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

Type Test				(	See Instruc	tions on Re	verse Side	·)				
	en Flow liverabili			Test Date 12-12-2				API	No. 15 <b>- 07</b>	15-10,005-	0000	
Company M M Ene		<u> </u>				Lease Katterjo	hn	<del></del> -		#1	Well Number	
County Hamilton	)	Locat C SW i		Section 3		TWP 21S		RNG (E/	W)		Acres Attributed	
Field Bradsha	w			Reservoir Winfield				Gas Gat Oneok	hering Conn	ection		
Completion Date 12/1962					Plug Back Total Depth 2790		n Packer s none		Set at			
Casing S 4.4	Casing Size Weight 9.5		nt	Internal Diameter 4.09		Set at 2819		Perforations 2765		то 2775		
Tubing Si	Tubing Size Weight 1.25		Internal Diameter		Set a	Set at Perfor		rations	То			
Type Con single	Type Completion (Describe) single			Type Flui saltwa	n	Pump Unit or Traveling pu			Plunger? Yes / No			
Producing Thru (Ani		Annulus / Tubin	inulus / Tubing)		% Carbon Dioxide		% Nitrogen		en	Gas Gravity - G <sub>g</sub>		
Vertical D	Pepth(H)				Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildup		2							14 at 10:30 a		
Well on L	.ine:	Started 12/	<u>16</u> 29	o <u>14</u> at <u>1</u>	0:40 am	(AM) (PM)	Taken 12	2/17	20	14 at 10:50 a	am (AM) (PM)	
					OBSERVE	D SURFACI	E DATA			Duration of Shut-	nHours	
Static / Dynamic Property	Orifice Size (inche:	Meter Prover Press	Pressure Differential ure in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	(P <sub>w</sub> ) or (P	Pressure	Wellhe	fubing ad Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		, , , ,				psig	psia 32	psig	psia			
· Flow							21					
·		· -		i	FLOW STF	REAM ATTR	IBUTES			-		
Plate Coeffiec (F <sub>b</sub> ) (F	ient	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>it</sub>	Fa	iation ictor py	Metered Flow R (Mcfd)	v GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
-				-		ERABILITY	-				= 0.207	
$(P_c)^2 = $		: (P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2	P <sub>d</sub> =		1	<u>- 14.4) +</u>		:	(P <sub>d</sub> ) <sup>2</sup>	=	
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>divided by: P<sub>c</sub><sup>2</sup> - P<sub>w</sub><sup>2</sup></li> </ol>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slop	ssure Curve ne ≂ "n" - or signed ard Slope	l n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				<u></u>				_				
Open Flo	w		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a	
		•	on behalf of the	and correc	t. Executed	this the 14	4			nuary	s knowledge of	
		Witness	(if any)	NAIN.		RATION COM	VIIS81ON	16	For	Company	ux_	
		For Comi	nission		L NAU	<b>1 5</b> 2015_			Che	cked by		

CONSERVATION DIVIDION WICHITA, KS

• • • • •	nder the laws of the state of Kansas that I am authorized to request 04 on behalf of the operator M M Energy Inc
and that the foregoing pressure informa	ation and statements contained on this application form are true and
of equipment installation and/or upon typ	belief based upon available production summaries and lease records be of completion or upon use being made of the gas well herein named.
nereby request a one-year exempti gas well on the grounds that said well:	on from open flow testing for the <u>Katterjohn #1</u>
is on vacuum at the p is not capable of prod	lift due to water gas for injection into an oil reservoir undergoing ER resent time; KCC approval Docket No ducing at a daily rate in excess of 250 mcf/D of my ability any and all supporting documents deemed by Commission
RECEIVED KANSAS CORPORATION COMMISSION  JAN 152015  CONSERVATION DIVISION	Signature: Old While: Corporate Sec/Treas.

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.