

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow 24hr SI  
 Deliverability

Test Date: 9-29-04 API No. 15 - 180 - 20360-0000

Company <i>Rosewood Resources</i>		Lease <i>Hornstead</i>		Well Number <i>1-9</i>	
County <i>Sherman</i>	Location <i>NE NW</i>	Section <i>9</i>	TWP <i>7S</i>	RNG (E/W) <i>39W</i>	Acres Attributed <i>80</i>
Field <i>Goodland</i>		Reservoir <i>Niobrara</i>	Gas Gathering Connection <i>B.S.I.</i>		
Completion Date <i>9-9-04</i>		Plug Back Total Depth <i>1211</i>	Packer Set at		
Casing Size <i>2-7/8"</i>	Weight <i>6.5#</i>	Internal Diameter <i>2.441"</i>	Set at <i>1223</i>	Perforations <i>1028</i>	To <i>1056</i>
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) <i>SINGLE (vertical)</i>	Type Fluid Production <i>Dry GAS</i>	Pump Unit or Traveling Plunger? Yes / <input checked="" type="radio"/> No
Producing Thru (Annulus / Tubing) <i>CASING</i>	% Carbon Dioxide <i>0</i>	% Nitrogen <i>0</i>
Gas Gravity - G <sub>g</sub> <i>0.64</i>		
Vertical Depth(H) <i>1223' - 1056</i>	Pressure Taps <i>Flange</i>	(Meter Run) (Prover) Size <i>2"</i>
Pressure Buildup: Shut in <i>9-11</i> 20 <i>04</i> at <i>7</i> <input checked="" type="radio"/> (AM) (PM) Taken <i>9-29</i> 20 <i>04</i> at <i>7</i> <input checked="" type="radio"/> (AM) (PM)		
Well on Line: Started <i>9-29</i> 20 <i>04</i> at <i>7</i> <input checked="" type="radio"/> (AM) (PM) Taken <i>10-1</i> 20 <i>04</i> at <i>7</i> <input checked="" type="radio"/> (AM) (PM)		

**OBSERVED SURFACE DATA**

Duration of Shut-in *432* Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						<i>68</i>	<i>82.4</i>				
Flow										<i>24</i>	<i>0</i>

**FLOW STREAM ATTRIBUTES**

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Plate Coefficient C <sub>d</sub> (F <sub>1</sub> / F <sub>2</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						<i>22</i>		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>s</sub>)<sup>2</sup> = 0.207  
(P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> = _____	(P <sub>w</sub> ) <sup>2</sup> = _____	P <sub>d</sub> = _____ %	(P <sub>c</sub> - 14.4) + 14.4 = _____	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>s</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>o</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 14 day of January, 2005.

*Ronald Harris*  
 Witness (if any)
 

*Rosewood Resources*  
 For Company

For Commission Checked by

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 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 Homestead 1-9 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: 1/14/05

Signature: *Dennis Hauls*  
Title: *Reservoir Eng*

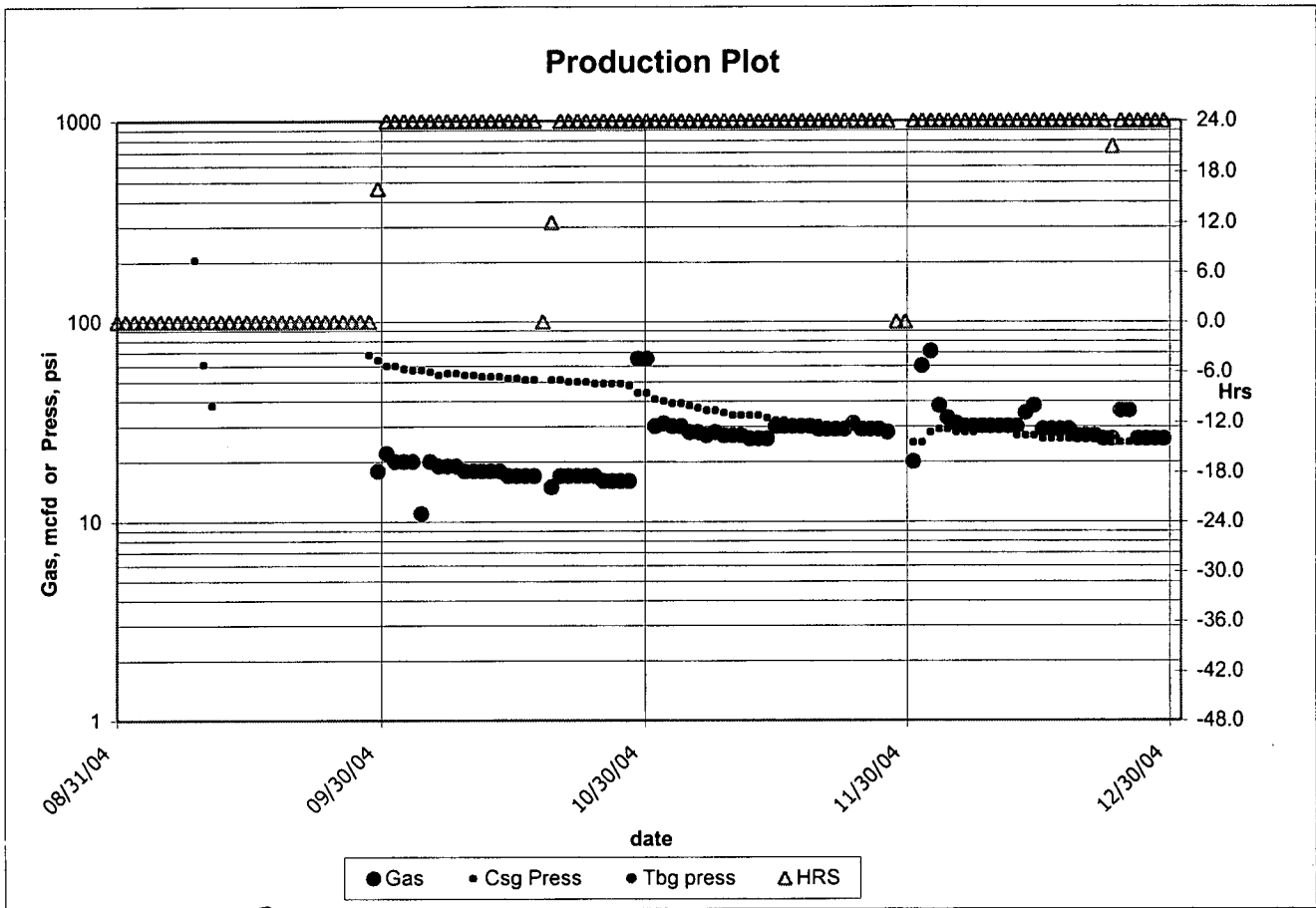
**Instructions:** If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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.

Actual  
**HOMESTEAD 01-09**

	<u>Gas</u>	<u>Csg Press</u>	<u>Tbg Press</u>	<u>Line Press</u>	<u>Hrs</u>	<u>Remarks</u>
2004/01	null	null	null	null	null	null
2004/02	null	null	null	null	null	null
2004/03	null	null	null	null	null	null
2004/04	null	null	null	null	null	null
2004/05	null	null	null	null	null	null
2004/06	null	null	null	null	null	null
2004/07	null	null	null	null	null	null
2004/08	null	null	null	null	null	null
2004/09	18	66.0	null	null	16.0	null
2004/10	622	52.3	null	null	23.6	null
2004/11	803	33.4	null	null	24.0	null
2004/12	987	26.8	null	null	23.9	null
<b>TOTAL</b>	<b>2430</b>	<b>44.6</b>			<b>21.9</b>	



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Actual  
HOMESTEAD 01-09

	Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
08/19/2004	null	null	null	null	null	TD 1223
08/20/2004	null	null	null	null	null	Csg set 1223
08/21/2004	null	null	null	null	null	SI WOCT
08/22/2004	null	null	null	null	null	SI WOC & WOCTR
08/23/2004	null	null	null	null	null	SI WOC & WOCTR
08/24/2004	null	null	null	null	null	PBTD 1211 & SI
08/25/2004	null	null	null	null	null	SI WOCT
08/26/2004	null	null	null	null	null	SI WOCT
08/27/2004	null	null	null	null	null	SI WOCT
08/28/2004	null	null	null	null	null	SI WOCT
08/29/2004	null	null	null	null	null	SI WOCT
08/30/2004	null	null	null	null	null	SI WOCT
08/31/2004	null	null	null	null	null	SI WOCT
09/01/2004	0	null	null	null	0.0	SI WOCT
09/02/2004	0	null	null	null	0.0	SI WOCT
09/03/2004	0	null	null	null	0.0	SI WOCT
09/04/2004	0	null	null	null	0.0	SI WOCT
09/05/2004	0	null	null	null	0.0	SI WOCT
09/06/2004	0	null	null	null	0.0	SI WOCT
09/07/2004	0	null	null	null	0.0	PERF 1028-1056 w/2spf
09/08/2004	0	null	null	null	0.0	SI WOFU
09/09/2004	0	205.0	null	null	0.0	FRAC 50K# & SICP
09/10/2004	0	61.0	null	null	0.0	Chk 20//64 flo DryG to pits
09/11/2004	0	38.0	null	null	0.0	Chk 20//64 flo DrYg & SI
09/12/2004	0	null	null	null	0.0	SI WOPL
09/13/2004	0	null	null	null	0.0	SI WOPL
09/14/2004	0	null	null	null	0.0	SI WOPL
09/15/2004	0	null	null	null	0.0	SI WOPL
09/16/2004	0	null	null	null	0.0	SI WOPL
09/17/2004	0	null	null	null	0.0	SI WOPL
09/18/2004	0	null	null	null	0.0	SI WOPL
09/19/2004	0	null	null	null	0.0	SI WOPL
09/20/2004	0	null	null	null	0.0	SI WOPL
09/21/2004	0	null	null	null	0.0	SI WOPL
09/22/2004	0	null	null	null	0.0	SI WOPL
09/23/2004	0	null	null	null	0.0	SI WOPL
09/24/2004	0	null	null	null	0.0	SI WOPL
09/25/2004	0	null	null	null	0.0	SI WOPL
09/26/2004	0	null	null	null	0.0	SI WOPL
09/27/2004	0	null	null	null	0.0	SI WOPL
09/28/2004	0	null	null	null	0.0	SI WOPL
09/29/2004	0	68.0	null	null	0.0	SI 432 hrs & on line
09/30/2004	18	64.0	null	null	16.0	null
10/01/2004	22	60.0	null	null	24.0	null
10/02/2004	20	60.0	null	null	24.0	null
10/03/2004	20	58.0	null	null	24.0	null
10/04/2004	20	57.0	null	null	24.0	null
10/05/2004	11	57.0	null	null	24.0	null
10/06/2004	20	56.0	null	null	24.0	null
10/07/2004	19	54.0	null	null	24.0	null
10/08/2004	19	55.0	null	null	24.0	null
10/09/2004	19	55.0	null	null	24.0	null
10/10/2004	18	54.0	null	null	24.0	null
10/11/2004	18	54.0	null	null	24.0	null
10/12/2004	18	53.0	null	null	24.0	null
10/13/2004	18	53.0	null	null	24.0	null
10/14/2004	18	53.0	null	null	24.0	null
10/15/2004	17	52.0	null	null	24.0	null
10/16/2004	17	52.0	null	null	24.0	null
10/17/2004	17	51.0	null	null	24.0	null
10/18/2004	17	51.0	null	null	24.0	null
10/19/2004	0	null	null	null	0.0	null
10/20/2004	15	51.0	null	null	12.0	null
10/21/2004	17	51.0	null	null	24.0	null
10/22/2004	17	50.0	null	null	24.0	null
10/23/2004	17	50.0	null	null	24.0	null
10/24/2004	17	50.0	null	null	24.0	null
10/25/2004	17	49.0	null	null	24.0	null
10/26/2004	16	49.0	null	null	24.0	null
10/27/2004	16	49.0	null	null	24.0	null
10/28/2004	16	49.0	null	null	24.0	null
10/29/2004	16	48.0	null	null	24.0	null
10/30/2004	65	44.0	null	null	24.0	null
10/31/2004	65	44.0	null	null	24.0	null

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Actual						
HOMESTEAD 01-09						
	Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
11/01/2004	30	41.0	null	null	24.0	null
11/02/2004	31	40.0	null	null	24.0	null
11/03/2004	30	39.0	null	null	24.0	null
11/04/2004	30	39.0	null	null	24.0	null
11/05/2004	28	38.0	null	null	24.0	null
11/06/2004	28	37.0	null	null	24.0	null
11/07/2004	27	36.0	null	null	24.0	null
11/08/2004	28	36.0	null	null	24.0	null
11/09/2004	27	35.0	null	null	24.0	null
11/10/2004	27	34.0	null	null	24.0	null
11/11/2004	27	34.0	null	null	24.0	null
11/12/2004	26	34.0	null	null	24.0	null
11/13/2004	26	34.0	null	null	24.0	null
11/14/2004	26	33.0	null	null	24.0	null
11/15/2004	30	32.0	null	null	24.0	null
11/16/2004	30	32.0	null	null	24.0	null
11/17/2004	30	31.0	null	null	24.0	null
11/18/2004	30	31.0	null	null	24.0	null
11/19/2004	30	31.0	null	null	24.0	null
11/20/2004	29	31.0	null	null	24.0	null
11/21/2004	29	30.0	null	null	24.0	null
11/22/2004	29	30.0	null	null	24.0	null
11/23/2004	29	30.0	null	null	24.0	null
11/24/2004	31	31.0	null	null	24.0	null
11/25/2004	29	29.0	null	null	24.0	null
11/26/2004	29	29.0	null	null	24.0	null
11/27/2004	29	29.0	null	null	24.0	null
11/28/2004	28	29.0	null	null	24.0	null
11/29/2004	null	null	null	null	null	null
11/30/2004	null	null	null	null	null	null
12/01/2004	20	25.0	null	null	24.0	null
12/02/2004	60	25.0	null	null	24.0	null
12/03/2004	71	28.0	null	null	24.0	null
12/04/2004	38	29.0	null	null	24.0	null
12/05/2004	33	29.0	null	null	24.0	null
12/06/2004	31	28.0	null	null	24.0	null
12/07/2004	30	28.0	null	null	24.0	null
12/08/2004	30	28.0	null	null	24.0	null
12/09/2004	30	29.0	null	null	24.0	null
12/10/2004	30	29.0	null	null	24.0	null
12/11/2004	30	29.0	null	null	24.0	null
12/12/2004	30	29.0	null	null	24.0	null
12/13/2004	30	27.0	null	null	24.0	null
12/14/2004	35	27.0	null	null	24.0	null
12/15/2004	38	27.0	null	null	24.0	null
12/16/2004	29	26.0	null	null	24.0	null
12/17/2004	29	26.0	null	null	24.0	null
12/18/2004	29	26.0	null	null	24.0	null
12/19/2004	29	26.0	null	null	24.0	null
12/20/2004	27	26.0	null	null	24.0	null
12/21/2004	27	26.0	null	null	24.0	null
12/22/2004	27	26.0	null	null	24.0	null
12/23/2004	26	26.0	null	null	24.0	null
12/24/2004	26	26.0	null	null	21.0	null
12/25/2004	36	25.0	null	null	24.0	null
12/26/2004	36	25.0	null	null	24.0	null
12/27/2004	26	26.0	null	null	24.0	null
12/28/2004	26	26.0	null	null	24.0	null
12/29/2004	26	26.0	null	null	24.0	null
12/30/2004	26	26.0	null	null	24.0	null
12/31/2004	26	26.0	null	null	24.0	null