KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruct	tions on Re	verse Side) .	•		•
Op	en Flow	•	• •,	Test Date	··	•		API N	No. 15		
√ De	liverabil	ty		July 25,					99-20330 - (000	
Company Raven F		ces, LLC	,			Lease Westfiel	d			#1-31	Well Number
County Wallace	Count	Locatio y C NW/4	n	Section 31		TWP 11S		RNG (E/V 41W	V) (A	Acres Attributed
Field				Reservoir Niobrara					ering Conne Gathering Sy		ansas Pipeline)
Completion 8/2008	on Date			Plug Back	k Total Dept	th		Packer Se	et at		
Casing S 4 1/2"	ize ,	Weight 10.5		Internal C	Diameter	Set a		Perfora 879'	ations	то 928'	
Tubing S 2 3/8"	ize	Weight 4.7		Internal E	Diameter	Set 8		Perfora	ations	То	
Type Cor "Single	npletion Gas"	(Describe)		Type Flui Only G	d Production	n		Pump Unit	t or Traveling	Plunger? Yes	/(No)
		(Annulus (Tubing))		arbon Dioxi	ide	•	% Nitroge	n .	Gas Gra	avity - G _g
Vertical E	Depth(H)				Pres	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildup	: Shut in July	2 20	14 at 9	:20	(AM)(PM)	Taken_Ju	ly 23	20 .	14 _{at} 9:20	(AM) (PM)
Well on L	.ine:	Started July		14 at 9	:20	(AM) (PM)				14 _{at} 9:20	(AM) (PM)
					OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_504 Hours
Static / Dynamic Property	Orific Size (inche	Prover Pressur	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (F	Pressure	Wellhea (P _w) or (d Pressure	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.2500		0		90	psig 4	psia	psig 4	_ psia	504	0
Flow	.250	17.0	6.2		90	3		3		48	. 0
					FLOW STR	REAM ATTR	IBUTES		. :		
Plate Coeffied (F _b) (F	cient	Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fac F	, , .	Flowing Temperature Factor F ₁₁	Fa	iation ctor :	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/ Flowing Fluid Gravity G _m
		-]									
(P _c) ² =		_: (P _w)² =_		(OPEN FL	OW) (DELIV) CALCUL ² 14.4) +			(P _a) ² (P _d) ³	2 = 0.207
(P _c) ² - (•	(P _c) ² - (P _w) ²	hoose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² vided by: P _c ² - P _c ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpre Slo As	ssure Curve pe = "n" or signed ard Slope	n x LG	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Ĺ											
Open Flo	w		Mcfd @ 14.6	65 psia		Deliverat	oility		<u> </u>	//dcfd @ 14.65 psi	a
		gned authority, on erein, and that sai	•	and correc	t. Executed	this the 2	4	٦ _	e above repor	and that he ha	, 20 14
	,	Witness (if		•	SEP	2 9 20	14		For Co	ompany	
		For Commis	sion			-		,	Checi	ked by	, , , , , , , , , , , , , , , , , , ,

CONSERVATION DIVISION WICHITA, KS

	sclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC
	t 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the Westfield #1-31
	I 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
l fu	rther 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.
staff as	necessary to corroborate this claim for exemption from testing.
	necessary to corroborate this claim for exemption from testing. September 24, 2014
	September 24, 2014
	Signature:
	September 24, 2014
	Signature:

Instructions:

RECEIVED
KANSAS CORPORATION COMMISSION

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.

CONSERVATION DIVISION WICHITA, KS