Form G-2 (Rev. 7/03)

KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			4000			(:	See Insti	ructio	ns on Rev	verse Side)						
Ope	en Flow	1	ASI			Took Date						NDI NIA	. 15				
Deliverabilty						Test Date: API No. 15 9/7/2011 023-20554-0000											
Company		our	ces, Inc.						Lease Northru	р					2-33	Well Nu	ımber
County Location Cheyenne SWSE					Section 33				TWP 2S			RNG (E/W) 42W			Acres / 80	Attributed	
Field Cherry Creek						Reservoir Niobrara			Gas Gathering Conne Branch Systems Inc								
Completion Date 7-15-2004						Plug Back 1815'	k Total D)epth	n Pa			Packer Set at					
Casing Size Weight 4 1/2" 10.5#					Internal D 4.052	Internal Diameter 4.052			Set at 1820'			Perforations 1600'			To 1634'		
ubing Si	z _e , 5	3,	, Weig	ht i		Internal D	Diameter		Set at /		Pe	Perforations			То		
Type Com Single (pletion	(De	escribe)			Type Fluid Dry Ga		ction					or Traveling Unit	Plunge	er? (Yes)/ No	
Producing Annulus		(Ann	nulus / Tubir	ng)	*****	% C	Carbon D	ioxide			% Nit	% Nitrogen			Gas Gi .6	avity -	G _g
Vertical D	epth(H))							ire Taps				·		•	Run) (F	rover) Size
1634'								lange	}					11	2"		
Pressure	Buildup		Shut in			0 11 at 1		_	AM) (PM) Taken 9-7								(AM)(PM)
Well on Li	ine:	;	Started 9-7	7	20	0 <u>11</u> at <u>1</u>	1:50	_@	AM) (PM) Taken 9-8						1:40		(AM)(PM)
· · · · · · · · · · · · · · · · · · ·		,					OBSEF	₹VED	SURFAC	E DATA	т			Duratio	on of Shut	-in24	Hours
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			, pois (i iii						211	225.4	psi	ig	psia				
Flow									39	53.4				24		0	
							FLOW S	STRE	AM ATTR	IBUTES							
Plate Coefficeient $(F_b)(F_p)$ Mcfd Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Gravity Factor F ₀		Ter	Flowing mperature Factor F _{f1}	Fa	Deviation Factor F _{pv}		Metered Flov R (Mcfd)		GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m		
												2	3				
'D \2 _	·		(D.)2	_		(OPEN FL		LIVE		') CALCUL P _c - 14.4) +			•		(P _a (P _d) ² = 0.3	207
(P _c) ² =		<u> </u>	(P _w) ²	Cho	oose formula 1 or 2			=~	····	essure Curve				Ι	<u>'' a</u>		pen Flow
$ (P_c)^2 - (P_a)^2 $ or $ (P_c)^2 - (P_d)^2 $ or $ (P_c)^2 - (P_d)^2 $ 2. $P_c^2 - P_a^2 $			formula 1. or 2. and divide	1. or 2. and divide p2 p2			Slope = "n" or Assigned Standard Slope			n x LOG			De	Deliverability Equals R x Antilog (Mcfd)			
				GIVIC	ded by: $P_c^2 - P_w^2$	1											
			<u> </u>			1000											
Open Flo	w	,			Mcfd @ 14.	.65 psia			Deliverat	bility				Mcfd @	14.65 ps	sia	
		- •	•		pehalf of the									ort and	that he h	as knov	
ne facts s	tated th	erei	n, and that	said	report is true	e and correc	t. Execu	uted th	nis the 2	.5	day of	שפט	A IA A	11	<u></u>	A I A	20 11
			Witness	(if an	ıy)			_			_	K	For	Company			RECFI

exempt status and that the f	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. To regoing pressure information and statements contained on this application form are true and 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. equest a one-year exemption from open flow testing for the Northrup 2-33
	ne grounds that said well:
l further a	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 agree to supply to the best of my ability any and all supporting documents deemed by Commission ssary to corroborate this claim for exemption from testing.
Date: 12/28/	<u>11</u>
	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.

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Northrup, 2-33

West St. Francis

St. Francis

Pumping Unit/Elec

September-11

	Tubi	r Casing	5		,		HRS	Water	r REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLI	DOW	BBLS	(Maximum length 110 characters)
9/1/2011		36			4.5	24		18	
9/2/2011		37			4.5			.17	
9/3/2011		37			4.5	24		16	
9/4/2011		37			4.5			15	
9/5/2011		37	50	16	4.5	24		16	j
9/6/2011		35	48	16	4.5	12		17	shut well into do state test
9/7/2011		211	49	0	4.5	0	24	0	opened well didn't start pumping unit hp
9/8/2011		40	53	40	4.5	12		9	started PU and replaced stuffing box rubber
9/9/2011		37	50	33	4.5	24	•	17	1
9/10/2011		40	53	30	4.5	24		18	
9/11/2011		30	53	30	4.5	24		17	1
9/12/2011		39	52	29	4.5	24		16	;
9/13/2011		39	52	30	4.5	24		15	
9/14/2011		39	52	28	4.5	24		16	1
9/15/2011		36	49	28	4.5	24		17	9/16 - 9.5 min bucket changed to 12hr cycle
9/16/2011		38	51	27	4.5	12		8	
9/17/2011		35	48	25	4.5	12		9	
9/18/2011		35	48	24	4.5	12		10	1
9/19/2011		36	49	24	4.5	12		11	
9/20/2011		34	47	23	4.5	12		12	
9/21/2011		39	52	23	4.5	12		11	
9/22/2011		38	51	23	4.5	12		11	bucket test 8 min and greased
9/23/2011		37	50	22	4.5	12		12	
9/24/2011		36	49	22	4.5	12		11	
9/25/2011		36	49	22	4.5	12		10	1
9/26/2011		37	50	21	4.5	12		11	
9/27/2011		39	52	21	4.5	12		11	bucket test 8 min
9/28/2011		40	53	21	4.5	12		10	
9/29/2011		38	51	21	4.5	12		11	
9/30/2011		36		20	4.5	12		11	
10/1/2011						_			

Total 683 383

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Northrup 2-33

West St. Francis

St. Francis

Pumping Unit/Elec

October-11

	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
10/1/2011		37	49	19	4.5	12	0	10	
10/2/2011		36	49	20	4.5	12	0	11	
10/3/2011		37	49	20	4.5	12	0	10	
10/4/2011		37	49	20	4.5	12	0	9	
10/5/2011		36	49	20	4.5	12	0	10	
10/6/2011		38	52	20	4.5	12	0	9	bucket test 9.5 min
10/7/2011		41	51	19	4.5	12	0	8	
10/8/2011		41	50	18	4.5	12	0	9	
10/9/2011		37	50	19	4.5	12	0	10	•
10/10/2011		37	50	19	4.5	12	0	9	
10/11/2011		36	73	19	4.5	12	0	8	
10/12/2011		36	55	19	4.5	12	0	10	bucket test 9 min
10/13/2011		38	49	19	4.5	12	0	9	
10/14/2011		36	50	18	4.5	12	0	9	
10/15/2011		36	49	17	4.5	12	0	11	
10/16/2011		37	50	18	4.5	12	0	12	
10/17/2011		36	50	18	4.5	12	0	11	
10/18/2011		39	50	18	4.5	12	0	10	
10/19/2011		38	51	18	4.5	12	0	9	
10/20/2011		38	49	18	4.5	12	0	10	bucket test 9 min
10/21/2011		39	49	18	4.5	12	0	9	
10/22/2011		39	49	17	4.5	12	0	10	
10/23/2011		37	49	18	4.5	12	0	11	
10/24/2011		37	49	18	4.5	12	0	10	
10/25/2011		37	49	18	4.5	12	0	10	bucket test 9 min
10/26/2011		36	50	18	4.5	12	0	11	
10/27/2011		36	50	19	4.5	12	0	12	
10/28/2011		36	49	17	4.5	12	0	9	
10/29/2011		36	48	16	4.5	12	0	10	
10/30/2011		35	48	17	4.5	12	0	12	
10/31/2011		33	48	18	4.5	. 12	0	10	

Total 570 308

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W363

Northrup 2-33

West St. Francis

St. Francis

Pumping Unit/Elec

November-11

	Tubin	g Casing				-	HRS	Water	REMARKS
DATE	PSI	PSI	STATIC M	CF	SPM		DOWN	BBLS	(Maximum length 110 characters
11/1/2011		49	62	17		12	0	8	
11/2/2011		47	49	18	4.5	12	0	9	
11/3/2011		33	47	17	4.5	12	0	10	bucket test 9 min
11/4/2011		34	46	17	4.5	12	0	9	
11/5/2011		34	47	16	4.5	12	0	8	
11/6/2011		35	47	17	4.5	12	0	11	
11/7/2011		34	48	17	4.5	12	0	10	
11/8/2011		34	54	17	4.5	12	0	. 9	
11/9/2011		34	48	17	4.5	12	0	10	bucket test 9 min
11/10/2011		33	47	17	4.5	12	0	11	•
11/11/2011		33	46	17	4.5	12	0		
11/12/2011		33	46	16	4.5	12	0	8	
11/13/2011		33	46	17	4.5	12	0	12	
11/14/2011		34	46	17	4.5	12	0	10	
11/15/2011		35	52	17	4.5	12	0	9	
11/16/2011		33	49	17	4.5	12	0	10	
11/17/2011		33	46	16	4.5	12	0	10	bucket test 9 min
11/18/2011		32	46	16	4.5	12	0	10	
11/19/2011		39	46	15	4.5	12	0	9	
11/20/2011		39	47	17	4.5	12	0	8	
11/21/2011		34	47	16	4.5	12	0	9	
11/22/2011		35	47	16	4.5	12	0	10	bucket test 9 min
11/23/2011		35	48	17	4.5	12	0	9	
11/24/2011		34	48	17	4.5	12	0	8	
11/25/2011		34	48	16	4.5	12	0	9	
11/26/2011		33	48	15	4.5	12	0		
11/27/2011		34	47	16	4.5	12	0	9	•
11/28/2011		35	47	16	4.5	12	0	8	•
11/29/2011		35	47	17	4.5	12	0	9	
11/30/2011		35	47	17	4.5	12	0	10	
12/1/2011		0	0	0	0	0	. 0	0	

Total 498 282

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