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

Type Test:	•				(	See Inst	ructi	ons on Re	verse Sid	le)							
Ор	en Flow				Test Date	<b>,</b> -					API No	15					
Del	iverabilty				10-29-2							0751-00-0	0				
Company Ritchie E		on, Inc.			_			Lease Pinkney	/-Rohr				•	#1	Vell Nu	mber	
County Ford				Section 6				TWP 28		RNG (E/W) 22W			Well Number #1  Kalacres Attributed  School Received  Columbia  Co				
Field Lamb Northwest					Reservoir Mississippian						Gathering Connection erior Pipeline			DEC	ORATION CON		
Completion Date 11-07-11				Plug Bac 5098'	Plug Back Total Depth 5098'			<u>.                                    </u>		Packer Set at			To 5038.5'				
Casing Size Weight 4.50" 10.5#			Internal E 4.052"	Internal Diameter 4.052"			Set at 5161'		Perforations 5022'			To 5038.5'					
Tubing Size Weight 2.375" 4.7#				1.995"				Set at 5079'		Perforations			То				
Type Com New	pletion (E	Describe)			Type Flui 0.05 ba			er per da	ıy		mp Unit : 98	or Traveling	Plun	ger? Yes	/ No		
Producing Thru (Annulus / Tubing) Annulus				% C 0.17	% Carbon Dioxide			• -			% Nitrogen 9.691			Gas Gravity - G 0.6638			
Vertical Depth(H) 5170'				V.11		ress ang	ure Taps je	re Taps						(Meter Run) (Prover) Size 3.068"			
Pressure	Buildup:	Shut in 10	-29	2	0_14_at_1				Taken_			20		at		(AM) (PM)	
Well on Li		Started 10		2										at			
						OBSER	RVE	SURFAC	E DATA				Dura	tion of Shut-	in	Hours	
Static / Orifice Dynamic Size Property (inches)		Circle one:  Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		- 1	Tubing Wellhead Pressure $(P_w)$ or $(P_l)$ or $(P_o)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In				2	<u> </u>			250	261	2	50	261	24	_	<u> </u>		
Flow																	
						FLOW S	STR	EAM ATTF	RIBUTES								
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient <sub>e</sub> ) Po	Circle ane: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> xh	Fac	Gravity Factor F <sub>0</sub>		Flowing emperature Factor F <sub>t</sub> ,		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		GOR (Cubic Feet Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
			<u></u>		(0.000)											<u> </u>	
P <sub>o</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> :	=	:	(OPEN FL P <sub>d</sub> =		%		r) CALCU P <sub>e</sub> - 14.4)			:		(P <sub>a</sub> ) <sup>(</sup>	2 = 0.2 2 =	:07	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	⊃_)²	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		nose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_s^2$	LOG of formula 1. or 2. and divide by:		2	Backpressure Cur Slope = "n" or Assigned Standard Slope		l n x I i		.oe		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
				, c w					•	-							
Open Flow Mcfd @ 14.65				.65 psia	5 psia De			Deliverability		Mcfd @ 14.65 psia							
	-	ed authority, o						,				above repo	rt an	d that he ha		vledge of 20 <u>14</u> .	
		Witness	(if an	py)		_	_			<u> </u>		For	Sempar	y ,			
	_	F0	mice'				_		7	41	zh E	<i>- Ε</i> χρ	(or	HON	LN	<u>ٽ</u>	
		For Com	missi	on					•			( Che	cked by	,			

exempt status under and that the forego correct to the best of equipment instal	er penalty of perjury under the laws of the state of Kansas that I am a er Rule K.A.R. 82-3-304 on behalf of the operator Ritchie Exploration, Ir oing pressure information and statements contained on this application of my knowledge and belief based upon available production summaries llation and/or upon type of completion or upon use being made of the ga	nc. on form are true and es and lease records s well herein named.
	st a one-year exemption from open flow testing for the Pinkney-Rohr #	<del>‡1</del>
gas well on the gro	ounds that said well:	
(Check of	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 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	ER 
I further agree	to supply to the best of my ability any and all supporting documents d	eemed by Commission
-	to corroborate this claim for exemption from testing.	KANSAS CORPORATION COMMIS  DEC 0 1 2014  CONSERVATION DIVISION WICHITA, KS
	Signature:  Production Manager	MONITA, KS VISION

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.