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

Type Tes	t:				(	See Instruct	tions on Rev	erse Side	)				
Op	en Flo	w			Test Date	<b>.</b> .			A ED I	No. 15	- ¬		
<b>√</b> De	liverab	ilty			9/27/20				15-	199-20357	- <i>0</i> 000		
Company Raven F		rces	, LLC				Lease Lutters				#2-25	Well Numb	er
County Wallace	Coun	ty	Locati NE/4 N		Section 25	_	TWP 11S		RNG (E/ 42W	W)		Acres Attri	buted
Field					Reservoir Niobrara					hering Conn gathering s	ection system (West K	(ansas Pi	peline)
Completion 8/2008	on Dat	ө			Plug Bac 1158'	k Total Dept	h		Packer S	Set at	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<del></del>
Casing S 4 1/2*	ize		Weigh 10.5	t	Internal [	Diameter	Set a 1194			rations 8' - 1044'	То		
Tubing S 2 3/8"	ize		Weigh 4.7	t	Internal (	Diameter	Set a	t	Perfo	rations	То		
Type Corr CO2 Fr					Type Flui Only G	d Production	1		Pump Ur No	nit or Traveling	Plunger? Yes	(W)	
Producing			nulus / Tubing	))		arbon Dioxi	de		% Nitrog	en	Gas Gr	avity - G	
Tubing Vertical D	)epth/F	<del></del>			<del>.</del>	Pres	sure Taps	· ·			(Meter	Run) (Prove	er) Size
1230'		-7									.500		or, Gizo
Pressure	Buildu	Ε.	Shut in 9/20		o 11 at 9		РМ)				11 <sub>at</sub> 9 am		(PM)
Well on L	ine:		Started 9/27	2	0 11 at 9	am (	(AM) (PM)	Taken 9/	28	20	11 <sub>at</sub> 9 am	<b>&amp;</b>	(PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24	Hours
Static / Dynamic Property	Orlfl Siz (Inch	0	Circle one: Meter Prover Pressu		Flowing Temperature t	Well Head Temperature t	Casi Wellhead F (P, ) or (P,	Pressure	Wallha	Nubing ad Pressure r (P <sub>1</sub> ) or (P <sub>2</sub> )	Duration (Hours)	Liquid Pr (Barr	
Shut-In	.500	_	psig (Pm) 14.9	O Inches H <sub>2</sub> O			paig 8	psia	psig 8	psia	24	0	
Flow	.500	)	15.6	3			5		5		24	0	
						FLOW STR	EAM ATTRI	BUTES				1	
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fact F <sub>c</sub>	tor T	Flowing emperature Factor F <sub>ft</sub>	Fa	ation ctor pv	(Mcfd)	GOR EIVE(cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>
				<u> </u>								. <b>-</b>	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	<u> </u>	(OPEN FL		ERABILITY) % (P.	CALCUL + ( 14.4		- NGC V :	VICHITA <sub>P.)</sub>		
(P <sub>o</sub> ) <sup>2</sup> - (I or (P <sub>o</sub> ) <sup>2</sup> - (I	•	(P	<sub>a</sub> )² - (P <sub>w</sub> )²	Choose formula 1 or 2.  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> divided by: P <sub>a</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>	Backpres Stop	sure Curve e = "n" or igned rd Slope	nxl	LOG	Antilog	Open Deliver Equals R (Mc	ability x Antilog
	_											<u> </u>	
Open Flo	<u> </u>			Mcfd @ 14.	65 psia		Deliverabil	lity		<u>_</u>	Mcfd @ 14.65 ps	<u> </u> ia	
The t	undersi			behalf of the	Company, s		e is duly aut	thorized	make the	e above repo	rt and that he ha		11
			For Commi	ssion	<del></del>		_			Chec	ked by		

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 Raven 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 Lutters 2-25  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 1 4 2011  Signature: 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

			ONE !	POINT ST	<b>TABILIZE</b>	D OPE	N FLOW	OR D	ELIVE	RABILIT	Y TEST	NOW OF ST
Type Test:					(5	See Instructi	ons on Reve	erse Side)	)		KC	n. " 201
□ Оре	en Flov	٧			Test Date:				ΔPI N	lo. 15	9	Win, "
<b>√</b> Del	iverabi	lty			Test Date: 9/27/201					99-20357		C W/CH/TA
Company Raven R	esour	ces,	LLC				Lease Lutters				#2-25	/eil Number
County Wallace	Count	v	Location NE/4 N		Section 25		TWP 11S		ANG (E/V 42W	<b>/</b> )	A	cres Attributed
Field	<u> </u>	•			Reservoir Niobrara	,				ering Conne	ection ystem (West Ka	nsas Pipeline)
Completic	n Date	•				Total Depti	h		Packer Se			
Casing Size 4 1/2"			Weight 10.5		Internal Diameter		Set at 1194.59'		Perforations 1018' - 1044'		То	
Tubing Si 2 3/8"	zθ		Weight		Internal D	iameter	Set at		Perfora	ations	То	
Type Com		ı (De	escribe)		Type Fluid	Production	1		Pump Uni	t or Traveling	Plunger? Yes /	No
	Thru	(Anr	nulus / Tubing	)	% C	arbon Dioxid	de		% Nitroge	n	Gas Gra	vity - G <sub>g</sub>
Tubing Vertical D 1230'	epth(H	i)				Press	sure Taps				(Meter R .500	un) (Prover) Size
	D:1.d.		Shut in 9/26		, 11 , 9	am	(AM) (PM)	Taken 9/	27		11 <sub>at</sub> 9 am	(AM) (PM)
Pressure Well on L		p: ;	Started 9/27		0 11 at 9		(AM) (PM)				11 <sub>at</sub> 9 am	(AM) (PM)
	<u> </u>				<del></del>	OBSERVE	D SURFACE	DATA			Duration of Shut-i	24 Hours
	<u>.</u> .		Circle one:	Pressure			Casi		Ti	bing	Dalation of Chars	
Static / Dynamic Property	Orifi Siz (inch	0	Meter Prover Pressu	Differential in	Flowing Temperature t	Well Head Temperature t	Wellhead I	) or (P <sub>c</sub> )	(P <sub>w</sub> ) or	d Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)
			psig (Pm)	Inches H <sub>2</sub> 0		<u></u>	psig	psia	psig 8	psia	24	0
Shut-In	.500		14.9	3			5		5		24	0
Flow	.500		15.6	3	<u> </u>	FLOW STR	EAM ATTRI	BUTES				<u>                                     </u>
			Circle one:	_		12011-0111	Flowing		- T			Flowing
Plate Coeffied (F <sub>b</sub> ) (F Mcfd	ient ,)	Pro	Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fac	tor	Temperature Factor F <sub>tt</sub>	Fa	riation actor F <sub>pv</sub>	Metered Flor R (Mcfd)	W GOR (Cubic Fer Barrel)	Fluid Gravity G <sub>m</sub>
ļ												
			<b></b>				ERABILITY				(P <sub>a</sub> ) <sup>2</sup> (P <sub>a</sub> ) <sup>2</sup>	2 = 0.207 2 =
(P <sub>c</sub> ) <sup>2</sup> =		_:_	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or	P <sub>d</sub> =		1	1	+ 14.4 =		\ a	
(P <sub>c</sub> ) <sup>2</sup> - ( or (P <sub>c</sub> ) <sup>2</sup> - (	P <sub>a</sub> ) <sup>2</sup>	(1	P <sub>c</sub> )²- (P <sub>w</sub> )²	1. $P_c^2 \cdot P_e^2$ 2. $P_c^2 \cdot P_d^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slop	ssure Curve be = "n" or signed ard Slope	n x I	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				divided by: Pc2 - P	2 by:		Stand	aru Siope	_	<del>_</del>		
				<u>.                                    </u>								
Open Flo	)W			Mcfd @ 14	1.65 psia		Deliverab	ility	_		Mcfd @ 14.65 psi	a
		_		n behalf of the				athorized		OC+		s knowledge of , 20 // .
			Witness	(if any)			_				Climpany	
			For Com	nission			_			Che	ecked by	

Signature: Aug. num	RECEIVED NOV 0 4 2011 KCC WICHITA
I further agree to supply to the best of my ability any and all supporting doctaff as necessary to corroborate this claim for exemption from testing.	
is not capable of producing at a daily rate in excess of 250 i	ncf/D
is on vacuum at the present time; KCC approval Docket No.	
is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir ur	ndergoing FR
is a coalbed methane producer	
(Check one)	
as well on the grounds that said well:	
I hereby request a one-year exemption from open flow testing for the <u>Lutte</u>	rs 2-25
f equipment installation and/or upon type of completion or upon use being mad	•
orrect to the best of my knowledge and belief based upon available production	summaries and lease records
nd that the foregoing pressure information and statements contained on this	
I declare under penalty of perjury under the laws of the state of Kansas t exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Res	•

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	:				l	See Instruc	tions on Rev	rerse Sida	)				
	en Flow				Test Date	n:			API	No. 15			
Da	liverabil	ty				1-27							
Company	,						Lease					Well Number 2 - 2 5	*
County			Locatio	n	Section	b	u Hers TWP		RNG (E/	W)		Acres Attribu	uted
			20020	•									
Field					Reservoir	,			Gas Gat	hering Conne	ction		
Completic	n Date				Plug Bac	k Total Dep	1h		Packer S	iet et		R	[CE]
Casing S	Ze		Weight		Internal I	Diameter	Set a	it	Perfo	rations	To	NON	0 6
Tubing Si	Ze		Weight		Internal C	lameter	Set e	it	Perfo	rations	To 1	CCM	
Type Con	noitelqn	(De	scribe)		Type Flui	d Productio	n		Pump Ur	nit or Traveling	Plunger? Yes	NOV OF NOV	11/
Producing	Thru	(Ann	ulus / Tubing)		% C	arbon Diox	lde		% Nitrog	en	Gas Gr	avity - G	
Vertical D	epth(H)				<del></del>	Pres	sure Taps	··-·			(Meter	Run) (Prover)	) Size
Pressure	Buildup	: 5	Shut In <u>9</u> /2	<b>6</b> 2	0. <u>//</u> at_9	100	(AM) (PM)	Teken	9/27	20	11 at 9!01	<u>2(AM)</u> (	 (PM)
Well on L		9	itarted 9/3	<u> </u>	2_te _4_	100	(AM) (PM)	Taken	7/2K_	20	11 at 41:00	(AM)	(PM)
				•		OBSERVE	D SURFACI	DATA	<b></b>		Duration of Shut-	n_24_	_Hours
Static / Dynamic Property	Orific Size (inche		Circle one. Motor Prover Pressur psig (Pm)	Pressure Differential in Inches H.0	Flowing Temperature I	Well Head Temperature t	(P <sub>2</sub> ) or (P	Pressure ,) or (P <sub>e</sub> )	Wallha (P <sub>w</sub> ) or	Nubing ad Pressure (P <sub>t</sub> ) $\propto$ (P <sub>o</sub> )	Duration (Hours)	Liquid Prod (Barrets	
Shut-In	•	+	holf (Liti)	maios ri <sub>s</sub> o			95 psig_	psia	Palo	elaq	24	0	
Flow							5		5		24	0	
				<del>-1</del>		FLOW STE	REAM ATTR	IBUTES	^				
Plate Coeffice (F <sub>b</sub> ) (F Mote	ent )	1	Circle one: Meter or rer Pressure psia	Press Extension	Grav Fac F	tor	Flowing Temperature Factor F <sub>H</sub>	Fo	lation leter	Metered Flow R (McId)	GOR (Cubic Fo Barrel)	eet/ Gr	owing Fluid ravity G <sub>m</sub>
					(ODEN EL	OMO (DEL D	/ERABILITY	L CALCIII	ATIONS				
(P₀)³ =		•	(P)°=_		P <sub>d</sub> =			) - 14.4) +		:	(₽ <sub>•</sub> ) (₽ <sub>4</sub> )	) <sup>2</sup> = 0.207   <sup>2</sup> =	
(P <sub>a</sub> ) <sup>2</sup> - (i		(P,	)² - (P <sub>#</sub> )²	1. P <sup>2</sup> - P <sup>2</sup> 2. P <sup>2</sup> - P <sup>2</sup> Avoided by: P <sup>3</sup> - P <sup>3</sup>	LOG of tormula 1, or 2. and divide	P.1. P.3	Backpre- Slop As	ssure Curve 08 = "n" or signed ard Blope	n x 1	rog [	Antilog	Open Fi Deliverab Equals R x (Mctd)	bility Antilog
								<u></u>					<del></del>
Open Flo	<del></del> -		- <del></del>	Mcfd @ 14.	65 psia		Detiverab	illty		N	Acid <b>@</b> 14.65 ps	ia	
The	indersl	gned	authority, on	behalf of the	Company, a	states that h	no is duly au	thorized t	o make th	ne above repor	t and that he ha	s knowledge	e of
he facts s	tated th	ereir	n, and that sai	d report is tru	and correc	t. Executed	i this the		day of			, 20	<u></u> .
			Witness (if	tny)	· ·		_			For Co	empany		
· · · · · · · · · · · · · · · · · · ·			For Commis	sion			-			Check	ed by	<del></del>	

I declare und	der penalty of perjury under the laws of the state of Kansas that I am authorized to reques
	der Rule K.A.R. 82-3-304 on behalf of the operator Rever Resources LLC
	going pressure information and statements contained on this application form are true an
	st of my knowledge and belief based upon available production summaries and lease record
	tallation and/or upon type of completion or upon use being made of the gas well herein named
I hereby requ	uest a one-year exemption from open flow testing for the <u>Lu Hers</u> 2-25
gas well on the g	rounds that said well:
(Check	k one)
	Is a coalbed methane producer
H	is cycled on plunger lift due to water
	is a source of natural gas for Injection into an oil reservoir undergoing ER
<u></u>	is on vacuum at the present time; KCC approval Docket No.
<u>~</u>	is not capable of producing at a daily rate in excess of 250 mcf/D
l further agre	ee to supply to the best of my ability any and all supporting documents deemed by Commis
-	ry to corroborate this claim for exemption from testing.
	RECEIVEL NOV 0 4 201 KCC WICHITA
	MECEIVE.
Date: 9/28	NOV a
	20
	KCC Music
	WICHITA CONTRACTOR OF THE PROPERTY OF THE PROP
	110.
	Signatura:
	Signature:
	Title: Pumper
	Title: Pumpar

Instructions:

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