## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	<b>:</b>			(See Instructions on Reverse Side)								
Open Flow Deliverability				Test Date: API No. 15 00723401 - <b>0000</b>								
Company M&M Exploration, Inc.				Lease Z Bar							Well Number 24-1	
County Location Barber 660 FNL 660 FEL				Section 24		TWP 34			W)	Acres Attributed 160		tributed
Field Aetna Gas Area				Reservoir Mississi			Gas Gathering Conne ONEOK			ection	_	
Completion Date 02/18/2009				Plug Baci 5175'	k Total Dep	th	Packer Set at None					
Casing Size Weight 10.5				Internal C 4.052	Diameter	Set at 5220'		Perfo 484	rations 8'	то 4922'		
Tubing Si 2.375	bing Size Weight 375 4.7			Internal Diameter 1.995		Set at 4958'		Perforations		То		
Type Con Single (		Describe)	_		d Productio ter/Crude			Pump Ui Pump	nit or Traveling Unit	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing) Annulus			)	% c	arbon Diox	ide	% Nitrogen 0.582			Gas Gravity - G <sub>g</sub> 0.6228		
Vertical D	Pepth(H)				Pres	sure Taps	_			(Meter I	Run) (Pro	ver) Size
Pressure	Buildup:	Shut in Sep	t 11 2	14 at 2:	:00	(AM) (PM)	Taken Se	ept 12	20	14 at 2:00	(A	M) (PM)
Well on L	ine:	Started	20	0 at	_	(AM) (PM)	Taken		20	at	( <i>P</i>	M) (PM)
		· · · · · · · · · · · · · · · · · · ·		_	OBSERVE	D SURFAC		1		Duration of Shut-	in	Hours
Static / Dynamic Property	nic Size Prover Pressure		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Wellhe	Tubing ead Pressure or (Pt) or (Pc) psia	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In				-		68	82.4	poly	pou			
Flow							<u> </u>					
					FLOW STI	REAM ATTR	RIBUTES				— т	
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) F Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Temperature Fa		ation Metered Flow ctor R (Mcfd)		v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> )² =_	<u> </u>			/ERABILITY % (	/) CALCUL P <sub>e</sub> - 14.4) +		:		1 <sup>2</sup> = 0.20	7
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose farmula 1 or 2. 1. $P_a^2 - P_a^2$ 2. $P_a^2 - P_d^2$ ilvided by: $P_a^2 - P_a^2$	P <sup>2</sup> -P <sup>2</sup> LOG of formula 1, or 2.		Backpressure Cur Slope = "n" or  Assigned Standard Slope		n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
											<u> </u>	
Open Flow Mcfd @ 14.6			5 psia D		Deliveral	Deliverability		Mcfd (		I @ 14.65 psia		
		ed authority, on		•	states that I		uthorized t	o make t	he above repo	rt and that he ha		edge of
		ein, and that sa				_	21st	day of _C	October Nh	KANO	R&	14 Peived RATION COMMI
		Witness (if	- Lvna					me	nh	Company		3 1-2014
		For Commi	·			,					ONSERVA	T <del>ION DIVISIO</del> I
		roi Commi	03:011								WiCh	IITA KS

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator M&M Exploration, Inc.
and that the foregone correct to the best of equipment instance I hereby reques	poing 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 allation and/or upon type of completion or upon use being made of the gas well herein named. Sest a one-year exemption from open flow testing for the Z Bar 24-1 counds 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:

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 Received December 31 of the year for which it's intended to acquire exempt status for the subject well KATISE TO THE STATE OF T