

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test: Open Flow Deliverability

Test Date: 10/5/2010 API No. 15 181-20567-0000

Company: Rosewood Resources, Inc. Lease: lhrig, G Well Number: 32-20

County: Sherman Location: SWNE Section: 20 TWP: 7S RNG (E/W): 39W Acres Attributed: 80

Field: Goodland Reservoir: Niobrara Gas Gathering Connection: Branch Systems Inc.

Completion Date: 8/24/2010 Plug Back Total Depth: 1211' Packer Set at: _____

Casing Size: 4 1/2" Weight: 10.5# Internal Diameter: 4.000 Set at: 1211' Perforations: 1056' To: 1088'

Tubing Size: NONE Weight: _____ Internal Diameter: _____ Set at: _____ Perforations: _____ To: _____

Type Completion (Describe): Single (VERTICLE) Type Fluid Production: Dry Gas Pump Unit or Traveling Plunger? Yes No

Producing Thru (Annulus / Tubing): Annulus % Carbon Dioxide: _____ % Nitrogen: _____ Gas Gravity - G_g: .6

Vertical Depth(H): 1240' Pressure Taps: Flange (Meter Run) (Prover) Size: 2"

Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)

Well on Line: Started 10-4 20 10 at 11:00 (AM) (PM) Taken 10-5 20 10 at 11:30 (AM) (PM)

OBSERVED SURFACE DATA								Duration of Shut-in	24	Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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											
Flow						56	70.4			24	0

Plate Coefficient (F _s) (F _p) Mcfd	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 _{ev}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						32		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

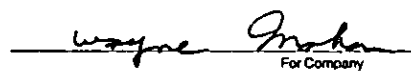
(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_s)² = 0.207 (P_d)² = _____

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

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 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 20 day of December, 20 10.

Witness (if any) _____ For Commission _____


 For Company
 Checked by _____

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KCC WICHITA

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 lhrig, G 32-20 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: 12/20/10

Signature: 

Title: Assistant Production Foreman

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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W2727
 Ihrig 32-20
 North Goodland
 Goodland
 None
 October-10
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
10/1/2010					0 blowing to pit
10/2/2010					0 blowing to pit
10/3/2010					0 blowing to pit
10/4/2010					0 blowing to pit
10/5/2010	58	71		9	0 flowing 33
10/6/2010	59	72		33	0
10/7/2010	59	72		32	2
10/8/2010	59	72		32	0
10/9/2010	59	72		32	4
10/10/2010	59	72		32	0
10/11/2010	59	72		32	0
10/12/2010	59	72		33	0 opened to 44
10/13/2010	58	71		36	6
10/14/2010	58	71		44	0
10/15/2010	58	71		44	0
10/16/2010	58	71		44	0
10/17/2010	58	71		44	0
10/18/2010	58	71		44	0
10/19/2010	58	71		44	0
10/20/2010	57	70		44	0
10/21/2010	57	70		44	0
10/22/2010	57	70		44	0
10/23/2010	58	71		45	0
10/24/2010	58	71		45	0
10/25/2010	58	71		45	0
10/26/2010	58	71		45	3 opened to 58
10/27/2010	57	70		56	0
10/28/2010	56	69		57	0 bp
10/29/2010	56	69		57	0
10/30/2010	56	69		57	0
10/31/2010	56	69		57	0

Total

1131

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W2393
 Ihrig 32-20
 North Goodland
 Goodland
 None
 November-10
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
11/1/2010	56	69	57	0	
11/2/2010	56	69	56	0	opened to 68
11/3/2010	55	68	66	4	
11/4/2010	55	68	69	0	
11/5/2010	55	68	69	0	
11/6/2010	55	68	69	0	
11/7/2010	55	68	71	0	
11/8/2010	55	68	71	0	
11/9/2010	55	68	68	0	opened to 80
11/10/2010	54	67	77	0	
11/11/2010	54	67	79	0	bp
11/12/2010	53	66	79	0	
11/13/2010	53	66	79	0	
11/14/2010	53	66	79	0	
11/15/2010	53	66	79	0	
11/16/2010	53	66	79	0	
11/17/2010	53	66	79	0	
11/18/2010	53	66	79	0	bp
11/19/2010	53	66	79	0	
11/20/2010	53	66	79	0	
11/21/2010	53	66	79	0	
11/22/2010	53	66	78	0	
11/23/2010	53	66	77	0	
11/24/2010	53	66	78	0	
11/25/2010	53	66	77	0	
11/26/2010	53	66	73	0	
11/27/2010	53	66	77	0	
11/28/2010	53	66	77	0	
11/29/2010	53	66	77	0	
11/30/2010	53	66	77	0	
12/1/2010				0	

Total

2233

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W2393
 Ihrig 32-20
 North Goodland
 Goodland
 None
 December-10
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
12/1/2010	53	66	74	0	
12/2/2010	53	66	78	0	
12/3/2010	53	66	78	0	
12/4/2010	52	65	78	0	
12/5/2010	52	65	78	0	
12/6/2010	52	65	76	0	
12/7/2010	52	65	76	0	
12/8/2010	53	66	77	0	cd, bp
12/9/2010	53	66	75	6	
12/10/2010	52	65	77	3	
12/11/2010	52	65	77	0	
12/12/2010	52	65	77	0	
12/13/2010	52	65	77	0	
12/14/2010	52	65	77	0	
12/15/2010	52	65	77	0	
12/16/2010	52	65	77	0	
12/17/2010	52	65	77	0	
12/18/2010	52	65	77	0	
12/19/2010	52	65	77	0	
12/20/2010	52	65	77	0	
12/21/2010	51	64	76	0	bp
12/22/2010	52	65	77	0	
12/23/2010	52	65	76	0	
12/24/2010	51	64	74	0	
12/25/2010	51	64	74	0	
12/26/2010	51	64	76	0	
12/27/2010	53	66	76	0	
12/28/2010	51	64	74	0	
12/29/2010	52	65	77	0	
12/30/2010	52	65	76	0	bp
12/31/2010	52	65	76	0	

Total

2369

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