KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	NOT		(See Instruct	ions on Re	verse Side	9)				
_ :	en Flow			Test Date) :			API I	No. 15			
De	liverabil	ty 		6/2/201					20488-010	00		
Company Rosewoo		ources, Inc.				Lease Crouch				21-02	Well Nu H	ımber
County Location Sherman NENW			Section 2				RNG (E/V	V)		Acres A	Attributed	
Field Goodland				Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.				
Completic 2/28/200				Plug Bac 2846'	k Total Dept	h		Packer Se	et at			
Casing Si 4 1/2"	ize	Weig 11.6		Internal D 4.000	Diameter	Set <i>a</i> 284		Perfora 2779		то 2794'		
Tubing Si	ize	Weig	ht	Internal [Internal Diameter Set at			Perfora	ations	То		
Type Con Single ((Describe) onal)		Type Flui Dry Ga	d Production	า		Pump Uni Flowing	t or Traveling	g Plunger? Yes	No	
Producing	•	Annulus / Tubir	ng)	% C	arbon Dioxi	de		% Nitroge	en	Gas G .6	ravity - (
Vertical D			-		Pres	sure Taps					Run) (P	rover) Size
Pressure	Buildup	: Shut in _6-	1 2	15 at 8		(AM)(PM)	Taken 6-	2	20		((AM)(PM)
Well on L	.ine:	Started 6-2	2 2	0 <u>15</u> at 8		(PM)			20	15 at 9:10		AM)(PM)
					OBSERVE	D SURFAC	E DATA			Duration of Shut	-in 24	Hou
Static / Dynamic Property	Orifice Size (inche:	Meter Prover Press	Differential in	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (F	Pressure	Wellhea (P _w) or	d Pressure	Duration (Hours)	, .	d Produced Barrels)
Shut-In		ps.g (,	, 11101103 1120			psig 37	51.4	psig	psia			
Flow						5	19.4			24	0	
					FLOW STR	EAM ATTR	IBUTES					
Plate Coeffied (F _b) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia	Press Extension	Grav Fact	tor 1	Flowing Temperature Factor F _{ft}	Fa	iation ictor = pv	Metered Flow R (Mcfd)	W GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m
									8		_	
(P _c)² ≈		· (P)2	=:		OW) (DELIV) CALCUL) ² = 0.2	:07
(P _c) ² - (F	P _a) 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	LOG of formula 1. or 2. and divide		Backpre Slo 	ssure Curve pe = "n" - or signed ard Slope	n x l	og [Antilog	O ₁ Del Equals	oen Flow iverability is R x Antilog (Mcfd)
Open Flor	w		Mcfd @ 14	.65 psia		Deliverat	ility			Mcfd @ 14.65 ps	sia	
		· ·	on behalf of the said report is tru							ort and that he h		₂₀ 15
		Witness			KCC A	NICH	TA _		enal For	L MC	rte	y
		For Com	mission		APR	07 2016)		Che	cked by		-
						CEIVE						

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.							
	going pressure information and statements contained on this application form are true and							
	st of my knowledge and belief based upon available production summaries and lease records							
	allation and/or upon type of completion or upon use being made of the gas well herein named.							
• •	lest a one-year exemption from open flow testing for the Crouch 21-02H							
	rounds that said well:							
gas well on the g	Tourido trat oura won.							
(Chec	k one)							
	is a coalbed methane producer							
	is cycled on plunger lift due to water							
Ī	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							
·	ee to supply to the best of my ability any and all supporting documents deemed by Commission ry to corroborate this claim for exemption from testing.							
Date: 12/22/15								
	KCC WICHITA APR 07 2016 Signature: Sanuel Martiny							

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.

W2420 Crouch 21-02H North Goodland Goodland None June-15

	Casing		HF	RS	REMARKS
DATE	PSI S	STATIC MO	CF DO	OWN	(Maximum length 110 characters)
6/1/2015	37	49	0	24	
6/2/2015	37	49	0	24	
6/3/2015	14	27	5	0	
6/4/2015	11	24	5	0	
6/5/2015	10	23	6	0	
6/6/2015	9	22	6	0	
6/7/2015	9	21	7	0	
6/8/2015	8	21	7	0	
6/9/2015	8	20	7	0	
6/10/2015	7	20	8	0	
6/11/2015	7	19	8	0.	
6/12/2015	7	19	8	0	
6/13/2015	7	20	6	4	
6/14/2015	7	19	8	0	
6/15/2015	7	19	8	0	,
6/16/2015	5	19	8	0	
6/17/2015	5	19	8	0	
6/18/2015	5	18	8	0	
6/19/2015	5	18	8	0	
6/20/2015	5	19	7	1	
6/21/2015	5	18	8	0	
6/22/2015	5	18	8	0	
6/23/2015	5	18	8	0	
6/24/2015	5	18	8	0	
6/25/2015	5	19	7	2	
6/26/2015	5	18	8	0	
6/27/2015	5	18	8	0	
6/28/2015	5	18	8	0	
6/29/2015	5	18	8	0	
6/30/2015	5	18	8	0	
7/1/2015		0	0	0	

Total 207

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W2420 Crouch 21-02H North Goodland Goodland None July-14

	Casing			HRS		REMARKS
DATE	PSI	STATIO	C MCF	DOWN		(Maximum length 110 characters)
7/1/2014		5	18	8	0	
7/2/2014		5	18	7	0	
7/3/2014		5	18	7	0	
7/4/2014		5	18	7	0	
7/5/2014		5	18	7	0	•
7/6/2014		5	18	7	0	
7/7/2014		5	18	8	0	
7/8/2014		5	18	8	0	
7/9/2014		5	18	8	0	
7/10/2014		5	18	8	0	
7/11/2014		5	18	7	0	
7/12/2014		5	18	7	0	
7/13/2014		5	18	7	0	3
7/14/2014		6	19	7	0	
7/15/2014		7	20	5	6	
7/16/2014		7	20	6	0	
7/17/2014		7	20	6	0	
7/18/2014		7	20	6	0	
7/19/2014		7	20	6	0	
7/20/2014		7	20	6	0	·
7/21/2014		7	20	6	1	
7/22/2014		7	20	6	0	
7/23/2014		8	21	5	3	
7/24/2014		7	20	6	0	
7/25/2014		7	20	7	0	
7/26/2014		7	20	7	0	
7/27/2014		7	20	7	0	
7/28/2014		8	21	4	9	
7/29/2014		7	20	7	0	
7/30/2014		7	20	7	0	
7/31/2014		6	19	7	1	

Total 207

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W2420 Crouch 21-02H North Goodland Goodland None August-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters
8/1/2014		6	19	7	2	
8/2/2014		6	19	7	0	
8/3/2014		6	19	7	0	
8/4/2014		6	19	7	0	
8/5/2014		6	19	7	0	
8/6/2014		6	19	7	0	
8/7/2014		6	19	7	0	
8/8/2014		6	19	7	0	,
8/9/2014		6	19	7	0	
8/10/2014		6	19	7	0	
8/11/2014		5	18	8	0	
8/12/2014		5	18	8	0	
8/13/2014		5	18	8	0	
8/14/2014		5	18	8	0	
8/15/2014		5	18	8	0	
8/16/2014		5	18	8	0	
8/17/2014		5	18	8	0	
8/18/2014		5	18	8	0	
8/19/2014		5	18	8	0	
8/20/2014		5	18	8	0	
8/21/2014		5	18	8	0	
8/22/2014		5	18	8	0	
8/23/2014		5	18	8	0	
8/24/2014		5	18	8	0	
8/25/2014		5	18	8	0	
8/26/2014		5	18	8	0	
8/27/2014		5	18	8	0	
8/28/2014		5	18	8	0	
8/29/2014		5	18	8	0	
8/30/2014		5	18	8	0	
8/31/2014		5	18	8	0	

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Total

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