

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

Type Test:

- Open Flow  **SI**  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
8/14/2012

API No. 15  
023-20555-0000

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 Gas Gravity - G <sub>g</sub> .6	
Vertical Depth(H) 1664'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in		8-13	20 12	at 1:40	(AM) (PM) Taken 8-14
Well on Line: Started		8-14	20 12	at 1:55	(AM) (PM) Taken 8-15

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### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P <sub>m</sub> )	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						175	189.4				
Flow						30	44.4			24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</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>
						21		

### (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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 19 day of December, 20 12

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

  
For Company

\_\_\_\_\_  
Checked by

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Form G-2  
(Rev. 7/03)

JAN 03 2013

KCC WICHITA

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: 12/19/12

Signature:   
Title: Production Assistant

**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.

W359  
 R. Moore 6-28  
 West St. Francis  
 St. Francis  
 Pumping Unit/Elec  
 August-12

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DATE	Tubing Casing		STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2012		32	45	18	5.5	12	10	
8/2/2012		32	45	18	5.5	12	11	
8/3/2012		33	46	19	5.5	12	12	
8/4/2012		52	65	18	5.5	12	9	
8/5/2012		55	68	18	5.5	12	11	
8/6/2012		46	59	19	5.5	12	11	
8/7/2012		37	50	19	5.5	12	10	
8/8/2012		37	50	19	5.5	12	9	
8/9/2012		35	48	19	5.5	12	10	bucket test 9 min
8/10/2012		33	46	19	5.5	12	9	
8/11/2012		64	77	19	5.5	12	1.5	8
8/12/2012		35	48	19	5.5	12	9	
8/13/2012		32	45	19	5.5	6		5 shut well into for state test psi 32
8/14/2012		175	42	0	5.5	6	24	5 open well psi 175 and started pumping
8/15/2012		30	53	30	5.5	12		10 bucket test 9 min
8/16/2012		29	42	24	5.5	12		11
8/17/2012		34	47	23	5.5	12		10
8/18/2012		33	46	22	5.5	12		12
8/19/2012		32	45	22	5.5	12		11
8/20/2012		32	45	22	5.5	6		5 pu off, wsf down
8/21/2012		30	43	20	5.5	5		6 started pumping unit
8/22/2012		30	43	20	5.5	12		12
8/23/2012		28	41	21	5.5	12		11
8/24/2012		29	42	21	5.5	12		10 bucket test 9 min
8/25/2012		29	42	21	5.5	12		11
8/26/2012		33	46	21	5.5	12		12
8/27/2012		33	46	21	5.5	12		11
8/28/2012		39	52	21	5.5	12		10
8/29/2012		35	48	21	5.5	12		11
8/30/2012		34	47	21	5.5	12		10 bucket test 9 min
8/31/2012		35	48	21	5.5	12		10

Total

615

302

W359

R. Moore 6-28

West St. Francis

St. Francis

Pumping Unit/Elec

September-12

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DATE	Tubing Casing		STATIC	MCF	SPM	CYCLE	HRS	Water	REMARKS
	PSI	PSI							
9/1/2012		35	48	21	5.5	12		10	
9/2/2012		35	48	21	5.5	12		12	
9/3/2012		35	48	21	5.5	12		11	
9/4/2012		34	47	21	5.5	12		10	
9/5/2012		67	80	20	5.5	12	1	11	
9/6/2012		35	48	21	5.5	12		12	shut pumping unit off hfp
9/7/2012		148	161	17	5.5	0	19	0	
9/8/2012		166	179	15	5.5	0	24	0	
9/9/2012		172	185	14	5.5	0	24	0	
9/10/2012		176	189	15	5.5	0	24	0	
9/11/2012		177	190	15	5.5	0	24	0	
9/12/2012		178	191	16	5.5	0	24	0	
9/13/2012		112	125	18	5.5	0	10	0	
9/14/2012		99	112	13	5.5	0		0	
9/15/2012		91	104	13	5.5	0		0	
9/16/2012		86	99	12	5.5	0		0	
9/17/2012		76	89	12	5.5	0		0	
9/18/2012		60	73	12	5.5	6		0	started pumping unit
9/19/2012		82	95	11	5.5	3		3	shut pumping unit off hfp
9/20/2012		29	42	13	5.5	6		6	started pumping unit
9/21/2012		34	47	14	5.5	12		12	
9/22/2012		34	47	15	5.5	12		11	
9/23/2012		34	47	16	5.5	12		10	
9/24/2012		36	49	17	5.5	12		11	
9/25/2012		37	50	18	5.5	12		10	bucket test 9 min
9/26/2012		37	50	18	5.5	12		11	
9/27/2012		38	51	19	5.5	12		12	
9/28/2012		36	49	17	5.5	12		13	
9/29/2012		36	49	17	5.5	12		12	
9/30/2012		35	48	17	5.5	12		10	
10/1/2012									

Total

489

187

W359

R. Moore 6-28

West St. Francis

St. Francis

Pumping Unit/Elec

October-12

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DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2012	35	48	17	5.5	12	10	
10/2/2012	35	48	17	5.5	12	9	
10/3/2012	35	48	18	5.5	12	8	
10/4/2012	33	46	18	5.5	12	9	
10/5/2012	35	48	18	5.5	12	10	
10/6/2012	33	46	18	5.5	12	9	
10/7/2012	34	47	18	5.5	12	8	
10/8/2012	34	47	18	5.5	12	10	bucket test 9 min
10/9/2012	34	47	18	5.5	12	9	
10/10/2012	34	47	18	5.5	12	8	
10/11/2012	33	46	18	5.5	12	9	
10/12/2012	34	47	18	5.5	12	10	
10/13/2012	34	47	18	5.5	12	11	
10/14/2012	35	48	18	5.5	12	10	
10/15/2012	35	48	18	5.5	13	11	
10/16/2012	56	69	18	5.5	12	10	
10/17/2012	36	49	17	5.5	12	11	
10/18/2012	34	47	18	5.5	12	12	
10/19/2012	30	43	18	5.5	12	10	bucket test 9 min and treated well
10/20/2012	64	77	18	5.5	12	11	
10/21/2012	41	54	19	5.5	12	12	
10/22/2012	37	50	19	5.5	6	5	shut pumping unit off
10/23/2012	32	45	18	5.5	0	0	
10/24/2012	30	43	17	5.5	6	5	started pumping unit
10/25/2012	33	46	17	5.5	12	10	
10/26/2012	33	46	18	5.5	12	12	
10/27/2012	33	46	18	5.5	12	11	
10/28/2012	33	46	18	5.5	12	10	
10/29/2012	85	98	18	5.5	6	2	5 pu off hfp
10/30/2012	70	83	17	5.5	0	0	
10/31/2012	39	52	16	5.5	6	5	started pumping unit

Total

552

270