

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow **OSD**
 Deliverability

Test Date:
8/10/2011

API No. 15
15-023-20662 - 0000

Company Rosewood Resources		Lease Isernhagen		Well Number 22-25	
County Cheyenne	Location SENW/4	Section 25	TWP 3S	RNG (E/W) 41W	Acres Attributed 80
Field St. Francis		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 3/10/2006		Plug Back Total Depth 1463'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1464'	Perforations 1280'	To 1316'
Tubing Size 4 1/2" 2 3/8"	Weight	Internal Diameter	Set at 1345'	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? <input checked="" type="radio"/> No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1316'		Pressure Taps Flange		Gas Gravity - G _g .6	
Pressure Buildup: Shut In 8-9 20 11 at 9:25 (AM) (PM)		Taken 8-10 20 11 at 9:40 (AM) (PM)			
Well on Line: Started 8-10 20 11 at 9:40 (AM) (PM)		Taken 8-11 20 11 at 10:25 (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						58	72.4				
Flow						67	81.4			24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F ₀) (F ₁) 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
						44		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ : (P_w)² = _____ : P₀ = _____ % (P₀ - 14.4) + 14.4 = _____ : (P_e)² = 0.207
(P_e)² = _____

(P _e) ² - (P _w) ² or (P _e) ² - (P ₀) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P ₀ ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: P _e ² - P _w 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 28 day of December, 20 11.

Witness (if any)

For Commission

Samuel Bevee

For Company

Checked by

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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 Isemhagen 22-25 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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Isernhagen 22-25

St. Francis

St. Francis

None

August-11

DATE	Casing			HRS	Water	REMARKS	
	PSI	STATIC MCF	SPM				CYCLI DOWN
8/1/2011	67	81	45	6	12	0	17
8/2/2011	67	81	45	6	12	0	18
8/3/2011	67	80	45	6	12	0	16
8/4/2011	68	80	45	6	12	0	16 5.5 min bt greased
8/5/2011	67	80	45	6	12	0	15
8/6/2011	67	80	45	6	12	0	17
8/7/2011	67	80	45	6	12	0	14
8/8/2011	66	80	45	6	12	0	19
8/9/2011	58	80	45	6	6	0	8 squeezed pu off 5 min bt
8/10/2011	58	80	0	6	6	24	8 open well restart pu, SI
8/11/2011	84	92	50	6	6	0	8 turned off high fp
8/12/2011	94	98	45	6	0	0	0
8/13/2011	83	100	43	6	0	0	0
8/14/2011	90	100	40	6	0	0	0
8/15/2011	90	103	39	6	0	0	0
8/16/2011	66	90	38	6	6	0	8 restart pu
8/17/2011	134	87	31	6	6	5	8 pu off hfp
8/18/2011	66	104	35	6	6	4	8 restart pu
8/19/2011	71	85	37	6	12	1	16
8/20/2011	64	81	39	6	12	0	17
8/21/2011	64	77	40	6	12	0	16
8/22/2011	64	77	41	6	12	0	15
8/23/2011	72	77	32	6	12	0	18 4.75 min bt
8/24/2011	69	80	42	6	12	0	17
8/25/2011	67	79	43	6	12	0	16
8/26/2011	66	82	43	6	12	0	17
8/27/2011	66	78	43	6	12	0	18
8/28/2011	67	79	43	6	12	0	17
8/29/2011	67	80	44	6	12	0	16
8/30/2011	66	80	44	6	12	0	16
8/31/2011	67	79	44	6	12	0	18

Total

1261

397

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Isernhagen 22-25

St. Francis

St. Francis

None

September-11

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLEDOWN	Water BBL	REMARKS (Maximum length 110 characters)
9/1/2011	68	80	44	6	12	0	19 4.5 min bt
9/2/2011	67	80	44	6	12	0	20
9/3/2011	66	80	44	6	12	0	18
9/4/2011	67	80	44	6	12	0	17
9/5/2011	67	79	44	6	12	0	20
9/6/2011	66	79	44	6	12	0	19
9/7/2011	68	79	44	6	12	0	14 6 min bt
9/8/2011	67	80	44	6	12	0	15
9/9/2011	67	80	44	6	12	0	14
9/10/2011	67	80	44	6	12	0	13
9/11/2011	68	79	44	6	12	0	14
9/12/2011	67	80	44	6	12	0	13
9/13/2011	66	80	44	6	12	0	16 5.5 min bt
9/14/2011	66	79	44	6	12	0	13
9/15/2011	65	79	44	6	12	0	17
9/16/2011	66	79	44	6	12	0	15
9/17/2011	66	79	44	6	12	0	16
9/18/2011	66	79	44	6	12	0	17
9/19/2011	67	79	44	6	12	0	15
9/20/2011	66	79	44	6	12	0	17 5 min bt
9/21/2011	67	79	44	6	12	0	16
9/22/2011	65	79	44	6	12	0	18
9/23/2011	65	78	44	6	12	0	17
9/24/2011	67	78	44	6	12	0	16
9/25/2011	66	79	44	6	12	0	17
9/26/2011	66	79	44	6	12	0	17
9/27/2011	63	79	44	6	12	0	16 5.5 min bt
9/28/2011	67	76	44	6	12	0	16
9/29/2011	63	77	44	6	12	0	15
9/30/2011	63	76	44	6	12	0	17
10/1/2011	0	0	0	0	0	0	0

Total

1320

487

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Isernhagen, 22-25

St. Francis

St. Francis

None

October-11

DATE	Casing PSI	STATIC	MCF	SPM	HRS CYCLE DOWN	Water BLS	REMARKS (Maximum length 110 characters)
10/1/2011	65	78	44	6	12	0	16
10/2/2011	68	80	44	6	12	0	15
10/3/2011	67	80	44	6	12	0	16 5.5 min bt
10/4/2011	66	80	44	6	12	0	16
10/5/2011	66	80	44	6	12	0	18
10/6/2011	65	78	44	6	12	0	19
10/7/2011	67	80	44	6	12	0	17
10/8/2011	66	79	44	6	12	0	18
10/9/2011	67	79	44	6	12	0	17
10/10/2011	67	80	44	6	12	0	16
10/11/2011	65	85	44	6	12	0	16 5.5 min bt greased
10/12/2011	65	79	44	6	12	0	14
10/13/2011	62	76	44	6	12	0	17
10/14/2011	63	78	44	6	12	0	15
10/15/2011	63	77	44	6	12	0	18
10/16/2011	64	78	44	6	12	0	14
10/17/2011	64	78	44	6	12	0	17
10/18/2011	66	77	44	6	12	0	16
10/19/2011	67	81	44	6	12	0	16 5.25 min bt
10/20/2011	65	80	45	6	12	0	14
10/21/2011	66	78	45	6	12	0	16
10/22/2011	66	79	45	6	12	0	15
10/23/2011	64	79	45	6	12	0	14
10/24/2011	66	79	45	6	12	0	14
10/25/2011	66	79	45	6	12	0	17 5 min bt
10/26/2011	65	78	45	6	12	0	17
10/27/2011	65	78	44	6	12	0	16
10/28/2011	65	78	45	6	12	0	18
10/29/2011	65	78	45	6	12	0	16
10/30/2011	65	78	45	6	12	0	17
10/31/2011	65	78	45	6	12	0	19

Total

1375

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