

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow Deliverability

(See Instructions on Reverse Side)

Test Date:
3/7/2013

API No. 15
023-20634-0060

Company Rosewood Resources, Inc.		Lease R. Moore		Well Number 13-28	
County Cheyenne	Location NWSW/4	Section 28	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Branch Systems Inc.		
Completion Date 10/21/2005		Plug Back Total Depth 1789'	Packer Set at		
Casing Size 2 7/8"	Weight 6.5#	Internal Diameter 2.441	Set at 1789'	Perforations 1668'	To 1700'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production	Pump Unit or Traveling Plunger? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .6	
Vertical Depth(H) 1700'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 3-6		20 13	at 1:50	(AM) (PM) Taken 3-7	20 13
Well on Line: Started 3-7		20 13	at 2:05	(AM) (PM) Taken 3-8	20 13
					at 2:05 (AM) (PM)
					at 2:50 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in: 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						274	288.4				
Flow						28	42.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _d) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						2		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_g)² = _____

(P_c)² = _____; (P_w)² = _____; P_a = _____ % (P_c - 14.4) + 14.4 = _____;

(P _c) ² - (P _a) ² or (P _c) ² - (P _g) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _g ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- 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 10 day of December, 20 13.

Witness (if any)

For Company

Checked by

KCC WICHITA

DEC 26 2013

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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 13-28 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: 12/10/13

Signature: *Janell Matney*
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.

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W439
 R. Moore 13-28
 West St. Francis
 St. Francis
 None
 March-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
3/1/2013	38	51	2	
3/2/2013	38	51	2	
3/3/2013	30	43	2	
3/4/2013	29	42	2	
3/5/2013	61	75	2	
3/6/2013	120	119	0	shut well in for state test psi120
3/7/2013	274	119	0	24 open well psi 274
3/8/2013	75	89	4	
3/9/2013	54	68	2	
3/10/2013	42	55	2	
3/11/2013	17	41	2	
3/12/2013	72	86	2	3
3/13/2013	43	57	2	
3/14/2013	58	72	2	1
3/15/2013	70	83	2	
3/16/2013	58	71	2	
3/17/2013	51	64	2	
3/18/2013	56	69	2	
3/19/2013	55	68	2	
3/20/2013	45	55	2	
3/21/2013	28	42	2	
3/22/2013	28	42	2	
3/23/2013	28	42	2	
3/24/2013	29	43	2	
3/25/2013	69	82	2	
3/26/2013	57	71	1	
3/27/2013	28	42	2	
3/28/2013	28	42	2	
3/29/2013	28	41	2	
3/30/2013	28	42	2	
3/31/2013	28	42	2	

Total 59

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W439
 R. Moore 13-28
 West St. Francis
 St. Francis
 None
 April-13

DATE	Casing		MCF	HRS	REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN	
4/1/2013	29	42		2	
4/2/2013	29	42		2	
4/3/2013	30	43		2	
4/4/2013	32	45		2	
4/5/2013	68	81		2	
4/6/2013	62	75		2	
4/7/2013	62	75		2	
4/8/2013	50	63		2	
4/9/2013	44	57		2	
4/10/2013	48	61		2	2
4/11/2013	27	41		2	
4/12/2013	26	39		2	
4/13/2013	77	90		2	1
4/14/2013	58	71		2	
4/15/2013	41	62		2	
4/16/2013	26	39		2	
4/17/2013	40	53		2	
4/18/2013	30	43		2	
4/19/2013	31	44		2	
4/20/2013	49	62		2	
4/21/2013	49	62		2	
4/22/2013	49	62		2	
4/23/2013	49	62		2	
4/24/2013	50	63		2	
4/25/2013	50	63		2	
4/26/2013	51	64		2	
4/27/2013	51	64		2	
4/28/2013	63	76		2	
4/29/2013	63	76		1	
4/30/2013	57	70		1	
5/1/2013					

Total 58

W439
R. Moore 13-28
West St. Francis
St. Francis
None
May-13

DATE	Casing		HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF		
5/1/2013	58	72	0	
5/2/2013	62	76	0	
5/3/2013	53	66	1	
5/4/2013	50	64	1	
5/5/2013	48	62	1	
5/6/2013	50	64	1	
5/7/2013	52	66	2	
5/8/2013	56	70	1	
5/9/2013	63	77	3	
5/10/2013	42	55	1	
5/11/2013	34	47	1	
5/12/2013	32	45	2	
5/13/2013	34	47	2	
5/14/2013	34	47	2	
5/15/2013	99	112	2	3
5/16/2013	75	88	0	
5/17/2013	35	48	1	
5/18/2013	30	44	2	
5/19/2013	46	59	2	
5/20/2013	39	52	2	
5/21/2013	41	54	2	
5/22/2013	89	102	2	14
5/23/2013	148	161	1	10
5/24/2013	107	120	2	4
5/25/2013	94	107	0	
5/26/2013	88	101	0	
5/27/2013	85	98	0	
5/28/2013	76	89	0	
5/29/2013	66	79	1	
5/30/2013	54	67	2	
5/31/2013	51	64	2	

Total 39

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