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

Type Test	t:				t	See Instruc	tions on Re	verse Side	)						
	en Flo	w													
<b>√</b> De	liverat	oilty				Test Date: API No. 15 9/27/2011 15-199-20356 - ()()()									
Company Raven F		rces	, LLC		-		Lease Lutters				#1-25	Well Nu	nber		
County Wallace	Coun	ity	Location SW/4 S	-	Section 25					W)	,	Acres Attributed			
Field										nering Conne gathering sy	ction /stem (West K	ansas	Pipeline)		
Completic 8/2008	on Dai	te			Plug Bac 1162.84	k Total Dep	th		Packer Set at						
Casing S 4 1/2"	ize		Weigh	l	Internal [	Diameter	Set :	at 6.84'		ations - 998'	То				
Tubing Si	iz <del>e</del>	····	Weigh 4.7	ì	internal [	Diameter	Set /	at -		ations	То	То			
Type Con			escribe)		Type Flui Only G	d Production		.10	Pump Un	it or Traveling	Plunger? Yes	(No	)		
Producing			nulus / Tubing	)	<u>-</u>	arbon Dioxi	de		% Nitroge	en .	Gas Gr	avity - G			
Tubing Vertical D	)enth/i	-1/	<del></del>			Drac	sure Taps				(héotor l	Dun\ /Dr	over) Size		
1230'	<b>Jopan</b>										.500"	יים (דוי	JV61) 3126		
Pressure	Buildu		Shut in9/26		0 11 at 9		(AM) (PM)				11 <sub>at</sub> 9 am	_(	(PM)		
Well on L	ine:		Started 9/27	<u> </u>	o <u>11</u> at <u>9</u>	am	(AM) (PM)	Taken 9/2	28	20 .	11 <sub>at</sub> 9 am	<u> </u>	(PM)		
						OBSERVE	D SURFAC	E DATA	,		Duration of Shut-	<sub>in_</sub> 24	Hours		
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu		Flowing Well Head Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>o</sub> )		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)			
Shut-In			psig (Pm) 15.2	Inches H <sub>2</sub> 0			psig 8	psia	psig 8	psia	24	0			
Flow	.500		15.9	4			5		5	<del>                                     </del>	24	0			
	<u> </u>		<del></del>			FLOW STR	EAM ATTR	IBUTES		. 1	<b>D</b>	<u> </u>			
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	MOTOLOL Cutanalan I		Grav Fact	tor Temperature		Fac	eviation Metered Flow Factor R F <sub>py</sub> (Mcfd)		RECEIV GOR NOV Blirrel)		Flowing Fluid Gravity G		
	Ī									KCC WICHITA					
					(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		(P <sub>•</sub> )	2 = 0.20	7		
(P <sub>c</sub> ) <sup>2</sup> =		<u>_:</u> _	(P <sub>w</sub> ) <sup>2</sup> =_	:::	P <sub>d</sub> =		% (F	· 14.4) +	14.4 =	<del></del> :	(P <sub>d</sub> )	<u>-</u>			
(P <sub>o</sub> ) <sup>2</sup> · (P <sub>a</sub> ) <sup>2</sup> or (P <sub>o</sub> ) <sup>2</sup> · (P <sub>d</sub> ) <sup>2</sup>		(P	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> (P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> (P <sub>e</sub> ) <sup>2</sup> - P <sub>e</sub> <sup>2</sup> (divided by: P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1, or 2,	tormuta 1. or 2.  and divide   p.2. p.2		Backpressure Curve Slope = "n"or Assigned Standard Slope		og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)			
Open Flov				Mcfd @ 14.	65 ncia		Deliverab	ilibu			1cfd @ 14.65 psi				
			l authority an						Lake		· · ·				
				behalf of the				- √N [	day of	above report	and that he ha		edge of		
			Witness (if	eny)			_	70	<del></del>	For Co	mpaliy	··· · <u>·</u>			
			For Commi	ssion			-			Check	ed by				

I declare un	der nenalty of nerium under the	e laws of the state of Kansas that I a	m authorized to request
	, , , , , ,	half of the operator Raven Resources	·
		d statements contained on this applic	
		ased upon available production summ	
of equipment ins	tallation and/or upon type of con	npletion or upon use being made of the	gas well herein named.
I hereby req	uest a one-year exemption from	open flow testing for the Lutters 1-25	5
gas well on the g	grounds that said well:		
(Ched	is a coalbed methane production is a coalbed methane production is cycled on plunger lift due to its a source of natural gas for		ing ER
	is on vacuum at the present ti	ime; KCC approval Docket No.	
<u></u>	is not capable of producing a	at a daily rate in excess of 250 mcf/D	
_	ee to supply to the best of my at try to corroborate this claim for e	bility any and all supporting document exemption from testing.	ts deemed by Commission
Date: 11/10	/,,		RECEIVE
77	<del></del>		NOV 1 4 20
			14 ZU
		$\sim A$	KCC WICHI
	Signa	ture: Dul	<u></u>
	-	Title: Managing Member	

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 Test	t:				(	See Instruc	tions on Re	verse Side	)						
	en Flo	w			Teet Date				ADI	N. 45					
<b>√</b> De	liverab	ilty				Test Date: API No. 15 9/27/2011 15-199-20356									
Company Raven R		ces	, LLC				Lease Lutters			·		#1-25	Well Nu	mber	
County Location Wallace County SW/4 SW/4							TWP 11S	RNG (E/ 42W		Acres Attributed					
Fleld					Reservoi Niobrara			Gas Gathering Connection Closed gathering system (West Kansas Pipeline)							
Completio 8/2008	on Dat	8			Plug Bac 1162.84	k Total Dep	Packer S	et at		•	۸۵۰				
Casing Si 4 1/2"	ize	-	Weigh 10.5		Internal [	Diameter		ations - 998'	To NOV 14 2011						
Tubing Si 2 3/8"	Ζθ		Weigh 4.7	1	Internal (	Diameter	Set a 971.		Perfor	ations		PCC	CC 1 200		
Type Con CO2 Fr		n (De	escribe)		Type Flui	d Production	n	•	Pump Un	it or Traveling	Plunger	? Yes	MCX		
Producing Tubing	) Thru	(Anr	nulus / Tubinç	)	% C	Carbon Dioxi	ide		% Nitroge	en .		Gas Gr	avity - G	1/4	
Vertical D 1230'	epth(H					Pres	sure Taps		· · · · · · · · · · · · · · · · · · ·			(Meter f	Run) (Pr	over) Size	
Pressure	Buildu	p: :	Shut in9/20	5 2						20			(	AM) (PM)	
Well on L	ine:	;	Started 9/27	2	0 11 at 9	am	28	20	9 am	n(AM) (PM)					
			I	T _		OBSERVE	D SURFACI				Duration	n of Shut-	in_24	Hours	
Static / Oynamic Property	Dynamic Size		Prover Pressure   In		Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_a)$ psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>e</sub> ) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	.500	15.2		0					8		24	24			
Flow	.500		15.9	4	<u></u>			5		5		24			
						FLOW STR	REAM ATTR	IBUTES							
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension	Fac	Gravity Te Factor Te F <sub>g</sub>		Fac	ation ctor	Metered Flow R (Mcfd)	w GOR (Cubic Fee Barrel)		et/	Flowing Fluid Gravity G <sub>m</sub>	
·															
	*				-		ERABILITY						2 = 0.20	)7	
(P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u>	(P <sub>w</sub> )² =	<u> </u>	P <sub>d</sub> =	<u>_</u>	% (F	<sup>2</sup> <sub>c</sub> - 14.4) +	14.4 =	<del></del> :		(P <sub>a</sub> );	· =	<del></del> -	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_d)^2$		(P <sub>a</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>a</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> stylded by: P <sub>a</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	1. p2. p2 LOG of formuta 1. or 2. 2. p2. p2 and divide p2. p2		Backpressure Curve Slope = "n" or Assigned Standard Slope		nxL	n x LOG		Antilog		Open Flow Oeliverability Equals R x Antilog (Mcfd)	
					by:	<u> </u>									
											•	·			
Open Flor	N			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @	14.65 psi	a		
		•	•	behalf of the	• •		•	athorized to		above repo			s knowl	edge of 0 <u>/ /</u> .	
			Witness (if	any)			~			For	Company				
			For Comm	ssion		· · · · · · · · ·	_			Chec	ked by				

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request or Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC
	egoing pressure information and statements contained on this application form are true and
correct to the be	st of my knowledge and belief based upon available production summaries and lease records
of equipment ins	tallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby req	uest a one-year exemption from open flow testing for the Lutters 1-25
gas well on the (	grounds that said well:
(Ched	sk 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
$\checkmark$	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agr	ee to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessa	rry to corroborate this claim for exemption from testing.
	NECEN .
Date: <u>/0/</u> 2	NOV DED
<u> </u>	KCC 1 2011
	WICHIA .
	Try to corroborate this claim for exemption from testing.  ADV 04 2011  KCC WICHITA
	$\Lambda$
	Signature:
	Signature: Werk Det.  Title: Mg, Menelser
	v

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 (Rev. 7/03)

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

Type Test:	:				6	See Instri	uction	s on Re	verse Sid	9)					
∐ Ор	en Flov	٧									N= 4#				
Del	llverabi	lty			Test Date					API	No. 15				
Company			-		9-27	- 11		Lease					W	Vell Nur	mber
Company								vHer					1	-25	•
County Location				Section TWP					RNG (E/W)				Acres Attributed		
Field					Reservoir					Gas Gat	thering Conn	ection			
Completic	on Date	•		<u> </u>	Plug Bac	k Total De	epth			Packer S	Set et			No	CEI
Casing Size Weight			Internal Diameter			Set at		Perfo	rations	·	To FC	_ <del></del>	043		
Tubing Size Weight			Internal C	Internal Diameter Set at			al	Perforations			To	W	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Typo Com	pletion	(De	escribe)		Type Flui	d Product	tion			Pump U	nit or Traveling	Plunger?	Yes /	No	RECEIVE OF 201
Producing	Thru	(Anr	nulus / Tubing)	·	% C	arbon Di	oxido			% Nitrog	gen .		Gas Gra		
Vertical D	epth(H	)				Pr	ressur	re Taps					(Meter R	un) (Pr	over) Size
Pressure Well on L			Shut in 9 -			9100	(A		Taken			11 at	<u>9 !00</u>	(	
Static / Oynamic Property	Crifice Gizo Mater Differential (inches) Pressure paig (Pm) Inches H,0		Differential	Flowing Well Head Temperature			Cas Wollhoad (P <sub>w</sub> ) or (F	ing Pressure	Wellho	Tubing had Pressure or (P, ) or (Pe)	Durat	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In				1				8		8	7==	24		0	
Flow								5		5		24		0	
						FLOW S	TREA	AM ATTE	BUTES						
Plate Coefficcient (F <sub>s</sub> ) (F <sub>s</sub> ) Motd		Pro	Cinde one. Meter or Iver Pressure psia	Pross Extension Pxh	Grav Fact F	tor	Tem	emporaturo Fai		tation Metered Flow actor R = (Mcfd)		N GOR (Cubic Fee Barrel)		ωυ 	Flowing Fluid Gravity G <sub>m</sub>
	1				(OPEN FL	OW) (DEL	LIVER	RABILITY	) CALCU	LATIONS			(P_)2	<b>= 0.2</b> (	<u> </u>
(P <sub>a</sub> )* =		_:	(P_) =	:	Pa=		%	(1	P <sub>e</sub> - 14.4) -	+ 14.4 =	:		(P <sub>d</sub> )2		
(P <sub>q</sub> ) <sup>2</sup> -(P <sub>q</sub> ) <sup>2</sup> (P <sub>q</sub> ) <sup>2</sup> -(P <sub>g</sub> ) <sup>2</sup>		(P <sub>e</sub> ) <sup>2</sup> - (P <sub>e</sub> ) <sup>2</sup> Choose form 1, P <sub>e</sub> <sup>2</sup> 2, P <sub>e</sub> <sup>2</sup>		1, P <sub>0</sub> <sup>2</sup> -P <sub>2</sub> <sup>2</sup> 2, P <sub>2</sub> <sup>2</sup> -P <sub>2</sub> <sup>2</sup> Midded by: P <sub>0</sub> <sup>2</sup> -P <sub>0</sub>	LOG of formula 1. or 2. and divide pape			Backpressure Curve Slope = "n" 		n x LOG		Antik	>g	Del: Equals	en Flow verability Fl x Antilog Mc(d)
<del>,</del>						<del></del>	+	<del></del>	<del></del>						
Open Flo	w		· · · · · · · · · · · · · · · · · · ·	Mcfd @ 14.	.65 psia			Daliverat	allity			Mcfd @ 14	4.65 psia	1	
			d authority, on								he above repo	ort and tha	t he has	s knowl	
			Witness (if	eny)				•			For	Company		<del>,,,,</del>	
			For Cornera					-			Che	cked by			

TO: 14057737488

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 Ravene 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 LuHers 1-25 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. RECEIVED

NOV 0 4 2011

KCC WICHITA Date: 9/28 Signature:

Instructions:

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