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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruc	tions on Re	verse Side	∍)					
Op	en Flov	v *	MSI												
Deliverabilty			Test Date: 10/24/2013					API No. 15 181-20488-01 00							
Company		sou	rces, Inc.			10/2-1/2		Lease Crouch			1 20 100 010		21-02	Well Nu	ımber
County Location Sherman NENW					Section TWP 2 7S				RNG (E	:/W)		Acres Attributed 80			
Field Goodlan	nd					Reservoir					thering Conn				
Completic 2/28/200		9		_		Plug Bac 2846'	k Total Dept	th		Packer					
Casing S 4 1/2"	ize		Weight 11.6	ht		Internal I 4.000	Diameter	Set at 2846'		Perforations 2779'			To 2794'		
Tubing Si	ize		Weig	ht		Internal Diameter Set at					orations	То			
Type Con Single (Type Flui Dry Ga	d Production	n		Pump U	nit or Traveling	Plunger?	Yes	No	
Producing	Thru		nulus / Tubin	g)			Carbon Dioxi	de		% Nitro				avity - (a _g
Annulus Vertical D)					Pres	sure Taps					.6 (Meter Run) (Prover) Size		
2859'							Flan	ge					2"		
Pressure	Buildup		Snut in	-23	2	$\frac{13}{12}$ at $\frac{8}{12}$		(AM)(PM)				13 at 8			AM)(PM)
Well on L	ine:		Started 10-	-24	2	0 <u>13</u> at <u>8</u>	.25	(AM)(PM)	Taken 10)-25	20	13 at 3	9:10	(AM)(PM)
							OBSERVE	D SURFAC	E DATA			Duration	of Shut-	in 24	Hours
Static / Dynamic Property	Static / Orifice Meter		Pressure Differential in Inches H ₂ 0	Flowing Temperature t Well Head Temperature t		(P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In		_	poly (i iii)		1120			psig 14	28.4	psig	psia			+	
Flow								5	19.4			24		0	
							FLOW STR	EAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Grav Fact	tor T	Flowing Temperature Factor F _{ft}		lation ector Py	Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
		_		<u> </u>							9				
						-	OW) (DELIV		•					² = 0.2	07
(P _c)² =	=	<u>-:_</u>	(P _w) ² =		:	P _d ≈		% (1 	² c - 14.4) +	14.4 = _	 :-		(P _d)	²= <u></u>	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² -P _a ² LO for 2. P _c ² -P _d ² and		P _c ² - P _w ²	Backpressure Curve Slope ≈ "n"or Assigned		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
	\dashv			divide	ed by: P _c ² - P _w ²	by:		Stand	ard Slope					 	iviciu)
							·								
Open Flow	<u> </u>		·		Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 1	4.65 ps	ia	
The u	ındersiç	gned	l authority, o	n be	ehalf of the	Company, s	states that he	e is duly a	uthorized to	o make tl	ne above repo	rt and tha	at he ha	s know	ledge of
the facts st	ated th	erei	n, and that s	aid r	eport is true	and correct	t. Executed	this the 6		day of _	ecember		10	, ;	20 13 .
		_	Witness (if any				-		DW	rall	1/10	yt.	44	ACHITA
				n any	, 				/			опрану	u 4	→ V Ø	
		_	For Comm	nissio	n			_	·		Chec	cked by	DE	C 2	6 2013

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to requere 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 record 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 Crouch 21-02H	nd ds
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 Commis staff as necessary to corroborate this claim for exemption from testing.	sion
Date: _12/6/13	
Signature:	_
Title: Floddclion 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.

DEC 26 2013

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W2420 Crouch 21-02H North Goodland Goodland None October-13

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOW	VN	(Maximum length 110 characters)
10/1/2013		5 18	3	9	0	
10/2/2013		5 18	3	9	0	changed time
10/3/2013		5 18	3	9	0	
10/4/2013		5 18	3	9	0	
10/5/2013	,	5 18	3	9	0	
10/6/2013	;	5 18	3	9	0	
10/7/2013		5 18	3	9	0	
10/8/2013		5 18	3	9	0	
10/9/2013	;	5 18	3	9	0	
10/10/2013	;	5 18	3	9	0	
10/11/2013	:	5 18	3	9	0	
10/12/2013	;	5 18	3	9	0	
10/13/2013	;	5 18	3	9	0	
10/14/2013	;	5 18	3	9	0	
10/15/2013		5 18	3	9	3	
10/16/2013	•	4 13	7	6	7	
10/17/2013		5 18	3	9	0	
10/18/2013	;	5 18	3	9	0	
10/19/2013	;	5 18	3	9	0	
10/20/2013	:	5 18	3	9	0	
10/21/2013	:	5 18	3	9	0	
10/22/2013		5 18	3	9	0	
10/23/2013	;	5 18	3	10	0	shut in
10/24/2013	14	4 27	7	0	24	opened up, bp
10/25/2013	;	5 18	3	8	0	
10/26/2013	;	5 18	3	10	0	
10/27/2013	:	5 18	3	9	0	
10/28/2013	:	5 18	3	8	2	
10/29/2013	;	5 18	3	9	0	
10/30/2013	•	5 18	3	9	0	
10/31/2013	:	5 18	3	8	1.5	

Total 266

W2420 Crouch 21-02H North Goodland Goodland None November-13

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
11/1/2013		5	18 ·	9	0	
11/2/2013		5	18	9	0	
11/3/2013		5	18	9	0	
11/4/2013		5	18	9	0	
11/5/2013		5	18	9	.0	
11/6/2013		5	18	9	0	
11/7/2013		5	18	9	0	
11/8/2013		5	18	9	0	
11/9/2013		5	18	9	0	
11/10/2013		5	18	9	0	
11/11/2013		5	18	9	0	
11/12/2013		5	18	9	0	
11/13/2013		5	18	9	0	bp
11/14/2013		5	18	9	0	
11/15/2013		5	18	9	0	
11/16/2013		5	18	9	0	
11/17/2013		5	18	9	0	
11/18/2013		5	18	9	0	
11/19/2013		5	18	9	0	
11/20/2013		5	18	9	0	•
11/21/2013		5	18	9	0	
11/22/2013		5	18	9	0	
11/23/2013		5	18	9	0	
11/24/2013		5	18	9	0	
11/25/2013		5	18	9	0	
11/26/2013		5	18	9	0	
11/27/2013		5	18	8	0	
11/28/2013		5	18	8	0	
11/29/2013		5	18	8	0	
11/30/2013		5	18	8	0	
12/1/2013					0	

Total 266