

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow 24 hr SI
 Deliverability

Test Date: 9-9-04

API No. 15 - 023-20586-0000

Company Rosewood Resources		Lease Fernhagen			Well Number 1-22	
County Cherokee	Location NE SW	Section 22	TWP 3S	RNG (E/W) 41W	Acres Attributed 80	
Field Cherry Creek		Reservoir Nebraska	Gas Gathering Connection B.S.I			
Completion Date 9-1-04		Plug Back Total Depth 1441	Packer Set at			
Casing Size 4.5"	Weight 10.5 #	Internal Diameter 4.052"	Set at 1490	Perforations 1320	To 1358	
Tubing Size None	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) SINGLE	Type Fluid Production Gas & water		Pump Unit or Traveling Plunger? flowing		Yes / No <input checked="" type="radio"/>	
Producing Thru (Annulus / Tubing)	% Carbon Dioxide 1.0		% Nitrogen 18.0		Gas Gravity - G _g 0.64	
Vertical Depth (H) 1490-1358	Pressure Taps FLANGE			(Meter Run) (Prover) Size		
Pressure Buildup: Shut in 9/8 20 04 at 7 <input checked="" type="radio"/> (AM) (PM) Taken 9-9 20 04 at 7 <input checked="" type="radio"/> (AM) (PM)						
Well on Line: Started 9-10 20 04 at 7 <input checked="" type="radio"/> (AM) (PM) Taken 9-21 20 04 at 7 <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 _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						285	299.4			34	—
Flow						240	254.4			24	0.5

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _a) (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
						61		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_d)² = _____

(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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Open Flow Deliverability Equals R x Antilog (Mcfd)
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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 14 day of Jan, 20 05.

Witness (if any)

For Company

For Commission

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 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 Isernhagen 1-22 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: 1/14/05

Signature: *Dennis Skunk*

Title: Reservoir Engineer

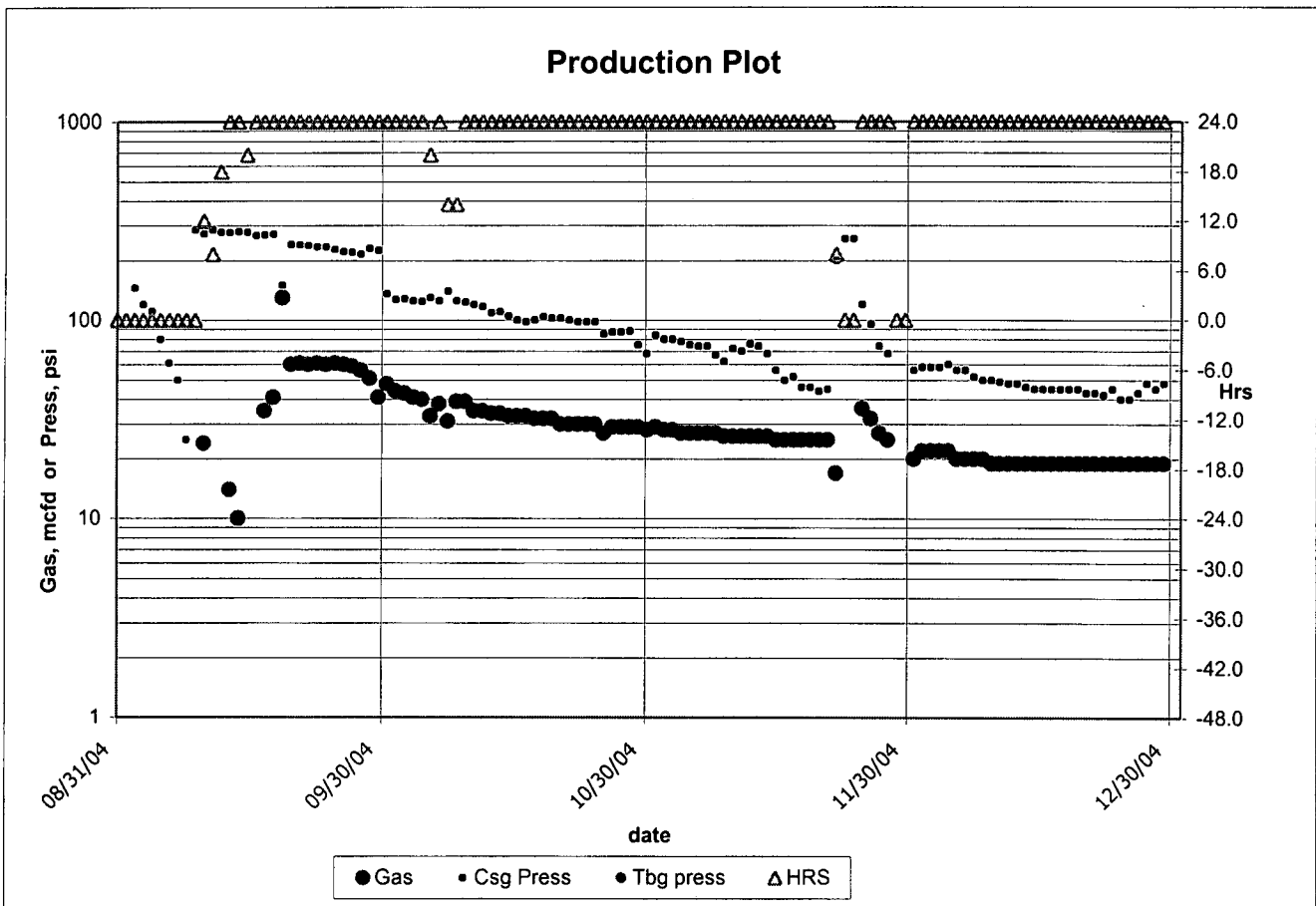
Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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.

Actual
ISERNHAGEN 01-22

	<u>Gas</u>	<u>Csg Press</u>	<u>Tbg Press</u>	<u>Line Press</u>	<u>Hrs</u>	<u>Remarks</u>
2004/01	null	null	null	null	null	null
2004/02	null	null	null	null	null	null
2004/03	null	null	null	null	null	null
2004/04	null	null	null	null	null	null
2004/05	null	null	null	null	null	null
2004/06	null	null	null	null	null	null
2004/07	0	null	null	null	0.0	null
2004/08	0	null	null	null	0.0	null
2004/09	884	247.5	null	null	22.2	null
2004/10	1050	107.5	null	null	23.2	null
2004/11	688	87.4	null	null	23.4	null
2004/12	606	48.4	null	null	24.0	null
TOTAL	3228	122.7			23.2	



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Actual					
ISERNHAGEN 01-22					
	Gas Csg	Press	Tbg Press	Line Press	Hrs Remarks
08/14/2004	0	null	null	null	0.0 SPUD 12:15 PM
08/15/2004	0	null	null	null	0.0 Set Surf. WOC. DRLG.
08/16/2004	0	null	null	null	0.0 TD 1490
08/17/2004	0	null	null	null	0.0 Csg set 1490
08/18/2004	0	null	null	null	0.0 SI WOCT
08/19/2004	0	null	null	null	0.0 SI WOCT
08/20/2004	0	null	null	null	0.0 SI WOCT
08/21/2004	0	null	null	null	0.0 SI WOCT
08/22/2004	0	null	null	null	0.0 SI WOCT
08/23/2004	0	null	null	null	0.0 SI WOCT
08/24/2004	0	null	null	null	0.0 SI WOCT
08/25/2004	0	null	null	null	0.0 SI WOCT
08/26/2004	0	null	null	null	0.0 SI WOCT
08/27/2004	0	null	null	null	0.0 SI WOCT
08/28/2004	0	null	null	null	0.0 SI WOCT
08/29/2004	0	null	null	null	0.0 SI WOCT
08/30/2004	0	null	null	null	0.0 PBTB 1441 & Perf
08/31/2004	0	null	null	null	0.0 perfs 1320-1358. WOFU
09/01/2004	0	null	null	null	0.0 N2Frac 100k# & SI 2hrs
09/02/2004	0	145.0	null	null	0.0 FCP 16/64 Chk G&W s.strm
09/03/2004	0	120.0	null	null	0.0 FCP 20/64 Chk G&W s.strm
09/04/2004	0	111.0	null	null	0.0 FCP 20/64 Chk G&W slugs
09/05/2004	0	80.0	null	null	0.0 FCP 20/64 Chk G&W slugs
09/06/2004	0	61.0	null	null	0.0 FCP 20/64 Chk G&W slugs
09/07/2004	0	50.0	null	null	0.0 FCP 20/64 Chk G&W slugs
09/08/2004	0	25.0	null	null	0.0 FCP 20/64 Chk G&W & SI
09/09/2004	0	285.0	null	null	0.0 SI G-2 & on line
09/10/2004	24	273.0	null	null	12.0 SICP & on line
09/11/2004	0	285.0	null	null	8.0
09/12/2004	0	278.0	null	null	18.0
09/13/2004	14	277.0	null	null	24.0
09/14/2004	10	280.0	null	null	24.0
09/15/2004	0	278.0	null	null	20.0
09/16/2004	0	268.0	null	null	24.0
09/17/2004	35	270.0	null	null	24.0
09/18/2004	41	272.0	null	null	24.0
09/19/2004	130	150.0	null	null	24.0
09/20/2004	60	241.0	null	null	24.0
09/21/2004	61	240.0	null	null	24.0
09/22/2004	60	238.0	null	null	24.0
09/23/2004	61	235.0	null	null	24.0
09/24/2004	60	235.0	null	null	24.0
09/25/2004	61	228.0	null	null	24.0
09/26/2004	60	222.0	null	null	24.0
09/27/2004	59	220.0	null	null	24.0
09/28/2004	56	215.0	null	null	24.0
09/29/2004	51	230.0	null	null	24.0
09/30/2004	41	225.0	null	null	24.0
10/01/2004	48	136.0	null	null	24.0
10/02/2004	44	127.0	null	null	24.0
10/03/2004	43	128.0	null	null	24.0
10/04/2004	41	125.0	null	null	24.0
10/05/2004	40	124.0	null	null	24.0
10/06/2004	33	130.0	null	null	20.0
10/07/2004	38	125.0	null	null	24.0
10/08/2004	31	140.0	null	null	14.0
10/09/2004	39	125.0	null	null	14.0
10/10/2004	39	123.0	null	null	24.0
10/11/2004	35	120.0	null	null	24.0
10/12/2004	35	117.0	null	null	24.0
10/13/2004	34	109.0	null	null	24.0
10/14/2004	34	110.0	null	null	24.0
10/15/2004	33	105.0	null	null	24.0
10/16/2004	33	100.0	null	null	24.0
10/17/2004	33	98.0	null	null	24.0
10/18/2004	32	100.0	null	null	24.0
10/19/2004	32	104.0	null	null	24.0
10/20/2004	32	102.0	null	null	24.0
10/21/2004	30	102.0	null	null	24.0
10/22/2004	30	100.0	null	null	24.0
10/23/2004	30	98.0	null	null	24.0
10/24/2004	30	98.0	null	null	24.0
10/25/2004	30	98.0	null	null	24.0
10/26/2004	27	85.0	null	null	24.0

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Actual						
ISERNHAGEN 01-22						
	Gas	Csg Press	Tbg Press	Line Press	Hrs	Remarks
10/27/2004	29	87.0	null	null	24.0	
10/28/2004	29	87.0	null	null	24.0	
10/29/2004	29	88.0	null	null	24.0	
10/30/2004	29	75.0	null	null	24.0	
10/31/2004	28	68.0	null	null	24.0	
11/01/2004	29	84.0	null	null	24.0	
11/02/2004	28	80.0	null	null	24.0	
11/03/2004	28	80.0	null	null	24.0	
11/04/2004	27	78.0	null	null	24.0	
11/05/2004	27	75.0	null	null	24.0	
11/06/2004	27	74.0	null	null	24.0	
11/07/2004	27	74.0	null	null	24.0	
11/08/2004	27	67.0	null	null	24.0	
11/09/2004	26	62.0	null	null	24.0	
11/10/2004	26	72.0	null	null	24.0	
11/11/2004	26	70.0	null	null	24.0	
11/12/2004	26	76.0	null	null	24.0	
11/13/2004	26	74.0	null	null	24.0	
11/14/2004	26	68.0	null	null	24.0	
11/15/2004	25	56.0	null	null	24.0	
11/16/2004	25	50.0	null	null	24.0	
11/17/2004	25	52.0	null	null	24.0	
11/18/2004	25	46.0	null	null	24.0	
11/19/2004	25	46.0	null	null	24.0	
11/20/2004	25	44.0	null	null	24.0	
11/21/2004	25	45.0	null	null	24.0	
11/22/2004	17	200.0	null	null	8.0	SI @3pm
11/23/2004	0	258.0	null	null	0.0	SI
11/24/2004	0	258.0	null	null	0.0	SI 64 hr
11/25/2004	36	120.0	null	null	24.0	
11/26/2004	32	95.0	null	null	24.0	
11/27/2004	27	74.0	null	null	24.0	
11/28/2004	25	68.0	null	null	24.0	
11/29/2004	null	null	null	null	null	SI
11/30/2004	null	null	null	null	null	SI
12/01/2004	20	56.0	null	null	24.0	
12/02/2004	22	58.0	null	null	24.0	
12/03/2004	22	58.0	null	null	24.0	
12/04/2004	22	58.0	null	null	24.0	
12/05/2004	22	60.0	null	null	24.0	
12/06/2004	20	56.0	null	null	24.0	
12/07/2004	20	56.0	null	null	24.0	
12/08/2004	20	52.0	null	null	24.0	
12/09/2004	20	50.0	null	null	24.0	
12/10/2004	19	50.0	null	null	24.0	
12/11/2004	19	49.0	null	null	24.0	
12/12/2004	19	48.0	null	null	24.0	
12/13/2004	19	48.0	null	null	24.0	
12/14/2004	19	46.0	null	null	24.0	
12/15/2004	19	45.0	null	null	24.0	
12/16/2004	19	45.0	null	null	24.0	
12/17/2004	19	45.0	null	null	24.0	
12/18/2004	19	45.0	null	null	24.0	
12/19/2004	19	45.0	null	null	24.0	
12/20/2004	19	45.0	null	null	24.0	
12/21/2004	19	43.0	null	null	24.0	
12/22/2004	19	43.0	null	null	24.0	
12/23/2004	19	42.0	null	null	24.0	
12/24/2004	19	45.0	null	null	24.0	
12/25/2004	19	40.0	null	null	24.0	
12/26/2004	19	40.0	null	null	24.0	
12/27/2004	19	43.0	null	null	24.0	
12/28/2004	19	48.0	null	null	24.0	
12/29/2004	19	45.0	null	null	24.0	
12/30/2004	19	48.0	null	null	24.0	
12/31/2004	19	48.0	null	null	24.0	