Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:		r.	T 2 \mathbf{k}		(See Insi	tructions on Re	everse Side	9)				
Open Flow				Test Date:					No. 15	- 0			
Deliverabilty				2/4/2010				15-181-20400-00 -					
Company Rosewoo		sou	rces				Lease G. Ihriç	9			31-20	Well Number	
County Shermar			on	Section 20			TWP RNG (E/W) 7S 39W		/W)		Acres Attributed 80		
Field Goodland			-	Reservoir Niobrara				Gas Gathering Connec Branch Systems Inc.					
Completion Date 3/19/2006				Plug Back Total Depth 1178'				Packer Set at					
Casing Size Weight 2.7/8" 6.5#			Internal Diameter 2.441			Set at 1179'		rations	To 1008'				
Tubing Size Weight				Internal Diameter			Set at Perforations		То				
Type Com Single (Type Flui Dry Ga		ction		Pump U	nit or Traveling	Plunger? Yes	7100	
Producing Annulus		(Ānr	nulus / Tubing) ————————————————————————————————————	% Carbon Dioxide				% Nitrogen			Gas Gravity - G _a	
Vertical D		H)				F	Pressure Taps		· ··· •,			Run) (Prover) Size	
1008'						F	lange				2"		
Pressure	Bulldu	ıp:	Shut in 2-3	2	20 10 at 1:05 (AM)			M) Taken 2-4 20			10 at 1:20	(AM) (@ <u>M</u>)	
Well on Li	ine:	1	Started 2-4	2	20 10 at 1:20 (AM) (PM)			Taken 2-5 20 10 at 2			10 at 2:05	(AM) (PM)	
						OBSE	RVED SURFAC	E DATA	,		Duration of Shut-	in 72 Hours	
Static /	ynamic Size		Circle one: Meter	Pressure Differential	Differential Flowing \		ad Wellheer	Wellhead Pressure Wellh (P_w) or (P_c) or (P_c)		Tubing ead Pressure	Duration	Liquid Produced	
Property			Prover Pressu psig (Pm)	I						or (P ₁) or (P ₀)	(Hours)	(Barrels)	
Shut-In			paig (111)	IIICIIBS H ₂ O			psig 11	25.4	psig	psla			
Flow			<u> </u>				15	29.4			72	0	
1			<u> </u>		<u> </u>	FLOW:	STREAM ATTI	<u> </u>	<u>. I</u>	l i			
Plate			Circle one:	Drage			Flowing			<u> </u>		Flowing	
Coeffiecient		Meter or		Extension	Press Gravity Extension Factor		Temperature Fa		dation Metered Flow		v GOR (Cubic Fe	et/ Fluid	
(F _b) (F _p) Mofd		Prover Pressure psia		√ P _m xh				Factor F,		(Mcfd)	Barrel)	Gravitu	
moid para							16		16	1,7			
	!				(OPEN FL	OW) (DE	LIVERABILIT	Y) CALCUL	ATIONS	<u>. </u>	/P \	² = 0.207	
P _c)2 =		;	(P _w)² =	<u> </u>	P _d =		% (P _a - 14.4) +	14.4 = _	:	(P _a)		
/D \2 - /E	2 12	/6		Choose formula 1 or 2	LOG of	Г		essure Curve	,	۲٦		Open Flow	
$(P_c)^2 - (P_u)^2$ $(P_c)^2 - (P_w)^2$		-,)- · (- w -		tormula		Sk	Siope = "n" n		LOG	Antilog	Deliverability		
(P _c)2- (P _d)2				divided by: P,2 - P	and divide prpr			Assigned Standard Slope		L]		Equals R x Antilog (Mcfd)	
				- t w	1			· · · · ·					
								··	-				
Open Flov	W		•	Mold @ 14	65 psia		Delivera	bility	-		Mcfd @ 14.65 ps	la	
The u	unders	igned	d authority, or	behalf of the	Company, s	states th	at he is duly a	uthorized t	o make t	he above repo	ort and that he ha	is knowledge of	
he facts st	tated t	herel	In, and that sa	ild report is true	e and correc	t. Exec	uted this the _	16	day of C	ecember		, ₂₀ 10 .	
)~	11.0	Ge 1	IHI	
			Witness (i	any)			_				Company KANSAS	CORPORATION COMM	
				· · - 			- -						
			For Comm	ission						Che	cked by	JAN 26 2011	

	under penalty of perjury under the laws of the state of Kansas that I am authorized to request sunder Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
and that the correct to the of equipment I hereby	foregoing pressure information and statements contained on this application form are true and best of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the G. Ihrig 31-20 the grounds that said well:
l further	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 agree to supply to the best of my ability any and all supporting documents deemed by Commission ssary to corroborate this claim for exemption from testing.
Date: 12/16/	Signature: <u>Janu</u> GUVU
	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.

RECEIVED KANSAS CORPORATION COMMISSION

W2056 G. Ihrig 31-20 North Goodland Goodland None February-10

	Casing			Н	RS	REMARKS
DATE	PSI	STATIC	MCF	D	OWN	(Maximum length 110 characters)
2/1/2010	1	1 24	ļ	9	0	cd
2/2/2010	1	1 24	1	1	22	
2/3/2010	1	6 29)	0	24	
2/4/2010	1	7 30)	0	24	
2/5/2010	1	5 28	3	19	0	
2/6/2010	1	3 20	ó	15	1.5	
2/7/2010	1	2 2	5	14	1	
2/8/2010	1	1 24	1	14	0	
2/9/2010	1	2 2:	5	5	18	
2/10/2010	1	9 32	2	0	24	
2/11/2010	1	9 32	2	0	24	
2/12/2010	2	0 33	3	0 .	15	
2/13/2010	2	0 33	3	0	24	
2/14/2010	2	1 34	‡	0	12	
2/15/2010	2	1 34	1	0	18	
2/16/2010	2	0 33	3	3	8	
2/17/2010	1	7 30)	10	8	
2/18/2010	1	6 29)	13	8	
2/19/2010	1	6 29)	12	6	
2/20/2010	1	4 2	7	14	5	
2/21/2010	1	3 20	ó	19	0	
2/22/2010	1	1 24	\$	19	0	
2/23/2010	1	0 2:	3	17	1	
2/24/2010	1	0 23	3	16	0	
2/25/2010	1	1 24	‡	14	1.5	
2/26/2010	1	1 24	‡	10	5.5	
2/27/2010	1	1 24	1	16	1	
2/28/2010	1	0 23	3	16	0	
3/1/2010		0 ()	0	0	
3/2/2010		0 ()	0	0	
3/3/2010		0 ()	0	0	

Total

256

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JAN 26 2011

W2056 G. Ihrig 31-20 North Goodland Goodland None March-10

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters
3/1/2010	9	22		16	0 bp
3/2/2010	9	22		17	0
3/3/2010	9	22		15	0
3/4/2010	9	22		14	0
3/5/2010	10	23		11	0 cal
3/6/2010	9	22		14	0
3/7/2010	8	21		18	0
3/8/2010	8	21		17	0
3/9/2010	8	21		17	0
3/10/2010	8	21		16	0
3/11/2010	8	21		16	0 bp
3/12/2010	8	21		16	0
3/13/2010	7	20	İ	16	0
3/14/2010	8	21		13	0
3/15/2010	8	21		16	0
3/16/2010	7	20	r	16	0
3/17/2010	7	20	ı	16	0
3/18/2010	7	20	ı	16	0 bp
3/19/2010	7	20	İ	15	0
3/20/2010	7	20	ı	16	0
3/21/2010	7	20	ı	16	0
3/22/2010	7	20	r	16	0
3/23/2010	7	20	ı	15	0
3/24/2010	7	20	ı	15	0 opened all way to 19mcf
3/25/2010	7	20)	16	0
3/26/2010	6	5 19	ı	16	0
3/27/2010	ϵ	5 19	r	16	0
3/28/2010	6	5 19	ı	16	0
3/29/2010	ϵ	5 19	٠	15	0
3/30/2010	6	5 19	,	15	0
3/31/2010	5	20)	13	0

Total 480

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