KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Deliverat	oilty			Test Date	e :				No. 15 7-23135 - 0 4	000			
Company M&M Explora	tion Inc	·	· .			Lease Z Bar		007	20100-04	14-1		lumber	
M&M Exploration, Inc. County Location			Section		TWP F			RNG (E/W)		Acres Attributed			
Barber S/2N/2SW/4 Field			14 Reservoir	·	34	•	15W Gas Gat	ection	160				
Aetna Gas Area					ppian		:	ONEOK.					
Completion Date 07/06/2007				Plug Bac 4921'	k Total Dept	th		Packer Set at None					
Casing Size	o o			Internal Diameter 4.052			Set at 4944 '		rations 9'	To 4870	то 4870'		
Tubing Size 2.375				Internal D	Diameter		Set at 4793'		rations	То			
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater/Crude			Pump Unit or Traveling Plungers Pump Unit				s / No		
Producing Thru (Annulus / Tubing)				% Carbon Dioxide			% Nitrogen			Gas	Gas Gravity - G _g		
Annulus				0.090			0.624				0. 6 14 6		
Vertical Depth(I	⊣)				Pres	sure Taps			•	(Mete	er Run) (I	Prover) Size	
Pressure Buildu	ıp: Shut in	Septe	ember 3 2	0 13 at 1	1:00	(AM) (PM)	Taken Se	eptemb	er 4 20	13 at 11:00	0	(AM) (PM)	
Well on Line:					•					at			
					OBSERVE	D SURFAC	E DATA	-		Duration of Shi	ut-in	Hou	
Static / Orif	I Meter Differential		Flowing Well Head Temperature t t		Wellhead	Casing Wellhead Pressure		Tubing ad Pressure	Duration	Lia	Liquid Produced (Barrels)		
, ,	C Size Prover Pressure in				(P_w) or (P_t) or (P_c)		(P _w) o	r (P _t) or (P _c)	(Hours)	1 .			
Shut-In	poly		1101103 1120			psig 102	116.4	psig	psia				
Flow		 										 .	
			• .		FLOW STR	EAM ATT	RIBUTES						
$ \begin{array}{c c} \text{Plate} & \textit{Circle one:} \\ \text{Coefficient} & \textit{Meter or} \\ \text{(F_b) (F_p)} & \textit{Prover Pressure} \\ \text{Mcfd} & \text{psia} \end{array} $		ure	Press Extension	Fact			Flowing Temperature Factor F _{ft} Deviati Facto F _{pv}		Metered Flow R (Mcfd)	v GO (Cubic Barre	Feet/	Flowing Fluid Gravity G _m	
-									 ·				
<u>'</u>				(OPEN FL	OW) (DELIV	ERABILITY	/) CALCUL	ATIONS		· (P	$(a_{a}^{(1)})^{2} = 0.$.207'''	
P _c) ² =	: (P	w)2 =	: `			% (1	P _c - 14.4) +	14.4 =	<u> </u>) ² =		
(P _c) ² - (P _a) ²	(P _c) ² - (P _w) ³	- (P _w) ² Choose formula 1 or 2: 1. P _c ² - P _a ²		LOG of formula		Backpressure Curve Slope = "n"		l n x				Open Flow Deliverability	
or $(P_c)^2 - (P_d)^2$			2. P _c ² -P _d ² ded by: P _c ² -P _w ²	1. or 2. and divide by:		Assigned Standard Slope				Antilog		Equals R x Antilog (Mcfd)	
	······································												
Open Flow Mcfd @ 14.6				65 psia	5 psia [Deliverability		Mcfd @ 14.65 psia				
										rt and that he i			
e facts stated t	nerein, and th	at said	report is true	and correct	t. Executed	this the _O	h	day of <u> </u>	eptember WW			c WIC	
							"	400	vur		NU	O AAIO	

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I declare under penalty of perj	ury 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.
	ormation 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 upo	n type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exe	emption from open flow testing for the Z Bar 14-12
gas well on the grounds that said w	ell:
(Check one)	
is a coalbed met	
	nger lift due to water
is a source of na	tural gas for injection into an oil reservoir undergoing ER
is on vacuum at	the present time; KCC approval Docket No
is not capable o	f 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 th	nis claim for exemption from testing.
Date: September 6, 2013	
Date	
•	
•	
	Signature: Ment
	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 converted signed and dated on the front side as though it was a verified report of annual test results.