

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See instructions on Reverse Side)

Type Test:

- Open Flow **ASI**
 Deliverability

Test Date:
2/4/2010

API No. 15
181-20427-01-00 - **60**

Company Rosewood Resources, Inc.		Lease G. Ibrig			Well Number 21-20H
County Sherman	Location NENW	Section 20	TWP 7S	RNG (E/W) 39W	Acres Attributed 80
Field Goodland	Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.		
Completion Date 8/29/2006	Plug Back Total Depth 3266'		Packer Set at		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.000	Set at 3266'	Perforations 3197'	To 3212'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single (Horizontal)	Type Fluid Production Dry Gas	Pump Unit or Traveling Plunger? Flowing	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6
Vertical Depth(H) 3287'	Pressure Taps Flange		(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in 2-3	20 10 at 1:00	(AM) (PM) Taken 2-4	20 10 at 1:15 (AM) (PM)
Well on Line: Started 2-4	20 10 at 1:15	(AM) (PM) Taken 2-5	20 10 at 2:00 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in **72** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						47	61.4				
Flow						35	49.4			72	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						24		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ ; (P_w)² = _____ ; P_g = _____ % ; (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_g)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _g) ²	(P _w) ² - (P _g) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _g ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_g^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcd)

Open Flow Mcd @ 14.65 psia Deliverability Mcd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 16 day of December, 20 10

Witness (if any)

For Company KANSAS CORPORATION COMMISSION
 RECEIVED
 JAN 26 2011
 Checked by

For Commission

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. and that the foregoing 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 of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the G. Ihrig 21-20H gas well on the grounds 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. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 12/16/10

Signature: Jannell Gerwe

Title: Production Assistant

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. **KANSAS CORPORATION COMMISSION**

JAN 26 2011

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CONSERVATION DIVISION
WICHITA, KS

W2269
 G. Ihrig 21-20H
 North Goodland
 Goodland
 None
 February-10

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
2/1/2010	33	46	25	0	cd
2/2/2010	34	47	8	22	
2/3/2010	47	60	0	24	
2/4/2010	49	62	0	24	
2/5/2010	35	48	28	0	
2/6/2010	33	46	26	1.5	
2/7/2010	32	45	26	1	
2/8/2010	32	45	25	0	
2/9/2010	32	45	22	18	
2/10/2010	33	46	6	24	
2/11/2010	47	60	0	24	
2/12/2010	36	49	7	15	
2/13/2010	40	53	0	24	
2/14/2010	37	50	16	12	
2/15/2010	35	48	13	18	
2/16/2010	36	49	12	8	
2/17/2010	35	48	28	8	
2/18/2010	34	47	25	8	
2/19/2010	33	46	23	6	
2/20/2010	33	46	24	5	
2/21/2010	32	45	24	0	
2/22/2010	32	45	23	0	
2/23/2010	31	44	24	1	
2/24/2010	31	44	25	0	
2/25/2010	31	44	25	1.5	
2/26/2010	31	44	22	5.5	
2/27/2010	30	43	25	1	
2/28/2010	30	43	25	0	
3/1/2010	0	0	0	0	
3/2/2010	0	0	0	0	
3/3/2010	0	0	0	0	

Total

507

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CONSERVATION DIVISION
 WICHITA, KS

W2269
 G. Ihrig 21-20H
 North Goodland
 Goodland
 None
 March-10

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
3/1/2010	30	43		25	0 bp
3/2/2010	30	43		25	0
3/3/2010	30	43		24	0
3/4/2010	29	42		24	0
3/5/2010	30	43		18	0 cal
3/6/2010	29	42		20	0
3/7/2010	29	42		25	0
3/8/2010	29	42		25	0
3/9/2010	28	41		25	0
3/10/2010	28	41		25	0
3/11/2010	28	41		25	0 bp
3/12/2010	28	41		24	0
3/13/2010	28	41		23	0
3/14/2010	28	41		23	0
3/15/2010	28	41		24	0
3/16/2010	27	40		24	0
3/17/2010	27	40		24	0
3/18/2010	27	40		24	0 bp
3/19/2010	27	40		24	0
3/20/2010	27	40		24	0
3/21/2010	27	40		23	0
3/22/2010	26	39		23	0
3/23/2010	26	39		23	0
3/24/2010	26	39		23	0 opened to 28mcf
3/25/2010	25	38		26	0
3/26/2010	25	38		26	0
3/27/2010	24	37		27	0
3/28/2010	24	37		26	0
3/29/2010	24	37		26	0
3/30/2010	24	37		26	0
3/31/2010	24	37		26	0

Total 750

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