KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	OCT		(See Instruc	tions on Rev	erse Side)				
Open Flow			Test Date:				API No. 15					
Del	liverabilty	<i>!</i>		10/8/14	•				-20453-01 0	0		
Company		ources, Inc.				Lease Becker				21-14	Well Nur H	nber
County Location Sherman SWNE/			Section 14		TWP 7S		RNG (E/W) Acres Attr 39W 80				ttributed	
Field Goodlan	 d	_		Reservoir Niobrara					hering Conn Systems In			
Completic 10/28/2				Plug Bac 3122'	k Total Dept	th		Packer 8	Set at			
Casing Si 4 1/2"	ize	Weig 10.5		Internal E 4.000	iameter	Set at 3122		Perfo 305	rations 6'	то 3071'		
Tubing Si NONE	ze	Weig	ht	Internal D	iameter	Set at	1	Perfo	rations	То		
Type Com Single (Type Flui	d Production	n		Pump Ur Flowin	nit or Traveling	Plunger? Yes	(No)	
	Thru (A	Annulus / Tubir	g)		arbon Dioxi	de		% Nitrog	<u> </u>	Gas Gra	avity - G	9
Vertical D					Pres	sure Taps					ໃນກ) (Pr	over) Size
3178'					Flan	ge			<u>_</u>	2"		
Pressure	Buildup:			0 14 at 8	50	(AM)(PM)	Taken_10)-8		14 at 9:05	(AM)(PM)
Well on L	ine:	Started 10	.82	0 14 at 9		(AM)(PM)	Taken <u>10</u>)-9	20	14 at 9:50	<u> </u>	M)(PM)
					OBSERVE	D SURFACE	DATA			Duration of Shut-	_{n_24}	Hours
Static / Dynamic Property	Dynamic Size		Pressure Differential in	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _c)		Duration (Hours)		Produced arrels)
Shut-In		psig (Pm)	Inches H ₂ 0		<u> </u>	psig 7		psig	psia			
Flow						5	19.4		<u> </u>	24	0	
					FLOW STR	EAM ATTRI	BUTES	•				
Plate Coeffiec (F _b) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fact	tor	Flowing Femperature Factor F ₁₁	Fa	iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
									15			
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS	· -		= 0.20)7
(P _c) ² =		(P _w) ² :		P _d =		% (P,	<u>, - 14.4) +</u>	14.4 = _	 :	(P _d) ²	<u> </u>	
(P _c) ² - (F or (P _c) ² - (F	P _a) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_a^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop	sure Curve e = "n" or igned rd Slope	l n x	LOG	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
			c w							-		
Open Flor	w		Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 psi	a	
	_	-				-			ne above repo December	ort and that he ha	s knowl	edge of
the facts s	tated the	rein, and that s	said report is true	e and correc					,	mark	200	80 <u></u>
		Witness	(if any)		KÇIC I	MICHI		no	For	Company	1	/
		For Com	mission		FEB :	2 3 2015 -			Che	cked by		

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	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	joing 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
	allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Becker 21-14H
	ounds 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
$\overline{\checkmark}$	is not capable of producing at a daily rate in excess of 250 mcf/D
_	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
K	CC WICHITA 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.

W2274 Becker 21-14H

North Goodland

Goodland

None

October-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN	Ī	(Maximum length 110 characters)
10/1/2014		4 17	2	21	0	
10/2/2014	;	5 18		15	0	
10/3/2014	;	5 18		15	0	
10/4/2014	;	5 18	•	15	0	
10/5/2014	;	5 18		15	0	
10/6/2014	;	5 18		15	0	
10/7/2014	;	5 18		15	0	shut in for state
10/8/2014	•	7 20		0	24	opened up
10/9/2014		5 18		15	0	
10/10/2014	;	5 18		15	0	
10/11/2014	;	5 18	•	15	1	
10/12/2014	:	5 18		15	0	
10/13/2014	;	5 18		15	0	
10/14/2014	;	5 18		16	0	
10/15/2014	;	5 18		6	0	
10/16/2014	;	5 18		16	1	
10/17/2014	;	5 18	•	16	0	
10/18/2014	;	5 18		16	0	
10/19/2014	,	5 18		16	0	
10/20/2014	,	5 18		16	0	
10/21/2014	,	5 18		15	0	
10/22/2014	;	5 18		15	0	
10/23/2014		5 18		15	0	
10/24/2014	•	5 18		15	0	
10/25/2014		5 18		15	0	
10/26/2014	,	5 18		15	0	
10/27/2014		5 18	•	15	0	
10/28/2014		5 18	,	15	0	
10/29/2014	,	5 18		15	0	
10/30/2014	,	5 18		15	0	
10/31/2014		5 18		15	0	

Total 463

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W2274 Becker 21-14H

North Goodland

Goodland

None

November-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
11/1/2014		5	18	14	0	
11/2/2014		5	18	14	0	
11/3/2014		5	18	14	0	
11/4/2014		5	18	14	0	
11/5/2014		5	18	14	0	
11/6/2014		5	18	14	0	
11/7/2014		5	18	14	0	
11/8/2014		4	17	15	0	
11/9/2014		4	17	15	0	
11/10/2014		4	17	15	0	
11/11/2014		4	17	15	0	
11/12/2014		4	17	15	0	
11/13/2014		4	17	11	0	
11/14/2014		4	17	11	0	
11/15/2014		4	17	11	0	
11/16/2014		4	17	9	0	
11/17/2014		4	17	9	0	
11/18/2014		4	17	10	0	
11/19/2014		4	17	17	0	
11/20/2014		4	17	18	0	
11/21/2014		4	17	17	0	
11/22/2014		4	17	18	0	
11/23/2014		4	17	18	0	
11/24/2014		4	17	18	0	
11/25/2014		4	17	15	1.5	bp
11/26/2014		4	17	17	0	
11/27/2014		4	17	18	0	
11/28/2014		4	17	17	0	
11/29/2014		4	17	17	0	
11/30/2014		4	17	17	0	
12/1/2014					0	

Total 441

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Becker 21-1411

North Goodland

Goodland

None

December-14

	Casing		- -	HRS		REMARKS
DATE	PS <u>I</u>	STATIC	MCF _	DOWN		(Maximum length 110 characters)
12/1/2014		4	17	14	0	
12/2/2014		4	17	14	0	
12/3/2014		4	17	13	0	
12/4/2014		4	17	15	0	
12/5/2014		4	17	15	0	
12/6/2014		4	17	14	0	
12/7/2014		4	17	14	0	
12/8/2014		4	17	14	0	
12/9/2014		4	17	14	0	
12/10/2014		4	17	14	0	bp
12/11/2014		4	17	15	0	
12/12/2014		4	17	16	0	
12/13/2014		4	17	16	0	
12/14/2014		4	17	15	0	
12/15/2014		4	17	15	0	
12/16/2014		4	17	16	0	
12/17/2014		4	17	15	0	
12/18/2014		4	17	14	0	
12/19/2014		4	17	15	0	
12/20/2014		4	17	15	0	
12/21/2014		4	17	15	0	
12/22/2014		4	17	15	0	
12/23/2014		4	17	15	0	
12/24/2014		4	17	14	0	
12/25/2014		4	17	14	0	
12/26/2014		4	17	15	0	
12/27/2014		4	17	14	0	
12/28/2014		4	17	13	0	
12/29/2014		4	17	13	0	
12/30/2014		4	17	11	0	
12/31/2014		4	17	1	0	

Total

433

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