

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **AST**
 Deliverability

Test Date:
6/22/14

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 checked="" type="checkbox"/> No <input 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 6-7		20 14 at 2:00		(AM) (PM) Taken 6-22	
Well on Line: Started 6-22		20 14 at 2:15		(AM) (PM) Taken 6-23	
		20 14 at 2:15		(AM) (PM) Taken 6-23	
		20 14 at 3:00		(AM) (PM) Taken 6-23	

OBSERVED SURFACE DATA

Duration of Shut-in 360 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 _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						193	207.4				
Flow						44	58.4			360	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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
						7		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_o)² = _____

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

(P _c) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o 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 []	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 14.

Received *Samuel Martusey*
 Witness (if any) _____ KANSAS CORPORATION COMMISSION For Company
 For Commission _____

FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

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: 12/10/14

Received
KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Janell Martinez*
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.

W2560
 Moore 1-16
 West St. Francis
 R4

June-14
 FloBoss

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	DOWN		
6/1/2014	62	75	8	0	
6/2/2014	67	80	8	0	
6/3/2014	60	73	8	0	
6/4/2014	62	75	8	0	
6/5/2014	53	66	8	0	
6/6/2014	55	68	8	0	
6/7/2014	164	177	4	9	
6/8/2014	173	186	0	24	
6/9/2014	180	193	0	24	
6/10/2014	183	196	0	24	
6/11/2014	185	198	0	24	
6/12/2014	186	199	0	24	
6/13/2014	188	202	0	24	
6/14/2014	189	202	0	24	
6/15/2014	189	202	0	24	
6/16/2014	190	203	0	24	
6/17/2014	191	204	0	24	
6/18/2014	191	204	0	24	
6/19/2014	191	204	0	24	
6/20/2014	192	205	0	24	
6/21/2014	192	205	0	24	
6/22/2014	193	206	0	24	
6/23/2014	118	131	20	5	
6/24/2014	111	124	15	0	
6/25/2014	104	117	13	0	
6/26/2014	95	108	12	0	
6/27/2014	89	102	10	0	
6/28/2014	64	77	10	0	
6/29/2014	57	70	10	0	
6/30/2014	56	69	9	0	
7/1/2014				0	

Total

151

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CONSERVATION DIVISION
 WICHITA, KS

W2560
 Moore 1-16
 West St. Francis
 R4

July-14
 FloBoss

DATE	Casing		HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	DOWN		
7/1/2014	57	71	9	0	
7/2/2014	57	71	9	0	
7/3/2014	59	72	9	0	
7/4/2014	59	72	9	0	
7/5/2014	61	74	9	0	
7/6/2014	62	75	9	0	
7/7/2014	79	82	8	0	
7/8/2014	62	75	8	0	
7/9/2014	61	74	8	0	
7/10/2014	62	75	8	0	
7/11/2014	64	77	8	0	
7/12/2014	65	78	8	0	
7/13/2014	66	79	7	0	
7/14/2014	62	75	7	0	
7/15/2014	57	70	7	0	
7/16/2014	57	70	7	0	
7/17/2014	56	69	7	0	
7/18/2014	57	70	7	0	
7/19/2014	55	68	7	0	
7/20/2014	54	67	7	0	
7/21/2014	128	141	7	0	
7/22/2014	124	137	1	22	
7/23/2014	85	98	9	7	
7/24/2014	114	128	7	3	
7/25/2014	54	57	7	4	
7/26/2014	54	67	7	0	
7/27/2014	55	68	7	0	
7/28/2014	46	59	7	0	
7/29/2014	46	59	7	0	
7/30/2014	44	57	7	0	
7/31/2014	45	58	7	0	

Total

231

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CONSERVATION DIVISION
 WICHITA, KS

W2560
 Moore 1-16
 West St. Francis
 R4

August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	44	57		7	0
8/2/2014	43	56		7	0
8/3/2014	43	56		7	0
8/4/2014	57	70		7	0
8/5/2014	57	70		7	0
8/6/2014	58	71		7	0
8/7/2014	59	72		7	0
8/8/2014	59	72		7	0
8/9/2014	60	73		7	0
8/10/2014	61	74		7	0
8/11/2014	63	76		6	0
8/12/2014	51	64		6	0
8/13/2014	44	57		6	0
8/14/2014	43	56		6	0
8/15/2014	46	59		6	3
8/16/2014	28	41		7	0
8/17/2014	28	41		7	0
8/18/2014	29	42		7	0
8/19/2014	65	78		6	2
8/20/2014	59	72		6	0
8/21/2014	42	55		6	0
8/22/2014	57	70		6	0
8/23/2014	54	67		6	0
8/24/2014	55	68		6	0
8/25/2014	56	69		6	0
8/26/2014	62	75		6	0
8/27/2014	60	73		6	0
8/28/2014	55	68		6	0
8/29/2014	55	68		6	5
8/30/2014	54	67		6	0
8/31/2014	66	79		6	0

Total

199

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 WICHITA, KS