KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(-	See Instruc	tions on Re	verse Side)				• *	
Open Flow				Test Date	, .	a .	API No. 15							
✓ Deliverabilty			July 25,			15-199-20334 •			0000		٠			
Company Raven Resources, LLC					,	Lease Westfield			#1-			Well Number		
· •			Location E/2 SE/4		Section 36			TWP 11S		N)		Acres Attributed		
Field				Reservoir Niobrara				Gas Gathering Connection Closed Gathering System (West Kansas Pipeline						
Completion 7/2008	on Dat	е		Plug Back 1012.30	k Total Dep)'	eth ,	Packer Set at					•		
Casing Size 4 1/2"			Weight 10.5		Internal Diameter		Set at 1048.65'		Perforations 862'-920'		To 925'-933'			
Tubing Size 2 3/8"			Weight		Internal D	Diameter	Set		Perforations		То			
Type Completion (Describe) N2 Frac "Single Gas"					Type Fluid Production Only Gas			*	Pump Unit or Traveling Plunger? Yes No					
		-	nulus (Tubing)			arbon Diox	ide		% Nitroge	en'	Gas G	ravity -	G _g	
Vertical D	Depth(F	1)		• •		Pres	ssure Taps				(Meter	Run) (P	Prover) Size	
1060'							•	- 1			.500	·.		
Pressure Buildup: Shut in July 2 20 14 at 9:00 (AM) PM) Taken July 23 20 14 at 9:00								((AM) (PM)					
Well on L	ine;		Started July	232	0 <u>14</u> at <u>9</u>	:00	. (AM) (PM)	Taken Ju	ıly 25	20	14 at 9:00		AM) (PM)	
	.		·			OBSERVE	ED SURFAC	E DATA			Duration of Shut	-in_50	4 Hours	
Static / Oynamic Property	Orifi Siz (inch	е	Pressure Pressure Differential Temperature Prover Pressure Inches H ₂ 0 Inches H ₂ 0 Pressure Temperature Temperature		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)					
Shut-In	Shut-In .2500		23.7	0	90		psig 9	psia ,	psig .	. psia	504	04 0		
Flow	Flow .2500		17.4	16		90	4	·	4		48	0		
·			· · ·	•		FLOW ST	REAM ATT	RIBUTES						
Plate Coeffiecient (F _b)(F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	Grav Fac F	tor	Flowing Temperature Factor F ₁₁	Fa	iation ictor pv	Metered Flow R (Mcfd)	GOA (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
ı					<u>l</u> .						-			
(P _c) ² =			(P _w) ² =_	:	'(OPEN FL		VERABILITY	/) CALCUL P _c - 14.4) +	٠.) ² = 0.2) ² =	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² - P _a ² 2. P _c ² - P _d ² vided by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpressur Slope =		n x I	og	Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			-											
Open Flow		Mcfd @ 14.65 psia				Deliverability			Mcfd @ 14.65 psia					
			d authority, on n, and that said	d report is true	and correc	t. Execute	CORATION CO	4	day of	enternber	rt and that he h		vledge of 20 <u>14</u>	
	,	••••	For Commis			SEP	Z 3 ZU	ISION			ked by	•	· · · · · · · · · · · · · · · · · · ·	

WICHITA, KS

 I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC
and that the foregoing 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 of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the
gas well on the grounds 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. is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree 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: 9/24/2014
Signature: Managing Member, Raven Resources, LLC

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.