KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				(See Instruc	ctions on Rev	verse Side)			
Ор	en Flow	ASI		Took Day				ADI	No 15		
Deliverabilty Test Date 9/22/11				e :	API No. 15 15-181-20416-00 ~ 0 0						
Company Rosewoo		ources				Lease G. Ihrig				13-20	Well Number
•			Section 20				RNG (E/	W)		Acres Attributed 80	
				Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.				
•			Plug Bac 1177'	Plug Back Total Depth 1177'			Packer Set at				
Casing S 2 7/8"				Internal Diameter Set at 2.441 1177.67'			Perfo 106	rations 2'	то 1098'		
Tubing Si none	ze	Weig	ht	Internal [Diameter	Set a	it	Perfo	rations	То	
		(Describe) entional)		Type Flui Dry Ga	d Production	on		Pump Ur Flowin	nit or Traveling G	Plunger? Yes	/ No
Producing Annulus		Annulus / Tubir	ng)	% C	Carbon Diox	ride		% Nitrog	en	Gas Gr .6	avity - G _g
Vertical D 1098'	epth(H)				Pres Flan	ssure Taps				(Meter	Run) (Prover) Size
Pressure	Buildup:			11 at 1		(PM)	Taken 9-	22		11 _{at} 11:25	(AM)(PM)
Well on L	ine:	Started 9-2	22 20	11 at 1	1:25	AM)(PM)			20	11 _{at} 12:10	(AM) (PM)
					OBSERVI	ED SURFACE				Duration of Shut-	in 24 Hours
Static / Dynamic Property	ynamic Size <i>Meter</i> Differential Prover Pressure in		Differential in	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In			_			7	21.4				
Flow						8	22.4			24	0
******			T		FLOW STI	REAM ATTR	IBUTES				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension Pmxh		Gravity Factor F _g		Flowing Temperature Factor F ₁₁	emperature Fac		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravity I
									18		
				(OPEN FL	OW) (DELIV	VERABILITY)	CALCUL	ATIONS		(P _a)	² = 0.207
(P _c) ² =		: (P _w) ² :	=:	P _d =		,% (F	° _c - 14.4) +	14.4 =		(P _d)	2 =
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop	ssure Curve De = "n" Or signed	nxi	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)
<u></u>			divided by: P _c ² - P _w ²	by:	<u> </u>	Sianda	ard Slope				
Open Flo	w		Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia
	_	•	on behalf of the said report is true	• •		•			ne above repo ecember	rt and that he ha	as knowledge of, 20
ne lauts S	iaieu ini	siem, and mat s	saiu repuit is true	anu correc	A. EXECUTE	u ans ale <u></u>			enae	U 6e	. `
		Witness	(if any)			_	6	1	For C	ompany	RECEIVI
		For Com	mission			_			Chec	ked by	·

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exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation 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 G. Ihrig 13-20 punds 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 eto supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>12/28/11</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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W2055 G. Ihrig 13-20 North Goodland Goodland None September-11

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	Casing			HI	rs	REMARKS
DATE	PSI	STATIC	MCF	D	OWN	(Maximum length 110 characters)
9/1/2011	9	22		16	0	
9/2/2011	10	23		7	12	
9/3/2011	11	24		19	0	
9/4/2011	10	23		18	0	
9/5/2011	9	22		18	0	
9/6/2011	9	22		18	0	
9/7/2011	8	21		18	0	
9/8/2011	7	20	ı	21	0	
9/9/2011	8	21		18	0	
9/10/2011	8	21		18	0	·
9/11/2011	8	21		18	0	
9/12/2011	8	21		18	0	
9/13/2011	8	21		18	0	
9/14/2011	8	21		18	0	
9/15/2011	8	21		18	0	
9/16/2011	8	21		18	0	
9/17/2011	8	21		18	0	
9/18/2011	8	21		18	0	
9/19/2011	8	21		17	0	
9/20/2011	8	21		17	0	cal
9/21/2011	7	20)	16	0	shut in
9/22/2011	7	20)	0	24	opened up
9/23/2011	9	22	!	18	2.5	
9/24/2011	8	21		12	15	
9/25/2011	9	22		20	0	
9/26/2011	9	22	!	18	0	
9/27/2011	9	22		17	2	
9/28/2011	8	21		19	0	
9/29/2011	8	3 21		17	0	
9/30/2011	8	21		17	2.5	
10/1/2011	C) ()	0	0	

Total 503

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W2055 G. Ihrig 13-20 North Goodland Goodland None October-11

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN	1	(Maximum length 110 characters)
10/1/2011		7	20	19	0	
10/2/2011		7	20	19	0	
10/3/2011		7	20	18	0	
10/4/2011		7	20	18	0	
10/5/2011		7	20	18	0	
10/6/2011		7	20	18	0	
10/7/2011		7	20	18	0	
10/8/2011		7	20	18	0	
10/9/2011		6	19	18	0	
10/10/2011		6	19	18	0	
10/11/2011		6	19	18	0	
10/12/2011		6	19	18	0	
10/13/2011		6	19	18	0	
10/14/2011		6	19	18	0	
10/15/2011		6	19	18	0	
10/16/2011		6	19	18	0	
10/17/2011		6	19	18	0	
10/18/2011		6	19	18	0	
10/19/2011		6	19	18	0	
10/20/2011		5	18	19	0	
10/21/2011		6	19	15	2	
10/22/2011		7	20	18	0	
10/23/2011		6	19	17	0	
10/24/2011		6	19	17	0	
10/25/2011		8	21	14	2	
10/26/2011		7	20	18	0	
10/27/2011		6	19	18	0	
10/28/2011		6	19	17	0	
10/29/2011		6	19	17	0	
10/30/2011		6	19	17	0	
10/31/2011		6	19	17	0	

Total 548

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W2055 G. Ihrig 13-20 North Goodland Goodland None November-11

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
11/1/2011		6	19	17	0	
11/2/2011		6	19	17	0	
11/3/2011		6	19	18	0	
11/4/2011		6	19	20	0	
11/5/2011		6	19	17	0	
11/6/2011		6	19	17	0	
11/7/2011		6	19	17	0	
11/8/2011		6	19	17	0	bp
11/9/2011		6	19	17	0	
11/10/2011		6	19	20	0	
11/11/2011		6	19	19	0	
11/12/2011		6	19	17	0	
11/13/2011		6	19	17	0	
11/14/2011		6	19	17	0	
11/15/2011		6	19	17	0	
11/16/2011		6	19	17	0	
11/17/2011		7	20	14	0	
11/18/2011		7	20	25	0	
11/19/2011		7	20	18	0	
11/20/2011		7	20	19	0	
11/21/2011		7	20	20	0	
11/22/2011		6	19	17	0	
11/23/2011		6	19	19	0	
11/24/2011		6	19	17	0	
11/25/2011		6	19	17	0	
11/26/2011		6	19	17	0	
11/27/2011		6	19	17	0	
11/28/2011		6	19	17	0	
11/29/2011		6	19	17	0	
11/30/2011		6	19	17	0	
12/1/2011		0	0	0	0	

Total 532

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