KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	tions on Re	verse Side)				
Open Flow				Test Date: API No. 15									
De:	liverab	ilty			rest Date	! :				7-23136-00	000		
Company M & M		orati	ion, Inc.				Lease Z Bar	·		······································	15-5	Well Number	
County Location Barber 2200 FNL & 660 FWL				Section 15		TWP 34		RNG (E/W) 15W		Acres Attributed 160			
Field Aetna Gas			Reservoir Ft. Scott				Gas Gathering Connection ONEOK		ection				
Completion Date 1/22/10					Plug Back Total Depti 4792'		th	n Pao No		Set at			
Casing Size 5.5			Weight 15.5		Internal Diameter 4.950		Set at 5105'		Perforations 4756'		To 4762'		
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 4786 '		Perforations		То		
Type Con Single (Gas)	_				d Production ter/Crude			Pump Ur Pump		Plunger? Yes		
Producing Thru (Annulus / Tubing) Annulus)	% Carbon Dioxide 0.063				% Nitrogen 3.341			Gas Gravity - G _e 0.6799	
Vertical D	epth(F	l)		-		Press	sure Taps	,			(Meter F	Run) (Prover) Size	
Pressure	Buildu		50ut in								11 _{at} 8:15		
Well on L	ine:	;	Started	20	D at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	n Hours	
Static /	Orifi	сө	Circle one:	Pressure	Flowing	Well Head	Cas	ing		Tubing			
Dynamic Size Property (inches			Meter Prover Pressu	Differential re in	Temperature t		rature (P) or (P) or (P)		ľ.	ad Pressure r (P ₁) or (P ₂)	Duration (Hours)	Liquid Produced (Barrels)	
Troperty	(111011	03/	psig (Pm)	Inches H ₂ 0		<u> </u>	psig	psia	psig	psia			
Shut-In				_			70	84.4					
Flow			<u>.</u>								·		
					<u> </u>	FLOW STR		IBUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd			Circle one: Meter or var Prassure psia	Press Extension	Grav Fac	tor T	Flowing Temperature Factor F _{tt}		alion ctor	Metered Flow R (McId)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G	
					+ -				· <u>-</u>				
/D \2 -			/D \2 -		•	OW) (DELIVI		•				= 0.207	
(P _c)² =				Chaose formula 1 or 2:	P _d =			2 _c - 14.4) +	14.4 = _	·	(P _d) ²		
(P _e) ² - (F	•	(P	, ^c) ₅ - (b ^m) ₅	1. P _c ² · P _s ² 2. P _c ² · P _d ²	LOG of formula 1, or 2, and divide	P _c ² -P _w ²	Sio	ssure Curve pe = "n" - or · · · · · · signed	n x l	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		-		divided by: Pc2 - P,2	by:		Stand	ard Slope				(
								. <u>.</u>					
Open Flor	w			Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 psi		
		igner	authority or			states that h		•	n maka #		t and that he ha		
		_	-	id report is true	•		•			•		, 20 _11	
			Witness (if	any)		-	-	ı	m	October For C	Tu R	ECEIVED	
			For Camm				-				ked by	T-1-7-2011	
				-									

exempt status under and that the foregoin correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator M&M Exploration, Inc. Ing pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Z Bar 15-5
(Check or is is is is is is I further agree to	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D o supply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
	Signature: Mueuw

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.