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

Open Flow Deliverabilty	Test Date	e:				No. 15 -23700 <i> 00</i>	000	•	
Company 1&M Exploration, Inc.	on, Inc.			Lease Z Bar				Well Number 9-14	
County Location Barber 660 FSL 1980	cation Section FSL 1980 FWL 9		TWP 34		RNG (E/W) 14W		Acres Attributed 160		
ield Aetna Gas Area	Reservoir <b>Mississi</b>				Gas Gath	nering Conne	ection		
Completion Date /10/2011	Plug Back Total 4800'		pth		Packer Set at None				
Casing Size Weight .5 11.6	Internal [ 4.00					Perforations 4639'		To 4704'	
ubing Size Weight .375 4.7	ht Internal Dia 1.995		ameter Set at 4639'		Perforations		То		
ype Completion (Describe)	Type Flui	id Production	<u> </u>	<del>-</del>	Pump Un Pump		Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing)		% Carbon Dioxide 0.0933			% Nitrogen 3.7656		Gas Gravity - G <sub>9</sub> 0.6497		
/ertical Depth(H)		Press	sure Taps				(Meter F	Run) (Prover) Size	
•	er 3 <sub>20</sub> 13 <sub>at</sub> 9				eptembe		13 at 9:30	(AM) (PM)	
veil on Line. Started	20 at					20	at	(AW) (F W)	
Static / Oritice Meter Diffe	in t	Well Head Temperature t	Wellhead	sing Pressure	Wellhea	ubing ad Pressure $(P_t)$ or $(P_c)$	Duration of Shut- Duration (Hours)	in Hour Liquid Produced (Barrels)	
Shut-in psig (Pm) Inch	nes H <sub>2</sub> 0		302	316.4	psig	psia			
Flow									
	<u></u>	FLOW STR	EAM ATTR	RIBUTES					
Coefficient Meter or Ext	ress Gradension Face	tor T	Flowing Temperature Factor F <sub>ff</sub>	Fa	viation actor F <sub>pv</sub>	Metered Flow R (Mcfd)	W GOR' (Cubic Fe Barrel)	et/ Flowing Fluid Gravity G <sub>m</sub>	
		<u>,</u>	·						
$(P_w)^2 = (P_w)^2 = (P_w)^2$		OW) (DELIVI		r) CALCUL P <sub>c</sub> - 14.4) +			(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.207 2 =	
$ \begin{array}{c c} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & 1. P_c \\ or \\ (P_c)^2 - (P_d)^2 & 2. P_c \\ \end{array} $	rmula 1 or 2:  c 2 - P 2 a c 2 - P 2 c 3 - P 2 c 4 - P 2 d 5 - P 2 d 6 - P 2 - P 2 d 7 - P 2 d 7 - P 2 d 8 - P 2 d 8 - P 2 d 9 - P 3 d 9	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Sio As	essure Curve pe = "n" - or ssigned dard Slope.	n x l	.0G	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcf	d @ 14.65 psia		Deliverat	hility			Mcfd @ 14.65 psi	a	
·	·		٠.,	·			· · · · · · · · · · · · · · · · · · ·		
The undersigned authority, on behalt e facts stated therein, and that said repo						-	ort and that he ha	, 20 <u>13</u>	
				1	ne	eptember	K	CC WICHI	
Witness (if any)			2		a * .	ForC	Company ·	NED 2 0 2012	
For Commission.						Che	cked by	RECEIVE	

	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 foregoi	ng 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
• •	tion 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 9-14
gas well on the grou	nds that said well:
(Check or	
	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
<b>✓</b> IS	s not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to	o supply to the best of my ability any and all supporting documents deemed by Commission
•	o corroborate this claim for exemption from testing.
stan as necessary to	Corroborate this claim for exemption from testing.
Date: September 6,	2013
· .	Signature: Much
	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 company of the signed and dated on the front side as though it was a verified report of annual test results.