KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Or	t: oen Flo	w												
	eliverab				Test Date 5/21/20					I No. 15 -199-20332	- 0000	•		
Company					5/21/20	10	Lease		13	- 199-20002		We	l Number	
Raven Resources, LLC								Agnew			#1-23			
County Wallace	•				Section 23				RNG (E/W) 42W			Acres Attributed		
					Reservoir Niobrara			Gas Gathering Connection Closed Gathering System			(West	Kansas		
Completion Date Plug Back Total De 1157.26'					epth		Packer	Set at	-		Pipelin			
Casing S 4 1/2"	Casing Size			nt	Internal	Internal Diameter		Set at 1197.81'		Perforations 1046-1090'		то 1094'-1104'		
Tubing Si 2 3/8"				Internal	Diameter	Set	Set at		Perforations		То			
Type Completion (Describe) Type Fluid Produ N2 Frac Only Gas						ion		Pump U No	Init or Travelin	g Plunger	? Yes /	¥0		
•	g Thru	(Anı	nulus / (Tubin	9)	% (Carbon Dic	oxide		% Nitro	gen		Gas Gravit	y - G _g	
Tubing Vertical D	Oonth/L	١٨		·		D _r	essure Taps					(Motor Bun) (Prover) Size	
1207'	epui(r	1)				rit	essure raps					.500) (Flovel) Size	
Pressure	Buildu	p:	Shut in 5/2	0	20 13 at 8	:00	_ (ÂM) (PM)	Taken_5	/21	20	13 at	8:00	(AM) (PM)	
Well on Line: Started 5/21 20 13 at 8:00					(AM) (PM) Taken 5/22				13 at		(AM) (PM)			
						•		Tullott						
						OBSER\	/ED SURFAC				Duration	of Shut-in_	24 Hours	
Static / Dynamic	I	Orifice Size inches) Circle one: Meter Prover Pressu psig (Pm)		Pressure Differentia	I Flowing	Well Head Temperature	Wellhead	Casing Wellhead Pressure		Tubing Wellhead Pressure			Liquid Produced	
Property	I			ure in Inches H ₂ (1 1	t	(P _w) or (P _t) or (P _c) psig psia		(P _w)	or (P _t) or (P _c)	(Ho	ours)	(Barrels)	
Shut-In	.250)	17.2	0	88.5		5		5	F2.00	24	()	
Flow	Flow .250		14.3	32.8	69.4		2		2		24	C)	
	_					FLOW ST	TREAM ATT	RIBUTES						
Coeffiect	Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psia		Press Extension ✓ P _m xh Grav Fac		Flowing Temperature Factor F _{t1}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m	
					(OPEN FL	OW) (DEL	IVERABILITY	/) CALCUL	ATIONS			(P _a) ² =	0.207	
P _c) ² =		_:_		<u> </u>	P _d =			P _c - 14.4) +		:		$(P_a)^2 = (P_d)^2 = $	U.EUI	
or	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		P _c) ² - (P _w) ²	Choose formula 1 of 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	1. P _c ² -P _a ² LOG of formula		Backpress Slope Pc-Pw Standar		l n x	LOG	Ant	tilog	Open Flow Deliverability Juals R x Antilog (Mcfd)	
							:							
Open Flor	w			Mcfd @ 1	4.65 psia		Deliveral	bility			Mcfd @	14.65 psia		
The t	undersi	igned	d authority, o	n behalf of th	e Company, s	states that	he is duly a	uthorized t	o make t	he above rep	ort and th	at he has k	nowledge of	
ie facts st	tated th	herei	n, and that sa	aid report is tr	ue and correc	t. Execute	ed this the 🖊	12,	day of	14/2			. , 20	
			Witness (i	f any)				N	un	For	Company	*	CC WIC	
			•											
			For Comm				-				ecked by		JUL 29 2	

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 Agnew 1-23
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: 2/12/13
Signature: My

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.

JUL 29 2013