KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

ype rest:					(,	see msnuc	tions on Heve	erse Side	"			
 -	n Flow verabilt				Test Date					No. 15	4004	
mpany		·			11/24/12		Lease		15-	199-20332 -		Well Number
Raven Resources, LLC						Agnew					#1-23	
County Loc Wallace County NE/4			ocation /4	on Section 23		TWP 11S			RNG (E/W) 42W		Acres Attributed	
Field					Reservoir Niobrara			Gas Gathering Connection Closed gathering system (West Kansas Pipeline)				
Completion Date 7-9-07					Plug Bac 1157.26	k Total Dep	th	Packer Set		Set at		RE
asing Siz	e	Weight 10.5			Internal D	Diameter	ter Set at 1197.81'		Perforations 1046'-1090'		то 1094'-	-1104' DEC
ibing Siz	е	Weight 4.7			Internal E	Diameter	ter Set at 1049.70'		Perforations		То	RE 1104' DEC
Type Completion (Describe) N2 Frac				Type Fluid Production				Pump Unit or Traveling Plunger'			No	
roducing ubing	Thru (/	Annulus (ubing		% C	arbon Diox	ide		% Nitrog	en	Gas Gr	avity - G _g
ertical De 207'	epth(H)					Pres	sure Taps				(Meter) .500	Run) (Prover) Size
ressure E	Buildup:	: Shut in	11/24	2	12 at 9	:28	(AM) (PM)	Taken_11	1/25	20	12 at 9:28	(AM) (PM)
ell on Lir	ne:	Started			12 at 9:		(AM) (PM)				12 at 9:28	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hours
Static / Dynamic Property	amic Size		Pressure Differential in psig (Pm)		Flowing Temperature t Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.2500			0	73		psig 5	psia	psig psia 5		24 0	
Flow	.2500) 15		35.0	45		2		2		24	0
						FLOW ST	REAM ATTRI	BUTES				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Grav Faci F _s	tor	Flowing Temperature Factor F _{ft}		iation actor _{pv}	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	l Gravity
		<u> </u>										
)² =		.: (F	P _w) ² =	:	(OPEN FLO		/ERABILITY) % (P _a	CALCUL - 14.4) +		<u></u> :	(P _a) (P _d)	² = 0.207 ² =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_w^2$	P _c P _c P _d LOG of formula 1. P _c P _c P _d 1. or 2. and divide		Backpressure Cu Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Dpen Flow Mcfd @ 14.65 psia				 	Deliverability		Mcfd @ 14.65 psia					
The u	ndersig	•	•		Company, s		ne is duly aut	horized to	o make the		ort and that he ha	
		Wi	tness (if ar	ny)			_		urs	For	Company	
		Fo	r Commissi	ion			_			Che	cked by	

	NCC WICHIA
	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC
correct to the bes of equipment inst I hereby requ	going pressure information and statements contained on this application form are true and it of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Agnew 1-23
(Check	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: / 2//	Signature: Man Mouler Title: Mg Mouler

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.