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

Type Tes	t:				(	See Instruct	tions on Re	verse Side	)						
Ot	en Flo	w			Test Date: API No. 15										
<b>√</b> De	liverat	oilty			9/27/2011 15-199-20363 .										
Company Raven F		rces	, LLC				Lease Westfie	ıld				#1-1	Vell Nur	nber	
County Wallace	Coun	ıty	, Locati NW/4 N		Section 01							Acres Attributed			
Field					Reservoi Niobrara			ering Conne gathering s		West Ka	ensas	Pipeline)			
Completion 8/2008	on Dat	te			Plug Back Total Depth Packer Set at 991.34'						<u>*</u>		<u> </u>		
Casing S 4 1/2"	ize		Weigh 10.5	t	Internal I	Internal Diameter Set at Perforations 1033.34' 830' - 863'						То			
Tubing Si	ize		Weigh	t .	Internal [	Diameter	Set 825	at	Perfora		То				
Type Con			escribe)			d Production		<del></del>	Pump Uni	t or Traveling	Plunger	? Yes	No	<del>)</del>	
CO2 Fr				<del></del>	Only G				No						
Tubing	•	•	nulus / Tubing		% C	arbon Dioxi	de		% Nitroge	n		Gas Gra	vity - G	•	
Vertical C 1040	epth(F	1)				Press	sure Taps					(Meter R .500"	un) (Pr	over) Size	
Pressure	Buildu	ip:	Shut in _9/26	3 2	0 11 at 9	am	(AM) (PM)	Taken_9/2	27	20	11 at	9 am	(AM)(PM)		
Well on L	ine:		Started 9/27	<u>,                                    </u>	0 11 at 9	1 at 9 am (AM) (PM) Taken 9/28 20							$\checkmark$	M)(PM)	
						OBSERVE	D SURFAC	E DATA	,		Duration	of Shut-i	24	Hours	
Static / Orifice Orifice Orifice Oynamic Size Property (inches) Circle one: Meter Prover Pressure psig (Pm)			Pressure Differential re in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P <sub>w</sub> ) or (F	P <sub>1</sub> ) or (P <sub>a</sub> )	Tubing Wellhead Pressure $(P_w) \propto (P_1) \propto (P_0)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In	.500	)	16	0			psig 8	pšia.	8 8	psia	24	24 0		-	
Flow	.500	)	16.4	3			5			5			0		
<u> </u>			1		<u> </u>	FLOW STR	EAM ATTR	IBUTES	<del></del>				<del></del> -		
Coefficcient Meter		Circle one: Meter or ver Pressure psia	Press Extension	Grav Fact F <sub>c</sub>	tor T	Flowing Temperature Factor F <sub>ft</sub>		eviation Metered F Factor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Fee RECETV		<sub>v</sub> ED	Flowing Fluid Gravity G <sub>m</sub>		
												NOV 9 4 2011			
	•				(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		'NU	/D.\2	<u> Zum</u>		
(P <sub>e</sub> ) <sup>2</sup> =		_:	(P <sub>*</sub> )² ≈	_ ;	$P_d =$			, - 14.4) +		:	KCC	) WHP	= 0.20 HIT/	Á	
$(P_a)^2 - (P_a)^2$ $(P_a)^2 - (P_w)^2$ or $(P_a)^2 - (P_a)^2$			Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> itvided by: P <sub>d</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P.2. P.2	Backpressure Curve Slope = "n" Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R × Antilog (Mcfd)			
				, , <u>, , , , , , , , , , , , , , , , , </u>									_		
				<del></del>									·		
Open Flor				Mcfd @ 14.	•		Deliverab	•				14.65 psia			
			n, and that sa	behalf of the				uthorized to	hake the			at he has		edge of	
			Witness (if	esr(y)					-	- C Forc	отралу				
			For Commi	ssion			-		•	Chec	ked by	<del></del>			

I declare under penalty of perjury under the laws of the state of Kansas that I am a exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, L	•
and that the foregoing pressure information and statements contained on this applicati	
correct to the best of my knowledge and belief based upon available production summari	ies and lease records
of equipment installation and/or upon type of completion or upon use being made of the ga	as well herein named.
I hereby request a one-year exemption from open flow testing for the Westfield 1-1	
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	ı 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 of	deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.	, , , , , , , , , , , , , , , , , , , ,
	RECEIVED
Date:	
	NOV 1 4 2011
	KCC WICHITA
Signature:	

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.

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

Type Tes	st:				(	(See Instruc	tions on Rev	erse Side	)						
<u></u> □ 0	pen Flo	w			Test Date	a·			ADI N	lo. 15					
<b>√</b> De	elivera	bilty			9/27/20					99-20363					
Compan Raven f		ırces	, LLC				Lease Westfield	1				#1-1	Well Nu	mber	
County Wallace	Cour	nty	Locat NW/4 I		Section 01					RNG (E/W) 42W			Acres A	attributed	
Field					Reservol Niobrari		Gas Gathering Connection Closed gathering system (West Kansas Pipeline								
Completi 8/2008	on Da	te			Plug Bac 991.34'	k Total Dept	th		Packer Se	t at					
Casing S 4 1/2"	Size		Weigh 10.5	nt	internal (	Diameter	Set at 1033		Perfora 830'			То			
Tubing S 2 3/8"	lze		Weigh 4.7	ıt	Internal [	Diameter	Set at 825'		Perfora	tions		То			
Type Cor CO2 Fr		n (D	escribe)		Type Flui	d Production	n		Pump Unit	or Traveling	Plun	iger? Yes	/ No		
Producin Tubing	g Thru	(Ал	nulus / Tubin	g)	% C	Carbon Dioxi	de		% Nitroge	n		Gas Gr	avity - (	ì,	
Vertical (	Depth(	H)	··· •			Pres	sure Taps					(Meter I	Run) (Pi	over) Size	
Pressure	Builda	1 <b>p</b> :	Shut in 9/2	6 2	11 at 9	am	(AM) (PM)	Taken_9/	27	20	11 9 am			AM) (PM)	
Well on L	ine:		Started 9/2	72	0 11 at 9	am	(AM) (PM)	Taken <u>9/</u>	28	20	<u>11</u>	at 9 am	(	AM) (PM)	
	,			,		OBSERVE	D SURFACE	DATA			Dura	ition of Shut-	in_24	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Pressure Meter Prover Pressure psig (Pm) Inches H <sub>a</sub>		Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) psig psia		bing I Pressure P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)		Liquid Produced (Barrels)		
Shut-in	.500	)	16	0			8	pera	psig 8	para	24		0		
Flow	.500	)	16.4	3			5		5		24		0	·	
			· <u>-</u>			FLOW STR	EAM ATTRI	BUTES							
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or ever Pressure psla	Press Extension P <sub>m</sub> x h	Grav Fact F <sub>q</sub>	tor T	Temperature Fai		viation RECEIVE		ED (Cub		GOR Folk Feet/ arrel)		
								<u> </u>	140	U 4 201	1				
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL - 14.4) +	<b>KG</b> C V	VICHIT	Ά	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.2	07	
(P <sub>e</sub> ) <sup>2</sup> - (I	-	(F	P <sub>a</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formule 1 or 2  1. P <sub>e</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1, or 2. and divide	P <sub>0</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup>	Backpress Slope Assi	sure Curve = "n"	n x LC	og [		Antilog	Op Deli Equals	en Flow verability R x Antilog Mcfd)	
Open Flo					65 peia		Dellyambii	itu.			A4ofa	@ 14 GE			
•					<u> </u>		Deliverabil	•		·		@ 14.65 psi		<u>.</u>	
				n behalf of the				7	make the	above repo	rt and	d that he ha	s knowi , 2	edge of	
			Witness (i	t any)						For C	ompan	у	-		
			For Comm	ission			_	-		Chec	ked by				

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to require	est							
	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 a								
	to the best of my knowledge and belief based upon available production summaries and lease reco								
of equipment 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 1-1	_							
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 furt	ther agree to supply to the best of my ability any and all supporting documents deemed by Commi	ssic							
staff as r	necessary to corroborate this claim for exemption from testing.								
	10/25/11  RECEIVED  ROV 04 2011  KCC WICHITA								
Date:	10/25/11								
	10 04 20								
	KCC Inva <011								
	CHITA								
	Signature: And State Sta	_							
	Title: Me man lus								
	THO	_							

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.

TO:14057737488

Form G-2 (Hev. 7/03)

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

Type Test	:					(	See Instru	uctio	ns on Reve	erse Side	9)					
	en Flow					Tost Date	1:				API	No. 15				
De	iverabili	ty				9/27/1										
Company						• •			Lease	1.6				Well N		
County			Locat	on	<del></del>	Section		···	Jest Fie TWP	:14	RNG (E/	W)	····		Attributed	
		<i>-</i>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~													
Fleid						Reservoir					Gas Gath	nering Conne	CIION			
Completic	n Date			-		Plug Bac	k Total Do	pth	<del></del>		Packer S	et at				
Casing Si	Ze		Weigh	ıt		Internal C	Diameter		Set at		Perlo	rations	То			
Tubing Si	<b>Z</b> 0	·	Weigh	it		Internal C	Diameter		Set at		Perlo	retions	То	То		
ype Con	pletion	(De:	scribe)		<del></del>	Type Flui	d Product	ion			Pump Un	it or Traveling	Plunger? Yes	/ No		
roducing	Thru (	Ann	ulus / Tubin	g)		% C	arbon Dic	oxide	-	<del></del>	% Nitrog	en	Gas G	ravity -	G <sub>g</sub>	
							Chiminel was proper on								- \ 0	
ertical D	opth(H)						Pn	956L	ıre Taps				(Meter	Run) (I	Prover) Size	
ressure Vell on L															(AM) (PM) (AM) (PM)	
<del></del>	<del></del>				<del></del>		anerm		PUDEAGE	DATA		<del></del>	Duration of Shu	. <u>.</u> 2	4 Hour	
Static / Dynamic	mio Sizo Maiar Diliterential				Flowing Temperature	emograture Temperature Weineau Pressure			uezeme iû	Weilher	ubling ad Pressure (P <sub>1</sub> ) or (P <sub>2</sub> )	Ouration				
Property	(Inche:	s)	Prover Press paig (Pm)		inches H <sub>2</sub> 0	t		_	(P <sub>w</sub> ) or (P <sub>r</sub> ) parg	psia	ps:g	psta .				
Shut-In								-	8		8		હે 4		0	
Flow				$\neg$				T	9		5		24	0		
							FLOW S	TRE	AM ATTRI	BUTES						
Plato Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mold		Circle one Mater or Prover Pressure pala		Press Extension	Gravity Factor F.			Flowing Deviate Factor F <sub>pv</sub>		actor	Metered Flow R (Mcfd)	GOR (Cubic Foet/ Barrel)		Flowing Fluid Gravity ACCE		
								•						A	Value	
				<u>'</u>		(OPEN FL	OW) (DEL	IVE	RABILITY)	CALCUL	ATIONS		/P	43ec. 0	207 04	
()2 =			(P <sub>w</sub> )*=		:	P <sub>a</sub> =		_%	(Pa	- 14.4) +	14.4 =	<b></b>	(P	Jec C	Jan-	
(P <sub>a</sub> ) <sup>2</sup> · (P <sub>a</sub> ) <sup>2</sup> or (P <sub>a</sub> ) <sup>2</sup> · (P <sub>a</sub> ) <sup>2</sup>		(P <sub>a</sub> )*- (P <sub>a</sub> )*		Choose formula 1 or 2:  1. Pa-Pa  2. Pa-Pa  chidded by Pa-Pa		LOG of formute 1. or 2. and divide	P.*. p.*		Backpressure Curve Slope = "n" 		n × LOG		Antilog	0.0	Open Flow eliverability us Fl x Antilog (McId)	
pen Flo	_				Mcfd @ 14.	65 psia			Deliverabil	itv	<u> </u>	<u></u>	Acfd @ 14.65 p	sla		
		nod	authority o				statue that	h ha			in maka th	n above repor	t and that he h	as kno	wiedge of	
					enair of the report is true								- and that he r		, 20	
		· · · ·	Witness (	il en	0			-	_			For Co	отралу	·		
<del></del>			For Comm	n Lawrence	n		<del></del> -		_			Check	ed by			
													-			

Form G-2 (Rev. 7/03)

exempt state and that the correct to the of equipme thereb	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Rever Resources IIC e foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ant installation and/or upon type of completion or upon use being made of the gas well herein named. By request a one-year exemption from open flow testing for the Lice The law I-I
	(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 or 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 furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as ned	cessary to corroborate this claim for exemption from testing.
Date:9	127/11
	Signature:

Instructions:

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