

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date: 9-21-04

API No. 15

20349  
~~20352~~-0000

Company <u>Rosewood Resources</u>		Lease <u>Schilders, D</u>		Well Number <u>2-3</u>	
County <u>Sherman</u>	Location <u>03</u>	TWP <u>7S</u>	RNG (E/W) <u>39 W</u>	Acres Attributed <u>80</u>	
Field <u>Goodland</u>		Reservoir <u>Niobrara</u>	Gas Gathering Connection <u>B.S.I</u>		
Completion Date <u>8-4-04</u>		Plug Back Total Depth <u>1204</u>	Packer Set at		
Casing Size <u>4.5"</u>	Weight <u>10.5</u>	Internal Diameter <u>4.052"</u>	Set at <u>1212</u>	Perforations <u>1020</u>	To <u>1046</u>
Tubing Size <u>N/A</u>	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe)		Type Fluid Production <u>Dry GAS</u>	Pump Unit or Traveling Plunger? <u>Flowing</u>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Producing Thru (Annulus / Tubing) <u>Annulus</u>		% Carbon Dioxide <u>0</u>	% Nitrogen <u>0</u>		Gas Gravity - G <sub>g</sub> <u>0.67</u>
Vertical Depth (H) <u>1216-1046</u>		Pressure Taps <u>FLANGE</u>	(Meter Run) (Prover) Size <u>2"</u>		
Pressure Buildup: Shut in	<u>8/7</u>	20 <u>04</u> at	<u>7</u> (AM) (PM) Taken	<u>9/21</u>	20 <u>04</u> at <u>7</u> (AM) (PM)
Started	<u>9/21</u>	20 <u>04</u> at	<u>4</u> (AM) (PM) Taken	<u>9/23</u>	20 <u>04</u> at <u>7</u> (AM) (PM)

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### OBSERVED SURFACE DATA

Duration of Shut-in 1080 Hours

Static / Dynamic Property	Circle one: Meter or Prover Pressure (inches)	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>63</u>	<u>77.4</u>				
Flow					<u>54</u>	<u>68.4</u>			<u>24</u>	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>c</sub> ) (F <sub>v</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>28</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>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: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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.

Rennis Harris  
Witness (if any)

Rosewood Resources  
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 D. Schield # 2-3 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 Lewis*  
Title: *Lease Eng.*

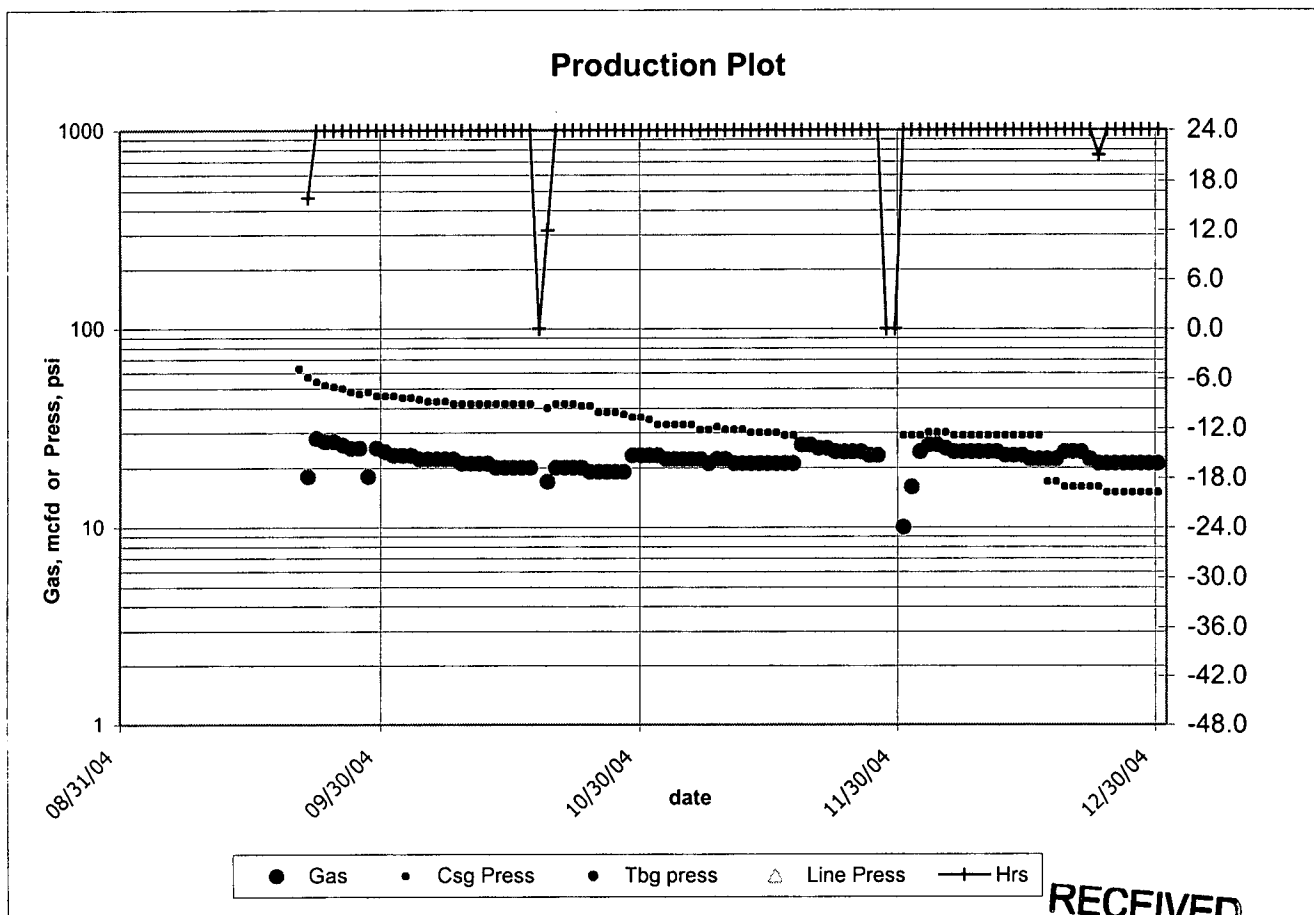
**Instructions:** If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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  
**SCHIELDS,D 02-03**

	<u>Gas</u>	<u>Csg Press</u>	<u>Tbg Press</u>	<u>Line Press</u>	<u>Hrs</u>	<u>Remarks</u>
2004/01						
2004/02						
2004/03						
2004/04						
2004/05						
2004/06						Spud, TD
2004/07	0	null	null	null	0.0	Perg
2004/08	0	null	null	null	0.0	Frac
2004/09	219	51.6	null	null	23.1	G-2 & 1st Sales
2004/10	625	41.5	null	null	23.6	
2004/11	633	28.8	null	null	24.0	
2004/12	690	23.1	null	null	23.9	
<b>TOTAL</b>	<b>2167</b>	<b>36.2</b>			<b>23.7</b>	



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Actual SCHIELDS,D 02-03					
Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
06/01/2004	null	null	null	null	
06/02/2004	null	null	null	null	
06/03/2004	null	null	null	null	
06/04/2004	null	null	null	null	
06/05/2004	null	null	null	null	
06/06/2004	null	null	null	null	
06/07/2004	null	null	null	null	
06/08/2004	null	null	null	null	
06/09/2004	null	null	null	null	
06/10/2004	null	null	null	null	
06/11/2004	null	null	null	null	
06/12/2004	null	null	null	null	
06/13/2004	null	null	null	null	
06/14/2004	null	null	null	null	
06/15/2004	null	null	null	null	
06/16/2004	null	null	null	null	
06/17/2004	null	null	null	null	
06/18/2004	null	null	null	null	
06/19/2004	null	null	null	null	
06/20/2004	null	null	null	null	
06/21/2004	null	null	null	null	
06/22/2004	null	null	null	null	
06/23/2004	null	null	null	null	
06/24/2004	null	null	null	null	
06/25/2004	null	null	null	null	
06/26/2004	null	null	null	null	
06/27/2004	null	null	null	null	
06/28/2004	null	null	null	null	SPUD set surf 369
06/29/2004	null	null	null	null	TD 1216 set 4.5" 10.5# Prd Csg @ 1212
06/30/2004	null	null	null	null	WOCU
07/16/2004	0	null	null	null	PBTD 1204 Perf 1020-1046 spf2
07/17/2004	0	null	null	null	Orifice Tstr 1/8" lite blow. Left open
7/27/2004					SI BHP Test start ** Pre-Frac **
07/31/2004	0	null	null	null	SI BHP test-day 4
08/01/2004	0	null	null	null	SI BHP test-day 5
08/02/2004	0	null	null	null	SI BHP test-day 6-End P*=78 k=.602md S=8.3
08/03/2004	0	null	null	null	WOFU
08/04/2004	0	null	null	null	N2 FRAC 50k# SICP 2 hr & Flo to Pit 18/64"
08/05/2004	0	43	null	null	FCP 18/64 Chk Lite mist
08/06/2004	0	26	null	null	FCP 24/64 Chk DryG
08/07/2004	0	20	null	null	FCP Dry Gas & SI
08/08/2004	0	null	null	null	SI 24 hrs. WOPL
08/09/2004	0	null	null	null	SI 48 hrs. WOPL
08/10/2004	0	null	null	null	SI 72 hrs. WOPL
08/31/2004	0	null	null	null	SI 576 hrs. WOPL
09/21/2004	0	63	null	null	SI 1080 hrs. G-2 taken. Put on line 4 pm
09/22/2004	18	57	null	null	16.0
09/23/2004	28	54	null	null	24.0
09/24/2004	27	52	null	null	24.0
09/25/2004	27	51	null	null	24.0
09/26/2004	26	50	null	null	24.0
09/27/2004	25	48	null	null	24.0
09/28/2004	25	47	null	null	24.0
09/29/2004	18	48	null	null	24.0
09/30/2004	25	46	null	null	24.0
10/01/2004	24	46	null	null	24.0
10/02/2004	23	46	null	null	24.0
10/03/2004	23	45	null	null	24.0
10/04/2004	23	45	null	null	24.0
10/05/2004	22	44	null	null	24.0
10/06/2004	22	43	null	null	24.0
10/07/2004	22	43	null	null	24.0
10/08/2004	22	43	null	null	24.0
10/09/2004	22	42	null	null	24.0
10/10/2004	21	42	null	null	24.0
10/11/2004	21	42	null	null	24.0
10/12/2004	21	42	null	null	24.0
10/13/2004	21	42	null	null	24.0
10/14/2004	20	42	null	null	24.0
10/15/2004	20	42	null	null	24.0
10/16/2004	20	42	null	null	24.0
10/17/2004	20	42	null	null	24.0
10/18/2004	20	42	null	null	24.0
10/19/2004	0	null	null	null	0.0
10/20/2004	17	40	null	null	12.0
10/21/2004	20	42	null	null	24.0

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Actual					
SCHIELDS,D 02-03					
Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
10/22/2004	20	42	null	null	24.0
10/23/2004	20	42	null	null	24.0
10/24/2004	20	41	null	null	24.0
10/25/2004	19	41	null	null	24.0
10/26/2004	19	38	null	null	24.0
10/27/2004	19	38	null	null	24.0
10/28/2004	19	38	null	null	24.0
10/29/2004	19	37	null	null	24.0
10/30/2004	23	36	null	null	24.0
10/31/2004	23	36	null	null	24.0
11/01/2004	23	35	null	null	24.0
11/02/2004	23	33	null	null	24.0
11/03/2004	22	33	null	null	24.0
11/04/2004	22	33	null	null	24.0
11/05/2004	22	33	null	null	24.0
11/06/2004	22	33	null	null	24.0
11/07/2004	22	31	null	null	24.0
11/08/2004	21	31	null	null	24.0
11/09/2004	22	32	null	null	24.0
11/10/2004	22	31	null	null	24.0
11/11/2004	21	31	null	null	24.0
11/12/2004	21	31	null	null	24.0
11/13/2004	21	30	null	null	24.0
11/14/2004	21	30	null	null	24.0
11/15/2004	21	30	null	null	24.0
11/16/2004	21	30	null	null	24.0
11/17/2004	21	29	null	null	24.0
11/18/2004	21	29	null	null	24.0
11/19/2004	26	25	null	null	24.0
11/20/2004	26	25	null	null	24.0
11/21/2004	25	25	null	null	24.0
11/22/2004	25	24	null	null	24.0
11/23/2004	24	24	null	null	24.0
11/24/2004	24	24	null	null	24.0
11/25/2004	24	24	null	null	24.0
11/26/2004	24	24	null	null	24.0
11/27/2004	23	23	null	null	24.0
11/28/2004	23	23	null	null	24.0
11/29/2004	null	null	null	null	null
11/30/2004	null	null	null	null	null
12/01/2004	10	29	null	null	24.0
12/02/2004	16	29	null	null	24.0
12/03/2004	24	29	null	null	24.0
12/04/2004	26	30	null	null	24.0
12/05/2004	26	30	null	null	24.0
12/06/2004	25	30	null	null	24.0
12/07/2004	24	29	null	null	24.0
12/08/2004	24	29	null	null	24.0
12/09/2004	24	29	null	null	24.0
12/10/2004	24	29	null	null	24.0
12/11/2004	24	29	null	null	24.0
12/12/2004	24	29	null	null	24.0
12/13/2004	23	29	null	null	24.0
12/14/2004	23	29	null	null	24.0
12/15/2004	23	29	null	null	24.0
12/16/2004	22	29	null	null	24.0
12/17/2004	22	29	null	null	24.0
12/18/2004	22	17	null	null	24.0
12/19/2004	22	17	null	null	24.0
12/20/2004	24	16	null	null	24.0
12/21/2004	24	16	null	null	24.0
12/22/2004	24	16	null	null	24.0
12/23/2004	22	16	null	null	24.0
12/24/2004	21	16	null	null	21.0
12/25/2004	21	15	null	null	24.0
12/26/2004	21	15	null	null	24.0
12/27/2004	21	15	null	null	24.0
12/28/2004	21	15	null	null	24.0
12/29/2004	21	15	null	null	24.0
12/30/2004	21	15	null	null	24.0
12/31/2004	21	15	null	null	24.0
2004	2167	36	null	null	23.7