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

Type Test	t:				6	See Instruct	ions on Re	verse Side	)					
Open Flow Deliverabilty					Test Date:				API No. 15 00723400 <b>~ 0 000</b>					
Company M&M Exploration, Inc.					Lease Z Bar					Well Number 19-16				
County Locati Barber 720 FS			on Section L 555 FEL 19			TWP 34		RNG (E/W) 14W			Acres Attributed 160			
Field Aetna Gas Area				Reservoir Mississi			Gas Gathering Conr ONEOK			ection				
Completion Date 07/03/2009					Plug Bac 5201'	k Total Dept	h	Packer Set at None						
Casing Size 4.5			Weight		Internal D 4.052	Internal Diameter 4.052		Set at 5222'		rations 4'	⊺o 4880′	· •		
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 4911'		Perforations		То	То		
Type Con Single (		(Descr	be)			d Production ter/Crude			Pump Ur Pump	nit or Traveling Unit	Plunger? Yes	/ No		
Producing	_	(Annulu	s / Tubing	)		% Carbon Dioxid		% Nitrogen 0.7366			Gas Gravity - G <sub>a</sub> 0.6516			
Vertical D	Depth(H	)				Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildup	: Shu	t in May	27 2	15 at 1	1:45	(AM) (PM)	Taken_M	ay 28	20	15 at 11:45	(	(AM) (PM)	
Well on L	_ine:	Star	ted	2	0 at		(AM) (PM)	Taken		20	at	(	(AM) (PM)	
				,		OBSERVE	D SURFAC	E DATA			Duration of Shut	-in	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter ver Pressu osig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>a</sub> )		Duration (Hours)		Liquid Produced i (Barrels)	
Shut-In				1			93	107.4	psig	psia				
Flow														
					1	FLOW STR	REAM ATTR	IBUTES					1	
Plate Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P <sub>m</sub> x h	Extension Fac		Flowing Temperature Factor F <sub>st</sub>	Deviation Factor F <sub>pv</sub>		Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
			<u></u>											
(P <sub>c</sub> ) <sup>2</sup> =			(P )2 =	:	(OPEN FL	OW) (DELIV		') CALCUL <sub>°c</sub> - 14.4) +		•		) <sup>2</sup> = 0.2	07	
(P <sub>c</sub> ) <sup>2</sup> - (	(P <sub>a</sub> ) <sup>2</sup>	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide P2-P2		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog D		oen Flow iverability R x Antilog (Mcfd)	
					-									
Open Flo	w w		Mcfd @ 14.65 psia Deliver					oility	Mcfd @ 14.65 psia					
		_	=	behalf of the	e and correc	t. Executed	this the 8	th	day of _	une	ort and that he ha	as know		
			Witness (ii	any)	K(	C WIC	CHITA.	۷ (	wne	n-Co	Company			
			For Comm	ssion	J	UN 2-5	2015			Che	cked by		•	

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I declare under 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 foregoing 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 of equipment installation 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 theZ Bar 19-16
gas well on the grounds 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  I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.  Date: June 8, 2015
Signature: Mnem to Title: President
JUN 2 5 2015
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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.