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

Type Test					(	(See Instruc	ctions on Re	everse Side	9)				
Op	en Flov	N			Test Date	a·			ADI	No 15			
✓ Deliverabilty			Test Date: 11/24/12				API No. 15 15-199-20330 <b>– 0000</b>						
Company Raven Resources, LLC					Lease Westfield				Well Number #1-31				_
County Wallace County			Location C NW/4		Section 31		TWP 11S			W)	Acres Attributed		_
Field			Reservoir Niobrara					Gas Gathering Connection Closed gathering system (West Kansas Pipeline)					<u> </u>
Completion Date 8/2008						k Total Dep	oth			To Selling Plunger? Yes No		! CEIVE	
Casing Size 4 1/2"			Weight 10.50	·	Internal I	Diameter		Set at 1143'		rations	To 928'	DEC	26 20
Tubing Size 2 3/8"			Weight 4.7		Internal Diameter		Set at <b>864'</b>		879' Perforations		To KC		_
Type Completion (D "Single Gas"										Plunger? Yes	No	וואטע	
Producing Tubing			ulus Tubing			Carbon Diox	ride		% Nitrog	en	Gas Gr	avity - G <sub>g</sub>	_
Vertical D	Pepth(H	)			,	Pres	ssure Taps				(Meter )	Run) (Prover) Size	,
Pressure	Buildup		Shut in		0_12_at_1		(AM) (PM)	Taken_11	1/25	20	12 <sub>at</sub> 11:19	(AM)PM)	_
Well on L	ine:	9	Started 11/2	52	0 12 at 1	1:19		Taken 11		20	12 at 11:19	(AM)(PM)	
						OBSERVI	ED SURFAC	E DATA			Duration of Shut-	in 24 Hou	rs
Static / Dynamic Property	Orific Size (inche	ize Prover Pressure		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		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>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	Shut-In .2500		17	0	60		psig 4	psia psig		psia	24	0	1
Flow	Flow .2500		15	5	46		2		2		24	0	
		_				FLOW ST	REAM ATTR	IBUTES					_
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	Grav Fac	tor	Flowing Temperature Factor F <sub>ft</sub>	Fa	iation ctor pv	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	l Gravity	
<u> </u>					(ODEN EI	OW) (DELII)	/ERABILITY	CALCIII	ATIONS				J
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =			P <sub>c</sub> - 14.4) +		:	(P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> dided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpre Slo 	essure Curve pe = "n" - or ssigned dard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	g
Open Flo	) W		Mcfd @ 14.65 psia				Deliverability			Mcfd @ 14.65 psia			
		•	authority, on n, and that said Witness (if a	d report is true			•	10	o make the	Tec	ort and that he ha	as knowledge of, 20 \( \begin{align*}	- : -
			For Commiss	sion			-		<del> </del>	Che	cked by		<del></del>

## **DEC 2 6 2012**

## VOO MIOLII

	NCC WICHIA
	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	er Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC
nd that the foreg	oing pressure information and statements contained on this application form are true and
orrect to the best	of my knowledge and belief based upon available production summaries and lease records
f equipment insta	ıllation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	est a one-year exemption from open flow testing for the Westfield #1-31
gas well on the gro	ounds that said well:
(Check	one)
	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
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary	to corroborate this claim for exemption from testing.
·	
Date: 12/14/2011	
	Signature: Ale ed
	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.