## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

. Type Test			0.1.2		(	See Instruct	ions on Re	everse Side	e)				
Open Flow Deliverability			Test Date:					PI No. 15 07-22758 <b>- 0000</b>					
Company M&M Exploration, Inc.			. ,		Lease Z Bar				10-5	Well Number 5			
County Location Barber 2200 FNL 440 FWL			Section 10		TWP 34			RNG (E/W) 15W		Acres Attributed 160			
Field Aetna			Reservoi Miss. D	olomite			Gas Gathering Con		ection				
Completion Date 10/04/2003				Plug Back Total Depth 4954'		h			Packer Set at None				
Casing Si 4.5			Internal Diameter 4.052			Set at <b>4954'</b>		rations O'	то 4830'				
Tubing Si	bing Size Weight		nt	Internal Diameter			Set at 4759'		Perforations		То		
Type Completion (Describe) Single (Gas)		Type Fluid Production Saltwater/Crude		1			Pump Unit or Traveling Pl Pump Unit		/ No	·			
Producing Thru (Annulus / Tubing)			% C	arbon Dioxid	de .	. %		% Nitrogen		ravity - G	g		
Annulus  Vertical Depth(H)			0.076	Press	sure Taps			3.737		0.6546 (Meter Run) (Pr			
										• •	(		01017 0120
Pressure	Buildu	p:	Shut in Sep	otember 2	0 13 at 1	2:15	(AM) (PM)	Taken_S	eptembe	er 3 <sub>20</sub>	13 <sub>at</sub> 12:15		AM) (PM)
Well on Li	ine:		Started	20	0 at		(AM) (PM)	Taken		20	at	(	AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut	-in	Hours
Static / Dynamic Property	Orifi Siz (inch	ize   Meter   Differential		Flowing Well Head Temperature t t t		Wellhead (P <sub>w</sub> ) or (I	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		ubing ad Pressure (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			psig (1 iii)	mones 11 <sub>2</sub> 0			psig <b>77</b>	91.4	psig	psia			<del></del> , , , ,
Flow		-											
				· 		FLOW STR	EAM ATT	RIBUTES			<del> </del>		
Coeffieci	(, p, (, b, )		Circle one: Meter or ver Pressure psia	Press - Extension · ✓ P <sub>m</sub> x h	- Grav	.ur	Flowing . Temperature Factor F <sub>ft</sub>		riation* letor = pv	Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>
					(ODEN EL	DW /DEL DW		0.041.011	4710110				
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	OW) (DELIVE		P <sub>c</sub> - 14.4) +		•		)² ≡ 0.20 )² =	)7 <sup>*</sup>
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide		Backpressure Curv Slope = "n"		e		Antilog	Open Flow Deliverability Equals R x Antilog	
	u'			divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	. by: · .	P.2 - P.2		dard Slope	,	<u> </u>		(1	Mcfd)
Open Flow	v			Mcfd @ 14.6	55 psia		Deliverat	oility	<del></del>	· N	1cfd @ 14.65 ps	.Lia	- de company
				n behalf of the o			17.1.4			e above repor eptember U &	t and that he ha		edge of 0 <u>13</u> .
			Witness (i	any)			, , <del>-</del>	· /	ni		mpany KC	C W	CHIT
			For Comm	ission		•				Check	ed by	ED-9-	2 2013

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I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator. M&M Exploration, Inc. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the _Z Bar 10-5 gas well on the grounds that said well:  (Check one)    Second of equipment in a coalbed methane producer is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No		
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Instructions:

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If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. signed and dated on the front side as though it was a verified report of annual test results.

SEP 23 2013