

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow **MSD**
 Deliverability

Test Date:
6/1/2015

API No. 15
023-20535-0000

Company Rosewood Resources, Inc.		Lease Ella Mae		Well Number 3-3	
County Cheyenne	Location SENW	Section 3	TWP 3S	RNG (EW) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 7-15-2004		Plug Back Total Depth 1741'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1746'	Perforations 1548'	To 1582'
Tubing Size NONE	Weight	Internal Diameter	Set at	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) 1582'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6-1		20 15 at 11:35		<input checked="" type="radio"/> (AM) (PM) Taken 6-4	
Well on Line: Started 6-4		20 15 at 11:45		<input checked="" type="radio"/> (AM) (PM) Taken 6-5	

OBSERVED SURFACE DATA

Duration of Shut-in 96 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						129	143.4				
Flow						46	60.4			96	0

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
						26		

(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 _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 Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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 December, 20 15.

KCC WICHITA

Arnold Martiny
For Company

Witness (if any)

APR 07 2016

For Commission

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 Ell Mae 3-3 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: 12/21/15

KCC WICHITA Signature: Jamull Martiny
 APR 07 2016 Title: Production Assistant
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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.

W347 WELL ID
 Ella Mae 3-3 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 Pumping Unit/Elec EQUIPMENT
 June-15 DATE

DATE	Line PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
6/1/2015	103	103	116	0	0	0	24	0	
6/2/2015	106	106	119	0	0	0	24	0	
6/3/2015	126	126	139	0	0	0	24	0	
6/4/2015	129	129	142	0	0	0	24	0	
6/5/2015	103	103	116	30	0	0	4	0	
6/6/2015	82	82	95	28	6	12	0	0	turn on p u
6/7/2015	75	75	88	26	6	12	0	15	
6/8/2015	66	66	79	26	6	12	0	16	
6/9/2015	52	52	65	26	6	12	0	15	
6/10/2015	51	51	64	26	6	12	0	15	
6/11/2015	50	50	63	26	6	12	0	16	
6/12/2015	49	49	62	26	6	12	0	15	
6/13/2015	48	48	61	26	6	12	0	15	
6/14/2015	48	48	61	27	6	12	0	16	
6/15/2015	48	48	61	27	6	12	0	15	
6/16/2015	49	49	62	27	6	12	0	15	
6/17/2015	48	48	61	27	6	12	0	15	
6/18/2015	49	49	62	27	6	12	0	15	
6/19/2015	63	63	76	26	6	0	2	0	
6/20/2015	73	73	86	6	6	0	22	0	
6/21/2015	90	90	103	27	6	0	0	0	
6/22/2015	60	60	73	24	6	6	0	0	10 started pu, builds pressure no water yet
6/23/2015	46	46	59	23	6	6	0	0	8 belts broke off, replaced 1 old one, will get more
6/24/2015	46	46	59	23	6	6	0	12	
6/25/2015	46	46	59	21	6	6	0	0	8 belt was broke, replaced belts
6/26/2015	46	46	59	22	6	12	0	16	
6/27/2015	47	47	60	24	6	12	0	14	
6/28/2015	47	47	60	25	6	12	0	15	
6/29/2015	47	47	60	25	6	12	0	14	
6/30/2015	47	47	60	25	6	12	0	14	
7/1/2015	-13	-13	0	0			0		
Total				646				294	

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W347 WELL ID
 Ella Mae 3-3 LEASE NAME
 West St. Francis FIELD
 St. Francis AREA
 Pumping Unit/Elec EQUIPMENT
 July-15 DATE

DATE	Line PSI	Casing PSI	STATIC	MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
7/1/2015	47	47	60	26	6	12	0	15	
7/2/2015	47	47	60	26	6	12	0	15	
7/3/2015	47	47	60	26	6	12	0	15	
7/4/2015	48	48	61	26	6	12	0	15	
7/5/2015	48	48	61	26	6	12	0	15	
7/6/2015	55	55	68	26	6	12	2	14	
7/7/2015	47	47	60	26	6	12	0	15	
7/8/2015	47	47	60	26	6	6	16	7	shut off for comp work
7/9/2015	83	83	96	10	6	0	24	0	
7/10/2015	124	124	137	0	6	0	14	0	
7/11/2015	98	98	111	12	6	0	0	0	
7/12/2015	72	72	85	22	6	0	0	0	0 Meter crashed, lightning? Did not turn PU o
7/13/2015	57	57	70	26	6	6	0	8	Restarted, meter is working
7/14/2015	47	47	60	26	6	12	0	18	
7/15/2015	46	46	59	26	6	12	0	18	
7/16/2015	47	47	60	26	6	12	0	16	meter 0, flowing 22
7/17/2015	47	47	60	26	6	12	0	16	
7/18/2015	46	46	59	26	6	12	0	16	flowing 22
7/19/2015	46	46	59	26	6	12	0	16	
7/20/2015	46	46	59	26	6	12	0	16	
7/21/2015	50	50	63	26	6	12	4	16	Changed meter
7/22/2015	46	46	59	26	6	12	0	16	
7/23/2015	45	45	58	27	6	12	0	16	
7/24/2015	46	46	59	26	6	12	0	16	
7/25/2015	46	46	59	26	6	12	0	16	
7/26/2015	45	45	58	26	6	12	0	16	
7/27/2015	45	45	58	27	6	12	0	16	Flowing 26, tfy was 16
7/28/2015	45	45	58	26	6	12	0	16	
7/29/2015	45	45	58	26	6	12	0	16	
7/30/2015	45	45	58	26	6	12	0	16	
7/31/2015	45	45	58	26	6	12	0	16	

Total

748

411

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DATE	Line	Casing	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	HRS	Water	REMARKS
8/1/2015	45	45	58	26	26	58	26	6	12	0	15	
8/2/2015	46	46	59	26	26	59	26	6	12	0	15	
8/3/2015	46	46	59	26	26	59	26	6	12	0	15	
8/4/2015	45	45	58	26	26	58	26	6	12	0	15	
8/5/2015	46	46	59	26	26	59	26	6	12	0	15	
8/6/2015	45	45	58	26	26	58	26	6	12	0	15	
8/7/2015	45	45	58	26	26	58	26	6	12	0	15	
8/8/2015	45	45	58	26	26	58	26	6	12	0	15	
8/9/2015	45	45	58	26	26	58	26	6	12	0	15	
8/10/2015	45	45	58	26	26	58	26	6	12	0	15	
8/11/2015	45	45	58	25	25	58	25	6	12	0	15	
8/12/2015	46	46	59	26	26	59	26	6	12	0	15	
8/13/2015	46	46	59	26	26	59	26	6	12	0	15	
8/14/2015	46	46	59	26	26	59	26	6	12	0	15	
8/15/2015	47	47	60	26	26	60	26	6	12	0	15	
8/16/2015	48	48	61	26	26	61	26	6	12	0	15	
8/17/2015	47	47	60	26	26	60	26	6	12	0	15	
8/18/2015	47	47	60	26	26	60	26	6	12	0	15	
8/19/2015	47	47	60	26	26	60	26	6	6	0	15	8 found belts broke, replaced
8/20/2015	47	47	60	26	26	60	26	6	12	0	15	
8/21/2015	48	48	61	28	28	48	28	6	12	0	15	New battery
8/22/2015	48	48	61	27	27	48	27	6	12	0	15	
8/23/2015	47	47	60	26	26	60	26	6	12	0	15	
8/24/2015	48	48	61	26	26	48	26	6	12	0	15	
8/25/2015	47	47	60	26	26	60	26	6	12	0	15	
8/26/2015	53	53	66	26	26	66	26	6	12	0	15	
8/27/2015	48	48	61	26	26	48	26	6	12	0	15	
8/28/2015	47	47	60	26	26	60	26	6	12	0	15	
8/29/2015	49	49	62	26	26	49	26	6	12	0	15	
8/30/2015	52	52	65	26	26	52	26	6	12	0	15	
8/31/2015	54	54	67	26	26	54	26	6	12	0	15	
Total											447	
Total											808	

W347
WELL ID
LEASE NAME
FIELD
St. Francis
AREA
St. Francis
Pumping Unit/Elec EQUIPMENT
August-15
DATE

REMARKS
(Maximum length 110 characters)