KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:	:					(See Inst	tructi	ons on Re	everse Side))					
Оре	en Flov	٧				Test Date	a·				ΔPI	l No. 15				
Del	iverabi	lty				TOST Date	- .					723400 - 🗢)-OC	٠		
Company M&M Exploration, Inc.								Lease Z Bar						Well Number 19-16		
County Location Barber NE/4SE/4SE/4				Section 19						RNG (E/W) 14W		Acres Attributed 160				
Field Aetna Gas Area						Reservoir Mississippian			Gas Gatherin ONEOK		thering Conne K	Connection			RECE	
Completion Date 07/03/2009					Plug Bac 5201'	Plug Back Total Depth 5201'			n Packer S None		Set at			RECEIV NOV 0 2 2 KCC WICH		
Casing Size Weight 4.5 10.5				Internal I 4.052	Internal Diameter 4.052			Set at 5222'		Perforations 4814'		4880' KCC		CCM		
Tubing Size Weight 2.375 4.7				Internal Diameter 1.995			Set at 4911'		Perforations			То		oc MICI		
ype Com ingle (•	(De	scribe)			Type Flui Saltwa					Pump		Plunge		/ No	
Producing Thru (Annulus / Tubing)						Carbon D	ioxic				Nitrogen			Gas Gravity - G _g		
Annulus					0.1690)			0.7366			0.6516				
/ertical D	epth(H))					P	ress	ure Taps					(Meter F	Run) (P	rover) Size
Pressure !	·				per 18 20							19 20		11:00		(AM) (PM)
· · · ·			started		&(J al			(AM) (FM)	Taken		20	aı			(AM) (FM)
							OBSE	RVE	SURFAC	E DATA			Duration	n of Shut-i	in	Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one. Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Wellhe	Tubing ead Pressure or (P _c) or (P _c)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		-		·	2				121	135.4	parg	paid				
Flow																
							FLOW S	STR	EAM ATTF	RIBUTES						
Plate Coeffieci (F _b) (F _p Mctd	ent ,)	Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	xtension Fact		tor Ten		Deviation Factor F _{pv}		Metered Flov R (Mcfd)	v	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
						(OPEN FL									² = 0.2	207
p _c) ₅ =		_:_	(P _w) ²		ose formula 1 or 2:	P _d =		%		P _c - 14.4) +		:		(P _d) ²	'= T	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²			1. P _c ² - P _a ² 2. P _c ² - P _d ² ded by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by:	formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n"		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
				ļ												
pen Flov	<u> </u>				Mcfd @ 14.	65 psia			Deliverat	bility			Mcfd @	14.65 psi	ia	
		000-	authorite:	00 -			ptaton +-	at h			o maka N			-		wledge of
		-	_		report is true				_	0th	day of _C			ная пе па		20 <u>12</u> .
			Witness	if an	у)		·	_	-		Inl	n W	Company			<u></u>
			Fr- ^					_	-			6.	akad to			
			For Con	nmissio	OP.							Chec	cked by			

NOV 0 2 2012

	KCC WICHITA								
I declare und	der penalty of perjury under the laws of the state of Kansas that I am authorized to request								
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator M&M Exploration, Inc.								
and that the fore	going pressure information and statements contained on this application form are true and								
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records								
of equipment inst	allation and/or upon type of completion or upon use being made of the gas well herein named.								
I hereby requ	lest a one-year exemption from open flow testing for the Z Bar 19-16								
gas well on the g	rounds that said well:								
(Checi	k one)								
	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								
I further earc	ee to supply to the best of my ability any and all supporting documents deemed by Commission								
~	ry to corroborate this claim for exemption from testing.								
stati as necessai	y to correspond to this claim for exemption from testing.								
Date: October 3	0. 2012								
Jaie. <u> </u>	-,								
	Signature: Men Got								

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.