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

Type Test	:				(-	See Instructi	ions on Rev	erse Side	)		•		
Ор	en Flo	w			Test Date				A DI	No 1E			
<b>√</b> De	liverab	ilty			July 25,					No. 15 199-20363 <b>-</b>	0000		
Company Raven R		rces	, LLC				Lease Westfield	t		•	#1-1	Well Num	oer
County Wallace	Coun	ty	Locatio NW/4 N		Section 1		TWP 12S		RNG (E/ 42W	W)		Acres Att	ributed
Field					Reservoir Niobrara					hering Conne Gathering S	ection System (West I	Kansas I	Pipeline
Completic 8/2008	on Dat	e			Plug Bac 991.34	k Total Dept	h	***************************************	Packer S	Set at			
Casing Si 4 1/2"	ize		Weight 10.5		Internal C	Diameter	Set a 1033		Perfo 830	rations	To 863'	•	
Tubing Si 2 3/8"	ZØ		Weight		Internal D	Diameter		Set at <b>825</b> '		Perforations			· · ·
						Type Fluid Production Only Gas			Pump Unit or Traveling Plunger? Yes / No				
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrogen Gas Gravity - G					
Tubing											·	•	
Vertical D 1040'	epth( <del>l</del>	,	•			Press	sure Taps				(Meter ) .500	Run) (Pro	ver) Size
Pressure	Buildu	p:	Shut in July	2 2	0_14_at_8	:30 /	(AM) (PM)	Taken_JL	ıly 23		14 <sub>at</sub> 8:30	(A	M)(PM)
Well on L	ine:	•	Started July	23 2	0 <u>14</u> at <u>8</u>	:30	(AM) (PM)	Taken <u>Ju</u>	ıly 25	20	14 at 8:30	(A	M) (PM)
	,					OBSERVE	D SURFACE		,		Duration of Shut-	504	Hours
Static / Dynamic Property	Orifi Siz (inch	e	Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead F (P <sub>w</sub> ) or (P <sub>1</sub> psig	Pressure	Wellhe	Tubing ad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)	1 .	Produced rrels)
Shut-In	.250	)	22	0		90	7	, , , , , , , , , , , , , , , , , , ,	7	755	504	0 .	
Flow	.250	)	15.7	7.6		90	4	· .	4		48	0	
						FLOW STR	EAM ATTRI	BUTES					
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient <sub>p</sub> )	Pro	Circle one:  Meter or over Pressure psia	Press Extension P <sub>m</sub> xh	Grav Fact	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor py	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
•								<u> </u>					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	<u></u> :	(OPEN FL		<b>ERABILITY)</b> % (P	CALCUL + (14.4 - <sub>ء</sub>		:	(P <sub>a</sub> ) (P <sub>d</sub> )	<sup>2</sup> = 0.207	<i>r</i>
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		(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> vided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub>	LOG of formula 1. or 2. and divide   p 2 _ p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Delive Equals F	n Flow erability R x Antilog lcfd)
			•							- "			1
	·												
Öpen Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity	,		Mcfd @ 14.65 ps	ia	
The i	unders	igne	d authority, on	behalf of the	Company, s	states that h	e is duly au	thorized t	o make ti	ne aboye repo	rt and that he ha	as knowle	dge of
			in, and that sai	,		t. Executed	this the 24		day of	eptember	1	•	14 .
			Witness (if	any)			CORPORATIO	W 60MM	SSION	For (	Сотралу		· · ·
			For Commis	sion			SEP 29	2014		Che	cked by		<del></del>

						•
	ler penalty of perju	· ·				o request
exempt status un	der Rule K.A.R. 82-	3-304 on beh	alf of the operator	Raven Resources	S, LLC	
and that the fore	going pressure info	ormation and	statements conta	ained on this applic	cation form are	true and
correct to the bes	t of my knowledge	and belief ba	sed upon availabl	e production summ	naries and leas	e records
	allation and/or upor			• =		n named.
I hereby requ	est a one-year exe	mption from o	pen flow testing for	or the Westfield #	1-1	
gas well on the g	rounds that said we	ell:				
	•		-			
(Checi						
	is a coalbed meth	· ·				. •
	is cycled on plun					
	is a source of nat	ural gas for i	njection into an oi	reservoir undergo	ing ER	•
· <u>L</u>		-	ne; KCC approval			
<b>√</b>	is not capable of	producing at	a daily rate in exc	cess of 250 mcf/D		
		est of my ab	ility any and all su	pporting documen	ts deemed by	Commissio
I further agre	e to supply to the b	-		. A.T		
	e to supply to the b ry to corroborate th	is claim for e	xemption from tes	sting.		
_		is claim for e	xemption from tes	sting.		
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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 KANSAS CORPORATION COMMISSION