

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **AST**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

API No. 15
023-20659-0000

Company Rosewood Resources, Inc.		Lease Miller		Well Number 24-13	
County Cheyenne	Location SESW	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/11/2006		Plug Back Total Depth 1347'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1350'	Perforations 1234'	To 1270'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1270'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	

Pressure Buildup: Shut in 6-7 20 14 at 8:35 (AM)(PM) Taken 6-12 20 14 at 8:50 (AM)(PM)
 Well on Line: Started 6-22 20 14 at 8:50 (AM)(PM) Taken 6-23 20 14 at 9:35 (AM)(PM)

OBSERVED SURFACE DATA

Duration of Shut-in 360 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						225	239.4				
Flow						54	68.4			360	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						35		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207 : (P_d)² = _____

(P _c) ² - (P _d) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d 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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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 12 day of December, 20 14.

Received Annul Martusey
 KANSAS CORPORATION COMMISSION For Company

Witness (if any) _____ For Commission FEB 25 2015 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 Miller 24-13 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: 12/12/14

Received
KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
WICHITA, KS

Signature: *Jennell 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.

W370
 Miller 24-13
 St. Francis
 St. Francis
 None
 June-17th
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	50	63		25	0
6/2/2013	55	68		24	0
6/3/2013	48	61		24	0 turn on pumping unit
6/4/2013	62	75		25	0
6/5/2013	46	59		29	0
6/6/2013	47	50		29	0 turn off pumping unit
6/7/2013	176	189		21	9
6/8/2013	190	203		0	24
6/9/2013	202	215		0	24
6/10/2013	214	227		0	24
6/11/2013	223	236		0	24
6/12/2013	225	238		0	24
6/13/2013	219	232		0	24
6/14/2013	217	230		0	24
6/15/2013	210	223		0	24
6/16/2013	208	221		0	24
6/17/2013	205	218		0	24
6/18/2013	201	214		0	24
6/19/2013	199	212		0	24
6/20/2013	197	210		0	24
6/21/2013	193	206		0	24
6/22/2013	193	206		0	24
6/23/2013	116	129		39	5
6/24/2013	106	119		35	0
6/25/2013	100	113		32	0
6/26/2013	89	102		29	0
6/27/2013	82	95		28	0
6/28/2013	50	63		28	0
6/29/2013	48	61		26	0 started pumping unit
6/30/2013	50	63		28	0
7/1/2013					0

Total

422

Received
 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W370
 Miller 24-13
 St. Francis
 St. Francis
 None
 July-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2014	50	63		31	0	18
7/2/2014	50	63		31	0	19
7/3/2014	51	64		32	0	20 5 min bt
7/4/2014	51	64		32	0	19
7/5/2014	52	65		32	0	18
7/6/2014	52	65		34	0	20
7/7/2014	53	66		34	0	20
7/8/2014	54	67		35	0	19
7/9/2014	54	67		35	0	18
7/10/2014	54	67		35	0	20
7/11/2014	58	71		35	0	19
7/12/2014	57	70		35	0	18
7/13/2014	58	71		36	0	19
7/14/2014	85	108		36	0	20
7/15/2014	48	61		36	0	18
7/16/2014	50	63		36	0	20
7/17/2014	50	63		36	0	19
7/18/2014	51	64		37	0	18
7/19/2014	48	61		37	0	20
7/20/2014	49	62		36	0	19
7/21/2014	132	145		36	0	20
7/22/2014	130	143		12	22	18
7/23/2014	61	74		34	7	19
7/24/2014	56	69		34	3	4
7/25/2014	48	61		31	4	0 started pumping unit
7/26/2014	47	60		33	0	18
7/27/2014	48	62		35	0	20
7/28/2014	49	62		36	0	19
7/29/2014	48	61		36	0	20
7/30/2014	50	63		37	0	18
7/31/2014	51	64		37	0	18

Total

1052

555

Received
 KANSAS CORPORATION COMMISSION

FEB 25 2015

CONSERVATION DIVISION
 WICHITA, KS

W370
 Miller 24-13
 St. Francis
 St. Francis
 None
 August-14
 FloBoss

DATE	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
8/1/2014	37	50	37	6.5	14	0	20	
8/2/2014	36	49	37	6.5	14	0	20	
8/3/2014	49	62	39	6.5	14	0	20	
8/4/2014	49	62	39	6.5	14	0	20	
8/5/2014	50	63	39	6.5	14	0	20	
8/6/2014	57	70	7	6.5	14	0	20	
8/7/2014	52	65	39	6.5	14	0	20	
8/8/2014	52	65	39	6.5	14	0	20	
8/9/2014	54	67	39	6.5	14	0	20	3 min BT
8/10/2014	55	68	39	6.5	14	0	20	
8/11/2014	55	68	39	6.5	14	0	20	
8/12/2014	49	62	39	6.5	14	0	20	
8/13/2014	50	63	39	6.5	14	0	20	
8/14/2014	49	62	39	6.5	14	0	20	
8/15/2014	55	68	39	6.5	14	3	20	
8/16/2014	54	67	39	6.5	14	0	20	
8/17/2014	55	68	40	6.5	14	0	20	
8/18/2014	55	68	40	6.5	14	0	20	
8/19/2014	63	76	40	6.5	14	2	20	
8/20/2014	52	65	40	6.5	14	0	20	
8/21/2014	52	65	40	6.5	14	0	20	
8/22/2014	54	67	40	6.5	14	0	20	
8/23/2014	48	61	40	6.5	14	0	20	
8/24/2014	51	64	41	6.5	14	0	20	
8/25/2014	66	79	41	6.5	14	0	20	
8/26/2014	52	65	41	6.5	14	0	20	
8/27/2014	62	75	41	6.5	14	0	20	
8/28/2014	115	128	41	6.5	14	0	10	
8/29/2014	47	60	37	6.5	14	5	10	
8/30/2014	48	61	40	6.5	14	0	20	
8/31/2014	62	75	40	6.5	14	0	20	

Total

1190

600

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 WICHITA, KS