KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(See Instruc	tions on Re	verse Side))					
Open Flow	ı		Test Date	e.			API	No. 15				
✓ Deliverabilty 5/21/2013					15-199-20358 - 000 0							
Company Raven Resourc	ces, LLC				Lease Lutters				#3-25	Well Nur	nber	
County Location Vallace County NE/4 NE/4			Section 25		TWP 11S		RNG (E/W) 42W		Acres Attributed			
Field	Reservoir Niobrara			Gas Gathering Connection Closed Gathering System (West Kansas Pipeline)								
Completion Date 7/2008			Plug Back Total Depth 1162.22'				Packer Set at				· ·	
sing Size Weight 1/2" 10.5		Internal Diameter		Set at 1204.4'		Perforations 997' - 1024'		То				
Tubing Size	Size Weight 4.7			Diameter	Set at		Perfo	orations	То			
Type Completion (Describe)				Type Fluid Production Only Gas			Pump Unit or Traveling Plunger? Yes / No					
	(Annulus / Tubing)		arbon Dioxi	de		% Nitrog	jen	Gas Gr	ravity - G	9	
Vertical Depth(H) 1220'				Pres	ressure Taps				(Meter Run) (Prover) Size .500			
Pressure Buildup			0_13_at_8	13 at 8:30		(AM) (PM) Taken 5/2		20	13 _{at} 8:30		(AM) (PM)	
Vell on Line: Started 5/21 20		2 13 at 8:30		(AM) (PM)	AM) (PM) Taken 5/22		20	13 at 8:30	(AM)(PM)			
				OBSERVE	D SURFAC	E DATA			Duration of Shut-	-in_24	Hours	
Static / Orifice Meta Differ		Pressure Differential in Inches H ₂ 0	Flowing Temperature t		Casing Wellhead Pressure (P _w) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		l Produced Barrels)	
Shut-In .250	18.7	0	92.2		7	рыа	7	pola	24	0	0	
Flow .250	13.8 17.6 84.2			2		2		24	0			
				FLOW STF	REAM ATTR	RIBUTES						
Plate Coefficcient (F _b) (F _p) Mcfd	Coefficient Meter or Extension $(F_b)(F_p)$ Prover Pressure $\sqrt{P x h}$		Gravity Factor F _g		Temperature Fact		viation actor F _{pv}	Metered Flor R (Mcfd)	W GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
			(OPEN FL	OW) (DELIV) ² = 0.20		
$(P_c)^2 = $		Choose formula 1 or 2			% (I	P _c - 14.4) +	14.4 =	<u> </u> :	(P _d)) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P _c) ² - (P _w) ²	2. P _c ² - P _d ² 2. P _c ² - P _d ²		LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Deli ¹ Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		divided by: P _c ² - P _w	2 by:		Jan					Ì		
Open Flow		Mcfd @ 14	65 psia		Deliveral	bility		· · · · · ·	Mcfd @ 14.65 ps	ia		
	gned authority, or erein, and that sa					クロ	day of	he above repo	and that he ha		edge of	
ac.s siares th						(de	to		D,		C WICH	
	Witness (if	any)			•				Company	JU	L 2 9 20	
	For Comm	ssion						Che	cked by		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 Lutters #3-25
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
<u>. </u>
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: 7/12/13
Signature: Title:

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

JUL 2 9 2013