KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

. 3

Type Test	t: oen Flo	NA /	MSI		(See Instruc	tions on Re	verse Side	e)			
= :	eliverat				Test Date 6/12/20					I No. 15 -181-20416-(0000	
Company		sou	rces	_			Lease G. Ihrig				13-20	Well Number
County Sherman	n		Locati NWSW		Section 20		TWP 7S		RNG (E 39W	/W)		Acres Attributed 80
Field Goodlan	nd				Reservoir Niobrara					thering Conn Systems In		
3/22/200		te			Plug Bac 1177 '	k Total Dep	th		Packer :	Set at		
Casing S 2 7/8"	ize		Weigh 6.5#	t	Internal [2.441	Diameter	Set 8	nt 7.67'	Perfo 106	orations 2'	то 1098'	
Tubing Si	ize		Weigh	t	Internal [Diameter	Set a	at	Perfo	orations	То	
Type Con Single (Type Flui Dry Ga	d Production	า		Pump U Flowir	nit or Traveling	Plunger? Yes	/ No
	_	(Anı	nulus / Tubing	9)	% C	arbon Dioxi	de		% Nitrog	gen		avity - G _g
Annulus Vertical C		 -				Pres	sure Taps				.6 (Meter	Run) (Prover) Size
1098'						Flan	ge				2"	
Pressure	Buildu	-	Shut in <u>6-1</u>		20 13 at 2						13 at 3:00	(AM((PM))
Well on L	.ine:		Started 6-1	22	0 13 at 3	:00	(AM)(PM)	Taken 6-	13	20	13 at 3:50	(AM) (PM)
						OBSERVE	D SURFACI	E DATA			Duration of Shut-	in 24 Hours
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (P	Pressure ,) or (P _c)	Wellhe	Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			F-19 (1 111)	mende (1 ₂ 0			psig 14	28.4	psig	psia		
Flow							6	20.4			24	0
			-d			FLOW STR	EAM ATTR	IBUTES				
Plate Coeffied (F _b) (F Mcfd	ient	Pro	Circle one: Meter or ever Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _c	or	Flowing emperature Factor F _{ft}	Fa	iation ctor	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravity
										15		
					(OPEN FL	OW) (DELIV	ERABILITY	CALCUL	ATIONS		(P.)	² = 0.207
(P _c)² ≈		_:	(P _w) ² =				% (F	_c - 14.4) +	14.4 =	;	(P _d)	
(P _c) ² - (F		(F	P _c) ² - (P _w) ²	1. P _c ² - P _g ² 2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slop As:	ssure Curve be = "n" orsigned	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
				divided by: $P_c^2 - P_w$	by:	<u> </u>	Stands	ard Slope				
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia
		_	·				•			· ·	rt and that he ha	as knowledge of
the facts st	tated ti	herei	n, and that sa	id report is true	and correct	t. Executed	this the 26	<u> </u>	day of N	lovember		, 20 <u>13</u>
			Witness (if	any)	KANSAS	RECEI\ CORPORATI	VED ON COMMI <u>S</u>	SION	Xu	(IIII)	Company Cut	uly
			For Comm	ission		DEC 2	6 2013 -			Chec	cked by	<i>V</i>

CONSERVATION DIVISION WICHITA, KS

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.								
	oing pressure information and statements contained on this application form are true and								
	of my knowledge and belief based upon available production summaries and lease records								
• •	llation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the <u>G. Ihrig 13-20</u>								
	ounds 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								
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D								
_	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.								
	Signature: Janual Mature								
	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

W2055 G. Ihrig 13-20 North Goodland Goodland None June-13

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

Total 435

RECEIVED KANSAS CORPORATION COMMISSION

W2055 G. Ihrig 13-20 North Goodland Goodland None July-13

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

Total 456

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