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

Type Test:				(	See Instruc	tions on Re	verse Side	)				
✓ Open Flo	w			Test Date	<b>.</b> .			ΛDI	No. 15			
Deliverab	oilty			12/2/20						0000		
Company Ritchie Exploration, Inc.						Lease Concep	t 3AB			#1	Well Number	
County Ford				Section 3		TWP 22			RNG (E/W) 18W		Acres Attributed	
Field				Reservoir Cong/M			Gas Gathering Cor IACX		hering Conne	ection		
Completion Date 01/09/2015				Plug Bac 4170	k Total Depi	th	Packer Set at		et at			
Casing Size Weight 4.50 10.5			Internal E 4.052	Diameter	Set at 4424		Perforations 4069		то 4123			
Tubing Size Weight 2.375 4.70			Internal D 1.995	Diameter		Set at 4048		rations	То			
Type Completio Frac	n (Desc	ribe)		Type Flui oil/wat	d Production er	n		Pump Un no	it or Traveling	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing) Tubing				% C 0.110	arbon Dioxi	le		% Nitrogen 11.040		Gas Gravity - G <sub>g</sub> 0.649		
Vertical Depth(H)				-	Pressure Ta					(Meter Run) (Prover) Size		
4096		,, 12/1		- 16 9	Flan :00 AM	<del>-</del>				3.068		
Pressure Buildu Well on Line:	•	ut in 12/1 urted 12/2	2	16 at 9	·AA AA						(AM) (PM)	
					0000000						. 24 Hours	
Dynamic Siz	namic Size Prove		Pressure Dilferential in		Well Head Temperature	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>6</sub> )		Duration of Shut-in  Duration (Hours)	In Hours Liquid Produced (Barrels)	
Property (inch	i (sor	psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig 60	psla 170	psig 40	psia 60	` ` .	(======================================	
Flow					<u> </u>		170	10				
			1		FLOW STR	REAM ATTR	IBUTES		l <del></del> -		l	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Me: Prover	ie one: ter or Pressure sia	Press Extension ✓ P <sub>m</sub> xh	Extension Fact		tor Temperature		Deviation Metered Ft Factor R F <sub>pv</sub> (Mcfd)		GOR (Cubic F Barrel	eet/ Fluid	
								:				
(P <sub>c</sub> ) <sup>2</sup> =	_:	(P <sub>w</sub> )² =	:	(OPEN FLO		ERABILITY % (F	) CALCUL P <sub>a</sub> - 14.4) +		:	(P <sub>a</sub> (P <sub>d</sub>	) <sup>2</sup> = 0.207 ) <sup>2</sup> =	
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_a)^2$	(P <sub>c</sub> ) <sup>2</sup> -	$ \begin{array}{c} \text{Choose formula 1 c} \\ (P_c)^2 - (P_w)^2 \\ \\ 1. \ P_c^2 - P_a^2 \\ \\ 2. \ P_c^2 - P_d^2 \\ \\ \text{divided by: } P_c^2 - 1 \end{array} $		LOG of formula 1, or 2, and divide p 2_p 2		Backpressure Curve Slope = "n"or Assigned Standard Slope		n x L	.og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				<del> </del>	<del></del>							
Open Flow			Mcfd @ 14.0	35 psia		Deliverab	oility			Mcfd @ 14.65 ps	sia	
The unders	igned at	uthority, on b	ehalf of the	Company, s	tates that h	e is duly au	athorized to	make th	e above repo	rt and that he h	as knowledge of	
he facts stated to	_	•		• •		•		day of M	•	$\overline{}$	, 20	
		Milhon III				_	R	the	FAI	<del>,</del>	Receive Ansas corporation	
		Witness (if ar	, tri				<u> </u>		<u>i</u> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ompany	_ 10720	
		For Commissi	lon			_			- Variation	ked by	CONSERVATIOND	
									ļ.		WICHITI, K	

	•
exempt status under and that the foregonetrect to the best of equipment instal I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Ritchie Exploration, Inc.  Doing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. Statements and exploration from open flow testing for the Concept 3AB bounds 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 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 3/16/2017	Received  KANSAS CORPORATION COMMISS  MAR 2 0 2017  CONSERVATION DIVISION WICHITA, KS

## 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.