KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			ast		(See Instruct	tions on Rev	erse Side)				
Open Flow					Test Date	Test Date: API No. 15							
		iity		· -	10/8/14				181	-20530-00	00		
Company Rosewo		sou	rces, Inc.				Lease Leonard	Ì			44-29	Well No	ımber
County Location Sherman SESE/4			Section 29				RNG (E.	/W)		Acres Attributed 80			
Field			Reservoir Niobrara			Gas Gat Branch							
Completion 6/6/08	on Date	е			Plug Bac 1295'	k Total Depi	th		Packer \$	Set at			
Casing S 2 7/8"	ize		Weigh 6.5#	t	Internal E 2.441	Internal Diameter Set at 2.441 1295'			Perfo 107	rations 8'	то 1108'		
Tubing Si	ize		Weigh	t	Internal D	Diameter	Set a	t	Perfo	rations	То		
Type Con Single (Type Flui	d Production	n	_	Pump Un	nit or Traveling	Plunger? Yes	(No	
Producing	_	(Anı	nulus / Tubing	3)	% C	arbon Dioxi	de		% Nitrog	jen	Gas G .6	ravity - (G _g
Vertical D	Depth(H)				Pres Flan	sure Taps ge		-		(Meter 2"	Run) (P	rover) Size
Pressure	Buildu	o:	Shut in 10-	7	14 at 1	1:25	(AM) (PM)	Taken_10)-8	20	14 at 11:40	((AM) (PM)
Well on L			Started 10-	82	0 14 at 1		(PM)			20	14 at 12:25		(AM)(PM)
					<u> </u>	OBSERVE	D SURFACE	DATA			Duration of Shut	-in 24	Hours
Static / Dynamic Property	Dynamic Size Prover Pressur		Pressure Differential in Inches H _a 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing ead Pressure r (P ₁) or (P _c) psia	Duration (Hours)	1 -	d Produced Barrels)	
Shut-In				 			13	27.4	psig	,,,,,			
Flow							6	20.4		_	24	0	
						FLOW STR	REAM ATTR	BUTES				_	
Plate Coeffiec (F _b) (F	ient	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	Grav Fact	or 1	Flowing Temperature Factor F _{rt}	Fa	ation ctor pv	Metered Flow R (Mcfd)	w GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m
							_		_	20			
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS	<u>_</u> _	/P.) ² = 0.2	207
(P _c) ² =		<u>:</u>	(P _w)² =	<u>:</u>	P _d =		% <u>(</u> P	14.4) +	14.4 =	<u>-</u> _:	-) ² =	<u></u>
(P _c) ² - (I or (P _c) ² - (I	•	(F	P _c)²- (P _w)²	1. P _c ² - P _g ² 2. P _g ² - P _g ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop Ass	ssure Curve 00 = "n" or signed	n x	roe	Antilog	De	pen Flow liverability s R x Antilog (Mcfd)
				divided by: P _c ² -P _w	, by:	<u> </u>	Siand	ard Slope	-				
				_							_		
Open Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia	
											ort and that he h	as knov	ledge of
the facts s	stated th	nerei	in, and that sa	aid report is tru						ecember	Mate	0	20
			Witness (f any)	— K	CC-WI	CHITA		M ()	For	Company	LU	/
			For Comn	nission		FEB 23	2015 -		· ·	Che	cked by	<u> </u>	

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I declare under penalty of perjury under the laws of the state of Kansas the exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood F and that the foregoing pressure information and statements contained on this	Resources, Inc.
correct to the best of my knowledge and belief based upon available production	• •
of equipment installation and/or upon type of completion or upon use being made	
I hereby request a one-year exemption from open flow testing for the Leona	-
gas well 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 und is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 m I further agree to supply to the best of my ability any and all supporting docestaff as necessary to corroborate this claim for exemption from testing. Date: 12/10/14	ncf/D
FEB 23 2015 RECEIVED Signature:	Martiney

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.

W2583 Leonard 44-29 North Goodland Goodland None October-14

	Casing				IRS	REMARKS
D <u>ATE</u>	PSI	STATIC	MCF	Ι	OOWN	(Maximum length 110 characters)
10/1/2014	•	5 19)	21	0	
10/2/2014	(5 19)	18	0	
10/3/2014	(5 19)	18	0	
10/4/2014	(5 19)	18	0	
10/5/2014	(5 19)	18	0	
10/6/2014	(5 19	•	18	0	
10/7/2014	(5 19	•	19	0	shut in for state
10/8/2014	1.	3 26	5	0	24	opened up
10/9/2014	10	23	3	24	0	
10/10/2014	(5 19	•	20	0	
10/11/2014	(5 19	•	20	1	
10/12/2014	(5 19)	20	0	
10/13/2014	(5 19)	20	0	
10/14/2014	(5 19)	20	0	
10/15/2014	(5 19)	20	0	
10/16/2014	(5 19	•	20	1	
10/17/2014	(5 19	•	20	0	
10/18/2014	(5 19	•	20	0	
10/19/2014	(5 19)	20	0	
10/20/2014	(5 19)	20	0	
10/21/2014	(5 19	•	19	0	
10/22/2014	(5 19)	19	0	
10/23/2014	(5 19)	19	0	KCC varia
10/24/2014	(5 19	•	19	0	WICHIT
10/25/2014	•	5 19)	19	0	FEB 2 3 2000
10/26/2014	(5 19)	19	0	Pr 2015
10/27/2014	(5 19)	19	0	KCC WICHIT FEB 23 2015 RECEIVED
10/28/2014	(5 19)	19	0	
10/29/2014	(5 19)	19	0	
10/30/2014	•	5 19)	19	0	
10/31/2014	(5 19)	19	0	

Total 583

W2583 Leonard 44-29 North Goodland Goodland None November-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOW	1	(Maximum length 110 characters)
11/1/2014		6	19	19	0	
11/2/2014		6	19	19	0	
11/3/2014		6	19	19	0	
11/4/2014		6	19	19	0	
11/5/2014		6	19	19	0	
11/6/2014		6	19	19	0	
11/7/2014		6	19	19	0	
11/8/2014		6	19	19	0	
11/9/2014		6	19	19	0	
11/10/2014		6	19	19	0	
11/11/2014		6	19	19	0	
11/12/2014		5	18	20	0	
11/13/2014		5	18	12	0	
11/14/2014		5	18	1	0	
11/15/2014	·	5	18	27	0	
11/16/2014		5	18	16	0	
11/17/2014		5	18	16	0	
11/18/2014		5	18	17	0	
11/19/2014		5	18	21	0	
11/20/2014		5	18	22	0	
11/21/2014		5	18	20	0	
11/22/2014		5	18	21	0	
11/23/2014		5	18	21	0	
11/24/2014		5	18	20	0	
11/25/2014		5	18	18	1.5	bp
11/26/2014		5	18	20	0	KCC Inc.
11/27/2014		5	18	20	0	- WOLH
11/28/2014		5	18	20	0	FEB 2 2 200-
11/29/2014		5	18	20	0	Dr. 2015
11/30/2014		5	18	20	0	KCC WICH FEB 23 2015 RECEIVED
12/1/2014					0	-3

Total 561

W2583 Leonard 44-29 North Goodland Goodland None December-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
12/1/2014		5	18	16	0	
12/2/2014		5	18	17	0	
12/3/2014		5	18	18	0	
12/4/2014		5	18	20	0	
12/5/2014		5	18	19	0	
12/6/2014		5	18	18	0	
12/7/2014		5	18	18	0	
12/8/2014		5	18	19	0	
12/9/2014		5	18	19	0	
12/10/2014		5	18	19	0	
12/11/2014		5	18	19	0	
12/12/2014		5	18	19	0	
12/13/2014		5	18	19	0	
12/14/2014		5	18	19	0	
12/15/2014		5	18	19	0	
12/16/2014		5	18	19	0	
12/17/2014		4	17	18	0	
12/18/2014		4	17	19	0	
12/19/2014		4	17	19	0	
12/20/2014		4	17	19	0	
12/21/2014		4	17	19	0	
12/22/2014		4	17	19	0.1	bp
12/23/2014		4	17	18	0	
12/24/2014		4	17	18	0	
12/25/2014		4	17	18	0	
12/26/2014		4	17	19	0	
12/27/2014		4	17	17	0	
12/28/2014		4	17	17	0	
12/29/2014		4	17	17	0	
12/30/2014		4	17	10	0	
12/31/2014		4	17	0	0	

Total 544

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