

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date: 8-4-04

API No. 15 - 181-20344-0000

Company <u>Rosewood Resources</u>		Lease <u>BERRINGER</u>			Well Number <u>1-35</u>	
County <u>Sherman</u>	Location <u>NE-SE</u>	Section <u>35</u>	TWP <u>8S</u>	RNG (E/W) <u>40W</u>	Acres Attributed <u>80</u>	
Field <u>Goodland</u>		Reservoir <u>NIORARA</u>	Gas Gathering Connection <u>B.S.I. (WOPL)</u>			
Completion Date <u>7-23-04</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>1198</u>	Perforations <u>1012</u>	To <u>1032</u>	
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To	

Type Completion (Describe) <u>SINGLE (vertical)</u>	Type Fluid Production <u>GAS/WTR</u>	Pump Unit or Traveling Plunger? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Producing Thru (Annulus / Tubing) <u>Annulus</u>	% Carbon Dioxide <u>1.05</u>	% Nitrogen <u>21.4</u>
Vertical Depth(H) <u>1032</u>	Pressure Taps <u>FLANGE</u>	Gas Gravity - G <sub>g</sub> <u>0.658</u>
		(Meter Run) (Prover) Size <u>2"</u>
Pressure Buildup: Shut in <u>7-25</u> 20 <u>04</u> at <u>8</u> (AM) (PM) Taken <u>8-4</u> 20 <u>04</u> at <u>8</u> (AM) (PM)		
Well on Line: Started _____ 20__ at _____ (AM) (PM) Taken _____ 20__ at _____ (AM) (PM)		

### OBSERVED SURFACE DATA

Duration of Shut-in 216 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>65</u>	<u>56</u>	<u>70.4</u>				<u>1</u>
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</sub> ) (F <sub>a</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 $\frac{R}{Mscf}$	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						<b>RECEIVED</b>		
						<b>JAN 24 2005</b>		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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(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>s</sub>)<sup>2</sup> = 0.207 (P<sub>g</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>g</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 $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 15 day of JAN, 2005.

\_\_\_\_\_  
Witness (if any)

[Signature]  
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 Roseward 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 Berringe 1-35 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: 1/15/05

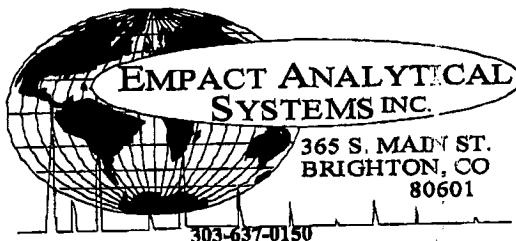
Signature: Dennis Harris

Title: Reservoir 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.



**NATURAL GAS ANALYSIS**

PROJECT NO. : 0408024 ANALYSIS NO. : 03  
 COMPANY NAME : CABLE INC ANALYSIS DATE: AUGUST 5, 2004  
 ACCOUNT NO. : SAMPLE DATE : AUGUST 4, 2004  
 PRODUCER : TO:  
 LEASE NO. : 1-35 CYLINDER NO. : 2 (RED)  
 NAME/DESCRIP : ROSEWOOD RESOURCES  
 BERRINGER

\*\*\*FIELD DATA\*\*\*

SAMPLED BY : M KENNEY AMBIENT TEMP.:  
 SAMPLE PRES. : 56 PSIG GRAVITY :  
 SAMPLE TEMP. : 65 F VAPOR PRES. :  
 COMMENTS : SAMPLED AT WELLHEAD; NO PROBE  
 SAMPLE @ ~ATMOSPHERIC PRESS. --EMPACT

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.06	-	-
HYDROGEN	0.13	-	-
OXYGEN/ARGON	0.06	-	-
NITROGEN	21.40	-	-
CO2	1.05	-	-
METHANE	76.46	-	-
ETHANE	0.71	0.189	0.190
PROPANE	0.05	0.014	0.014
ISOBUTANE	0.02	0.007	0.007
N-BUTANE	0.03	0.009	0.010
ISOPENTANE	0.01	0.004	0.004
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.01	0.004	0.004
<b>TOTAL</b>	<b>100.00</b>	<b>0.230</b>	<b>0.231</b>

BTU @ 60 DEG F  
 GROSS DRY REAL = 14.65 14.73  
 GROSS WET REAL = 788.2 792.5  
 774.4 778.7

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) : 0.6580

COMPRESSIBILITY FACTOR : 0.99847

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

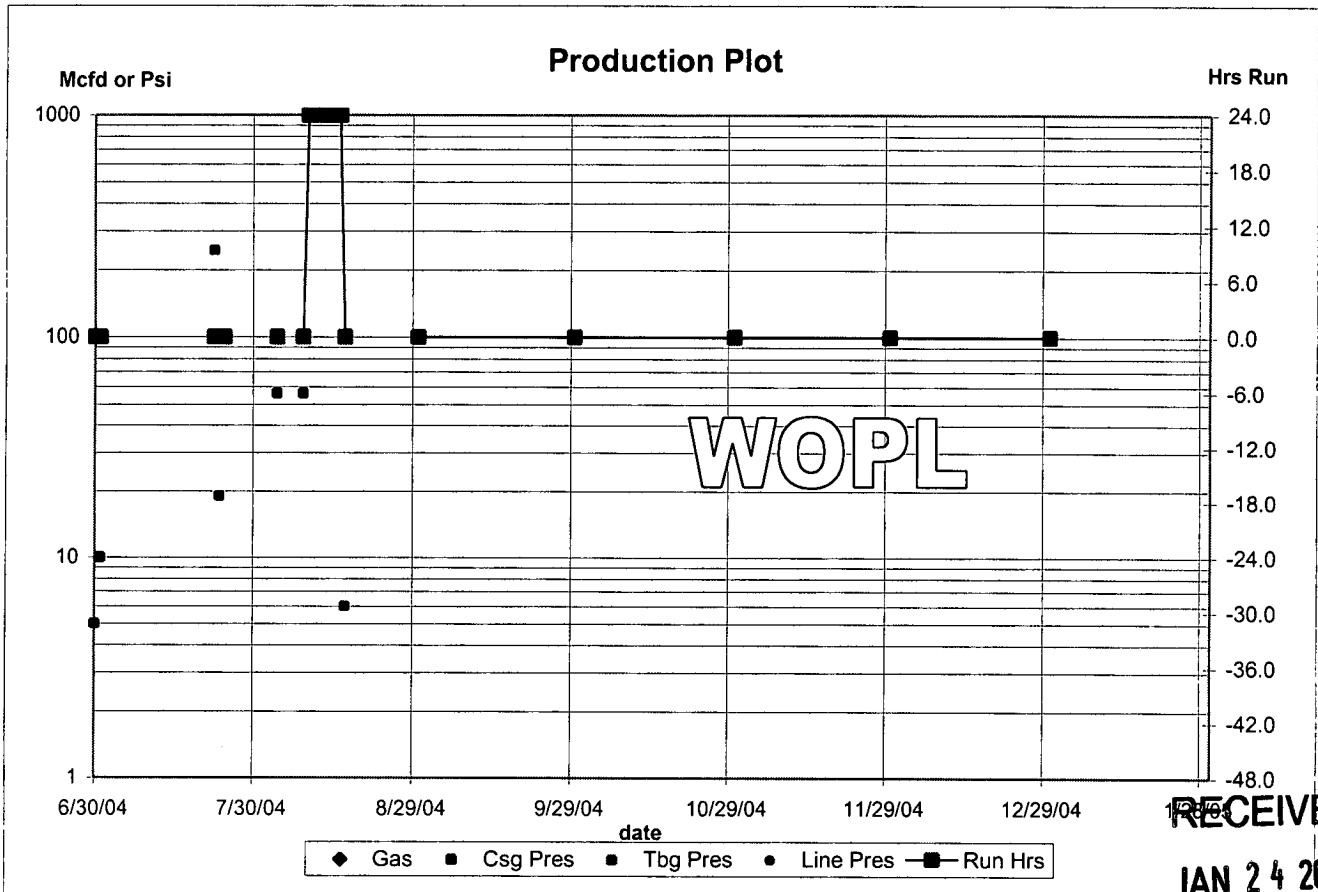
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Actual  
Berringer 1-35

	<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		52.0				Frac, Gas Anal., SICP G-2 taken
2004/08						Flow & SI testing
2004/09						SI WOPL, Hrs: 1056
2004/10						SI WOPL, Hrs: 1800
2004/11						SI WOPL, Hrs: 2520
2004/12						SI WOPL, Hrs: 3264
<b>TOTAL</b>					<b>3264</b>	Shutin Hours

**Not in Essbase**

As of 01/16/2005 SI WOPL hrs = 4560



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Actual

**Berringer 1-35**

Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
06/01/2004					Spud 9:00pm Set Surf Csg 366 & WOC
06/02/2004					TD 1201 set 4.5" 10.5# Prd Csg @ 1198
06/03/2004					WOCU, day 1
06/04/2004					WOCU, day 2
06/05/2004					WOCU, day 3
06/23/2004					WOCU, day 21
06/24/2004					WOCU, day 22
06/25/2004					<b>TOC 440 PBDT 1198 Perf 1000-1032 spf 2</b>
06/26/2004					Open. Well dead-No Gas.
06/27/2004					No Gas. Shut In.
06/28/2004					SI. No Gas.
06/29/2004		1.4		0.0	SICP
06/30/2004		5.0		0.0	SICP
07/01/2004		10.0		0.0	SICP
07/02/2004					SI Hrs: 120 WOFU
07/03/2004					SI Hrs: 144 WOFU
07/04/2004					SI Hrs: 168 WOFU
07/05/2004					SI Hrs: 192 WOFU
07/06/2004					SI Hrs: 216 WOFU
07/07/2004					SI Hrs: 240 WOFU
07/08/2004					SI Hrs: 264 WOFU
07/09/2004					SI Hrs: 288 WOFU
07/10/2004					SI Hrs: 312 WOFU
07/11/2004					SI Hrs: 336 WOFU
07/12/2004					SI Hrs: 360 WOFU
07/13/2004					SI Hrs: 384 WOFU
07/14/2004					SI Hrs: 408 WOFU
07/15/2004					SI Hrs: 432 WOFU
07/16/2004					SI Hrs: 456 WOFU
07/17/2004					SI Hrs: 480 WOFU
07/18/2004					SI Hrs: 504 WOFU
07/19/2004					SI Hrs: 528 WOFU
07/20/2004					SI Hrs: 552 WOFU
07/21/2004					SI Hrs: 576 WOFU
07/22/2004					SI Hrs: 600 WOFU
07/23/2004		246		0.0	<b>N2FRAC</b> 100k# SICP 2.5 hr & Flo to Pit 22/64"
07/24/2004		19			FCP on 22/64 Chk. No Fluid
07/25/2004				0.0	<b>Shut in Well</b>
07/26/2004					SI Hrs: 24
07/27/2004					SI Hrs: 48
07/28/2004					SI Hrs: 72
07/29/2004					SI Hrs: 96
07/30/2004					SI Hrs: 120
07/31/2004					SI Hrs: 144
08/01/2004					SI Hrs: 168
08/02/2004					SI Hrs: 192
08/03/2004					SI Hrs: 216
08/04/2004		56		0.0	<b>SICP, Gas Sample &amp; G-2 taken</b>
08/05/2004					SI Hrs: 264
08/06/2004					SI Hrs: 288
08/07/2004					SI Hrs: 312
08/08/2004					SI Hrs: 336
08/09/2004		56		0.0	<b>Sicp Hrs: 360. Open well to pit on 24/64</b>
08/10/2004				24.0	Flow to pit 24/64 chk
08/11/2004				24.0	Flow to pit 24/64 chk
08/12/2004				24.0	Flow to pit 24/64 chk
08/13/2004				24.0	Flow to pit 24/64 chk
08/14/2004				24.0	Flow to pit 24/64 chk
08/15/2004				24.0	Flow to pit 24/64 chk
08/16/2004				24.0	Flow to pit 24/64 chk
08/17/2004		6		0.0	<b>FCP. Shut In.</b>
08/18/2004					SI WOPL, Hrs: 24
08/19/2004					SI WOPL, Hrs: 48
08/20/2004					SI WOPL, Hrs: 72
08/21/2004					SI WOPL, Hrs: 96
08/31/2004				0.0	SI WOPL, Hrs: 336
09/30/2004				0.0	SI WOPL, Hrs: 1056
10/31/2004				0.0	SI WOPL, Hrs: 1800
11/30/2004				0.0	SI WOPL, Hrs: 2520
12/31/2004				0.0	SI WOPL, Hrs: 3264
2004					

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JAN 24 2005

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01/16/2005

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