KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Side)		·	
[] Op	en Flo	w			Test Date	·			ΛDI	No. 15		
De	liverat	oilty			iesi Dale	; .				7-23400-0(000	
Company M&M Exploration, Inc.							Lease Z Bar			Well Number 19-16		
County Location Barber SE/4				Section 19		TWP 34S		RNG (E/W) 14W		Acres Attributed 160		
						Reservoir Mississippian				hering Conn	ection	<u> </u>
				Plug Bac 5201	Plug Back Total Depth 5201		Packer Set at None		et at			
Casing Size Weigh 4.5 10.5			nt	Internal Diameter 4.052		Set at 5222		Perforations 4814		To 4880		
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 4911		Perforations None		То	
Type Con Single (escribe)			d Productio ter/Crude		•	Pump Ur Pump	nit or Traveling Unit	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing)					arbon Diox	ide	% Nitrogen		en	Gas Gravity - G _g .620		
Annulus Vertical D		-11			0.066	0.066 Pressure Taps			1.380			= ; == : ; == :
vertical L	epuit	1)				Pres	sure raps				(Meter I	Run) (Prover) Size
Pressure	Buildu	ıD.	Shut in Ma	rch 16	11 _{at} 1.	2:00	(AM) (PM)	Token M	arch 17		11 , 1:00	(AM) (PM)
Well on L												(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in Hours
Static /	Orif	ice	Circle one:	Pressure	Flowing	Well Head	Cas	sing		ubing		
Dynamic Size Property (inche			Meter Prover Press psig (Pm)	""	Temperature Te	Temperature t	(P _w) or (F	P ₁) or (P _c)	(P _w) o	ad Pressure (P _i) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			paig (t m)	Inches H ₂ 0			165	^{psia} 179.4	psig	psia		
Flow		-	-									
						FLOW STE	REAM ATTR	IBUTES		· · · · · · · · · · · · · · · · · · ·		
Plate			Circle one:	Press	Grav	/ity	Flowing	Dev	iation	Metered Flov	GOR	Flowing
Coeffiecient (F _b) (F _p)		Meter or Prover Pressure		Extension P _m xh	Fac F	ior j	Temperature Factor		ctor	R	(Cubic Fe	Gravity
Mcfd			psia 	V FmXII	-		F _n		ρν	(Mcfd)	Barrel)	G _m
					•		ERABILITY) CALCUL	ATIONS		(P,	² = 0.207
(P _c) ² =		_:_	(P _w) ² =	Choose formula 1 or 2	P _d =		% (F	o _c - 14.4) +	14.4 =	;	(P _d)	[?] =
(P _e)² - (f	P.)2	(F	2°)3- (b*)3	1. P _c ² -P _a ²	LOG of formula			ssure Curve pe = "n"	n x i	oc []		Open Flow Deliverability
(P _a) ² - (F	P_)2			2. P _c - P _d 2	1. or 2.		1	- or signed	· "^'	-06	Antilog	Equals R x Antilog
				divided by: Pg - Pw		P,2 - P,2	Stand	lard Slope				(Mcfd)
						·	<u> </u>		_			
					<u> </u>		_					
Open Flow Mcfd @ 14.65 psia						Deliverat	Deliverability Mcfd @ 14.65 psia					
The c	unders	igne	d authority, o	n behalf of the	Company, s	states that h	ne is duly au	uthorized to	make th	e above repo	rt and that he ha	is knowledge of
the facts s	tated t	herei	in, and that s	aid report is true	and correc	t. Executed	I this the 1	1th	day of C	ctober		, 20 11
	- .		Witness (if any)			-		me	N 6	Company	RECEIVED ICT 17 2011-
			For Comr	nission			-				ked by	CT 17 2011-
											•	•

KCC WICHITA

exempter and the correct	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request t status under Rule K.A.R. 82-3-304 on behalf of the operator M&M Exploration, Inc. at the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records
	pment installation and/or upon type of completion or upon use being made of the gas well herein named. ereby request a one-year exemption from open flow testing for the Z Bar 19-16
	ell on the grounds that said well:
staff as	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 urther agree to supply to the best of my ability any and all supporting documents deemed by Commission is necessary to corroborate this claim for exemption from testing.
	Signature: Me N W

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.