

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow **ASL**
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/22/14

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="checkbox"/> Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1430'		Pressure Taps Flange		Gas Gravity - G _g .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-7		20 14 at 10:25		(AM) (PM) Taken 6-13	
				20 14 at 10:40 (AM) (PM)	
Well on Line: Started 6-22		20 14 at 10:40		(AM) (PM) Taken 6-23	
				20 14 at 11:25 (AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in **360** Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter or Prover Pressure pslg (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						pslg	psia	pslg	psia		
Shut-In						145	159.4				
Flow						36	50.4			360	

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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						8		

(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 _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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- 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
KANSAS CORPORATION COMMISSION

[Signature]
For Company

Witness (if any)

FEB 25 2015

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 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: 12/12/14

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KANSAS CORPORATION COMMISSION
FEB 25 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: *Samuel 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.

W361
 Alvin 33-08
 St. Francis
 St. Francis
 Pumping Unit/elec
 June-18/1

DATE	Casing PSI	STATIC	MCF	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2013	40	53		9	0	
6/2/2013	63	76		8	0	
6/3/2013	53	66		9	0	
6/4/2013	75	88		8	0	
6/5/2013	35	48		9	0	
6/6/2013	38	51		8	0	
6/7/2013	150	163		5	9	
6/8/2013	149	162		5	24	
6/9/2013	152	165		0	24	
6/10/2013	147	160		0	24	
6/11/2013	157	170		0	24	
6/12/2013	162	175		0	24	
6/13/2013	145	158		0	24	
6/14/2013	145	158		0	24	
6/15/2013	144	157		0	24	
6/16/2013	145	158		0	24	
6/17/2013	145	158		0	24	
6/18/2013	144	157		0	24	
6/19/2013	145	158		0	24	
6/20/2013	145	158		0	24	
6/21/2013	145	158		0	24	
6/22/2013	95	108		11	24	
6/23/2013	115	128		6	5	
6/24/2013	104	117		12	0	
6/25/2013	104	117		12	0	
6/26/2013	81	94		11	0	
6/27/2013	73	86		10	0	
6/28/2013	41	54		10	0	
6/29/2013	39	52		10	0	
6/30/2013	40	53		10	0	
7/1/2013					0	

Total

153

0

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CONSERVATION DIVISION
 WICHITA, KS

W361
 Alvin 33-08
 St. Francis
 St. Francis
 Flow
 July-14

DATE	Casing		MCF	HRS		REMARKS (Maximum length 110 characters)
	PSI	STATIC		DOWN		
7/1/2014	41	54		9	0	
7/2/2014	39	52		9	0	
7/3/2014	38	52		9	0	
7/4/2014	38	52		9	0	
7/5/2014	41	55		9	0	
7/6/2014	41	55		9	0	
7/7/2014	63	76		8	0	
7/8/2014	44	57		9	0	
7/9/2014	44	57		9	0	
7/10/2014	45	58		9	0	
7/11/2014	47	60		9	0	
7/12/2014	48	61		9	0	
7/13/2014	49	62		9	0	
7/14/2014	53	66		8	0	
7/15/2014	36	49		9	0	
7/16/2014	36	49		9	0	
7/17/2014	37	50		8	0	
7/18/2014	37	50		8	0	
7/19/2014	37	50		8	0	
7/20/2014	36	49		8	0	
7/21/2014	37	50		8	0	
7/22/2014	175	188		1	22	
7/23/2014	69	82		8	7	
7/24/2014	44	57		9	3	
7/25/2014	46	59		8	4	
7/26/2014	36	49		9	0	
7/27/2014	36	50		8	0	
7/28/2014	40	53		8	0	
7/29/2014	48	61		8	0	
7/30/2014	38	51		8	0	
7/31/2014	43	56		8	0	

Total

257

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CONSERVATION DIVISION
 WICHITA, KS

W361
 Alvin 33-08
 St. Francis
 St. Francis
 Pumping Unit/elec
 August-14

DATE	Casing PSI	STATIC	MCF	HRS DOWN	REMARKS (Maximum length 110 characters)
8/1/2014	39	52		8	0
8/2/2014	39	52		8	0
8/3/2014	39	52		8	0
8/4/2014	39	52		8	0
8/5/2014	40	53		8	0
8/6/2014	40	53		8	0
8/7/2014	41	54		8	0
8/8/2014	42	55		8	0
8/9/2014	42	55		8	0
8/10/2014	46	59		8	0
8/11/2014	40	53		8	0
8/12/2014	39	52		8	0
8/13/2014	39	52		8	0
8/14/2014	38	52		8	0
8/15/2014	46	59		8	3
8/16/2014	44	57		8	0
8/17/2014	44	57		8	0
8/18/2014	46	59		8	0
8/19/2014	52	65		8	2
8/20/2014	52	65		8	0
8/21/2014	45	58		8	0
8/22/2014	73	86		8	0
8/23/2014	37	50		8	0
8/24/2014	40	53		8	0
8/25/2014	59	72		7	0
8/26/2014	41	54		8	0
8/27/2014	46	59		8	0
8/28/2014	37	50		8	0
8/29/2014	38	51		7	5
8/30/2014	38	51		8	0
8/31/2014	51	64		8	0

Total

246

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CONSERVATION DIVISION
 WICHITA, KS