KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			((See Instruc	tions on Re	verse Side	p)					
Op	en Flow			Test Date	۵٠			API	No. 15				
De	eliverabilty	1		10-24-2					-20715-00-	00			
Company Ritchie I		ion, Inc.				Lease Brown	ЗАВ			#1	Well Nu	ımber	
County Location Ford 70' S & 40' E of NW N			Section 3		TWP 28		RNG (E/W) 22W			Acres Attributed 640			
Field Ford				Reservoi Mississ					nering Conn or Pipeline	ection			
Completion 03-01-11				Plug Bac 5114'	k Total Dept	th		Packer S	et at				
Casing Size Weight 4.50" 10.5#		Internal I 4.052"	Internal Diameter 4.052"		Set at 5144 '		rations 2'	то 5005'					
Tubing Size Weight 2.375" 4.7#			Internal I	Diameter	Set at 4972'		Perforations		То				
	npletion (Describe)		Type Flui	id Production		ıv	Pump Un No	it or Traveling	J Plunger? Yes	s / No		
Producing Thru (Annulus / Tubing) Tubing				Carbon Dioxi		e % N		% Nitrogen 15.292		Gas Gravity - G _o 0.7024			
Vertical Depth(H) 5151'				0.111	Pres Flan	sure Taps			<u> </u>	(Meter Run) (Prover) Size 3.068"		rover) Size	
Pressure	Buildup:	Shut in)-23	15 at 9		<u> </u>	Taken		20	at		(AM) (PM)	
Well on L	ine:	Started 10	24 2	15 at 9	:00 AM	(AM) (PM)	Taken		20	at		(AM) (PM)	
					OBSERVE	D SURFAC	E DATA	-		Duration of Shu	t-in	Hours	
Static / Dynamic Property	mic Size		Differential in	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		ubing ad Pressure (P _t) or (P _c)	Duration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In		psig (Pm	, mones ri ₂ 0			125	131	psig 165	173	24			
Flow													
	· · · · · · · · · · · · · · · · · · ·				FLOW STR	EAM ATT	RIBUTES	V	•				
Plate Coeffiec (F _b) (F Mcfd	eient (a)	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac F	tor	Flowing Femperature Factor F _{II}	Fa	iation ctor :	Metered Flow R (Mcfd)	w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _e	
/D.)2		(D.)3		a .	OW) (DELIV		•				$_{1})^{2} = 0.2$:07	
(P _c) ² =	;	(P _w) ²	Choose formula 1 or 2	· P _d =		1	P _c - 14.4) + essure Curve		: :	, (P,	j)2 =		
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ²	1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Slo	pe = "n" - or signed lard Slope	n x I	.og	Antilog	Del Equals	oen Flow iverability s R x Antilog (Mcfd)	
											_		
Open Flo	- · ' W		Mcfd @ 14	.65 psia		Deliverat	oility			Mcfd @ 14. <u>6</u> 5 p	sia		
The	undersign	ed authority,	on behalf of the	Company, s	states that h	e is duly a			•	ort and that he h	nas know	ledge of	
the facts s	tated ther	rein, and that s	said report is tru	e and correc	t. Executed	this the <u>1</u>	1th	day of No	ovember		,	20 15	
		Witness	(if any)		KCC V	VICHI	Kate	M	A PON	MATION T	Jn	<u>. </u>	
		For Corn	mission		NOV	6 2015		مكريد	Che	cked by			
					REC	EIVED							

exempt status unde	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Ritchie Exploration, Inc.
and that the forego	g pressure information 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
	ion and/or upon type of completion or upon use being made of the gas well herein named.
i hereby reques	a one-year exemption from open flow testing for the Brown 3AB #1
gas well on the grou	ds that said well:
I further agree to staff as necessary to	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commissi corroborate this claim for exemption from testing.
Date: 11-11-2015	
	C WICHITA Signature: OV 1 6 2015 Title: Production/Development Geologist RECEIVED

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.