KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		act			ſ	See Instr	uctions o	on Reve	erse Side)					
	en Flow liverabilt	•			Test Date 3/15/20						No. 15 -20488-01 0	0			
ompany losewo		ources, Inc.			0/10/20			ase cuch					21-02F	Well No	umber
County Location Sherman NWNENW				Section 2				RNG (E/W) 39W			Acres Attributed 80				
				Reservoir Niobran						thering Conne Systems In				RECEIVE	
			Plug Back Total Depth 2846'				Packer :				JAN 03				
Casing Size Weight 11.6		Internal (4.000		Set at 2846'			Perforations 2779'			K					
ibing Si	ze	Wel	ght		Internal (Diameter		Set at		Perf	Perforations				CC WICH
ре Соп	pletion Horizo	(Describe)			Type Flui Dry Ga	d Product	lion			Pump U Flowir	nit or Traveling	Plung	er? Yes	No)
'		Annulus / Tubi	ng)		<u>-</u>	Carbon Di	ebixo			% Nitrog	<u> </u>		Gas Gra	avity -	G _q
nnulus											· · · · · · · · · · · · · · · · · ·		.6		
ertical D 859'	epth(H)						essure T ange	aps					(Meter F 2"	⊀un) (F	Prover) Size
	.	Shut in3-	14		0 12 at 8			\/max\ =	3-	15	20	12			(AM)(PM)
	Buildup:	Started 3-			υ aτ ₀ 12 _{at} 8		_(AM)	/(PM) I	laken <u>3</u> -	16	20	12 _	9:10		(AM)(PM)
'ell on L	ine:	Started		21	u at		(AM)	XPM) I	laken 🕒		20	&	I		
						OBSER	VED SU	RFACE	DATA			Durati	on of Shut-	in 24	Hours
Static / Orifice Dynamic Size Property (inches)		Meter Differen		Pressure Differential in Inches H ₂ 0 Flowing Temperature t Well Hea Temperature t				Tubing Wellhead Pressure D			uid Produced				
						. {			P _t) or (P _w) (P _w)		or (P ₁) or (P _c)		(Hours)		(Barrels)
hut-In			·				12		26.4	paig	paid			-	
Flow							4		18.4			24		0	
						FLOW S	TREAM	ATTRIE	UTES				-		, ,
Plate Coeffiec (F _b) (F Mcfd	ient _p)	Circle one: Meter or Prover Pressure psla		Press Extension P _m x h	Grav Fac F	tor	Flowi Temper Fact F ₁₁	ature or	Fa	tation ctor	Metered Flov R (Mcfd)	v	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
											9				
					(OPEN FL	OW) (DEL	.IVERAB	ILITY) (CALCUL	ATIONS				² = 0.2	207
)² =		: (P _w) ²		ase formula 1 or 2:	P _a =				- 14.4) +	1	 ;		(P _d) ²	² = 	
(P _c)²+ (I		$(P_c)^2 - (P_w)^2$		1. P _c ² -P _a ²	LOG of		B	Slope	sure Curve = "n" nr	1	LOG .	,	Antilog	De	pen Flow liverability
or (P _c)²- (I	P ₄) ²	<u></u>		2. P _c - P _a ² ted by: P _a ² - P _a ²	1, or 2. and divide by:	P. t - P.]		gned d Slope					Equa	s R x Antilog (Mcfd)
									· ·						
pen Flo	 w		<u> </u>	Mcfd @ 14.	65 psia		Del	liverabili	ity			Mcfd (14.65 psi	ia_	
The	undersla	ned authority.	on b	ehalf of the	Company.	states tha	t he is d	luly auti	horized t	o make t	he above repo	ort and	that he ha	s knov	viedge of
	_	erein, and that									December				20 12
			J-114					· -		-, -, _ -\ A		(_^		7	- —
		Wines	e (if an	y)			-	_	<u> </u>			отпрату	للاللا	<u> </u>	
		For Cor			· ·····		-	_			C L-	cked by	· · · · · · · · · · · · · · · · · · ·		

Form G-2 (Rev. 7/03)

KCC		17 Y L	н	
	1/16	11 📂	41.	
N L.	. uu	11 11	44	
IVU		. •	,.	., .

exempt st and that t	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. he foregoing pressure information and statements contained on this application form are true and
of equipm I here	the best of my knowledge and belief based upon available production summaries and lease records ent 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 Crouch 21-02H on the grounds that said well:
	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 er agree to supply to the best of my ability any and all supporting documents deemed by Commission excessary to corroborate this claim for exemption from testing.
	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.

RECEIVED

JAN 0 3 2013

KCC WICHITA

W2420 Crouch 21-02H North Goodland Goodland None March-12

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN	1	(Maximum length 110 characters)
3/1/2012		4	17	8	0	
3/2/2012		4	17	8	0	
3/3/2012		5	18	8	0	
3/4/2012		4	17	8	0	
3/5/2012		4	17	8	0	
3/6/2012		4	17	8	0	
3/7/2012		4	17	8	0	
3/8/2012		4	17	9	0	
3/9/2012		4	17	8	0	
3/10/2012		4	17	8	0	
3/11/2012		4	17	8	0	
3/12/2012		4	17	8	0	
3/13/2012		4	17	8	0	
3/14/2012		4	17	9	0	shut in for state
3/15/2012	i	2	17	0	24	bp, opened up
3/16/2012		4	17	9	0	
3/17/2012		4	17	9	0	
3/18/2012		4	17	9	0	
3/19/2012		4	17	9	0	
3/20/2012		4	17	9	0	
3/21/2012		4	17	9	0	
3/22/2012		4	17	9	0	
3/23/2012		4	17	9	0	
3/24/2012		4	17	9	0	
3/25/2012		4	17	9	0	
3/26/2012		4	17	9	0	
3/27/2012		4	17	9	0	
3/28/2012		4	17	9	0	replaced bat
3/29/2012		4	17	8	0	
3/30/2012		4	17	9	0	
3/31/2012		4	17	8	0	

Total

RECEIVED
JAN 0 3 2013
KCC WICHITA

W2420 Crouch 21-02H North Goodland Goodland None April-12

	Casing			HR	ıs	REMARKS
DATE	PSI	S	TATIC MCF	DC)WN	(Maximum length 110 characters
4/1/2012		4	17	8	0	
4/2/2012		4	17	8	0	
4/3/2012		4	17	9	0	
4/4/2012		4	17	9	0	
4/5/2012		4	17	9	0	
4/6/2012		4	17	9	0	
4/7/2012		4	17	9	0	
4/8/2012		4	17	9	0	
4/9/2012		4	17	9	0	
4/10/2012		4	17	9	0	
4/11/2012		4	17	9	0	
4/12/2012		4	17	9	0	
4/13/2012		4	17	9	0	
4/14/2012		4	17	9	0	
4/15/2012		4	17	8	0	
4/16/2012		4	17	9	0	
4/17/2012		4	17	9	0	
4/18/2012		5	18	7	3	
4/19/2012		4	17	9	0	
4/20/2012		4	17	8	0	
4/21/2012		5	18	8	0	
4/22/2012		5	18	8	0	
4/23/2012		4	17	8	0	
4/24/2012		5	18	8	0	
4/25/2012		4	17	9	0	
4/26/2012		4	17	9	0	
4/27/2012		7	20	4	9.5	
4/28/2012		5	18	8	0	
4/29/2012		5	18	8	0	
4/30/2012		5	18	8	0	
5/1/2012		0	0	0	0	

Total

JAN 0 3 2013 KCC WICHITA

W2420 Crouch 21-02H North Goodland Goodland None May-12

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
5/1/2012		5	18	8	0	
5/2/2012		5	18	9	0	
5/3/2012		4	17	9	0	
5/4/2012		4	17	9	0	
5/5/2012		5	18	9	0	
5/6/2012		5	18	9	0	
5/7/2012		5	18	9	0	
5/8/2012		5	18	9	0	
5/9/2012		5	18	9	0	
5/10/2012		5	18	9	0	
5/11/2012		5	18	9	0	
5/12/2012		4	17	9	0	
5/13/2012		4	17	9	0	
5/14/2012		4	17	9	0	
5/15/2012		5	18	9	0	
5/16/2012		5	18	9	0	
5/17/2012		5	18	9	0	
5/18/2012		5	18	9	0	
5/19/2012		5	18	9	0	
5/20/2012		4	17	9	0	
5/21/2012		4	17	9	0	
5/22/2012		5	18	9	0	
5/23/2012		4	17	9	0	
5/24/2012		4	17	9	0	
5/25/2012		4	17	9	0	
5/26/2012		5	18	9	0	
5/27/2012		5	18	9	0	
5/28/2012		5	18	8	2	
5/29/2012		5	18	8	2.5	
5/30/2012		5	18	9	0	
5/31/2012		4	17	9	0	

Total