

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASTI**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
5/8/2013

API No. 15
023-20638-0000

Company Rosewood Resources, Inc.		Lease Alvin		Well Number 33-08	
County Cheyenne	Location NESE/4	Section 8	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 1-15-2006		Plug Back Total Depth 1614"		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1430'	Perforations 1430'	To 1460'
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production		Pump Unit or Traveling Plunger? <input checked="" type="radio"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1430'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut in 5-7 20 13 at 10:25 <input checked="" type="radio"/> (AM) (PM) Taken 5-8 20 13 at 10:40 <input checked="" type="radio"/> (AM) (PM)		Well on Line: Started 5-8 20 13 at 10:40 <input checked="" type="radio"/> (AM) (PM) Taken 5-9 20 13 at 11:25 <input checked="" type="radio"/> (AM) (PM)			

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						180	194.4				
Flow						54	68.4			24	

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
						7		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _o) ² - (P _a) ² or (P _o) ² - (P _d) ²	(P _o) 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 []	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.

Witness (if any)

For Commission

Jannell Martinez
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 Alvin 33-08 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

Signature: Jannell Martiny
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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W361
 Alvin 33-08
 St. Francis
 St. Francis
 Pumping Unit/elec
 May-13

DATE	Tubing PSI	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
5/1/2013		45	58		7	
5/2/2013		51	64		7	
5/3/2013		39	52		7	
5/4/2013		34	47		7	
5/5/2013		35	48		7	
5/6/2013		36	49		8	
5/7/2013		35	48		8	si for state test - cp 87
5/8/2013		42	55		0	24 reopened - cp 180
5/9/2013		47	60		11	
5/10/2013		37	50		9	treated
5/11/2013		48	61		6	
5/12/2013		47	60		8	
5/13/2013		48	61		7	
5/14/2013		54	67		7	
5/15/2013		91	104		5	2.5
5/16/2013		63	76		3	
5/17/2013		44	57		7	
5/18/2013		45	58		7	
5/19/2013		56	69		7	
5/20/2013		52	65		7	
5/21/2013		34	47		7	
5/22/2013		43	56		7	14
5/23/2013		164	177		3	10
5/24/2013		99	112		6	4
5/25/2013		89	102		2	
5/26/2013		80	93		0	
5/27/2013		77	90		2	
5/28/2013		67	80		1	
5/29/2013		55	68		6	
5/30/2013		41	54		7	
5/31/2013		35	48		7	

Total

183

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W361
 Alvin 33-08
 St. Francis
 St. Francis
 Pumping Unit/elec
 June-13

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
6/1/2013	31	44		8	
6/2/2013	38	51		8	
6/3/2013	34	47		8	
6/4/2013	32	45		7	
6/5/2013	50	63		7	
6/6/2013	58	71		7	
6/7/2013	36	49		8	calibrate meter
6/8/2013	37	50		7	
6/9/2013	38	51		7	
6/10/2013	37	50		7	2
6/11/2013	63	76		3	1
6/12/2013	64	77		1	
6/13/2013	42	55		0	pulled pumping unit off
6/14/2013	46	59		0	
6/15/2013	46	59		0	
6/16/2013	48	61		0	
6/17/2013	43	56		0	
6/18/2013	35	48		0	
6/19/2013	30	43		0	
6/20/2013	34	47		0	
6/21/2013	33	46		0	
6/22/2013	33	46		0	
6/23/2013	32	45		0	
6/24/2013	32	45		0	
6/25/2013	31	44		0	
6/26/2013	32	45		0	
6/27/2013	31	44		0	
6/28/2013	31	44		0	
6/29/2013	31	44		0	
6/30/2013	31	44		0	
7/1/2013					

Total 78

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W361
 Alvin 33-08
 St. Francis
 St. Francis
 Pumping Unit/elec
 July-13

DATE	Casing		MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
	PSI	STATIC			
7/1/2013	79	42		0	put back online, pinched 10mcf
7/2/2013	67	80		8	
7/3/2013	67	80		8	
7/4/2013	67	80		8	
7/5/2013	68	81		8	
7/6/2013	69	82		8	
7/7/2013	73	86		5	
7/8/2013	75	88		4	
7/9/2013	79	92		9	
7/10/2013	72	85		9	
7/11/2013	70	83		8	
7/12/2013	76	89		8	
7/13/2013	80	93		7	2.5
7/14/2013	82	95		1	
7/15/2013	85	98		6	
7/16/2013	64	77		8	
7/17/2013	61	74		7	
7/18/2013	76	89		4	
7/19/2013	76	89		0	
7/20/2013	78	91		0	
7/21/2013	77	90		0	
7/22/2013	78	91		0	
7/23/2013	70	83		0	
7/24/2013	75	88		0	
7/25/2013	80	93		0	
7/26/2013	68	81		0	
7/27/2013	60	73		6	
7/28/2013	61	74		2	
7/29/2013	59	72		3	
7/30/2013	58	71		6	
7/31/2013	110	123		3	

Total

136

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