

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date: 10-13-04 API No. 15 - 181-20357-0000

Company <u>Rosewood Resources</u>		Lease <u>Berringer</u>		Well Number <u>2-35</u>	
County <u>Sherman</u>	Location <u>NE-SW</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>NIOBRARA</u>	Gas Gathering Connection <u>BSI (WOPL)</u>		
Completion Date <u>10-1-04</u>		Plug Back Total Depth <u>1190</u>	Packer Set at		
Casing Size <u>2-7/8</u>	Weight <u>6.5</u>	Internal Diameter <u>2.441</u>	Set at <u>1290</u>	Perforations <u>1018</u>	To <u>1087</u>
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) <u>Single (vertical)</u>	Type Fluid Production <u>Gas</u>	Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No
Producing Thru (Annulus / Tubing) <u>Annulus</u>	% Carbon Dioxide <u>0.0</u>	% Nitrogen <u>3.4</u>
Vertical Depth(H) <u>1087</u>	Pressure Taps <u>FLANGE</u>	Gas Gravity - G <sub>g</sub> <u>0.573</u>
Pressure Buildup: Shut in <u>10-3</u> 20 <u>04</u> at <u>8</u> (AM) (PM) Taken <u>10-13</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 240 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>60</u>	<u>55</u>	<u>69.4</u>				<u>Trace</u>
Flow											

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### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>s</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 (Mcf/d)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(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>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 (Mcf/d)

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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 JAN, 2005.

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

Dennis Harris  
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 Berringer 2-35 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.

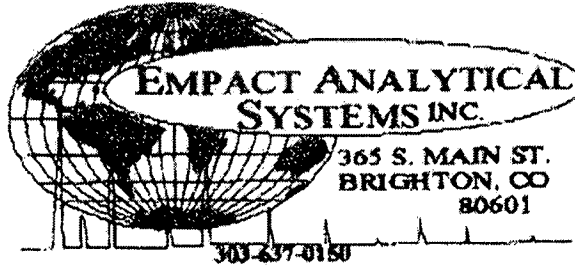
Date: 1/14/05

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. :	<b>0408071</b>	ANALYSIS NO. :	<b>05</b>
COMPANY NAME :	<b>CABLE INC</b>	ANALYSIS DATE:	<b>AUGUST 18, 2004</b>
ACCOUNT NO. :		SAMPLE DATE :	<b>AUGUST 17, 2004</b>
PRODUCER :		TO:	
LEASE NO. :	<b>2-35</b>	CYLINDER NO. :	<b>3</b>
NAME/DESCRIP :	<b>ROSEWOOD RESOURCES BERRINGER</b>		

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

SAMPLED BY :	<b>M KENNEY</b>	AMBIENT TEMP.:	
SAMPLE PRES. :	<b>55 PSIG</b>	GRAVITY :	
SAMPLE TEMP. :	<b>60 F</b>	VAPOR PRES. :	
COMMENTS :	<b>SAMPLED OFF WELLHEAD NO PROBE</b>		

<u>COMPONENTS</u>	<u>NORM. MOLE%</u>	<u>GPM @ 14.65</u>	<u>GPM @ 14.73</u>
HELIUM	0.07	-	-
HYDROGEN	0.12	-	-
OXYGEN/ARGON	0.04	-	-
NITROGEN	3.40	-	-
CO2	0.00	-	-
METHANE	95.48	-	-
ETHANE	0.79	0.210	0.211
PROPANE	0.04	0.011	0.011
ISOBUTANE	0.02	0.007	0.007
N-BUTANE	0.02	0.006	0.006
ISOPENTANE	0.01	0.004	0.004
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.00	0.000	0.000
<b>TOTAL</b>	<b>100.00</b>	<b>0.241</b>	<b>0.242</b>

BTU @ 60 DEG F	<b>14.65</b>	<b>14.73</b>
GROSS DRY REAL =	<b>980.6</b>	<b>986.0</b>
GROSS WET REAL =	<b>963.5</b>	<b>968.8</b>

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) : **0.5733**

COMPRESSIBILITY FACTOR : **0.99808**

NOTE: REFERENCE GPA 2361(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

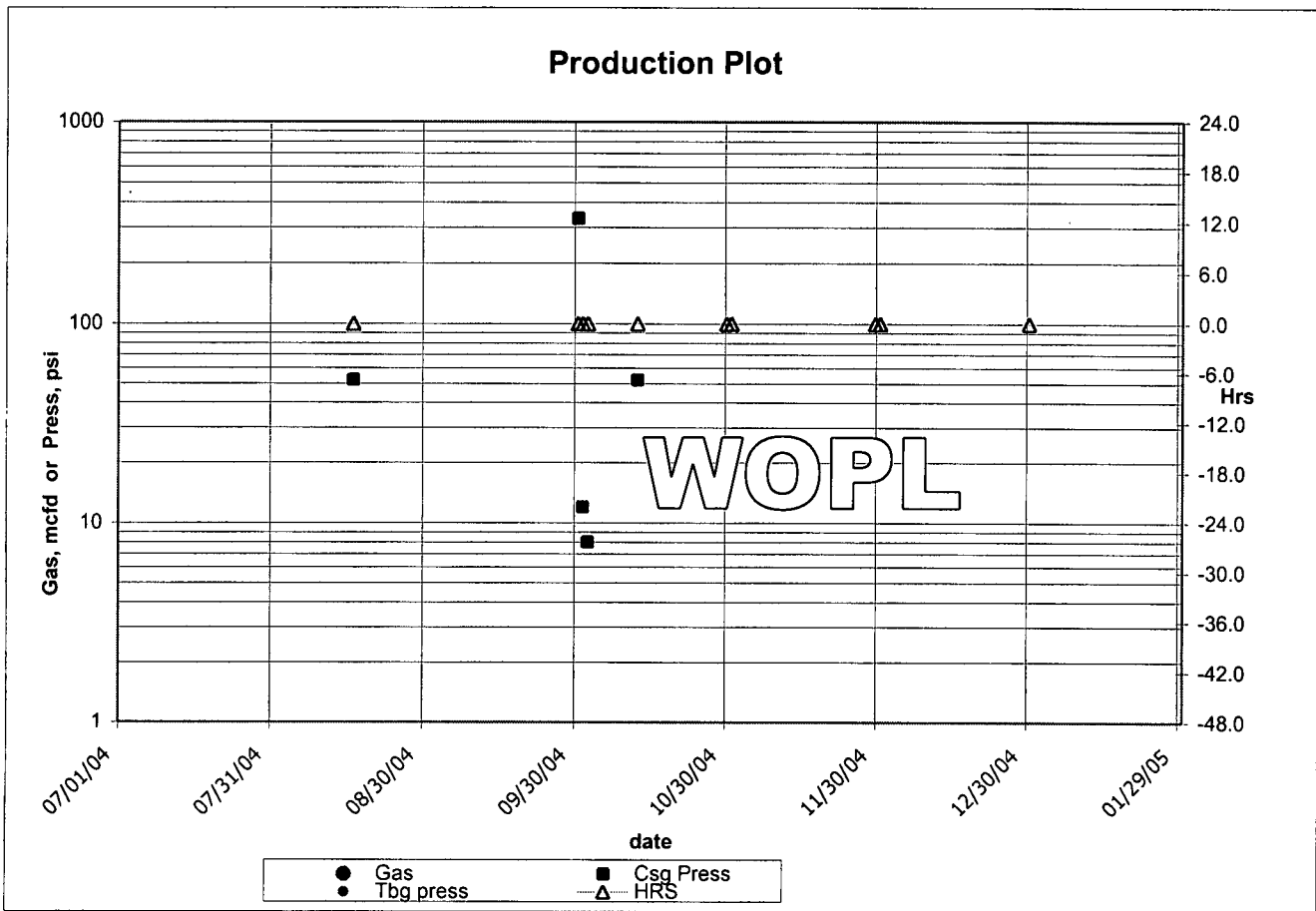
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Actual  
Berringer 2-35

	<u>Gas</u>	<u>Csq 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						
2004/07						Spud & TD
2004/08						SI WOFU, SI hrs: 432
2004/09						SI WOFU, SI hrs: 1152
2004/10		52.0				Frac, Gas Anal., SICP G-2 taken
2004/11						WOPL, SI hrs: 1392
2004/12						WOPL, SI hrs: 2136
<b>TOTAL</b>					2136	Shutin Hours

**Not in Essbase**

As of 01/16/2005 SI WOPL hrs = 3216



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Actual

**Berringer 2-35**

Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
07/01/2004					
07/02/2004					
07/03/2004					
07/04/2004					
07/05/2004					
07/06/2004					
07/07/2004					
07/08/2004					
07/09/2004					
07/10/2004					
07/11/2004					
07/12/2004					
07/13/2004					Spud 7:00am Set Surf Csg 350 & WOC
07/14/2004					WOCTDR, day 1
07/15/2004					WOCTDR, day 2
07/16/2004					WOCTDR, day 3
07/17/2004					WOCTDR, day 4
07/18/2004					WOCTDR, day 5
07/19/2004					WOCTDR, day 6
07/20/2004					WOCTDR, day 7
07/27/2004					WOCTDR, day 14
07/28/2004					WOCTDR, day 15
07/29/2004					WOCTDR, day 16
07/30/2004					WOCTDR, day 17
<b>07/31/2004</b>					<b>TD 1245 set 2-7/8" 6.5# Prd Csg @ 1219</b>
08/01/2004					WOCU, day 1
08/02/2004					WOCU, day 2
08/03/2004					WOCU, day 3
08/04/2004					WOCU, day 4
08/05/2004					WOCU, day 5
08/06/2004					WOCU, day 6
08/07/2004					WOCU, day 7
08/12/2004					WOCU, day 12
08/13/2004					TOC PBTB 1190 Perf 1018-1087spf 2 & SI
08/14/2004					SI WOFU, SI hrs: 24
08/15/2004					SI WOFU, SI hrs: 48
08/16/2004					SI WOFU, SI hrs: 72
08/17/2004		<b>55</b>		0.0	<b>SICP. WOFU, SI hrs: 96 Gas Sample</b>
08/18/2004					SI WOFU, SI hrs: 120
08/19/2004					SI WOFU, SI hrs: 144
08/20/2004					SI WOFU, SI hrs: 168
08/21/2004					SI WOFU, SI hrs: 192
<b>08/31/2004</b>					SI WOFU, SI hrs: 432
09/01/2004					SI WOFU, SI hrs: 456
<b>09/30/2004</b>					SI WOFU, SI hrs: 1152
10/01/2004		332		0.0	<b>N2FRAC 100k# SICP 1.75 hr &amp; Flo to Pit 24/64"</b>
10/02/2004		12		0.0	FCP w/ Dry Gas. No Fluid.
10/03/2004		8		0.0	FCP w/ Dry Gas. Shut In.
10/04/2004					WOPL, SI hrs: 24
10/05/2004					WOPL, SI hrs: 48
10/06/2004					WOPL, SI hrs: 72
10/07/2004					WOPL, SI hrs: 96
10/13/2004		<b>52</b>		0.0	<b>WOPL, SI hrs: 240 G-2 taken</b>
10/14/2004					WOPL, SI hrs: 264
<b>10/31/2004</b>				0.0	WOPL, SI hrs: 672
11/01/2004				0.0	WOPL, SI hrs: 696
<b>11/30/2004</b>				0.0	WOPL, SI hrs: 1392
12/01/2004				0.0	WOPL, SI hrs: 1416
<b>12/31/2004</b>				0.0	WOPL, SI hrs: 2136
2004					

**Not in Essbase**

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01/16/2005 As of 01/16/2005 SI-WOPL hrs = 3216