KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:		ONE	POINT	JI		See Instruc				ENABILI	11 1231		
	en Flov	٠,	SI			Test Date);			AF	l No. 15			
De	liverabi	ity				10/6/200	07			15	-181-20400-	,		
Rosewo		source	es					Lease G. Ihriç)			31-20	Well Number	
County Location Sherman NWNE				Section 20					RNG (E/W) Acres 39W 80			d		
				Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.						
Completi 3/19/200		9				Plug Bacl	k Total Dep	th		Packer	Set at			
Casing Size Weight 2 7/8" 6.5#			Internal D	Set 117		Perf 984	orations I'	To 1008'						
Tubing S	ize		Weig	nt		Internal Diameter Set at			Perf	orations .	То	_		
Type Cor Single (Type Fluid	d Productio	n		Pump U	Init or Traveling	g Plunger? Yes	/ 🔞	
	·		us / Tubin	g)			arbon Diox	de		% Nitro			avity - G _g	
Annulu	_			·								.6		
Vertical E	eptn(H)				•	Flan	sure Taps ge				2"	Run) (Prover) S	ıze
Pressure	Buildup	o: Sh	ut in _10	-6	20	07 at 9:	00	(PM)	Taken_1	0-7	20	07 _{at} 11:00	(AM) (PN	Л)
Well on L	ine:	Sta	arted 10-	7	_ 20	07 at 1	1:00		Taken 1		20	07 at 9:35	(AM)(PA	A)
			•				OBSERVE	D SURFAC	E DATA			Duration of Shut-	inH	ours
Static / Dynamic Property	Orific Size (inche	, _P ,	Circle one: Meter rover Press		tial	Flowing Temperature t	Well Head Temperature t	Wellhead	sing I Pressure P ₁) or (P _c)	(P _w)	Tubing ead Pressure or (P,) or (P _c)	Duration (Hours)	Liquid Produce (Barrels)	ed
Shut-In			psig (Pm)	Inches	720			psig 23	37.4	psig	psia			
Flow								19	33.4			24	0	
							FLOW STF	EAM ATT	RIBUTES					
Plate Coeffied (F _b) (F Mofd	ient	Me Prove	cle one: eter or Pressure osia	Press Extensi	on	Grav Fact F _g	or	Flowing Femperature Factor F ₁₁	F	viation actor F _{pv}	Metered Flor R (Mcfd)	w GOR (Cubic Fer Barrel)	Flowin Fluid Gravit G _m	1
	*			<u> </u>					<u> </u>		17		<u> </u>	
(P) ² =		·	(P)² =		•	(OPEN FLO			') CALCU: P _c - 14.4) -			(P _s)² (P _d)²	² = 0.207	
(° c /			(w/	Choose formula	1 or 2:				ssure Curv	1	г л 		Open Flow	
(P _c) ² - (I	P _a) ²	(P _c)²	- (P _w)²	1. P _c ² - F 2. P _c ² - F divided by: P _c ²		LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Sid	pe = "n" - or ssigned dard Stope	l n x	rog	Antilog	Deliverability Equals R x Ant (Mcfd)	
														_
Open Flo	<u> </u> w			Mcfd @	14.6	55 psia		Deliveral	oility	<u> </u>		Mcfd @ 14.65 psi	a	
The i	undersi	ned a	uthority. o	n behalf of	the (Company, s	tates that h	e is dulv a	uthorized	to make t	he above repo	ort and that he ha	s knowledge of	
	•	-	•			and correct		· .	_		December		2 30 97	
			Witness (if any)		ĸ	R ANSAS COF	ECEIVE RPORATION		for.	n a	2 / COR	1/2	
	***************************************		For Comr				<u> </u>	N 152	กกด		Che	cked by		

i deciale ulli	der penalty of perjury under	r the laws of the state of Ka	insas that I am authorized to request
exempt status ur	nder Rule K.A.R. 82-3-304 or	n behalf of the operator Rose	ewood Resources, Inc.
			on this application form are true and
correct to the be	st of my knowledge and belie	ef based upon available pro	duction summaries and lease records
of equipment ins	tallation and/or upon type of	completion or upon use beir	ng made of the gas well herein named.
l hereby requ	uest a one-year exemption fr	rom open flow testing for the	G. Ihrig 31-20
gas well on the g	grounds that said well:		
(Chao	k one)		
(Criec	is a coalbed methane pro	nducer	
	is cycled on plunger lift di		
<u> </u>		s for injection into an oil rese	rvoir undergoing ER
L,	- 1	ent time; KCC approval Dock	
1		ng at a daily rate in excess o	
<u>. </u>	,		·
I further agre	ee to supply to the best of m	ny ability any and all support	ing documents deemed by Commissio
staff as necessa	ry to corroborate this claim	for exemption from testing.	
Date: 12/10/200	1 7		
Jaic			
	Si	ignature:	W Roelp
	,		
		Title: Production Foren	nan ´
		Title: Production Forem	nan
	•	Title: Production Foren	nan

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 property be signed and dated on the front side as though it was a verified report of annual test resultansacron commission.

JAN 15 2008

W2056 G. Ihrig 31-20 North Goodland Goodland None October-07

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
10/1/2007	1	9 32	2	17	0	
10/2/2007	. 1	9 32	2	17	0	
10/3/2007	1	9 32	2	17	0	
10/4/2007	1	9 32	2	17	0	•
10/5/2007	1	9 32	2	17	0	
10/6/2007	1	9 32	2	17	0	si 9am cp19
10/7/2007	2	3 38	3	1	0	open 11am cp23
10/8/2007	2	1 34	ı	16	0	
10/9/2007	1:	9 32	2	17	0	
10/10/2007	1:	9 32	2	18	0	
10/11/2007	1	9 32	2	18	0	
10/12/2007	19	9 32	2	18	0	
10/13/2007	19	9 32	2	18	0	• *
10/14/2007	19	9 32	2	18	0	
10/15/2007	19	32	!	. 18	0	
10/16/2007	19	32	<u> </u>	17	0	
10/17/2007	19	32	<u> </u>	17	0	
10/18/2007	19	32		17	0	
10/19/2007	19	32	;	17	0	
10/20/2007	19	32	;	17	0	
10/21/2007	19	32	:	17	0	
10/22/2007	19	32	:	17	0	
10/23/2007	19	32		17	0	
10/24/2007	19	32		17	0	
10/25/2007	19	32		17	0	
10/26/2007	19	32		17	0	
10/27/2007	19	32		17	0	
10/28/2007	19	. 32		17	0	
10/29/2007	19	32		17	0	
10/30/2007	19	32		17	0	
10/31/2007	19	32		17	0	

Total 516

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W2056 G. Ihrig 31-20 North Goodland Goodland None November-07

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOV	VN	(Maximum length 110 characters)
11/1/2007	18	31		17	0	
11/2/2007	18	31	l	17	0	
11/3/2007	18	31	l	17	0	
11/4/2007	18	31	Ţ	17	0	bp
11/5/2007	18	31	l	17	0	
11/6/2007	18	31	l	17	0	•
11/7/2007	18	31	1	17	Ó	
11/8/2007	22	35	5	13	6	bp
11/9/2007	18	31		13	3	
11/10/2007	18	31		17	0	
11/11/2007	18	31	l	17	0	
11/12/2007	18	31		17	0	
11/13/2007	18	31		17	0	
11/14/2007	18	31		17	1	
11/15/2007	19	32	2	17	3	bp
11/16/2007	18	31		17	12	
11/17/2007	22	35	i	8	7	
11/18/2007	20	33	,	11	0	
11/19/2007	19	32	<u> </u>	17	0	bp
11/20/2007	19	32	<u> </u>	17	0	
11/21/2007	18	31		17	0	
11/22/2007	18	31		16	2	
11/23/2007	18	31		16	2	
11/24/2007	18	31		16	0	
11/25/2007	18	31		16	0	
11/26/2007	22	35		16	2	
11/27/2007	18	31		16	0	
11/28/2007	18	31		16	0	
11/29/2007	18	31		16	0	
11/30/2007	18	31		15	3 1	bp froze
12/1/2007					0	

Total

477

RECEIVED KANSAS CORPORATION COMMISSION

W2056 G. Ihrig 31-20 North Goodland Goodland None

December-07

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
12/1/2007	18	3:		16	0	
12/2/2007	18	31	l	16	2	bp
12/3/2007	18	31	l	16	0	
12/4/2007	18	31	l	17	0	
12/5/2007	18	31	l	17	0	bp
12/6/2007	18	31	[17	0	
12/7/2007	18	31	l	17	0	
12/8/2007	18	31	l	17	0	
12/9/2007	18	31	l	17	0	
12/10/2007	18	31	l	17	0	bp
12/11/2007	18	31		17	0	
12/12/2007	18	31	l	17	0	
12/13/2007	18	31	·	17	0	bp
12/14/2007	18	31		17	0	
12/15/2007	18	31		17	0	
12/16/2007	18	31		17	0	
12/17/2007	18	31		18	0	bp
12/18/2007					0	
12/19/2007					0	
12/20/2007					0	
12/21/2007					0	
12/22/2007					0	,
12/23/2007					0	!
12/24/2007					0	
12/25/2007					0	
12/26/2007					0	•
12/27/2007					0	
12/28/2007					0	
12/29/2007					0	
12/30/2007					0	
12/31/2007					0	

Total

287

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