## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type Test:	;				(•	See Instructi	ions on Hev	erse Siae	9)					
= .	en Flow liverabil				Test Date	ı:				No. 15 007-00535-00	. 00			
Company	,		ING COM	MPANY, LLC	9/16/12		Lease RATHGI	EBER	10-0	JU7-00333-00	·	Well Nu	mber	
County BARBER			Locatio NE SE		Section 31		TWP 34S		RNG (E/W) 12W			Acres Attributed		
Field AETNA			Reservoir MISSISSIPPIAN				Gas Gathering Connection ATLAS		etion	REC				
Completion Date 9/30/54			Plug Back Total Depth 4970				Packer Set at NONE			DEC To 4843 KCC W				
Casing Size 5.500			Weight 14.00		Internal D 5.012		Diameter Set at 5000		Perforations 4782		то 4843	K	CC W	
Tubing Si 2.375	ZĐ		Weight 4.70		Internal Diam 1.995		er Set at 4918		Perforations OPEN		То	То		
Type Completion (Describe) SINGLE					Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING						
Producing	•	(Annulu	s / Tubing	)	% C	arbon Dioxid	de		% Nitrog	en	Gas Gr	avity - (	à <sub>g</sub>	
Vertical D		)				Press	sure Taps				(Meter I	Run) (P	rover) Size	
Pressure	Buildup	: Shu	t in _9/16	6/12 20	) at		(AM) (PM)	Taken_9	/17/12	20 _	at		(AM) (PM)	
Well on L	ine:	Sta	ted	20	) at		(AM) (PM)	Taken		20 _	at		(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Ouration of Shut-	in	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Iver Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		$(P_w)$ or $(P_t)$ or $(P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	ut-In		paig (FIII)	inches ri <sub>2</sub> 0			psig 7	pŝia	psig 2	psia	24			
Flow														
						FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (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 Fact		Flowing Temperature Factor F <sub>r1</sub>		Deviation Metero Factor F <sub>pv</sub> (M		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
					(OPEN EL	OW) (DELIV	EDADII ITV	CALCUI	ATIONS					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	:	P <sub>d</sub> =			- 14.4) -		:		$r^2 = 0.2$ $r^2 = $	:07 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</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: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curc Slope = "n" or Assigned Standard Slope		n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flow Mcfd @ 14.65 psia						Deliverability				Mcfd @ 14.65 psia				
The	undersi	-	•		Company,		e is duly au	thorized		ne above report	t and that he ha		vledge of 20	
			Witness (if	any)			_	<u>Wm</u>	/ <u> </u>	For Co	трану			
			For Commi	ssion			-			Check	ed by			

I declare under penalty of perjury under the laws of the state exempt status under Rule K.A.R. 82-3-304 on behalf of the operator and that the foregoing pressure information and statements concorrect to the best of my knowledge and belief based upon available of equipment installation and/or upon type of completion or upon upon upon the statement of the statement installation and/or upon type of completion or upon upon upon the statement installation and/or upon type of completion or upon upon upon upon upon upon upon upon	tained on this application form are true and ole production summaries and lease records se being made of the gas well herein named.									
I hereby request a one-year exemption from open flow testing for the RATHGERBER 1-31										
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 of is on vacuum at the present time; KCC approvation is not capable of producing at a daily rate in extended as the company of the best of my ability any and all staff as necessary to corroborate this claim for exemption from the Date: 11/28/12	al Docket No ccess of 250 mcf/D upporting documents deemed by Commission									
Signature:	Mallaugh R.									

## 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.