KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Rev	verse Side)						
Op	en Flov	v			Test Date	•			ΔDI	No. 15					
√ De	liverabi	ity				5/21/2013				API No. 15 15-199-20330 - 0000					
Company Raven R		ces,	, LLC				Lease Westfiel	d				#1-31	Well Nu	ımber	
County Location Wallace County C NW/4				Section 31		TWP 11S		RNG (E/W) 41W		Acres Attributed			Attributed		
Field						Reservoir Niobrara				Gas Gathering Connection Closed Gathering System (West Kansas Pipeline)					
Completion Date 8/2008					Plug Bac 1107'	k Total Dept	th		Packer Set at						
Casing Size 4 1/2"			Weight 10.5		Internal Diameter		Set at 1143'		Perforations 879'		то 928'				
Tubing Size 2 3/8"			Weight	t	Internal Diam		eter Set at 864'		Perforations		То				
						Type Fluid Production Only Gas			Pump Unit or Traveling Plunger? Yes / No						
		(Anr	nulus /(Tubing			% Carbon Dioxide				% Nitrogen Gas Gravity - G _g					
Tubing Vertical D	Depth(H)				Pres	sure Taps					(Meter F	Run) (P	rover) Size	
1157' Pressure Buildup: Shut in 5/20 20					20 13 _{at} 9	13 at 9:00 (AM) (PM) Taken			5/21 ₂₀			13 0:00		(AM) (PM)	
Well on Line:			Started 5/21			13 9:00		(AM) (PM) Taken 5/2				13 at 9:00		(AM)(PM)	
						ORSERVE	D SURFACE	F DATA			Dur	ation of Shut-	24	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prove r P ressu	Pressure Differential	Flowing Temperature	Well Head	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration of Shut-i		Liquid Produced (Barrels)		
Shut-In			psig (Pm) 17.9	Inches H ₂ 0	96.4		psig 6			psig psia		24		0	
Flow			13.5			82			2	24					
	l		<u> </u>			FLOW STR	EAM ATTR	IBUTES					1		
Plate Coeffiecient (F _b) (F _p) Mofd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P _m x h	Gra Fac F	tor	Flowing Temperature Factor F ₁₁		Deviation Metered Factor R F _{pv} (Mcfc		ow GOR (Cubic Fe Barrel)		et/	Flowing Fluid Gravity G _m	
					(OPEN FL	OW) (DELIV	ERABILITY)) CALCUL	ATIONS			/D \/	² = 0.2	107	
(P _c) ² =		_:	(P _w) ² =	:	P _d =		% (P	ີ _ເ - 14.4) +	14.4 =	:		(P _a):			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpress Slope Assig Standar		n x	n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
O				Matabata			Deliversh	.:1:4.			N/	1 @ 14 85			
Open Flo				Mcfd @ 14			Deliverab					d @ 14.65 psi			
		•	•	n behalf of the			•	17	o make the		ort ar	nd that he ha	s know	riedge of 20 23.	
									m	KAX		Y	KC	WICH	
			Witness (if	fany)			-			For (Compa	nny	11 11	29 201	
			For Comm	ission			_			Che	cked b	у	- JU I	6 6 3 6 VI	
													F	RECEIVE	

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 Westfield 1-31 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: 7/13/13
Signature: And Signat

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. **TKGG WIGHTA** signed and dated on the front side as though it was a verified report of annual test results.

JUL 29 2013