KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:	CJ ^{<}	3T_		('See Instruc	tions on Re	verse Side	e)				
Open Flow					Test Date				No. 15	.00			
Company		<u> </u>			6/19/20	13	 Lease		18	1-20430-00	100	Well Nu	mher
Rosewo		ources	s, Inc.				Duell				2-17		
County Location Sherman NESW/4			Section 17		TWP 7S		RNG (E/W) 39W		Acres Attributed 80		ttributed		
Field Goodland				Reservoir Niobrara				thering Conn Systems in					
Completic					Plug Bac 1183'	k Total Dep	oth		Packer \$	Set at			
Casing Si 4 1/2"	Casing Size Weight			Internal I 4.0000		Set at 1182'		Perforations 996'		To 1026'			
	Tubing Size Weight			Internal [Internal Diameter Set at			Perfo	То				
Type Con					Type Flui Dry Ga	d Productions	n		Pump U	nit or Traveling	Plunger? Yes	No	-
Single (Conventional) Producing Thru (Annulus / Tubing) Annulus					% Carbon Dioxide			% Nitrog	-		Gas Gravity - G _g		
Vertical D							ssure Taps				(Meter	Run) (Pi	over) Size
1199'	_				10 0	Flan			10		2"		
Pressure	Buildup	Shu	6-1	• ;	20 13 at 3	.00 -00	(AM) (PM)	(AM) (PM) Taken 6-19 (AM) (PM) Taken 6-20			13 at 4:00 13 at 4:50	•	AM) (PM)
Well on L	ine:	Star	ted 6-1		20 10 at 1		. (AM) (PM)	Taken O	-20	20	at	(AM)(PM)
						OBSERVI	D SURFAC	E DATA	-		Duration of Shu	t-in 24	Hours
Static / Dynamic Property	namic Size Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Temperature Temperature		(P _w) or (P _t) or (P _c)		Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)		d Produced Barrels)	
Shut-In		<u>'</u>		110,100 1120			9	23.4	psig	psia			- <u>-</u> -
Flow	_						5	19.4			24		
						FLOW ST	REAM ATTR	IBUTES					
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Extension Factor		Tomperature		Deviation Metere Factor F F _{pv} (Mo		v GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m
										12			
			_		(OPEN FL	OW) (DELI\	/ERABILITY) CALCUI	LATIONS			$(a)^2 = 0.2$	07
P _c) ² =		:	(P _w) ² =	Choose formula 1 or :	P _d =			_c - 14.4) +		:	(P _c	₁) ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _o) ² - (P _w) ² 1. P _o ² - P _o ² 2. P _o ² - P _d divided by: P _o ² - P _d		LOG of formula 1. or 2. and divide p 2_ p 2		Backpressure Curve Slope = "n"or Assigned Standard Slope		n x LOG		Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
								<u> </u>					
Open Flo				Mcfd @ 14	65 peia		Deliverab	sility.			Mcfd @ 14.65 p	ela	
•		nod au	thority of			states that I			to make t				ledge of
	_		-	n benair or the aid report is tru						lovember	ort and that he h		20 <u>13</u>
ie iacis si	iaied ine	aein, a	nu mat Sa	na report is tru	e anu correc	ı. ⊏xecutet	se <u></u>			24.11	Mai	F.,	···
			Witness (i	f any)			-		. J. S. J.	WULL For C	Company	un	y_
			For Comm	incian			_			Cha	cked by	KCC	: WICI

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exempts and that correct to of equipm	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named. The eby request a one-year exemption from open flow testing for the Duell 2-17 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 ther agree to supply to the best of my ability any and all supporting documents deemed by Commission
Date: 11	necessary to corroborate this claim for exemption from testing.
	Signature:

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.

KCC WICHITA
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W2262 Duell 2-17 North Goodland Goodland None June-13

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

Total 334

W2262 Duell 2-17 North Goodland Goodland None July-13

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOW	N	(Maximum length 110 characters)
7/1/2013		4	17	12	0	
7/2/2013		4	17	12	0	
7/3/2013		4	17	12	0	
7/4/2013		4	17	12	0	
7/5/2013		4	17	12	0	
7/6/2013		4	17	12	0	
7/7/2013		4	17	12	0	
7/8/2013		4	17	12	0	
7/9/2013		4	17	12	0	
7/10/2013		4	17	12	0	
7/11/2013		4	17	12	0	
7/12/2013		4	17	12	0	
7/13/2013		4	17	12	0	
7/14/2013		4	17	12	0	cal
7/15/2013		4	17	9	0	
7/16/2013		4	17	9	6.5	
7/17/2013		5	18	11	0	
7/18/2013		4	17	13	0	
7/19/2013		4	17	13	0	
7/20/2013		4	17	13	0	
7/21/2013		4	17	13	0	
7/22/2013		4	17	12	0	
7/23/2013		4	17	12	0	
7/24/2013		6	19	10	0	
7/25/2013		6	19	10	0	
7/26/2013		6	19	12	0	
7/27/2013		6	19	13	0	
7/28/2013		6	19	13	0	
7/29/2013		6	19	13	0	
7/30/2013		6	19	13	0	
7/31/2013		6	19	13	0	

Total 370