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

Type Test:			(	See Instruct	tions on Rev	erse Side	)			
Open Flow	•		Test Date				ADI	No. 15		
Deliverabil	lty		11/19/11					19 <del>9</del> -20352	-000	$\supset$
Company Raven Resource	ces, LLC				Lease Lutters				#1-30	Vell Number
County Location Wallace County NE/4 NW/4			Section 30		TWP 11S		RNG (E/W) 41W		Acres Attributed	
Field			Reservoir Niobrara					hering Conn gathering s		ansas Pipeline)
Completion Date 8/2008	1		Plug Back 1125'	k Total Dept	h		Packer S			
Casing Size Weight 4 1/2" 10.5			Internal Diameter		Set at 1167'		Perforations 1006'		то 1034'	
Tubing Size 2 3/8"	ubing Size Weight		Internal Diameter				Perfo	orations To		
	Type Completion (Describe)		Type Fluid Only G	d Production			Pump Ur No	nit or Traveling	Plunger? Yes / No	
	(Annulus / Tubing	)		arbon Dioxi	de		% Nitrog	en	Gas Gra	wity - G
Vertical Depth(H)	)			Pres	sure Taps	_		,	(Meter F .500"	Run) (Prover) Size
Pressure Buildup	: Shut in	19	11 at 1	1:00 a.n	(AM) (PM)	Taken_11	/20	20	11 <sub>at</sub> 11:00 a	am (AM)(PM)
Well on Line:	Started 11/2	20	11 at 1	1:00 a.m	(PM)	Taken 11	/21	20	11 at 11:00 a	a.m. (AM) (PM)
-				OBSERVE	D SURFACE	DATA	• •		Duration of Shut-i	n_24 Hours
Static / Orific Dynamic Size Property (inche	Meter Prover Pressu	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casir Wellhead P (P <sub>w</sub> ) or (P <sub>1</sub>	ressure ) or (P <sub>c</sub> )	Wellhe	fubing ad Pressure (P <sub>t</sub> ) or (P <sub>a</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Shut-in .500	15.2	0			psig 12	psia	psig 12	psia	24	0
Flow .500	15.6	4			8		8		24	0
	-		<del></del>	FLOW STR	EAM ATTRI	BUTES	<del></del>			
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	or 1	Flowing Femperature Factor F <sub>ft</sub>	Fac	ation ctor	Metered Flow R (Mcfd)	y GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G <sub>m</sub>
			(ODEN EL	OWN (DELLIV	ERABILITY)	CALCU	ATIONS			
(P <sub>c</sub> ) <sup>2</sup> =	: (P_)² =	:	P <sub>d</sub> =	, ,	•	- 14.4) +		:	(P <sub>s</sub> )² (P <sub>a</sub> )²	= 0.207
$(P_c)^2 - (P_e)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 4ivided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P2. P2	Backpress Slope 	sure Curve 3 = "n" 37	nxl	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flow	Open Flow Mcfd © 14.65 psia Deliverabili					ity	Mcfd <b>②</b> 14.65 psia			
The undersig	•		, ,		· /	horized to	1	/ ~	rt and that he has	s knowledge of 20 _//
	Witness (if	···			<i>-</i>				ompany	1 6 2011

KCC WICHITA

I declare un	der penalty of perjury under the laws of the state of Kansas that I am authorized to request						
	nder Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC						
	egoing pressure information and statements contained on this application form are true and						
	st of my knowledge and belief based upon available production summaries and lease records						
• •	stallation and/or upon type of completion or upon use being made of the gas well herein named.  uest a one-year exemption from open flow testing for the Lutters #1-30						
	grounds that said well:						
(Che	ck one)						
	is a coalbed methane producer						
<u> </u>	is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER						
Ī							
	is on vacuum at the present time; KCC approval Docket No.						
<b>√</b>	is not capable of producing at a daily rate in excess of 250 mcf/D						
•	ee to supply to the best of my ability any and all supporting documents deemed by Commission						
statt as necessa	ary to corroborate this claim for exemption from testing.						
Date: _12/14/20	11						
)ate: <u>12/14/20</u>							
	Signature:						
	Title: _Managing Member						

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.

RECEIVED

DEC 16 2011

KCC WICHITA