

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **BSI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/19/2013

API No. 15
023-20561-0000

Company Rosewood Resources, Inc.		Lease Zimbelman		Well Number 1-24	
County Cheyenne	Location NESW	Section 24	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9-10-2004		Plug Back Total Depth 1496'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1539'	Perforations 1326'	To 1364'
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="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1364'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-18		20 13 at 9:10		(AM) (PM) Taken 6-19	
Well on Line: Started 6-19		20 13 at 9:25		(AM) (PM) Taken 6-20	
				20 13 at 9:25 (AM) (PM)	
				20 13 at 10:10 (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						109	123.4				
Flow						55	69.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
						38		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_o = _____ % (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" ----- 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 21 day of November, 20 13.

RECEIVED
KANSAS CORPORATION COMMISSION

Samuel Matney
For Company

Witness (if any)

DEC 26 2013

For Commission

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 Zimbelman 1-24 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: 11/21/13

RECEIVED
KANSAS CORPORATION COMMISSION
Signature: _____

DEC 26 2013

Title: Production Assistant

CONSERVATION DIVISION
WICHITA, KS

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.

W380
 Zimbelman 01-24
 St. Francis
 St. Francis
 None
 June-13

DATE	Casing PSI	STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2013	47	60	38	6.5	6	8	
6/2/2013	51	64	38	6.5	6	9	
6/3/2013	49	62	38	6.5	6	8	
6/4/2013	48	61	38	6.5	6	10	
6/5/2013	60	73	38	6.5	6	9	
6/6/2013	66	79	39	6.5	6	9	5 min bt
6/7/2013	52	65	39	6.5	6	11	
6/8/2013	52	65	39	6.5	6	12	
6/9/2013	54	67	39	6.5	6	10	
6/10/2013	55	68	39	6.5	6	2	12
6/11/2013	76	89	37	6.5	3	1	5 pu off hfp
6/12/2013	74	87	34	6.5	0	0	
6/13/2013	55	68	39	6.5	3	5	restart pu
6/14/2013	59	72	39	6.5	6	10	
6/15/2013	60	73	38	6.5	6	11	
6/16/2013	61	74	38	6.5	6	10	
6/17/2013	57	70	38	6.5	3	5	pu off
6/18/2013	50	63	38	6.5	0	0	si for state test - cp 51
6/19/2013	43	56	0	6.5	3	24	5 reopened - cp 109 restart pu
6/20/2013	49	62	20	6.5	6	9	5 min bt greased
6/21/2013	56	69	44	6.5	6	12	
6/22/2013	76	89	42	6.5	6	11	
6/23/2013	80	93	37	6.5	3	5	pu off hfp
6/24/2013	77	90	35	6.5	0	0	calibrated meter
6/25/2013	80	93	36	6.5	0	0	
6/26/2013	78	91	35	6.5	0	0	
6/27/2013	68	81	36	6.5	6	4	restart pu
6/28/2013	54	67	39	6.5	6	10	
6/29/2013	52	65	37	6.5	6	9	
6/30/2013	52	65	37	6.5	6	8	
7/1/2013							

Total

1084

217

RECEIVED
 KANSAS CORPORATION COMMISSION

DEC 26 2013

CONSERVATION DIVISION
 WICHITA, KS

W380
 Zimbelman 01-24
 St. Francis
 St. Francis
 None
 July-13

DATE	Casing			SPM	HRS CYCLEDOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC	MCF				
7/1/2013	53	66	37	6.5	6	9	
7/2/2013	53	66	38	6.5	6	8	5.25 min bt
7/3/2013	55	68	38	6.5	6	7	
7/4/2013	56	69	38	6.5	6	9	
7/5/2013	56	69	38	6.5	6	10	
7/6/2013	56	69	39	6.5	6	7	
7/7/2013	68	81	39	6.5	6	9	
7/8/2013	66	79	37	6.5	6	8	
7/9/2013	66	79	38	6.5	6	10	
7/10/2013	57	70	39	6.5	6	11	
7/11/2013	60	73	39	6.5	6	11	
7/12/2013	66	79	39	6.5	3	6	shut pu off hfp and treated well
7/13/2013	74	87	36	6.5	0	0	
7/14/2013	77	90	33	6.5	0	0	
7/15/2013	56	69	37	6.5	3	4	started pu
7/16/2013	55	68	38	6.5	6	8	
7/17/2013	51	64	35	6.5	6	8	5.5 min bt greased
7/18/2013	78	91	31	6.5	3	4	pu off hfp
7/19/2013	70	83	30	6.5	0	0	
7/20/2013	73	86	36	6.5	0	0	
7/21/2013	75	88	35	6.5	0	0	
7/22/2013	72	85	35	6.5	0	0	
7/23/2013	63	76	35	6.5	3	4	restart pu
7/24/2013	72	85	35	6.5	6	8	
7/25/2013	78	91	34	6.5	3	4	pu off hfp
7/26/2013	59	72	34	6.5	3	4	restart pu
7/27/2013	55	68	36	6.5	6	8	
7/28/2013	57	70	36	6.5	6	7	
7/29/2013	56	69	36	6.5	6	8	
7/30/2013	55	68	37	6.5	3	3.5	4 pu off hfp
7/31/2013	85	98	29	6.5	0	5.5	0

Total

1117

176

RECEIVED
 KANSAS CORPORATION COMMISSION

DEC 26 2013

CONSERVATION DIVISION
 WICHITA, KS

W380
 Zimbelman 01-24
 St. Francis
 St. Francis
 None
 August-13

DATE	Casing			HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	STATIC MCF	SPM			
8/1/2013	78	91	26	6.5		
8/2/2013	77	90	33	6.5		
8/3/2013	75	88	34	6.5		
8/4/2013	73	86	38	6.5		
8/5/2013	66	79	36	6.5		
8/6/2013	54	67	36	6.5	3	4 restart pu
8/7/2013	50	63	35	6.5	6	8
8/8/2013	54	67	36	6.5	6	9
8/9/2013	58	71	36	6.5	6	8
8/10/2013	54	67	36	6.5	6	7
8/11/2013	52	65	36	6.5	6	8
8/12/2013	53	66	36	6.5	6	8
8/13/2013	52	65	36	6.5	6	9
8/14/2013	53	66	37	6.5	6	8 5.25 min bt greased
8/15/2013	53	66	37	6.5	6 0.5	9
8/16/2013	64	77	37	6.5	6	6
8/17/2013	64	77	36	6.5	6	7
8/18/2013	64	77	37	6.5	6	9
8/19/2013	65	78	37	6.5	3 1.5	4
8/20/2013	77	90	36	6.5	0 1	0
8/21/2013	86	99	31	6.5	0	0
8/22/2013	89	102	30	6.5	0 5	0
8/23/2013	73	86	26	6.5	0	0
8/24/2013	82	95	40	6.5	0 1	0
8/25/2013	88	101	33	6.5	0 1	0
8/26/2013	54	67	28	6.5	3	4 restart pu
8/27/2013	50	63	40	6.5	6	7
8/28/2013	50	63	37	6.5	6	8
8/29/2013	78	91	37	6.5	3 1	4 pu off hfp
8/30/2013	85	98	34	6.5	0	0
8/31/2013	86	99	30	6.5	0	0

Total

1077

127

RECEIVED
 KANSAS CORPORATION COMMISSION

DEC 26 2013

CONSERVATION DIVISION
 WICHITA, KS