

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

Type Test:

- Open Flow  
 Deliverability

24 hr SI.

(See Instructions on Reverse Side)

Test Date: 9-28-04

API No. 15 - 181-20352 0000

Company <u>Rosewood Resources</u>		Lease <u>Stasser, D</u>		Well Number <u>1-9</u>	
County <u>Sherman</u>	Location <u>NE-SW</u>	Section <u>9</u>	TWP <u>7S</u>	RNG (E/W) <u>39 W</u>	Acres Attributed <u>80</u>
Field <u>Goodland</u>		Reservoir <u>Nidbrard</u>	Gas Gathering Connection <u>Branch Systems, Inc.</u>		
Completion Date <u>7-21-04</u>		Plug Back Total Depth <u>1198</u>	Packer Set at		
Casing Size <u>4.5"</u>	Weight <u>10.5 #</u>	Internal Diameter <u>4.052"</u>	Set at <u>1160</u>	Perforations <u>1009</u>	To <u>1050</u>
Tubing Size <u>N/A</u>	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) <u>SINGLE (vertical)</u>	Type Fluid Production <u>Dry GAS</u>	Pump Unit or Traveling Plunger? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Producing Thru (Annulus) <u>Flowing</u>	Carbon Dioxide <input type="checkbox"/>	% Nitrogen
		Gas Gravity - G <sub>g</sub> <u>0.64</u>

Vertical Depth(H) <u>1215 TD 1050 (H)</u>	Pressure Taps <u>FLANGE</u>	(Meter Run) (Prover) Size <u>(2")</u>
Pressure Buildup: Shut in <u>7-23</u> 20 <u>04</u> at <u>7</u> (AM) (PM) Taken <u>9-28</u> 20 <u>04</u> at <u>7</u> (AM) (PM)		
Well on Line: Started <u>9-28</u> 20 <u>04</u> at <u>7</u> (AM) (PM) Taken <u>9-30</u> 20 <u>04</u> at <u>7</u> (AM) (PM)		

### OBSERVED SURFACE DATA

Duration of Shut-in 1416 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						<u>64</u>	<u>78.4</u>				
Flow						<u>56</u>	<u>70.4</u>			<u>24</u>	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</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>
						<u>26</u>		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207

(P<sub>d</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>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</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>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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, 20 05.

[Signature]  
Witness (if any)
[Signature]  
For Company

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 STASSER, D 1-09 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: *David Stass*

Title: *Reserv Engineer*

**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.

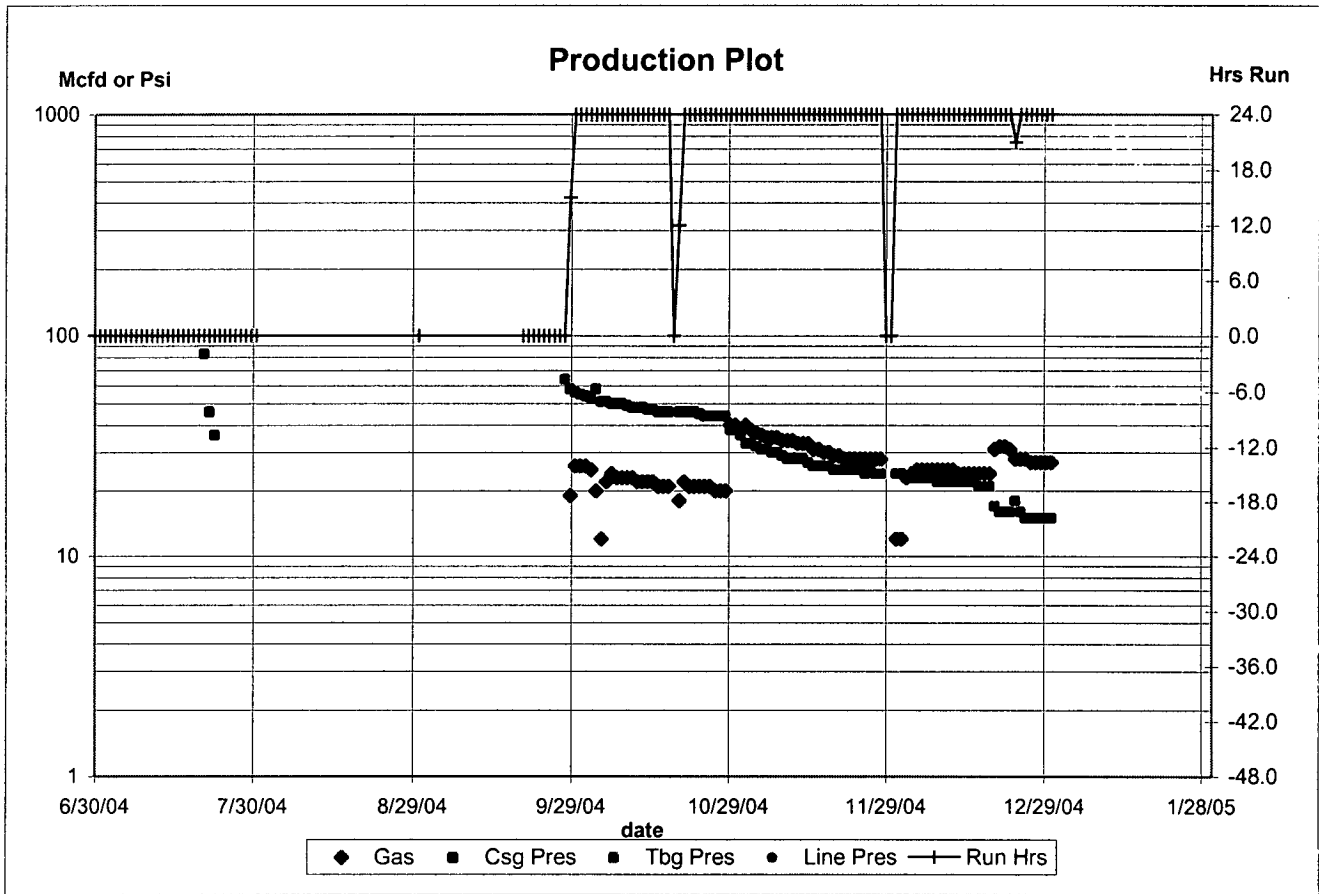
At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner 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  
STASSER,D 01-09

	<u>Gas</u>	<u>Csq 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	Spud & TD
2004/07	0	null	null	null	0.0	Frac
2004/08	0	null	null	null	0.0	SI & WOPL
2004/09	45	59.3	null	null	19.5	G-2 & 1st Sales
2004/10	683	47.4	null	null	23.6	null
2004/11	899	27.7	null	null	24.0	null
2004/12	784	19.8	null	null	23.9	null
<b>TOTAL</b>	<b>2411</b>	<b>38.6</b>			<b>22.8</b>	

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Actual

**STASSER,D 01-09**

Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
06/23/2004	null	null	null	null	Spud 12:45pm Set Surf Csg 361 & WOC
06/24/2004	null	null	null	null	TD 1215 set 4.5" 10.5# Prd Csg @ 1160
06/25/2004	null	null	null	null	WOC. RR. RDMO. & WOCU
06/26/2004	null	null	null	null	WOCU
06/27/2004	null	null	null	null	WOCU
06/28/2004	null	null	null	null	WOCU
06/29/2004	null	null	null	null	WOCU
06/30/2004	null	null	null	null	WOCU
07/01/2004	0	null	null	0.0	WOCU
07/02/2004	0	null	null	0.0	WOCU
07/03/2004	0	null	null	0.0	WOCU
07/04/2004	0	null	null	0.0	WOCU
07/05/2004	0	null	null	0.0	WOCU
07/06/2004	0	null	null	0.0	WOCU
07/07/2004	0	null	null	0.0	WOCU
07/08/2004	0	null	null	0.0	WOCU
07/09/2004	0	null	null	0.0	WOCU
07/10/2004	0	null	null	0.0	WOCU
07/11/2004	0	null	null	0.0	WOCU
07/12/2004	0	null	null	0.0	WOCU
07/13/2004	0	null	null	0.0	WOCU
07/14/2004	0	null	null	0.0	WOCU
07/15/2004	0	null	null	0.0	WOCU
07/16/2004	0	null	null	0.0	TOC 544 PBDT 1198 Perf 1004-1030 spf 2
07/17/2004	0	null	null	0.0	SI WOFU
07/18/2004	0	null	null	0.0	SI WOFU
07/19/2004	0	null	null	0.0	SI WOFU
07/20/2004	0	null	null	0.0	SI WOFU
07/21/2004	0	83	null	0.0	N2FRAC 100k# SICP 2 hr & Flo to Pit 18/64"
07/22/2004	0	46	null	0.0	FCP on 18/64 Chk. No Fluid
07/23/2004	0	36	null	0.0	FCP. Dry Gas & Shut in
07/24/2004	0	null	null	0.0	WOPL, SI hrs: 24
07/25/2004	0	null	null	0.0	WOPL, SI hrs: 48
07/26/2004	0	null	null	0.0	WOPL, SI hrs: 72
07/27/2004	0	null	null	0.0	WOPL, SI hrs: 96
07/28/2004	0	null	null	0.0	WOPL, SI hrs: 120
07/29/2004	0	null	null	0.0	WOPL, SI hrs: 144
07/30/2004	0	null	null	0.0	WOPL, SI hrs: 168
07/31/2004	0	null	null	0.0	WOPL, SI hrs: 192
08/31/2004	0	null	null	0.0	WOPL, SI hrs: 936
09/20/2004	0	null	null	0.0	WOPL, SI hrs: 1416
09/21/2004	0	null	null	0.0	WOPL, SI hrs: 1440
09/22/2004	0	null	null	0.0	WOPL, SI hrs: 1464
09/23/2004	0	null	null	0.0	WOPL, SI hrs: 1488
09/24/2004	0	null	null	0.0	WOPL, SI hrs: 1512
09/25/2004	0	null	null	0.0	WOPL, SI hrs: 1536
09/26/2004	0	null	null	0.0	WOPL, SI hrs: 1560
09/27/2004	0	null	null	0.0	WOPL, SI hrs: 1584
09/28/2004	0	64	null	0.0	SI 1416 hrs. G-2 taken. Put on line
09/29/2004	19	58	null	15.0	
09/30/2004	26	56	null	24.0	
10/01/2004	26	55	null	24.0	
10/02/2004	26	54	null	24.0	
10/03/2004	25	53	null	24.0	
10/04/2004	20	58	null	24.0	
10/05/2004	12	51	null	24.0	
10/06/2004	22	51	null	24.0	
10/07/2004	24	50	null	24.0	
10/08/2004	23	50	null	24.0	
10/09/2004	23	50	null	24.0	
10/10/2004	23	49	null	24.0	
10/11/2004	23	48	null	24.0	
10/12/2004	22	48	null	24.0	
10/13/2004	22	48	null	24.0	
10/14/2004	22	47	null	24.0	
10/15/2004	22	47	null	24.0	
10/16/2004	21	46	null	24.0	
10/17/2004	21	46	null	24.0	
10/18/2004	21	46	null	24.0	
10/19/2004	0	null	null	0.0	SI
10/20/2004	18	46	null	12.0	
10/21/2004	22	46	null	24.0	
10/22/2004	21	46	null	24.0	
10/23/2004	21	46	null	24.0	
10/24/2004	21	45	null	24.0	
10/25/2004	21	44	null	24.0	
10/26/2004	21	44	null	24.0	
10/27/2004	20	44	null	24.0	
10/28/2004	20	44	null	24.0	
10/29/2004	20	44	null	24.0	
10/30/2004	40	38	null	24.0	
10/31/2004	40	38	null	24.0	

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Actual

**STASSER,D 01-09**

Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
11/01/2004	38	36	null	null	24.0
11/02/2004	40	33	null	null	24.0
11/03/2004	38	33	null	null	24.0
11/04/2004	37	32	null	null	24.0
11/05/2004	36	31	null	null	24.0
11/06/2004	35	31	null	null	24.0
11/07/2004	35	30	null	null	24.0
11/08/2004	35	30	null	null	24.0
11/09/2004	34	29	null	null	24.0
11/10/2004	34	28	null	null	24.0
11/11/2004	34	28	null	null	24.0
11/12/2004	33	28	null	null	24.0
11/13/2004	33	28	null	null	24.0
11/14/2004	33	27	null	null	24.0
11/15/2004	31	26	null	null	24.0
11/16/2004	31	26	null	null	24.0
11/17/2004	30	26	null	null	24.0
11/18/2004	30	26	null	null	24.0
11/19/2004	29	25	null	null	24.0
11/20/2004	29	25	null	null	24.0
11/21/2004	28	25	null	null	24.0
11/22/2004	28	25	null	null	24.0
11/23/2004	28	25	null	null	24.0
11/24/2004	28	25	null	null	24.0
11/25/2004	28	24	null	null	24.0
11/26/2004	28	25	null	null	24.0
11/27/2004	28	24	null	null	24.0
11/28/2004	28	24	null	null	24.0
11/29/2004	null	null	null	null	SI
11/30/2004	null	null	null	null	SI
12/01/2004	12	24	null	null	24.0
12/02/2004	12	24	null	null	24.0
12/03/2004	23	23	null	null	24.0
12/04/2004	24	23	null	null	24.0
12/05/2004	25	23	null	null	24.0
12/06/2004	25	23	null	null	24.0
12/07/2004	25	23	null	null	24.0
12/08/2004	25	23	null	null	24.0
12/09/2004	25	22	null	null	24.0
12/10/2004	25	22	null	null	24.0
12/11/2004	25	22	null	null	24.0
12/12/2004	25	22	null	null	24.0
12/13/2004	24	22	null	null	24.0
12/14/2004	24	22	null	null	24.0
12/15/2004	24	22	null	null	24.0
12/16/2004	24	22	null	null	24.0
12/17/2004	24	21	null	null	24.0
12/18/2004	24	21	null	null	24.0
12/19/2004	24	21	null	null	24.0
12/20/2004	31	17	null	null	24.0
12/21/2004	32	16	null	null	24.0
12/22/2004	32	16	null	null	24.0
12/23/2004	31	16	null	null	24.0
12/24/2004	28	18	null	null	21.0
12/25/2004	28	16	null	null	24.0
12/26/2004	28	15	null	null	24.0
12/27/2004	27	15	null	null	24.0
12/28/2004	27	15	null	null	24.0
12/29/2004	27	15	null	null	24.0
12/30/2004	27	15	null	null	24.0
12/31/2004	27	15	null	null	24.0
2004	2411	39	null	null	22.8 null