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

Type Test	t:				(	See Instru	ctions on Re	everse Sid	e)			
Open Flow Deliverabilty				Test Date:					No. 15 <b>72340100</b> 0	00		
Company M & M Exploration, Inc.				Lease Z Bar					24-1	Well Number		
•			Locatio C NE/4	ation Section				TWP 34S		W)	•	Acres Attributed 160
Field <sup>2</sup> Aetna				Reservoir Mississippian			Gas Gatl	hering Conne K	ection			
Completion Date February 18, 2009					Plug Bac <b>5175</b> '	k Total Der	oth e	Packer Set a None		et at		
Casing S 4.5	10.5			Internal Diameter 4.052		Set at <b>5220'</b>		Perforations 4848'		To 4922'		
=			Weight 4.7		Internal Diameter 1.995		Set at <b>4958</b> '		Perforations None		То	
Type Con Single (	(Gas)			+		d Production ter/Crud			Pump Un Pump		Plunger? Ye	s / No
Producing Thru (Annulus / Tubing) <b>Annulus</b>				% Carbon Dioxide 0.126				% Nitrog 0.582	en		Gas Gravity - G <sub>g</sub> .6228	
Vertical Depth(H)					Pressure Taps						· (Mete	r Run) (Prover) Size
Pressure Well on L										*		(AM) (PM)
						OBSERV	ED SURFAC	E DATA			Duration of Shu	ut-in Hours
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressul psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Femperature (P <sub>w</sub> ) or (P		$(P_w)$ or $(P_i)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)
Shut-In				2			200	214.4	psig	psia		
Flow									<u> </u>			
						FLOW ST	REAM ATTE	RIBUTES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	tension Fac		tor Temperature		riation actor = pv	Metered Flow R (Mcfd)	GOI (Cubic I Barre	Feet/ Fluid
				***								
P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	:	•		VERABILITY % (	<b>/) CALCUL</b> P <sub>a</sub> - 14.4) +		:		$(a_a)^2 = 0.207$ $(b_d)^2 =$
$(P_c)^2 - (P_a)^2$ 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>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> LOG of formula  1. or 2: and divided by:		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		l n x I	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
·					-						/	:
Open Flow Mcfd @ 14.65 psia							Delivera	Deliverability Mcfd @ 14.65 psia			esia	
			•				•			•	rt and that he t	has knowledge of
e facts s	tated ti	nerei	n, and that sai	d report is true	e and correc	t. Executed	d this the _			ovember 292 G		RECEIVE
<u> </u>			Witness (if	any)	or annual and annual and annual and				une		Company	NOV 17
			For Commis	ssion						Chec	ked by	KCC WIC

exempt status undo	or penalty of perjury under the laws of the state of Kansas that I am authorized to request the Rule K.A.R. 82-3-304 on behalf of the operator M & M Exploration, Inc.  Soing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records
of equipment insta I hereby reque	Ilation and/or upon type of completion or upon use being made of the gas well herein named.  st a one-year exemption from open flow testing for the Z Bar 24-1  bunds that said well:
	is a coalbed methane producer is cycled on plunger lift due to water 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 is not capable of producing at a daily rate in excess of 250 mcf/D to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: Multe  Title: President

## Instructions:

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. The form must be signed and dated on the front side as though it was a verified report of annual test results.