KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			(See Instructi	ions on Reve	erse Side,)				
Ор	en Flow			Test Date				ADL	No. 15			- /
✓ Deliverabilty			July 25, 2014				API No. 15 15-199-20375 – DØOO					
Company Raven R		es, LLC	,			Lease Agnew				#2-13	Well Nu	mber
County Wallace	County	Locat SE/4 S		Section 13		TWP 11S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RNG (EA	V) .		Acres A	Attributed
Field				Reservoir Niobrara					ering Conne Gathering S	ection ystem (West I	, Kansas	Pipeline)
Completion 11/2008				Plug Back 1327'	k Total Dept	h .		Packer S	et at	, , , , , , , , , , , , , , , , , , , ,		
Casing S 4 1/2"	ize	Weig 10.5	ht -	Internal D	Diameter	Set at 1366		Perfor 1130		то 1166		
Tubing Si 2 3/8"	iz e	Weig 4.7	ht	Internal D	Diameter	Set at 1116		Perfor	ations .	To ·		
Type Con "Single		(Describe)		Type Flui Only G	d Production	1	•	Pump Un No	it or Traveling	Plunger? Yes	Nò) ,
	g Thru (Annulus / Tubir	19)	% C	arbon Dioxi	de		% Nitroge	en	Gas C	iravity - (و
Tubing	N = N = /1 1N		\		. Orea					(Mato)	· Dun\ (D	rover) Size
Vertical D	pepin(H)					sure Taps				.500		· · ·
Pressure	Buildup	Shut in		0 14 at 1		(PM)				14 at 11:10		(AM) (PM)
Well on L	ine:	Started Jul	y 23 ₂	0 <u>14</u> at <u>1</u>	1:10	(ÁM) (PM)	Taken Ju	ıly 25	20	14 _{at} , 11:10		AM (PM)
		• 1			OBSERVE	D SURFACE	DATA			Duration of Shu	t-in_50	4Hours
Static / Dynamic Property	Orific Size (inche	Prover Press		Flowing Temperature t	Well Head Temperature t	Casin Wellhead F (P _w) or (P _t	ressure	Wellhea	ubing ad Pressure (P _t) or (P _c)	Duration (Hours)		id Produced Barrels)
Shút-In	.2500	psig (Pm)	Inches H ₂ 0		90	psig 27	psia	psig 27	psia	504	0	
Flow	.2500	16.9	5.8		90	3		3		48	0	
					FLOW STR	REAM ATTRI	BUTES					
Plate Coeffied (F _b) (F	cient p)	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac	tor	Flowing Temperature Factor F ₁₁	Fa	iation octor	Metered Flov R (Mcfd)	v GOF (Cubic I Barre	eet/	Flowing Fluid Gravity G _m
							<u> </u>	· <u> </u>			·	
(P _c) ² =		.: (P _w) ²	=:	(OPEN FL		'ERABILITY) % (P	CALCUL + (14.4 -		:		$(a)^2 = 0.2$ $(a)^2 = 0.2$	207 .
(P _c) ² - (•	(P _c) ² - (P _w) ²	Choose formula 1 or: 1. P _c ² - P _s ² 2. P _c ² - P _d ² divided by: P _c ² - P _d	LOG of formula 1. or 2. and divide	P.2. P.2	Slop	sure Curve e = "n" or igned ird Slope	l n x i	.og	Antilog	De Equal	pen Flow liverability s R x Antilog (Mcfd)
		-					<u></u>					
Open Flo	ow ·		Mcfd @ 14	.65 psia		Deliverabi	lity			Mcfd @ 14.65 p	sia	
The	undersi	gned authority,	on behalf of the	Company,	states that h	ne is duly au			, , , , , , , , , , , , , , , , , , ,	ort and that he	has knov	vledge of
the facts s	stated th	erein, and that	said report is tru	e and correc			1	ay of S	eptember			20
***************************************				KANS	REC SAS CORPOR	CEIVED RATION COMM	AIS COME	n	NI	7	,	
		Witness	(if any)	•	0-5	2 9 2014			Fore	Company	•	
		For Con	nmission		SEP	LJ LUF			Che	cked by		

CONSERVATION DIVISION WICHITA, KS

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I declare under penalty of perjury under the	laws of the state of K	ansas that I am aut	horized to request
exempt status under Rule K.A.R. 82-3-304 on beha	alf of the operator Rav	ven Resources, LLC	
and that the foregoing pressure information and	statements contained	d on this application	form are true and
correct to the best of my knowledge and belief bas	sed upon available pro	oduction summaries	and lease records
of equipment installation and/or upon type of comp	oletion or upon use be	ing made of the gas v	well herein named.
I hereby request a one-year exemption from o	pen flow testing for the	e_Agnew #2-13	-
gas well on the grounds that said well:			
			•
(Check one)			
is a coalbed methane produce	r		
is cycled on plunger lift due to	water		•
is a source of natural gas for ir	njection into an oil res	ervoir undergoing El	R
is on vacuum at the present tin	ne; KCC approval Doc	ket 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 abi	lity any and all suppor	rting documents de	emed by Commission
staff as necessary to corroborate this claim for ex	xemption from testing	•	
Date: September 24, 2014		-	
	•		
	Λ	1	•
Signatu	ure: Mul		
т	itle: Managing Meml	ber, Raven Resourc	es, LLC
• • • • • • • • • • • • • • • • • • •			•
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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.

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