## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				. (	See Instruct	tions on Rev	erse Side,	)		8			
Op	en Flo	w			Test Date	•			ΔDI	No. 15				
✓ Del	liverat	oilty			July 25,					199-20354 <del>-</del>	9000			
Company Raven R		rces	, LLC				Lease Westfield	Lease Westfield			Well Number #4-31			
County Wallace	Cour	nty	Locatio SW/4 S\		Section 31		TWP 11S	,	RNG (E/ 41W	W) .		Acres A	Attributed	
Field				•	Reservoir Niobrara					hering Conne Gathering S	ection System (West	Kansa	s Pipeline	
Completic 8/2008	on Da	te		,	Plug Back 1077'	k Total Dept	th		Packer S	Set at				
Casing Si 4 1/2"	ize		Weight 10.5		Internal D	)iameter	Set a 1092		Perfo 896'	rations	то 930'			
Tubing Si 2 3/8"	ize		Weight		Internal E	Diameter	Set á 912'		Perfo	rations	, То	·		
Type Con			escribe) ·	· ·	Type Fluid	d Production	n -		Pump Ur	nit or Traveling	Plunger? Yes	(No	)——	
			nulus / Tubing	•		arbon Dioxi	ide		% Nitrog	en	Gas G	ravity - (	G <sub>g</sub>	
Vertical D	epth(	H)			Pressure Taps					• .	(Meter .500	Run) (P	rover) Size	
Pressure	Buildi	 .p:	Shut in July	2 20	14 at 8	:50	(AM) (PM)	Taken_Ju	ly 23	20	14 at 8:50		(AM) (PM)	
Well on L			Started July	23 20			(AM)(PM)			20	14 at 8:50	(	(AM)(PM)	
						OBSERVE	D SURFACE	E DATA		-	Duration of Shut	-in_50	4 Hours	
Static / Orifice Dynamic Size		ze	Circle one: Meter Prover Pressur	Pressure Differential	Flowing Temperature	1 .	Wellhead	Casing Wellhead Pressure (P,) or (P,) or (P,)		fubing ad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	1 ' '	Liquid Produced (Barrels)	
Property	(incl	nes)	psig (Pm)	Inches H <sub>2</sub> 0.	· t	, t,	psig	psia	psig	psia	-			
Shut-In	.37	50	25.5	0		90	11		11		504	0		
Flow ·	.37	50	17.8	16.8		90	3	• .	3.		48	0		
•						FLOW STE	REAM ATTR	IBUTES			.,			
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension  P <sub>m</sub> x h	Grav Fac	tor	Flowing Temperature Factor F <sub>tt</sub>	Fa	iation ctor pv	Metered Flow R (Mcfd)	W GOR (Cubic Fo	eet/	Flowing Fluid Gravity G <sub>m</sub>	
			•		(OPEN FL	OW) (DELIV	/ERABILITY	CALCUL	ATIONS		(P <u>.</u>	$)^2 = 0.2$	207	
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =_	Choose formula 1 or 2:	P <sub>d</sub> =		% (F	<sup>2</sup> <sub>c</sub> - 14.4) +	14.4 =	<u> </u>	. (P <sub>d</sub>	) <sup>2</sup> =	<del></del>	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(1	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> P <sub>a</sub> <sup>2</sup> LOG of formula 2. P <sub>c</sub> <sup>2</sup> P <sub>d</sub> <sup>2</sup> 1. or 2.		Slope 		sure Curve e = "n" or igned rd Slope		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				•	,									
		<u> </u>	<u> </u>	1774						-				
Open Flo	w			Mcfd @ 14.	65 psia	-	Deliverab	ility		<del> </del>	Mcfd @ 14.65 ps	ia .	<del></del>	
The	under	signe	d authority, on	behalf of the	Company, s	states that h	ne is duly au	thorized to	o make th	ne aboye epo	ort and that he h	as knov	vledge of	
the facts s	stated	there	in, and that sa	id report is true	and correct KANSA	t. Executed RECI S CORPORA	Linis the 24 EIVED ATION COMM	4	day of	eptember ;	1	<u>.</u>	20 14 .	
	• •		Witness (if	any)	***************************************		9 2014	NOW		For	Company		· · ·	
			For Commi	ssion	C	ONSERVATI	ON DRUGG.			Che	cked by			
		•				WICHIT	IA, KS						•	

i deciate under penalty of perjury u	inder the laws of the state of	Kansas that I am	authorized to request
exempt status under Rule K.A.R. 82-3-30	04 on behalf of the operator $R$	aven Resources, l	LC
and that the foregoing pressure informa	ation and statements contain	ed on this applicat	ion form are true and
correct to the best of my knowledge and	l belief based upon available p	production summar	ies and lease records
of equipment installation and/or upon typ	oe of completion or upon use b	peing made of the g	as well herein named.
I hereby request a one-year exempti	ion from open flow testing for	the Westfield #4-3	31
gas well on the grounds that said well:			
(Check one)			
is a coalbed methane	e producer ,		
is cycled on plunger	lift due to water		•
is a source of natural	l gas for injection into an oil re	eservoir undergoing	g ER
is on vacuum at the p	oresent time; KCC approval D	ocket No	<del> </del>
is not capable of pro	ducing at a daily rate in exces	ss of 250 mcf/D	
	• · · · · · · · · · · · · · · · · · · ·		•
I further agree to supply to the best	of my ability any and all supp	porting documents	deemed by Commission
staff as necessary to corroborate this cl	laim for exemption from testir	ng.	•
•	· ·		
Date: 9/24/2014		•	:
		•	
4	_		
		1	
	Signature:		· X
	Signature.		

Instructions:

RECEIVED RECEIVED COMMISSION SEP 2 9 2014

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.