

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **OSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
3/7/2013

API No. 15
023-20545-0000

Company Rosewood Resources, Inc.		Lease Moore		Well Number 1-16	
County Cheyenne	Location NWSW	Section 16	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 1/30/2004		Plug Back Total Depth 1871'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1871'	Perforations 1655'	To 1689'
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	
Vertical Depth(H) 1885'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 3-6		20 13 at 2:00		(AM) (PM) Taken 3-7	
Well on Line: Started 3-7		20 13 at 2:15		(AM) (PM) Taken 3-8	
		20 13 at 2:15		(AM) (PM) Taken 3-8	
		20 13 at 2:15		(AM) (PM) Taken 3-8	

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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						308	322.4				
Flow						38	52.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) 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
						65		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	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 10 day of December, 20 13.

Witness (if any)

For Commission

Samuel Martinez
For Company

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 Moore 1-16 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: *Spinnell Martiney*
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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DEC 26 2013

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W2560
 Moore 1-16
 West St. Francis
 R4

March-13
 FloBoss

DATE	Casing PSI	STATIC MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
3/1/2013	49	62	5	
3/2/2013	46	59	3	
3/3/2013	40	53	5	
3/4/2013	39	52	5	
3/5/2013	105	118	5	
3/6/2013	128	141	1	shut well into for state test 128
3/7/2013	308	138	0	24 open well psi 308
3/8/2013	79	92	12	
3/9/2013	58	71	5	
3/10/2013	37	50	8	
3/11/2013	36	49	8	
3/12/2013	82	95	8	3
3/13/2013	62	75	2	
3/14/2013	85	98	4	1
3/15/2013	74	87	1	
3/16/2013	61	74	1	
3/17/2013	54	67	3	
3/18/2013	58	71	3	
3/19/2013	57	70	3	
3/20/2013	48	51	6	
3/21/2013	39	52	6	
3/22/2013	40	53	6	
3/23/2013	39	52	6	
3/24/2013	39	52	6	
3/25/2013	74	88	6	
3/26/2013	38	52	1	
3/27/2013	38	52	6	
3/28/2013	37	51	6	
3/29/2013	38	51	6	
3/30/2013	38	51	6	
	38	51	6	

Total

149

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W2560
 Moore 1-16
 West St. Francis
 R4

April-13
 FloBoss

DATE	Line PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
4/1/2013	38	38	51		6	
4/2/2013	40	39	53		5	
4/3/2013	40	40	53		5	
4/4/2013	42	42	55		5	
4/5/2013	65	65	78		2	
4/6/2013	55	55	68		2	
4/7/2013	56	56	69		2	
4/8/2013	57	57	70		2	
4/9/2013	51	51	64		2	
4/10/2013	68	68	81		2	2
4/11/2013	44	44	57		4	
4/12/2013	34	34	47		6	
4/13/2013	75	75	88		6	1
4/14/2013	63	63	76		1	
4/15/2013	55	55	68		1	
4/16/2013	37	37	50		5	
4/17/2013	53	53	66		4	
4/18/2013	38	38	51		4	
4/19/2013	39	39	52		6	
4/20/2013	55	55	68		2	
4/21/2013	55	55	68		2	
4/22/2013	56	56	69		2	
4/23/2013	56	56	69		2	
4/24/2013	57	57	70		2	
4/25/2013	57	56	70		3	
4/26/2013	57	57	70		2	
4/27/2013	59	59	72		2	
4/28/2013	69	69	82		1	
4/29/2013	66	66	79		1	
4/30/2013	65	65	78		1	
5/1/2013	-13					

Total 90

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W2560
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 West St. Francis
 R4

May-13
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DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013	67	80		1	
5/2/2013	68	82		1	
5/3/2013	60	73		1	
5/4/2013	57	70		2	
5/5/2013	58	71		2	
5/6/2013	58	71		2	
5/7/2013	60	73		2	
5/8/2013	73	86		2	
5/9/2013	67	80		2	
5/10/2013	52	65		4	
5/11/2013	42	55		5	
5/12/2013	41	54		5	
5/13/2013	41	54		5	
5/14/2013	44	57		5	
5/15/2013	88	101		5	3
5/16/2013	77	90		0	
5/17/2013	41	54		3	
5/18/2013	41	54		4	
5/19/2013	57	70		6	
5/20/2013	51	64		2	
5/21/2013	71	84		4	
5/22/2013	65	78		4	14
5/23/2013	156	169		1	10
5/24/2013	121	134		1	4
5/25/2013	96	109		0	
5/26/2013	92	105		0	
5/27/2013	88	101		0	
5/28/2013	81	94		0	
5/29/2013	78	91		1	
5/30/2013	59	72		1	
5/31/2013	56	69		1	

Total

72

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