KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				((See Instruc	tions on Re	verse Side	9)						
O _I	oen Flo	w			Test Date				ADI	No. 15					
√ De	eliverab	ilty			9/27/20					199-20358	-000C)			
Company Raven F		ces, LLC					Lease Lutters				#3-25	Well N	ımber		
County Location Wallace County NE/4 NE/4				Section 25					RNG (E/W) 42W			Acres Attributed			
Field					Reservoi Niobrari					hering Conn gathering s	ection system (West K	Cansas	Pipeline)		
Completi 7/2008	on Dat	0				Plug Back Total Depth 1162.22'				Packer Set at					
Casing S 4 1/2"	Size	we 10	ight .5		Internal (Internal Diameter Set at 1204.4'				Perforations 997' - 1024'			То		
Tubing S 2 3/8"	ize	We 4.7	ight		Internal I	Diameter	Set a	at	Perfo	rations	То	То			
		n (Describe) ingle Gas"			Type Flui Only G	d Productio	n		Pump Un No	it or Traveling	Plunger? Yes	No)		
Producing Tubing	g Thru	(Annulus / Tu	bing)		% C	arbon Diox	ide		% Nitrog	en	Gas Gr	avity -	G,		
Vertical E	Depth(H)				Pres	sure Taps				(Meter .500"	Run) (P	rover) Size		
Pressure	Buildu	p: Snutin _	9/26		0 11 at 9		(AM) (PM)			20	11 _{at} 9 am	((AM (PM)		
Well on L	ine:	Started _	/27	2	0 11 at 9	am	(AM) (PM)	Taken 9/	28	20	11 _{at} 9 am		(AM) (PM)		
	1			1		OBSERVE	D SURFAC		1		Duration of Shut-	_{in} _24	Hours		
Static / Dynamic Property	Dynamic Size Prover Pres		r essure	Pressure Differential In Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)			
Shut-In	.500	" 15		0	-		8		8		24	0			
Flow	.500	" 15.9		3			5		5		24	0	·		
	ſ				<u> </u>	FLOW STE	REAM ATTR	IBUTES	1	ř	Chen		1		
Plate Coeffied (F _b) (F Mcfd	ient p)	Circle one: Meter or Prover Pressur psia	е	Press Extension P _m xh	Grav Fact F _c	tor	Flowing Temperature Factor F _{ft}	Fa	iation ctor	Metered Fio R (Mcfd)	SECEIVED (Cubic Fe OV 1 4 201		Flowing Fluid Gravity G _m		
										KC	C WICHIT	-A	•		
(P _c)² ≃		_: (P _* ;) ² =	;	(OPEN FL		'ERABILITY % (F) CALCUL ² c - 14.4) +		:	(P _a)	$r^2 = 0.2$ $r^2 = 0.2$	07		
(P _a) ² - (I	•	(P _e) ² - (P _w) ²	Cha	1. P _c ² -P _e ² 2. P _c ² -P _c ²	LOG of formula 1, or 2, and divide	P.2. P.2	Backpre Sloj As	ssure Curve De = "n" - or signed		.og	Antilog	O _l Del Equals	pen Flow iverability B R x Antilog (Mcfd)		
			dM	ded by: P ₀ 2 - P _w 2	Бу:		Stand	ard Slopė							
					<u> </u>		<u> </u>								
Open Flo	w			Mcfd @ 14.	65 psia		Deliverability Mcfd @ 14.65 psia								
		nerein, and tha		report is true	•		-	111	o make the	New York	ompany	as know	eledge of 20 4.		
							-	· 							
		For C	ommissi	on						Cha	cked by				

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
	ider 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 statements of my knowledge and belief based upon available production summaries and lease records
	tallation and/or upon type of completion or upon use being made of the gas well herein named.
	uest a one-year exemption from open flow testing for the Lutters 3-25
	rounds that said well:
(Ched	k 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
_	ee to supply to the best of my ability any and all supporting documents deemed by Commissio ry to corroborate this claim for exemption from testing.
	,
Date: 11/10	
	RECEIVE
	NOV 1 4 2
	Signature: KCC WICH
	Title: Managing Member
	1860.

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

t:					(See Instruc	tions on Re	verse Side)							
en Flo	w															
liverab	ilty					-										
	ces,	LLC					Lease Lutters					#3-25	Vell Nu	mber		
County Location Wallace County NE/4 NE/4					Section 25						Acres Attributed					
						Reservoir Niobrara				Gas Gathering Connection Closed gathering system (West Kansas Pipeline)						
on Date	9				_		th		Packer S	et at		Arou Arou				
ize		Weigl	nt		Internal [Diameter	Set at 1204.4'		Perfo	ations		To 100 0 4 2011				
Zθ		Welgi 4.7	nt		Internal C	Diameter	Set a	at	Perforations			TO WICHITA				
•	ı (De	escribe)			Type Flui	d Production	1		Pump Un	it or Traveling	Plunger	? Yes	/ No	<u> "//</u>		
Thru	(Anr	ıulus / Tubin	g)		% C	arbon Dioxi	de	··	% Nitroge	en		Gas Gra	vity - C	, , , , , , , , , , , , , , , , , , ,		
ooth/H						Drop	nuro Topo		<u>.</u>			(Mates 5) /D:	raved Ci-a		
ehuitu	,					ries:	sure raps					.500"	iun) (Pi	over) Size		
Buildu		Shut in												AM) (PM)		
ine:		Started 9/2	7	20	11 at 9	am	(AM) (PM)	Taken <u>9/</u> 2	28	20	11 at_	9 am	(AM) (PM)		
						OBSERVE	D SURFAC	E DATA			Duration	of Shut-i	_{n_} 24	Hours		
Static / Orifice ynamic Size roperty (inches)			ure	Pressure Differential in toches H.0	Flowing Temperature I	Well Head Temperature t	wellhead Pre (P _*) or (P ₁) or) (P _w) or (P _t) or (P _e		Duration (Hours)		Liquid Produced (Barrels)			
.500	•	15	\dashv				8 8	psia	8 8	psia	24		0			
.500	*	15.9		3			5		5		24		0			
					,	FLOW STR	EAM ATTR	IBUTES								
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Mater or Prover Pressure psia Press Extension ✓ P _m x h		Gravity Factor F ₀		Flowing emperature Factor F _{tt}	Fac	ctor	Metered Flow R (Mcfd)	I		ot .	Flowing Fluid Gravity G _m			
			<u> </u>		(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS			/D \2	- 00	0.7		
	_:	(P _w) ² =		<u> </u>	P _a =	9	% (F	- - 14.4) +	14.4 =	;						
-	(P	_a) ² · (P _w) ²	1 2	P _e -P _a ²	LOG of formula 1. or 2. and divide by:	P ₀ ² -P _w ²	Slop	pe = "n" - or signed	nxL	og [Anti	itog	Deli Equals	en Flow verability R x Antilog Mcfd)		
N				Mcfd @ 14.6	55 psia		Deliverab	ility		1	Mcfd @ 1	4.65 psia	1			
		n, and that s	aid r	eport is true				1		DC40	be v	at he has		edge of		
		For Comm	nisslon	· 			-			Chec	ked by	<u>-</u> -				
	Counting Cou	cen Flow diverability (Resources, County) County Cou	desources, LLC County NE/4 N Count	desources, LLC Location NE/4 NE/4 County Ne/4 Ne/4 Ne/4 County Ne/4 Ne/4 Ne/4 County Ne/4 Ne/4 Co	Resources, LLC County NE/4 NE/4 County NE/4 County NE/4 Ne/4 C	Resources, LLC County NE/4 NE/4 25 Reservoir Niobrara In Date Plug Bac 1162.22 Internal Date Plug Bac 1162.22 Weight Internal Date Plug Bac 1162.22 Weight Internal Date Plug Bac 1162.22 Reservoir Niobrara Internal Date Plug Bac 1162.22 Internal Date Plug Bac 11	ten Flow diverability Resources, LLC County NE/4 NE/4 25 Reservoir Niobrara on Date Plug Back Total Dept 1162.22' ize Weight Internal Diameter 4.7 splettion (Describe) Type Fluid Production and County New Yellow Production and County Annulus / Tubing) Repth(H) Presure Nation 9/26 20 11 at 9 am 9/27 Repth(H) Presure Differential Inches H ₂ O 11 at 9 am 9/27 Corillos Nater Prover Pressure Inches H ₂ O 1500 15.500" 15.9 3 FLOW STR ent Mater Prover Pressure Paid (Pre) 15.500" 15.9 3 FLOW STR ent Mater Prover Pressure Paid (Pre) 15.500" 15.9 3 FLOW STR ent Prover Pressure Paid (Pre) 2 - Pax h Pactor Fe Concess formula for 2 - Pax h Press and Pactor Fe Pax h Press a	Test Date: 9/27/2011 Lease Lutters Location NE/4 NE/4 Location NE/4 NE/4 Location NE/4 NE/4 Reservoir Niobrara Plug Back Total Depth 1162.22' Weight 10.5 Ze Weight 10.5 Type Fluid Production Repution (Describe) Result Internal Diameter Set A.7 Injection (Describe) Result Internal Diameter Set A.7 Reservoir Niobrara Plug Back Total Depth 1162.22' Internal Diameter Set A.7 Reservoir Niobrara Internal Diameter Set A.7 Reservoir Niobrara Internal Diameter Set A.7 Reservoir Niobrara Set A.7 Reservoir Niobrara Internal Diameter Set A.7 Reservoir Niobrara Reservoir Niobrara Set A.7 Reservoir Niobrara Set A.7 Reservoir Niobrara Set A.7 Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Reservoir Niobrara Set A.8 Stand Reservoir Niobrara Reservoir Niobrara Reservoir New Reservoir New Reservoir New Reservoir New Reservoir New Reservoir New Reservoir N	tesources, LLC Location Section TWP County NE/4 NE/4 25 11S Reservoir Nichbarra Plug Back Total Depth 1162.22 Weight 10.5 1204.4¹ Zee Weight 10.5 1204.4¹ Zee Weight 10.5 1204.4¹ Zee Weight 10.5 20 11 200.4² Zee Weight 10.5 20 20 11 200.4² Zee Weight 2.7 20 11 200.4² Zee Weight 2.7 20 11 200.4² Zee Weight 3.7 200.4² Zee Weight 2.7 20 11 200.4² Zee Weight 3.7 200.4² Zee Weight 3.7 200.4² Zee Weight 3.7 200.4² Zee Weight 4.7 3 200.4² Zee Weight 3.7 200.4² Zee Weight 4.7 3 200.4² Zee Weight 4.7 3 200.4² Zee Weight 4.7 3 200.4² Zee Weight 3.7 200.4² Zee Weight 4.7 3 200.	Internal Diameter Set at Performent Purp Uniforment Purp	Test Date: 9/27/2011 API No. 15 15-199-20358 (Resources, LLC Location Section TWP RNG (E-W) 42W Reservoir Gas Gathering Conn. Nicobrare Closed gathering 2 on Date Plug Bask Total Depth 162.22 Total Date Neight Internal Diameter Set at Perforations 10.5 Total Weight Internal Diameter Set at Perforations 10.5 Total Weight Internal Diameter Set at Perforations 10.5 Type Fluid Production Pump Unit or Traveling 3 on Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen 10.7 Buildup: Shut in 9/26 20 11 at 9 am (AM) (PM) Taken 9/27 20 Total Differential Perforation (Pressure Taps OBSERVED SURFACE DATA Tubing Orifice Size Mater Size (Inches) Page (Pm) Inches H ₂ D Weil Head (Pm) Weil Head (Pm) Flowing Inches H ₂ D Weil Head (Pm) Weil Head (Pm) Flowing Inches H ₂ D B B B B B B B B B B B B B B B B B B B	Test Date: API No. 15 15-199-20358	Test Date: 9/27/2011 15-199-20358 // Securces, LLC Lease Lutters #3-25 County NE/A NE/A Pesservoir NE/A NE/A Pesservoir Nichara Reservoir	Test Date: 9/27/2011 15-199-20358 (Resources, LLC Lutters #3-26 County Location Section TWP RNG (EW) Acres A (EW) Reservoir NIE/4 NE/4 Set 115 42W Reservoir Gas Gathering Connection Closed gathering system (West Karpsystem Nicobrara Closed gathering system (West Karpsystem 1162-22 Weight Internal Diameter Set at Perforations 10.5 10.5 1162-22 Weight Internal Diameter Set at Perforations 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		

I declare under penalty of perjury under the laws of the state of Kansa	as that I am authorized to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven I	Resources, LLC
and that the foregoing pressure information and statements contained on	this application form are true and
orrect to the best of my knowledge and belief based upon available produc	tion summaries and lease records
f equipment installation and/or upon type of completion or upon use being n	<u> </u>
I hereby request a one-year exemption from open flow testing for the $_$	utters 3-25
as 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 reservo	ir undergoing ER
is on vacuum at the present time; KCC approval Docket N	ło
is not capable of producing at a daily rate in excess of 2	50 mcf/D
I further agree to supply to the best of my ability any and all supporting	•
taff as necessary to corroborate this claim for exemption from testing.	RECEIVED NOV 0 4 2011 KCC WICHITA
	NOV O.
Pate: 10/25/11	KO- 4 2011
	NCC WICHITA
	71174
Signature: <u>Mg. M</u>	and a a
THE.	

Instructions:

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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:	:			G	See Instru	ctions on Re	verse Side	3)					
□ Оре	en Flow	,		Test Date				ADI	No. 15				
Deliverability								, Ari					
ompany				/\s		Lease				· - ·	_	3il Number	
						Hers		RNG (E/	147			res Attributed	
ounty		Locat	ion	Section		TWP		HNG (E/	vv)		Au		
ield				Reservoir				Gas Gat	hering Conn	ection			
ompletic	n Date			Plug Bac	k Total De	pth	···-··-	Packer S	iet at	<u>.</u> ,			
asing Si	ZØ	Weig	ht	Internal C	Diameter	Set	Set al Pe		Perforations			RECO	
oling Siz	zo	Weig	ht	Internal C	Internal Diameter Set at			Perforations			Го	NOV STU	
pe Com	pletion	(Describe)		Type Flui	d Producti	on	•	Pump Ur	nit or Traveling	Plunger?	YesY	Nº 19 2	
roducing	Thru	(Annulus / Tubin	18)	% C	% Carbon Dioxide %				en	7	Gas Grav	RECEIV NOV 0 4 20 Gravity - W/CH/7 ter Run) (Prover) Sizo	
ertical D	epth(H)				Pre	ssure Taps				(Meter Ru	in) (Prover) Size	
ressure	Buildus	: Shutin S	1/24 2	0. /. L. at	9100	(AM) (PM)	Taken	9/27	20		9.00	(<u>AM</u>) (PM)	
iell on Li	•		/ <u>አን</u> 26									(AM) (PM)	
					OBSERV	ED SURFAC	E DATA			Duration o	t Shut-in	24 Hours	
Static / ynamic roperty	mic Size Prover Pressure			Flowing Well Head Temperature t t		(P _w) or (P ₁) or (P _q)		Wellhe	Tubing Wallhead Pressure (P _w) or (P ₁) or (P _q)		on 's)	Liquid Produced (Barrels)	
Shut-In		peig (Pm)	inches H ₃ O			palg	psta	p3:g	ps!a	24		0	
Flow						5		5		24		0	
					FLOW ST	TREAM ATT	RIBUTES		==	—-г		Flowing	
Plate Coefficient (F _b) (F _p) Modd		Circle one. Meter of Prover Pressure pela	Press Extension	Grav Fac	tor	Flowing Temperature Factor F _{II}	Fi	eviation Matered Flow Factor R F _p (Mcfd)			GOR FIGURE (Cubic Foet/ Gra Barrel) (C		
12 =		_: (P_)2:		(OPEN FL		VERABILITY % (/) CALCUI P _a - 14.4) +		:		(P _a)² : (P _d)² :	- 0.207 	
$\frac{P_0)^2 = \frac{1}{(P_a)^2 - (P_a)^2}}{(P_a)^2 - (P_a)^2}$		(P _a) ² - (P _a) ² 1. P _a ³ - P _a ² 2. P _a ² - P _a ³		LOG of tormula 1. or 2. and divide pt.pt		Backpro Sk	Backpressure Curve Slope = "n" or Assigned		n x LOG		<u>,,,</u>	Open Flow Deliverability Equals R x Antilog (Mefd)	
<u> </u>			anded by P 2-P 2	by		l Sugni	derd Slope						
pen Flor	w		Mcfd @ 14.	65 psla		Deliverability McId @ 14.65 psia							
			on behalf of the									knowledge of	
		Witness	(If eny)		 				For	Company			
		For Com	mission						Che	icked by			
		F G G011							2	-			

I declare under penalty of perjury under the laws of the state of exempt status under Rule K.A.R. 82-3-304 on behalf of the operator and that the foregoing pressure information and statements contain correct to the best of my knowledge and belief based upon available of equipment installation and/or upon type of completion or upon used I hereby request a one-year exemption from open flow testing for gas well on the grounds that said well:	ined on this application form are true and production summaries and lease records being made of the gas well herein named.
(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 is on vacuum at the present time; KCC approval	
is not capable of producing at a daily rate in exc	
I further agree to supply to the best of my ability any and all sup staff as necessary to corroborate this claim for exemption from tes	
Date: _9/2&/11	RECEIVED NOV 0 4 2011 KCC WICHITA
Signature:	

Instructions:

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