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

Type Test	i:				(	See Instruct	tions on Re	verse Side	)				
Open Flow				Test Date:				ΔP1	No. 15				
De	liverab	ilty			iesi Dale	•				23702 <b>– 00</b>	00		
Company M&M Exploration, Inc.				Lease Z Bar						20-14	Well Number 20-14		
County Barber			Location 910 FSI	on _ 1480 FWL	Section 20		TWP 34		RNG (E/W) 14W			Acres Attributed 160	
Field Aetna G	as Ar	ea			Reservoir Mississi				Gas Gat	hering Conne	ection		
Completic 08/20/20		е	<u>-</u>		Plug Bacl 4880'	k Total Dept	th		Packer S None	Set at			
Casing S 4.5	ize		Weight 11.6		Internal Diameter 4.0		Set at 4900'		Perforations 4720'		To 4780'		
Tubing S 2,375	ize		Weight 4.7		Internal Diameter 1.995		Set at 4715'		Perforations		То		
Type Cor Single (			escribe)			d Production ter/Crude			Pump Ur Pump	nit or Traveling Unit	Plunger? Yes	/ No	
	•		nulus / Tubing	ı)		arbon Dioxi			•	% Nitrogen		Gas Gravity - G <sub>g</sub>	
Annulu	s				0.0612			1.6331		1	0.6295		
Vertical E	Depth(l	<del>1</del> )				Pres	sure Taps				(Meter	Run) (Prover) Size	
Pressure	Buildu	p:	Shut in Ma	y 28 <sub>2</sub>	0_15_at_8:	:30	(AM) (PM)	Taken_M	ay 29	20	15 <sub>at</sub> 8:30	(AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut	inHours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	1 ""	t Temperature		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			paig (i iii)	Inches H <sub>2</sub> 0			150	psia 164.4	psig	psia			
Flow													
				r	<u> </u>	FLOW STF	REAM ATTE	RIBUTES		Γ			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> xh	Grav Fac F <sub>e</sub>	tor	Flowing Temperature Factor F <sub>ft</sub>		riation actor = pv	Metered Flow R (Mcfd)	v GOR (Cubic Fo Barrel)	I Gravity	
/D \2			(P )2 -			OW) (DELIV		•		:		$0^2 = 0.207$ $0^2 =$	
( ,		<u>-</u> `	(, ,, -	Choose formula 1 or 2		$\overline{\Box}$		essure Curve		·	V d	Open Flow	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F		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 by:	Pc2 - Pw2	Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Deliverability Equals R x Antilog (Mcfd)	
	-												
Open Flo	w		_	Mcfd @ 14	.65 psia		Deliveral	bility			Mcfd @ 14.65 ps	ila	
		-	•	n behalf of the	• •		•		_		ort and that he h	as knowledge of, 20 15	
				p				0.	1				
			Witness (	f any)	<b>K</b>	(CC In	1001310 15-201	· //	ne	N LV For Che	Company		
			Far Comm	ission		JUN 2 5	2015			Che	cked by		

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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 the Z Bar 20-14  gas well on the grounds that said well:  (Check 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 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.  CCC WICH:  Signature:  Title:  President  Title:  President	
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JUN 2'5 2015	Title: President
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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.