

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow **ADL**
 Deliverability

Test Date:
8/10/2011

API No. 15
15-023-20567 - ~~00~~ - ~~00~~

Company Rosewood Resources		Lease Miller		Well Number 1-13	
County Cheyenne	Location NESW	Section 13	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 9-10-2004		Plug Back Total Depth 1457'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1500'	Perforations 1292'	To 1330'
Tubing Size none 2 3/8"	Weight	Internal Diameter	Set at 1346'	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) 1330'		Pressure Taps Flange		Gas Gravity - G _g .6	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut In 8-9 _____ 20 11 at 8:55 <input checked="" type="radio"/> (AM) (PM)		Taken 8-10 _____ 20 11 at 9:10 <input checked="" type="radio"/> (AM) (PM)			
Well on Line: Started 8-10 _____ 20 11 at 9:10 <input checked="" type="radio"/> (AM) (PM)		Taken 8-11 _____ 20 11 at 9:55 <input checked="" type="radio"/> (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-In **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						53	67.4				
Flow						59	73.4			24	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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						58		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ ; (P_w)² = _____ ; P_d = _____ % (P_e - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

(P _e) ² - (P _w) ² or (P _e) ² - (P _d) ²	(P _w) ² - (P _d) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_d^2}$	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 28 day of December, 20 11

Witness (if any)

For Commission

Janell Gower

For Company

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Checked by

APR 24 2012
KCC WICHITA

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.

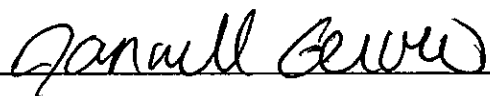
I hereby request a one-year exemption from open flow testing for the Miller 1-13 gas well on the grounds that said well:

(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: 12/28/11

Signature: 
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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W357

Miller 01-13

St. Francis

St. Francis

St. Francis

August-11

FloBoss

DATE	Tubing Casing		STATIC MCF	SPM	HRS	CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
8/1/2011		60	73	59	6.5	12	16	
8/2/2011		59	72	59	6.5	12	14	
8/3/2011		60	73	59	6.5	12	15	5.5 min bt
8/4/2011		60	73	59	6.5	6	7	pu off water leak
8/5/2011		58	71	57	6.5	0	0	pu off water leak
8/6/2011		59	72	51	6.5	0	0	pu off water leak
8/7/2011		59	72	48	6.5	0	0	pu off water leak
8/8/2011		58	71	47	6.5	6	7	restart pu
8/9/2011		59	72	53	6.5	6	9	squeezed pu off 4.75 min bt SI
8/10/2011		53	66	0	6.5	6	24	7 open well restart pu
8/11/2011		69	82	11	6.5	12	18	
8/12/2011		90	103	47	6.5	6	9	pu off high fp
8/13/2011		77	90	50	6.5	0	0	
8/14/2011		75	88	42	6.5	0	0	
8/15/2011		85	98	44	6.5	0	0	
8/16/2011		59	72	46	6.5	6	9	restart pu
8/17/2011		102	115	33	6.5	6	5	9 pu off hfp
8/18/2011		58	71	44	6.5	6	4	9 restart pu
8/19/2011		66	79	48	6.5	6	1	18
8/20/2011		58	71	53	6.5	6	19	
8/21/2011		59	72	53	6.5	6	20	
8/22/2011		58	71	54	6.5	6	10	4.5 min bt
8/23/2011		79	92	55	6.5	6	9	
8/24/2011		56	69	55	6.5	6	11	
8/25/2011		60	73	57	6.5	6	12	
8/26/2011		58	71	56	6.5	6	11	
8/27/2011		59	72	58	6.5	6	10	
8/28/2011		59	72	57	6.5	6	9	
8/29/2011		59	72	58	6.5	6	10	
8/30/2011		59	72	58	6.5	6	13	
8/31/2011		60	73	58	6.5	6	10	4.5 min bt

Total

1529

291

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W357
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 September-11
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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
9/1/2011		60	73	58	6.5	16	28	
9/2/2011		60	73	58	6.5	16	26	
9/3/2011		60	73	58	6.5	16	27	
9/4/2011		60	73	58	6.5	16	25	
9/5/2011		59	72	58	6.5	16	29	
9/6/2011		59	72	58	6.5	16	29	4 min bt
9/7/2011		60	73	58	6.5	8	15	pu off water leak
9/8/2011		59	72	55	6.5	8	14	restart pu
9/9/2011		60	73	54	6.5	16	27	
9/10/2011		58	71	57	6.5	16	28	
9/11/2011		60	73	57	6.5	16	27	
9/12/2011		60	73	57	6.5	16	29	
9/13/2011		59	72	57	6.5	16	29	4 min bt
9/14/2011		60	73	58	6.5	16	30	
9/15/2011		58	71	58	6.5	16	27	
9/16/2011		59	72	58	6.5	16	29	
9/17/2011		59	72	58	6.5	16	28	
9/18/2011		59	72	57	6.5	16	29	
9/19/2011		59	72	57	6.5	16	27	
9/20/2011		59	72	57	6.5	16	38	3 min bt
9/21/2011		59	72	58	6.5	16	36	replace check valve
9/22/2011		59	72	58	6.5	16	36	
9/23/2011		58	71	58	6.5	16	33	
9/24/2011		59	72	57	6.5	16	36	
9/25/2011		59	72	56	6.5	8	15	shut pumping unit off
9/26/2011		59	72	55	6.5	8	14	started pu
9/27/2011		56	69	55	6.5	16	28	
9/28/2011		62	75	59	6.5	16	23	5 min bt
9/29/2011		57	70	59	6.5	16	22	
9/30/2011		56	69	59	6.5	16	24	
10/1/2011								

Total

1720

808

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W357
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 October-11
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DATE	Tubing PSI	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
10/1/2011		60	73	56	6.5	16	30	
10/2/2011		60	73	54	6.5	16	31	
10/3/2011		60	73	54	6.5	16	34	
10/4/2011		59	72	55	6.5	16	33	3.5 min bt
10/5/2011		57	70	55	6.5	16	34	
10/6/2011		60	73	58	6.5	16	31	
10/7/2011		60	73	54	6.5	16	33	
10/8/2011		59	72	55	6.5	16	32	
10/9/2011		59	72	55	6.5	16	33	
10/10/2011		59	72	55	6.5	16	33	3.5 min bt greased
10/11/2011		59	72	53	6.5	16	31	
10/12/2011		57	70	56	6.5	16	34	
10/13/2011		62	75	59	6.5	16	32	
10/14/2011		58	71	57	6.5	16	35	
10/15/2011		59	72	57	6.5	16	31	
10/16/2011		58	71	57	6.5	16	34	
10/17/2011		57	70	57	6.5	16	32	
10/18/2011		61	74	57	6.5	16	33	
10/19/2011		61	74	54	6.5	16	31	
10/20/2011		58	71	54	6.5	16	32	5 min bt
10/21/2011		58	71	56	6.5	16	33	
10/22/2011		58	71	55	6.5	16	32	
10/23/2011		59	72	55	6.5	16	22	
10/24/2011		59	72	55	6.5	16	23	
10/25/2011		58	71	55	6.5	16	25	4.5 min bt
10/26/2011		57	70	55	6.5	16	23	
10/27/2011		58	71	55	6.5	16	26	
10/28/2011		58	71	55	6.5	16	24	
10/29/2011		58	71	55	6.5	16	25	
10/30/2011		58	71	55	6.5	16	22	
10/31/2011		58	71	55	6.5	16	21	

Total

1718

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