

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

Type Test:

Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
8/11/2009

API No. 15  
023-20555-00 **00**

Company Rosewood Resources, Inc.		Lease R. Moore		Well Number 6-28	
County Cheyenne	Location SESW	Section 28	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-15-2004		Plug Back Total Depth 1816'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1821'	Perforations 1632'	To 1664'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1664'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 8-10 20 09 at 1:40 (AM) <input checked="" type="checkbox"/> (PM)		Taken 8-11 20 09 at 1:55 (AM) <input checked="" type="checkbox"/> (PM)			
Well on Line: Started 8-11 20 09 at 1:55 (AM) <input checked="" type="checkbox"/> (PM)		Taken 8-12 20 09 at 2:40 (AM) <input checked="" type="checkbox"/> (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in 24 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>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						60	74.4				
Flow						180	194.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						33		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</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>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 (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 20 day of November, 20 09.

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

*Tom W. Raetz*  
\_\_\_\_\_  
For Company

RECEIVED  
KANSAS CORPORATION COMMISSION  
NOV 30 2009  
\_\_\_\_\_  
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, Inc. 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.

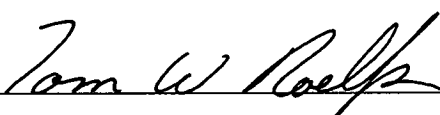
I hereby request a one-year exemption from open flow testing for the R. Moore 6-28 gas well on the grounds that said well:

(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: 11/20/09

Signature:   
Title: Production Foreman

**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.

RECEIVED  
KANSAS CORPORATION COMMISSION

NOV 30 2009

CONSERVATION DIVISION  
WICHITA, KS

W359  
R. Moore 6-28  
West St. Francis  
St. Francis  
Pumping Unit/Elec  
August-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2009			61	33	5.5	22.5	0	27	
8/2/2009			61	33	5.5	22.5	0	28	
8/3/2009			78	33	5.5	22.5	0	27	
8/4/2009			78	33	5.5	22.5	0	26	
8/5/2009			81	33	5.5	22.5	0	27	
8/6/2009			84	33	5.5	22.5	0	28	
8/7/2009			83	33	5.5	22.5	0	27	
8/8/2009			83	33	5.5	22.5	0	26	
8/9/2009			84	33	0	0	0	27	PU OFF
8/10/2009			78	30	0	0	0	0	
8/11/2009		60	78	30	0	0	0	0	shut in for test
8/12/2009		180	70	7	0	0	0	0	open
8/13/2009			85	40	0	0	0	0	
8/14/2009			103	35	0	0	0	0	
8/15/2009			61	30	5.5	22.5	0	0	started pump
8/16/2009			59	31	0	0	0	27	shut pump off hfp
8/17/2009			140	31	0	0	0	0	
8/18/2009			136	31	0	0	0	0	
8/19/2009			141	26	0	0	0	0	
8/20/2009			58	26	5.5	22.5	0	0	started pump
8/21/2009			56	30	5.5	22.5	0	25	
8/22/2009			56	31	5.5	22.5	4	24	
8/23/2009			108	32	5.5	22.5	0	14	PU OFF
8/24/2009			113	30	0	0	0	0	
8/25/2009			100	24	0	0	4	0	
8/26/2009			55	25	5.5	22.5	0	0	started pump
8/27/2009			54	28	5.5	22.5	0	27	
8/28/2009			55	28	5.5	22.5	0	28	
8/29/2009			125	32	5.5	22.5	0	27	
8/30/2009			83	32	5.5	22.5	3	28	
8/31/2009			81	32	5.5	22.5	0	27	

Total

938

470

RECEIVED  
KANSAS CORPORATION COMMISSION  
NOV 30 2009  
CONSERVATION DIVISION  
WICHITA, KS

W359  
R. Moore 6-28  
West St. Francis  
St. Francis  
Pumping Unit/Elec  
September-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs
9/1/2009		0	81	33	5.5	22.5	0	27
9/2/2009		0	79	34	5.5	22.5	0	25
9/3/2009		0	58	34	5.5	22.5	0	26
9/4/2009		0	95	33	5.5	22.5	6	27
9/5/2009		0	83	35	5.5	22.5	0	26
9/6/2009		0	79	34	5.5	22.5	0	27
9/7/2009		0	79	35	5.5	22.5	0	26
9/8/2009		0	79	35	5.5	22.5	0	25
9/9/2009		0	59	35	5.5	22.5	0	26
9/10/2009		0	57	35	5.5	22.5	0	27
9/11/2009		0	54	35	5.5	22.5	0	26
9/12/2009		0	53	35	5.5	22.5	0	25
9/13/2009		0	64	34	5.5	22.5	0	26
9/14/2009		0	78	35	5.5	22.5	0	27
9/15/2009		0	78	35	5.5	22.5	0	26
9/16/2009		0	61	35	5.5	22.5	0	25
9/17/2009		0	53	35	5.5	22.5	0	24
9/18/2009		0	52	35	5.5	22.5	0	23
9/19/2009		0	62	34	5.5	22.5	0	23
9/20/2009		0	77	34	5.5	22.5	0	24
9/21/2009		0	77	34	5.5	22.5	0	23
9/22/2009		0	76	34	5.5	22.5	0	22
9/23/2009		0	56	35	0	0	0	24
9/24/2009		0	67	34	0	0	0	0
9/25/2009		0	100	29	0	0	6	0
9/26/2009		0	123	28	0	0	0	0
9/27/2009		0	104	25	0	0	0	0
9/28/2009		0	96	24	0	0	0	0
9/29/2009		0	77	23	0	0	0	0
9/30/2009		0	97	21	0	0	8	0
10/1/2009		0	0	0	0	0	0	0

Total

977

580

RECEIVED  
KANSAS CORPORATION COMMISSION

NOV 30 2009

CONSERVATION DIVISION  
WICHITA, KS

W359  
 R. Moore 6-28  
 West St. Francis  
 St. Francis  
 Pumping Unit/Elec  
 October-09

DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs
10/1/2009		0	122	22	0 0		0	0
10/2/2009		0	98	21	0 0		0	0
10/3/2009		0	86	21	0 0		0	0
10/4/2009		0	82	20	0 0		1	0
10/5/2009		0	67	20	0 0		0	0
10/6/2009		0	80	20	0 0		0	0
10/7/2009		0	69	22	5.5 22.5		0	20
10/8/2009		0	90	26	0 0		0	0
10/9/2009		0	94	24	0 0		0	0
10/10/2009		0	86	16	0 0		0	0
10/11/2009		0	80	20	0 0		0	0
10/12/2009		0	76	19	0 0		0	0
10/13/2009		0	77	19	0 0		0	0
10/14/2009		0	78	18	0 0		0	0
10/15/2009		0	85	18	0 0		0	0
10/16/2009		0	100	18	0 0		2.5	0
10/17/2009		0	65	18	0 0		0	0
10/18/2009		0	63	18	0 0		0	0
10/19/2009		0	70	17	0 0		0	0
10/20/2009		0	73	17	0 0		0	0
10/21/2009		0	65	17	0 0		0	0
10/22/2009		0	64	17	0 0		0	0
10/23/2009		0	63	17	0 0		0	0
10/24/2009		0	65	17	0 0		0	0
10/25/2009		0	69	16	0 0		0	0
10/26/2009		0	63	16	0 0		0	0
10/27/2009		0	62	16	0 0		0	0
10/28/2009		0	65	16	0 0		0	0
10/29/2009		0	65	16	0 0		0	0
10/30/2009		0	69	16	0 0		0	0
10/31/2009		0	69	16	0 0		0	0

Total

574

20

RECEIVED  
 KANSAS CORPORATION COMMISSION

NOV 30 2009

CONSERVATION DIVISION  
 WICHITA, KS