
14	456.32	108.86	Shut-In(1)
75	1486.50	119.45	End Shut-In(1)
76	532.22	110.76	Open To Flow (2)
104	389.15	107.87	Shut-In(2)
225	1470.39	121.14	End Shut-In(2)
227	2279.11	121.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	GMCO 18%g 25%m 57%o	1.13
45.00	CGO 15%g 85%o	0.47

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	62.00	2196.41
Last Gas Rate	1.00	59.00	2110.16
Max. Gas Rate	1.00	67.00	2340.15



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TOOL DIAGRAM

M&M Expl. Inc.

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15-34s-15w Barber Ks

Job Ticket: 22015

DST#: 1

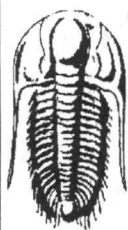
Test Start: 2006.01.11 @ 08:32:34

Tool Information

Drill Pipe:	Length: 4467.00 ft	Diameter: 3.80 inches	Volume: 62.66 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: 22000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	63.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4712.00 ft			Final 74500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4686.00	
Shut In Tool	5.00			4691.00	
Hydraulic tool	5.00			4696.00	
Jars	5.00			4701.00	
Safety Joint	2.00			4703.00	
Packer	4.00			4707.00	27.00 Bottom Of Top Packer
Packer	5.00			4712.00	
Stubb	1.00			4713.00	
Recorder	0.00	6771	Inside	4713.00	
Perforations	27.00			4740.00	
Recorder	0.00	13222	Outside	4740.00	
Bullnose	5.00			4745.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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FLUID SUMMARY

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Z-Bar #15-4

60 Garden Center Ste 102
Broomfield CO 80020

15-34s-15w Barber Ks

Job Ticket: 22015

DST#: 1

ATTN: Mike Pollok

Test Start: 2006.01.11 @ 08:32:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 14.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	GMCO 18%g 25%m 57%o	1.131
45.00	CGO 15%g 85%o	0.467

Total Length: 275.00 ft

Total Volume: 1.598 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: LCM 8#/bl.



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GAS RATES

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15-34s-15w Barber Ks

Job Ticket: 22015

DST#: 1

ATTN: Mike Pollok

Test Start: 2006.01.11 @ 08:32:34

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	62.00	2196.41
1	10	1.00	62.00	2196.41
2	10	1.00	67.00	2340.15
2	20	1.00	59.00	2110.16

Serial #: 6771

Inside

M&M Expl. Inc.

15-34s-15w Barber Ks

DST Test Number: 1

Pressure vs. Time

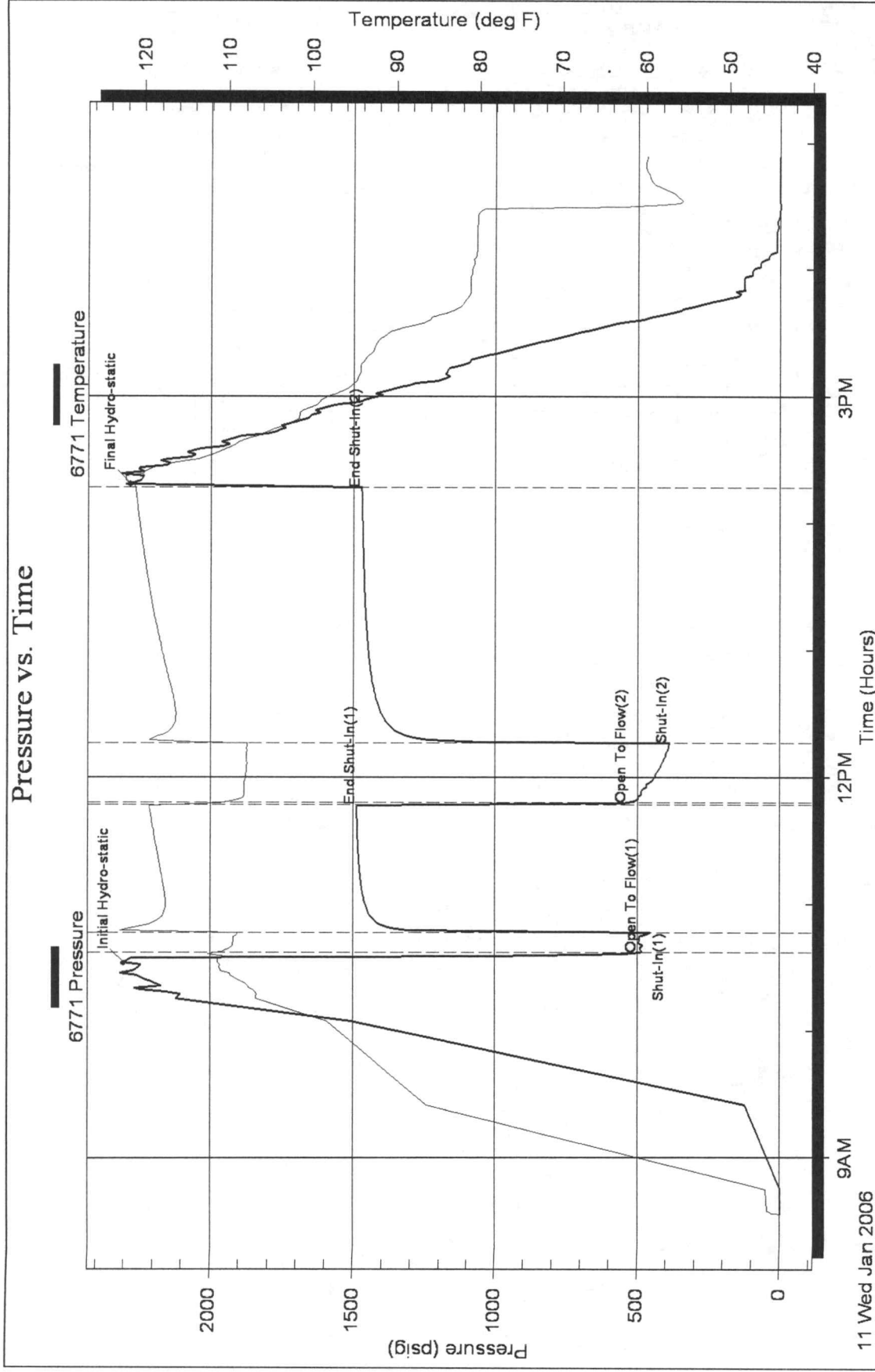


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

