KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Re	verse Side)			
Ope	n Flow	USI		T D1				A DI	NI- 45		
	verabilty			Test Date 10/8/14):				No. 15 -20328-00 0	0	
Company Rosewoo	d Reso	ources				Lease Pancak	æ			1-9	Well Number
County Sherman		Loca SENE		Section 9		TWP 7S		RNG (E/	W)		Acres Attributed 80
Field Goodland	 I			Reservoir Niobrara					nering Conn Systems In		
Completion 8/14/2003				Plug Bac 1211'	k Total Dept	th		Packer S	et at	<u> </u>	
Casing Siz	:e	Weig 10.5	•	Internal E 4.052	Diameter	Set 122		Perfor	ations 3'	то 1040'	
Tubing Siz	е	Weig	jht	Internal D	Diameter	Set	at	Perfo	ations	То	
Type Comp				Type Flui Dry Ga	d Production	n		Pump Un Flowin	it or Traveling	Plunger? Yes	/ No
		Annulus / Tubi	ng)		arbon Dioxi	ide		% Nitroge		Gas Gr	avity - G
Annulus							_			.6	
Vertical De 1040'	pth(H)				Pres Flan	sure Taps ge			<u></u>	(Meter I 2"	Run) (Prover) Size
Pressure E	Buildup:	Shut in 10)-7	14 at 1					20	14 _{at} 1:55	(AM)(PM)
Well on Lir	ne:	Started 10)-8	0 <u>14</u> at 1	:55	(AM) (PM)	Taken 10)-9	20	14 at 2:45	(AM) (PM)
		-			OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_24 Hours
Static / Dynamic	Orifice Size	Circle one Meter Prover Pres	Differential	Flowing Temperature	Well Head Temperature	Wellhead	sing I Pressure	Wellhea	ubing ad Pressure	Duration (Hours)	Liquid Produced (Barrels)
Property	(inches)	psig (Pm		t	t	psig	P ₁) or (P _c) psia	psig	(P ₁) or (P ₀)	(Flours)	(Dalless)
Shut-In						8	22.4				
Flow						4	18.4		<u></u>	24	0
		<u>.</u>			FLOW STR	REAM ATTE	RIBUTES				
Plate Coeffiecie (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac F _c	tor	Flowing Temperature Factor F _{f1}	Fa	iation ctor	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity
INCIG		,	 -		_		-		 8	_	
				(OPEN FL	OW) (DELIV	ERABILITY	') CALCUL	ATIONS		(P)	²= 0.207
(P _c) ² =		: (P _w) ²		P _d =		% (P _c - 14.4) +	14.4 =	<u></u> :	(P _d)	
(P _c) ² - (P _c or (P _c) ² - (P _c		(P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _a ²	LOG of formula 1. or 2.		Slo	essure Curve pe = "n" - or ssigned	n x t	oo Doo	Antilog	Open Flow Deliverability Equals R x Antilog
(F _c) (F _c	5)-	_	divided by: P _c ² -P	and divide by:	P _c ² -P _w ²		dard Slope	_			(Mcfd)
	-							-			
Open Flow	<u></u>		Mcfd @ 14	.65 psia		 Deliveral	bility			Mcfd @ 14.65 ps	l ia
The ur	ndersigr	ned authority,	on behalf of the	Company, s	tates that h	ne is duly a	uthorized to	o make th	e above repo	ort and that he ha	as knowledge of
the facts sta	ated the	rein, and that	said report is tru	e and correc	t. Executed	this the 1			ecember		, ₂₀ <u>14</u>
		pan.	. Cf and	K	(CC Vy	CHIL		all	all.	Marke Company	ury
			s (if any)		FEB 23	2015					
		For Car	nmission			EMED			Che	cked by	

I declare 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. and that 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 equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Pancake 1-9	
gas well on the grounds that said well:	
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 further agree to supply to the best of my ability any and all supporting documents deemed by Commissistaff as necessary to corroborate this claim for exemption from testing. Date: 12/10/14	»n
FEB 2 3 2015 RECEIVED Signature:	

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.

W413 Pancake 1-9 North Goodland Goodland None October-14

	Casing			HR		REMARKS
DATE	PSI	STATIC	MCF	DO	WN	(Maximum length 110 characters)
10/1/201	4	4	17	10	0	
10/2/2014	4	5	18 .	7	0	
10/3/201	4	5	18	7	0	
10/4/201	4	5	18	7	0	
10/5/201	4	5	18	7	0	
10/6/201	4	5	18	7	0	
10/7/201	4	5	18	7	0	shut in for state
10/8/201	4	8	21	0	24	opened up
10/9/201	4	5	18	7	0	
10/10/201	14	5	18	7	0	
10/11/201	14	5	18	7	1	
10/12/201	14	5	18	7	0	
10/13/201	14	5	18	7	0	
10/14/201	14	4	17	8	0	
10/15/201	14	4	17	8	0	
10/16/201	14	4	17	8	1	
10/17/201	14	4	17	8	0	
10/18/201	14	4	17	8	0	
10/19/201	14	4	17	8	0	
10/20/201	14	4	17	8	0	
10/21/201	14	4	17	8	0	
10/22/201	14	5	18	7	0	
10/23/201	14	5	18	7	0	
10/24/201	14	5	18	7	0	
10/25/201	14	5	18	7	0	
10/26/201	14	5	18	7	0	
10/27/201	14	5	18	7	0	
10/28/201	14	5	18	7	0	
10/29/201	14	5	18	8	0	
10/30/201	14	5	18	8	0	
10/31/201	14	5	18	8	0	

Total 224

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W413
Pancake 1-9
North Goodland
Goodland
None
November-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOW	N_	(Maximum length 110 characters)
11/1/2014		4 1	7	8	0	
11/2/2014		4 1	17	8	0	
11/3/2014		4 1	17	8	0	
11/4/2014		4 1	17	8	0	
11/5/2014		4 1	17	8	0	
11/6/2014		4 1	7	8	0	
11/7/2014		4 1	17	8	0	
11/8/2014		3 1	16	8	0	
11/9/2014		3 1	16	8	0	
11/10/2014		3 1	16	8	0	
11/11/2014		3 1	16	8	0	
11/12/2014		3 1	16	8	0	
11/13/2014		3 1	6	8	0	
11/14/2014		3 1	16	5	0	
11/15/2014		3 i	16	5	0	
11/16/2014		3 1	6	4	0	
11/17/2014		3 1	16	6	0	
11/18/2014		3 1	6	6	0	
11/19/2014		3 1	16	9	0	
11/20/2014		3 1	16	9	0	
11/21/2014		3 1	6	8	0	
11/22/2014		3 1	16	8	0	
11/23/2014		3 1	6	8	0	
11/24/2014		3 1	16	8	0	
11/25/2014		3 1	6	8	1.5	
11/26/2014		3 1	6	8	0	•
11/27/2014		3 1	16	8	0	
11/28/2014		3 1	16	8	0	
11/29/2014		3 1	16	8	0	
11/30/2014		3 1	6	8	0	
12/1/2014					0	

Total 228

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W413
Pancake 1-9
North Goodland
Goodland
None
December-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters
12/1/2014		3	16	7	0	
12/2/2014	•	3	16	7	0	
12/3/2014	ŀ	3	16	6	0	
12/4/2014	ļ	3	16	7	0	
12/5/2014	ļ	3	16	7	0	
12/6/2014	ļ.	3	16	7	0	
12/7/2014	ŀ	3	16	7	0	
12/8/2014	ļ.	3	16	7	0	
12/9/2014	ļ	4	17	8	0	
12/10/201	4	4	17	8	0	
12/11/201	4	4	17	7	0	
12/12/201	4	4	17	8	0	
12/13/201	4	4	17	8	0	
12/14/201	4	4	17	8	0	
12/15/2014	4	4	17	8	0	
12/16/201	4	4	17	7	0	
12/17/201	4	4	17	7	0	
12/18/201	4	3	16	7	0	
12/19/201	4	3	16	7	0	
12/20/201	4	3	16	7	0	
12/21/201	4	3	16	7	0	
12/22/201	4	3	16	7	0	
12/23/201	4	3	16	7	0	
12/24/201	4	3	16	7	0	
12/25/201	4	3	16	7	0	
12/26/201	4	3	16	7	0	
12/27/201	4	3	16	7	0	
12/28/201	4	3	16	7	0	
12/29/201	4	3	16	7	0	
12/30/201	4	3	16	5	0	
12/31/201	4	3	16	0	0	

Total 213

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