KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flov	v 🛭	SI			•	ctions on R	everse Side	•			
	liverabi				Test Date 2/4/200					l No. 15 1-20347-00 ·	- 00	
Company							Lease Harder				1-4	Well Number
County	oa Kes	source	Location	<u> </u>	Section		TWP	1	RNG (E	:/W)		Acres Attributed
Shermar	1		SWNE		4		78		39W			80
Field Goodlan		***************************************			Reservoi Niobrar				Gas Ga Branch			
Completic 7/24/200)			Plug Bac 1198'	ck Total Dep	oth		Packer	Set at		
Casing Si 4 1/2"	Casing Size Weight 4 1/2" 10.5#			Internal I 4.052	Diameter		Set at 1211'		orations 24'	то 1054'		
Tubing Siz	ze		Weight		Internal (Diameter	Set	at	Perf	orations	То	_
Type Com Single (Type Flui	id Productions	on		Pump U Flowir	nit or Traveling	Plunger? Yes	/ (No)
			us / Tubing)		_	Carbon Diox	ide		% Nitro		Gas Gr	ravity - G _g
Annulus											.6	
Vertical D 1054'	epth(H))				Pre: Flar	ssure Taps 1 ge				(Meter 2"	Run) (Prover) Size
Pressure	Buildup	: Shu	ut in	2	09 at 2	:35	(AM) (PM)	Taken_2-	4	20	09 at 2:50	(AM) (PM)
Well on Li	•		rted 2-4		09 at 2		(AM) (PM)	Taken 2-	5		09 _{at} 3:35	(AM)(PM)
						OBSERVI	ED SURFAC	E DATA			Duration of Shut	-in 72 Hou
Static / Dynamic Property	Size	Orifice Size (inches) Orifice Size (prover Pressure psig (Pm) Orifice Meter Prover Pressure psig (Pm) Orifice Meter Differential in psig (Pm) Inches H ₂ O Flowing Temperature Temperature t		Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)			
Shut-In			F3 ()				11	25.4	psig	psia		
Flow							14	28.4			72	0
						FLOW STI	REAM ATTI	RIBUTES				
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m x h		Gravity Factor F		Flowing Temperature Factor F ₁₁		eviation Metered Fl Factor R F _{pv} (Mcfd)		v GOR (Cubic Fe Barrel)	l Gravity	
										10		
(D \2 _			(B. \2		•		/ERABILITY	•				² = 0.207
(P _c) ² =				oose formula 1 or 2:				P _c - 14.4) + essure Curve		: :	(P _d)	
(P _c) ² - (P or (P _c) ² - (P	•	(P _c) ²	- (P _w)²	 P_c² - P_a² P_c² - P_d² Ided by: P_c² - P_w² 	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Šid A	ope = "n" or ssigned dard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flow	v			Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 ps	ia
The u	_		•				-			ne above repo lovember	rt and that he ha	es knowledge of
no facto et		erein, a	mu mai salu	report is true	anu correc	i. Executed	i illis ine <u>'</u>		uay or		// //	, 20 RECEI
he facts st	ateu iii								m		nel b	CANSAS CORPORATI

I de	eclare 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.
	t 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 equip	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	reby request a one-year exemption from open flow testing for the Harden 1-4
gas wel	l 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 fur	ther 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: 1	1/17/09
	. //
	Signature: Jan W Roelf

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 IVED signed and dated on the front side as though it was a verified report of annual test results.

KANSAS CORPORATION COMMISSION

W403 Harden 1-4 North Goodland Goodland None February-09

	Casing			H	RS	REMARKS
DATE	PSI	STATIC	MCF	DO	OWN	(Maximum length 110 characters)
2/1/2009	1	1 2	4	9	0	
2/2/2009	1	1 2	4	10	0	
2/3/2009	1	6 2	9	5	12	
2/4/2009	1	6 2	9	0	24	
2/5/2009	1	6 2	9	0	24	
2/6/2009	1	6 2	9	0	24	
2/7/2009	1	6 29	9	1	10	bp
2/8/2009	1	4 2	7	6	0	
2/9/2009	1	4 2	7	9	0	
2/10/2009	1	4 2	7	7	5	
2/11/2009	1	4 2	7	6	2	
2/12/2009	1	4 2	7	9	0	
2/13/2009	1	2 2:	5	9	0	
2/14/2009	1	2 2:	5	9	0	
2/15/2009	1	2 2:	5	9	0	
2/16/2009	1	2 2:	5	9	0	
2/17/2009	1	2 2:	5	9	0	
2/18/2009	1	4 2	7	10	0	bp
2/19/2009	1.	3 20	5	10	0	
2/20/2009	. 1	3 20	6	9	0	
2/21/2009	1.	3 20	5	9	0	
2/22/2009	1.	3 20	5	9	0	
2/23/2009	1	3 20	5	9	0	
2/24/2009	1.	3 20	5	9	0	
2/25/2009	1.	3 20	5	9	0	
2/26/2009	1	3 20	5	10	0	
2/27/2009	1	3 20	5	10	6	
2/28/2009	1	3 20	5	8	6	
3/1/2009					0	
3/2/2009					0	
3/3/2009					0	

Total 209 RECEIVED KANSAS CORPORATION COMMISSION

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W403 Harden 1-4 North Goodland Goodland None March-09

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
3/1/2009	14	1 27	,	0	0	
3/2/2009	1:	5 28		4	0	
3/3/2009	1:	5 28		6	0	
3/4/2009	1:	5 28		10	0	
3/5/2009	1:	5 28		10	0	bp
3/6/2009	1:	5 28		10	0	
3/7/2009	1:	5 28		10	0	
3/8/2009	1:	5 28		10	0	
3/9/2009	1:	5 28		10	0	
3/10/2009	1.5	5 28		10	0	
3/11/2009	. 15	5 28		10	0	
3/12/2009	13	5 28		11	0	
3/13/2009	12	2 25		11	0	
3/14/2009	12	2 25		12	0	
3/15/2009	12	2 25		12	0	
3/16/2009	12	2 25		11	0	
3/17/2009	12	2. 25		11	0	
3/18/2009	12	2 25		11	0	
3/19/2009	12	2. 25		11	0	
3/20/2009	12	25		11	0	
3/21/2009	12	25		11	0	
3/22/2009	12	25		11	0	
3/23/2009	12	25		10	0	
3/24/2009	11	. 24		11	0	
3/25/2009	11	. 24		11	0	
3/26/2009	11	. 24		11	0	
3/27/2009	11	. 24		11	0	
3/28/2009	11	. 24		11	0	
3/29/2009	11	. 24		11	0	
3/30/2009	11	. 24		11	0	
3/31/2009	11	. 24		11	0	

Total 311

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