Form G-2 (Rev. 7/03)

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

** U. ...

Type Tes	st:				(See Instruc	tions on Rev	erse Side)				
□ ○	pen Fk	w											
√ De	elivera	bilty			Test Date 9/27/20					No. 15 199-20359	-000		
Company Raven F		ırces	, LLC				Lease Nelson	·			#1-2	Well Numb	o e r
County Wallace	Cour	nty	Locat SW/4 S		Section 26		TWP 11S		RNG (EA	N)		Acres Attr	betudi
Field					Reservoir					ering Conn	ection system (West	Kansas P	ipeline)
Completion 8/2008	ion Da	te			Plug Bac 1221.15	k Total Dep	th		Packer S	 -			
Casing S 4 1/2"	Size		Weigh 10.5	nt	Internal [Set a 1235		Perforations 1058' - 1090'			То	
Tubing Size Weight 2 3/8" 4.7			Internal [Diameter	Set a 1047	<u> </u>	Perforations To						
Type Cor CO2 Fr			escribe)		Type Flui Only G	d Productio			Pump Un	it or Traveling	Plunger? Ye	s No	
Producing			nulus / Tubin	g)		arbon Dioxi	de		% Nitroge	<u>n</u>	Gas	Gravity - G	
Tubing Vertical C	Depth(H)				Pres	sure Taps				(Mete	r Run) (Prov	er) Size
			0/2	<u> </u>	11 0	am /		0.6	27		.500		<u> </u>
Pressure		ib:	Shut in <u>9/2</u> Started <u>9/2</u>	02	0 11 at 9 0 11 at 9	•	(AM) (PM)				11 at 9 am		(PM)
Well on L	une:		Started	<u>- </u>	0 at		(AMY (PM)	laken		20	at	<u> </u>	i)(PM)
			I			OBSERVE	D SURFACE				Duration of Shi	_{ut-in} _24	Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _a) psig psia		Tubing Welihead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid P (Bar	
Shut-in	.500)"	15.1	0			7	psia	7 7	psia	24	0	
Flow	.500)"	16	2			5		5		24	0	
						FLOW STR	EAM ATTRI	BUTES	-				
Plate Coeffiec (F _b) (F	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension Pmxh	Grav Fact F _e	or T	Flowing Femperature Factor F _{ft}	Fa	ation ctor	Metered Flow R (Mcfd)	RECEIVE	1 00/	Flowing Fluid Gravity G
	-						- 11				NOV 1 4 7	2011	
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS	K	CC WICH	₩ ∓Д 0.207	
(P _o)² =	.	- :	(P _w) ² =	 :	P _d =		% (P,	- 14.4) +	14.4 =	:		(a)2 =	
(P _q) ² - (I or (P _q) ² - (I		(F	P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _d ² - P _a ² 2. P _d ² - P _d ² divided by: P _d ² - P _d ²	LOG of formula 1. or 2. and divide by:	P ₂ -P ₂ ²	Slope Assi	sure Curve e = "n" or igned rd Slope	nxte	og [Antilog	Open Deliver Equals R (Mo	rability x Antilog
				<u> </u>									
Open Flor	•		l authority a	Mcfd @ 14.			Deliverabil	 	J	_	Mcfd @ 14.65 p		
				aid report is true				ノハギ	ay of	NW	art and that he l	, 20	ge of
			Witness (i	l any)			_	<u> </u>	yur	1	company	y	
	 -		For Comm	ission			_			Chec	cked 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 Nelson 1-26A 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. I 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 4 201
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Date: RECEIVED
Date
Date
· · · · · · · · · · · · · · · · · · ·
KCC WICHIT
Signature:
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

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	pen Flov eliverabi			Test Date 9/27/20					No. 15 199-20359				
Compan Raven F		ces, LLC				Lease Nelson				#1-26	Well No A	ımber	
County Wallace	Count	Loca y SW/4		Section 26		TWP 11S		RNG (E/ 42W	W)		Acres	Attributed	
Field		<u> </u>		Reservoi Niobrar		<u>.</u>		Gas Gathering Connection					
Completi 8/2008	on Date)		Plug Bac 1221.15	k Total Dep	th		Packer S		·	RE	CEIVA	
Casing S 4 1/2"	ize	Weig 10.5		Internal Diameter Set at 1235.13'					rations 3' - 1090'	То	WY	14 20	
Tubing S 2 3/8"	ize	Weig 4.7	jht	Internal Diameter Set at 1047.54'				Perfo	rations	ACC.	stem (West Kansas Pipeline) RECEIVE To NOV 0 4 2011 FICC WCH7A		
Type Cor CO2 Fr		(Describe)		Type Flui	d Productio	n		Pump Un	it or Traveling	Plunger? Yes	/ No	MIA	
Producing	g Thru	(Annulus / Tubi	ng)	% (arbon Diox	ide		% Nitrogo	en	Gas Gr	avity -	G _g	
Vertical D	Depth(H)		· · · · · · · · · · · · · · · · · · ·	Pres	ssure Taps				(Meter .500"	Run) (P	rover) Size	
Pressure	Buildup			0 11 at 9	am	(AM) (PM)	Taken 9/	27	20	11 at 9 am		(AM) (PM)	
Well on L	ine:	Started 9/2	272	0 11 at 9	am	(AM) (PM)	Taken <u>9/</u>	28	20	11 at 9 am	ا	(AM) (PM)	
					OBSERVE	D SURFACE	DATA		_	Duration of Shut-	in_24	Hours	
Static / Dynamic Property	Dynamic Size		Differential in	Flowing Well Heat Temperature t		Wellhead Proceure		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_e)$ psig psia		Duration (Hours)		Liquid Produced (Barrets)	
Shut-In	.500'	15.1	0			7	рыа	7	usia .	24	0		
Flow	.500	' 16	2			5		5		24	0		
			T		FLOW STP	REAM ATTRI	BUTES						
Plate Coeffiec (F _b) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psia	Press Extension P _m x h	Grav Fact	tor	Flowing Temperature Factor F _{ft}	Fa	ation ctor py	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
							<u> </u>						
(P _e) ² =		: (P _w) ²	=:	OPEN FL		'ERABILITY) % (P	CALCUL - 14.4) +		:_	(P₃) (P₃)	² = 0.2 ² =	07	
(P _a) ² - (I or (P _a) ² - (I	P _a) ²	(P ₀)²- (P _w)²	1. P _c ² -P _c ² 2. P _c ² -P _d ² divided by: P _c ² -P _c ²	LOG of formula 1, or 2,	P.2. P.2	Slop	sure Curve e = "n" or igned ard Slope	nxŁ	og [Antilog	Del Equals	en Flow iverability R x Antilog (Mcfd)	
Open Flo	w		Mcfd @ 14.6	65 psia		Deliverabi	lity		ļ	Mcfd @ 14.65 psi	a		
			on behalf of the				سره		above repo	rt and that he ha		ledge of	
	·	Witness	(il any)				<u> </u>		- Jac	ompany			
<u> </u>		For Com	mission			_			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 Nelson 1-26A gas well on the grounds that said well:
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staff as necessary to corroborate this claim for exemption from testing. Date: $\frac{10/25/11}{}$
Signature: Aud State Title: Mg. Merulee

Instructions:

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TO:14057737488

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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				ŧ.	See instruc	tions on He	verse 5/06	"			
	en Flo				Tost Date):			API	No. 15		
∐ Do	livorat	ilty		9	127/11							
ompany	,				•		Lease					Well Number 2<i>L A</i>
County			Localio		Section		150N_ TWP		ANG (EA	W)		Acres Attributed
,									·	<u></u>		
Field					Reservoir	•			Gas Gath	nering Conn	ection	
Completio	on Dai	9			Plug Bac	k Total Dop	th		Packer S	et at		
Casing S	ize		Welght		Internal C	Diameter	Set	Set at		ations	То	
Tubing S	ze		Weight		Internal C	Dlameter	Set	Set at		etions	То	
ype Con	npletio	n (De	scribe)		Type Flui	d Productio	n		Pump Un	it or Traveling	Plunger? Yes	/ No
roducing	Thru	(Anr	ulus / Tubing	<u> </u>	% C	arbon Diox	lde		% Nitroge	en	Gas Gr	avity - G _g
/ertical C	epth(l	1)				Pres	sure Taps				(Meter	Run) (Prover) Size
ressure	Buildu	: מו	Shut in9/	2 مادا	0./1 at 5	1:00	(AM) (PM)	Taken	9/27	20	11 al 9:00	(<u>AM</u>) (PM)
Well on L	ine:	:	Started _9/	<u> 27</u> 2	at	100	(AM) (PM)	Taken	9/28	20	11 at 51,00	, (<u>AM</u>) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	In 24 Hours
Static / Dynamic Property	mic Size Prover Pressure		1 1	Flowing Well Head Temperature Temperatu				Tubing Welfhead Pressure (P _w) or (P ₁) or (P _e)		Duration (Hours)	Liquid Produced (Barrela)	
Shut-In	· · · · · · · · · · · · · · · · · · ·		pelg (Pm)	(Pm) Inches H ₂ 0		psig 7		реча	psig psis		24	0
Flow							5		5		24	0
				1		FLOW STI	REAM ATTE	IBUTES				
Plate Coefficient (F _b) (F _p) Mold		Circle one: Metar or Prover Pressure psia		Press Gra Extension Fat		tor	Tomperature Fr		eviation Metered Factor R F _{pv} (Mc		w GOR (Cubic Fe Barrel)	A L GIZOVIIV
				· · · · · · · · · · · · · · · · · · ·								NOW
					(OPEN FL	OW) (DELIN	/ERABILITY) CALCUI	LATIONS			3= 0.207 9 21
P _a) ² =		_:_	(P_)2 =_	<u> </u>	P₄≃		% (P _e - 14.4) -	14.4 =	:	(h)	C 1/1
(P _e) ² - (or (P _e) ² - (•	(F	',)²- (P_)²	1. P ² -P ² 2. P ² -P ²	LOG of formula 1. or 2. and divide	P.* . P.*	Sid	essure Curvi pe = "ח" - or esigned	l n x t	.og [Antilog	Open How Deliverability Equals R x Antilog (Mcfd)
-				Middled by: P.*-P.	by	<u> </u>	Suinc	dard Skope	_			
Open Flo	w			Mcfd @ 14.	65 psia	· · · · · · · · · · · · · · · · · · ·	Deliveral	ollity		. —	Mcfd @ 14.65 ps	la
The	undars	igned	l authority, on	behalf of the	Company, a	states that I	ha is duly a	uthorized	to make th	e above repo	ort and that he ha	is knowledge of
e facts s	italed	therel	n, and that sa	ld report Is true	and correc	t. Executed	d this the _		day of			, 20
			Witnese (if	eny)					, , , , , , , , , , , , , , , , , , ,	For	Сотралу	
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Form G-2 (Rev. 7/03)

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staff as	necessary to corroborate this claim for exemption from testing.
Date:	<i>9/2</i> 5/11
	Re-
	AND CENTER
	Signature: Signa
	Signature: Signature: 2011
	The Read of the HITA
	Title:

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