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

Type Test	t:		•		(	See Instruc	ctions on Rev	verse Side	)				
Open Flow				Test Date				ADLI					
✓ Deliverabilty				July 25,		•	API No. 15 15-199-20362 <del>-</del>						
Company Raven R		rces	, LLC	. 400			Lease Lutters				Well Number #2-30		
County Location Wallace County NE/4 SW/4					Section 30		TWP 11S			RNG (E/W) 41W		Acres Attributed ;	
Field					Reservoir Niobrara				Gas Gathering Connection Closed Gathering System (West Kansas Pipeline				
Completion Date 8/2008					Plug Back 1158'	k Total De	pth	Packer Set at		et at	• •		
Casing Size 4 1/2"			Weight 10.5		Internal Diameter		Set at 1200'		Perforations 974'		To 1000'		
Tubing Size Weight 2 3/8" 4.7			nt .	Internal Diameter			Set at 976'		ations	То			
Type Completion (Describe) "Single Gas"				Type Fluid	d Production	on	Pump Unit or Trav		t or Traveling.	Plunger? Yes	/No		
Producing			nulus / Tubin	9) '	· · · · · · · · · · · · · · · · · · ·	arbon Dio	xide	% Nitrogen			Gas Gr	avity - G <sub>g</sub>	
Tubing	N = -4 = 71						<del>-</del>				<b></b>		
Vertical D	Jeptn(F	1)	*		Pressure Taps			-		(Meter F .500	Run) (Prover) Size		
Pressure	Buildu	ıp:	Shut in Jul	y 2	0 14 at 9:	:50	_ (PM)	Taken_Ju	ly 23	20 _	14 <sub>at</sub> 9:50	(AN) (PM)	
Well on Line: Started July 23 20 14 at 9:50 (PM) Taken July 25 20 14 at 9:50 (PM)										(AM) (PM)			
						OBSERV	ED SURFACI	E DATA		1	Duration of Shut-	in 504 Hours	
Static / Orifice Dynamic Size Property (inches		e	Circle one Meter Prover Press psig (Pm)	Pressure Differential, in Inches H <sub>2</sub> 0.	Flowing Well Heat Temperate t		re Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</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	.250	00	21	0		90	psig 6	psia	psig 6	psia .	504	0	
Flow	.250	00	18.2	48.9		90	4		4		48	0	
	<u> </u>		<u> </u>			FLOW ST	REAM ATTR	IBUTES			• *************************************		
Plate Coeffied (F <sub>b</sub> ) (F Mcfd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor :	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Growity	
				1	(OPEN EL	OW) (DELI	VERABILITY	CALCUI	ATIONS				
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	::	P <sub>d</sub> =	• •		, CALCUL P <sub>c</sub> - 14.4) +		:	(P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		2. P <sub>2</sub> <sup>2</sup> - P <sub>d</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>	Slor	kpressure Curve Slope = "n"or Assigned tandard Slope		og .	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				divided by: $P_c^2 - P_w^2$	by:	<u> </u>	Stand	ard Slope	**			(wicid)	
	,			· · · · · · · · · · · · · · · · · · ·									
Open Flow Mcfd @ 14.			65 psia	Deliverab	ability			Mcfd @ 14.65 psia					
. The	unders	igne	d authority, o	n behalf of the	Company, s	states that	he is duly au	uthorized to	o make th	e above repor	t and that he ha	as knowledge of	
-				aid report is true	and correc	t. Execupte		4	day of So	ptember		, 20 14	
. Witness (if any)						SEP	2 9 2014			For Co	ompany	· ·	
			For Comr	nission		CONSERV	- VATION DIVISIO CHITA, KS	NC		Check	ked by		

			·	•
I declare under penalty of	periury under the lay	vs of the state of	Kansas that I am	; authorized to request
exempt status under Rule K.A.F	•			
and that the foregoing pressur				
correct to the best of my knowle				
of equipment installation and/o	-			•
I hereby request a one-yea		•	•	
gas well on the grounds that sa				
		a .		
(Check one)			•	
is a coalbed	methane producer	*		4 - 4
is cycled or	plunger lift due to wa	ater		
is a source	of natural gas for inje	ction into an oil re	eservoir undergoin	g ER
is on vacuu	n at the present time;	KCC approval Do	ocket No	
✓ is not capat	le of producing at a	daily rate in exces	ss of 250 mcf/D	
I further agree to supply to	• •		· .	deemed by Commission
staff as necessary to corrobor	ite this claim for exer	nption from testir	ng.	
Date: September 24, 2014		•		•
•				
		$\bigcap$ .	$A \cap$	
	•	X k		<b>Y</b>
	Signature	: Du	M	
	Title	: Managing Mei	mber, Raven Reso	ources, LLC
			•	

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.