KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	en Flov		ast		(Test Date		ctions on Re	overse Side	AF	² l No. 15	مرمرة	`		
Company	liverabi ,	ity			2/4/2010	0	 Lease	-	18	1-20347-00	~ ()(ر ۱	Well Nu	mber
Rosewo	od Re	sour		. -			Harden) 	 -			1 <u>-4</u> -	-	
County Location Sherman SWNE			on	Section 4			TWP 7\$		RNG (E/W) 39W			Acres Attributed 80		
Field Goodland					Reservoir Niobrara			Gas Gathering Conn Branch Systems In						
Completion Date 7/24/2004					Plug Back Total Depth 1198'			Packer Set at						
Casing Size Weight 4 1/2" 10.5#				Internal (4.052	Diameter		Set at 1211'		orations 24'		то 1054'			
Tubing Size Weight			t	Internal (Diameter	Set	Set at		orations		То		-	
Type Con Single (Type Fluid Production Dry Gas				Pump l Flowi	Jnit or Traveling	g Plunge:	r? Yes	7 (Vo)	
Producing Annulus	-	(Ann	ulus / Tubing)	% C	Carbon Dio	xide		% Nitro	ogen		Gas Gra	avity - (3,
Vertical D	epth(H)					ssure Taps					•	Run) (P	rover) Size
1054'			· • •_ •	· . 		Fla	_=					2"		
Pressure	Buildu	o: \$	Shut in <u>2-3</u>	2	0 10 at 2	:35	_ (AM) (PM)) Taken_2-	-4	20	10 at	2:50		AM(PM)
Well on L	lne:	\$	Started 2-4	. 2	10 _{at.} 2	:50	(AM)(PM)	Taken 2-	5	20	10 _{at}	3:35	+	(AM)(PM)
						OBSERV	ED SURFAC	E DATA			Duration	n of Shut-i	_{in} 72	Hours
Static / Dynamic Property	amic Size Prover Pressure		l l	Temperature Temperat		Minilhaad Proteurn		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		1 .	d Produced Barrels)	
Shut-In	psig (Pm)		Inches H ₂ 0	nes H ₂ U		psig psia 10 24.4		psig psia						
Flow							10	27.4	<u> </u>		72		0	
				l		FLOW ST	REAM ATT	<u>. </u>	1.		1/2		1_0	
Plate Coeffiecient (F _b) (F _p) Mcfd		Gircle one: Meter or Prover Pressure psia		Press Extension	Extension Fact		Flowing Temperature Factor F ₁₁	Flowing Developmentature Factor		Metered Flo R (McId)			et/	Flowing Fluid Gravity G_m
										14				
				1	(OPEN FL	OW) (DELI	VERABILITY	Y) CALCUL	ATIONS	<u> </u>		/D \1	^	.07
(P _c) ² =		;	(P _w) ² =	:	P,=			P _e - 14.4) +		:		(P _a) ²	e 0.2 =	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. P _c ² - P _s ² 2. P _c ² - P _c ² divided by: P _c ² - P _s ²	1. P ² - P ² LOG of formula 1 or 2: LOG of formula 2. P ² - P ² and divide and divide		Backpres Slop			LOG	Antilog		Open Flow Deliverability Equats R x Antilog (Mcfd)	
													1	
Open Flo	w			Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @	14.65 psi	a	
		-	•	n behalf of the			-			the above repo	ort and t	hat he ha		nedge of 20 10 .
			Witness (if any)				/	KK!	WULL FO	Company	لمار	<u> </u>	RECEIVED
			For Comm	sission	· · -					Ċh	ecked by	IKANS	ias coi	RPORATION COMMISS

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exempt status und and that the fore- correct to the bes of equipment inst I hereby requ	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 tof 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. est a one-year exemption from open flow testing for the Harden 1-4
(Check	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 12/16/10	Signature: Qanu Club Title: Production 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.

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W403 Harden 1-4 North Goodland Goodland None February-10

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
2/1/2010	1	0 23	5	0	10psi, 7:48am
2/2/2010	1	0 23	1	. 22	
2/3/2010	1.	2 25	(24	
2/4/2010	1.	3 26	(24	
2/5/2010	1.	3 26	16	5 0	
2/6/2010	1.	2 25	10	1.5	
2/7/2010	1	1 24	10) 1	
2/8/2010	1	0 23	11	. 0	
2/9/2010	1	1 24	2	! 18	
2/10/2010	1.	3 26	(24	
2/11/2010	1.	3 26	(24	
2/12/2010	1-	4 27	(15	
2/13/2010	1.	5 28	(24	
2/14/2010	1	5 28	(12	
2/15/2010	1-	6 29	(18	
2/16/2010	1	6 29	(8	
2/17/2010	1	5 28	5	8	
2/18/2010	1	4 27	ć	5 8	cd
2/19/2010	1	4 27	ć	6	
2/20/2010	1.	3 26	10) 5	
2/21/2010	1	3 26	14	0	
2/22/2010	1	1 24	16	0	
2/23/2010	1	0 23	15	1	
2/24/2010	1	23	14	0	
2/25/2010	1	0 23	11	1.5	nb
2/26/2010	1	1 24	7	5.5	
2/27/2010	1	0 23	13	1	
2/28/2010	1	0 23	13	0	
3/1/2010	I	0 0	(0	
3/2/2010	1	0 0	(0	
3/3/2010	Í	0 0	(

185

Total

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W403 Harden 1-4 North Goodland Goodland None March-10

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
3/1/2010		9 2	22	13	0	
3/2/2010		9 2	22	14	0	
3/3/2010		9 2	22	13	0	
3/4/2010		9 2	22	11	0	
3/5/2010		9 2	22	8	0	
3/6/2010		9 2	22	14	0	
3/7/2010		8 2	21	15	0	
3/8/2010		8 2	21	14	0	
3/9/2010		7 2	20	14	0	
3/10/2010		7 2	20	13	0	
3/11/2010		7 2	20	13	0	bp
3/12/2010		7 2	20	13	0	
3/13/2010		7 2	20	13	0	
3/14/2010		7 2	20	10	0	
3/15/2010		7 2	20	13	0	
3/16/2010		7 2	20	13	0	
3/17/2010		7 2	20	13	0	
3/18/2010		7 2	20	13	0	
3/19/2010		7 2	20	12	0	
3/20/2010		7 2	20	13	0	
3/21/2010		6 1	19	13	0	
3/22/2010		6 1	19	13	0	cal
3/23/2010		6 1	19	9	0	
3/24/2010		6	19	12	0	
3/25/2010		6	19	12	0	
3/26/2010		6	19	11	0	
3/27/2010		6	19	11	0	
3/28/2010		6	19	12	0	
3/29/2010		6 !	19	11	0	
3/30/2010		6 !	9	11	0	
3/31/2010		7 2	20	10	0	

Total

380

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