KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Rev	rerse Side)						
□ op	en Flo	w }	ISI						451	No. 45					
	eliverab				Test Date 10/24/20					No. 15 181-20443-0	0000				
Company		sou	rces				Lease Leonard		_	 _		23-29	Well Nu	mber	
			Section 29				RNG (E/	W)	_	Acres Attributed 80					
Field Goodlan	nd			-	Reservoir Niobrara					hering Conn Systems In					
Completic	on Dat	e	<u> </u>		Plug Bac	k Total Dep	oth		Packer S	<u> </u>					
10/23/20 Casing S			Weigh	it	1268' Internal D	Diameter	Set a	t	Perfo	rations		To			
4 1/2" 10.5#			4.052	Nametor.	1267 Set a			1036' Perforations			1074'				
Tubing Si			Weigh			<u> </u>							$\overline{}$		
Type Con Single (Type Flui Dry Ga	d Productions S	n		Pump Ur Flowin	nit or Traveling	Plunge	r? Yes	/ (No.)		
	-	(Anı	nulus / Tubin	9)	% C	% Carbon Dioxide				jen		Gas Gravity - G _g			
Annulus Vertical D		1)				Pres	ssure Taps			_ _		(Meter Run) (Prover) Size			
1315'						Flar			_			2"			
Pressure	Buildu	•		23 2						20			((AM)(PM)	
Well on L	ine:		Started 10-	242	₀ <u>13</u> at <u>1</u>	1:30	(AM)(PM)	Taken 10)-25	20	<u>13</u> at	12:15		(AM)(PM)	
						OBSERVE	ED SURFACE	DATA			Duratio	n of Shut-	in_24	Hours	
Static / Dynamic	Dynamic Size		Circle one: Meter Prover Press	Pressure Differential in	Flowing Temperature	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _c) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Property	(inch	es)	psig (Pm)	Inches H ₂ 0	t	<u> </u>	psig	psia	psig	psia					
Shut-In	_				<u> </u>		17	31.4		-	24		0		
Flow				_1		EI OW STI	10 L	24.4		<u> </u>			<u> </u>		
			Circle one:			FLOW STI								Flowing	
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Meter or over Pressure psia	Press Extension P _m x h	Gravity Factor F _g		Temperature Fa		viation Metered actor R F _{pv} (Mcfr		(Cubic			Fluid Gravity G _m	
		_						_		20					
					(OPEN FL	OW) (DELIV	VERABILITY	CALCUL	ATIONS				²= 0.2	.07	
(P _c) ² =		<u>_:</u>	(P _w) ² =	<u>:</u>			.% (P	_c - 14.4) +	14.4 =	: -		(P _d)	²= <u>-</u> -	<u> </u>	
		1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d	LOG of formula 1, or 2. and divide	P _c ² - P _w ²	Backpressure Curve Stope ≈ "n" or Assigned Standard Stope		n x 106		Ar	Antilog		oen Flow iverability s R x Antilog (Mcfd)			
				- <u>c</u> `₩				<u>-</u>	 						
Open Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility	_		Mcfd @	14.65 psi	ia		
		_		n behalf of the							ort and t	that he ha	ıs know	rledge of	
the facts s	stated t	herei	in, and that s	aid report is true	and correct KANS	AS CORPOR	RAHISN'COMM		day of	.4.16.1/	1	11/1/1	- 6	20	
			Witness	if any)		DEC	2 6 2013		DU	"LMULL For		<u> (UA</u> S	W	4	
			For Com	nission			/ATION DIVISH CHITA, KS	in i		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 Leonard 23-29
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 Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 12/6/13 DEC 2 6 2013 CONSERVATION DIVISION WICHITA, KS
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.

W2324 Leonard 23-29 North Goodland Goodland None October-13

EleDess						
FloBoss	Casing	-	-	HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
10/1/2013			3		-0	<u></u>
10/1/2013			.3 :3	21 21	0	
10/2/2013			.3 !3	21	0	
10/3/2013			.3	21	0	
10/4/2013			.3 .3	21	0	
10/6/2013			3	21	0	
10/7/2013			3	21	0	
10/8/2013			3	21	0	
10/9/2013			2	20	0	
10/10/2013			.3	21		bp
10/11/2013			3	20	0	
10/12/2013			2	20	0	
10/13/2013			2	20	0	
10/14/2013			.2	20	0	
10/15/2013			2	18	3	
10/16/2013			.2	17	7	
10/17/2013			2	23	0	
10/18/2013		9 2	2	21	0	
10/19/2013		9 2	2	21	0	
10/20/2013		9 2	2	21	0	
10/21/2013	1	0 2	3	21	0	
10/22/2013		9 2	.2	21	0	
10/23/2013		9 2	2	21	0	shut in, bp
10/24/2013	1	7 3	0	0	24	opened up
10/25/2013	1	0 2	3	22	0	
10/26/2013	1	0 2	3	20	0	
10/27/2013	1	0 2	.3	20	0	
10/28/2013	1	0 2	:3	20	2	

Total 616

10

10

10

23

23

23

20

21

20

0

1.5

10/29/2013

10/30/2013

10/31/2013

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DEC 2 6 2013

W2324 Leonard 23-29 North Goodland Goodland None November-13

November-1

FloBoss

				TIDE		DEMADES
DATE	Casing PSI	STATIC	MCF	HRS DOWN		REMARKS (Maximum length 110 characters)
				_	_	(Waximum length 110 characters)
11/1/2013	10			21	0	
11/2/2013	10			21	0	
11/3/2013	10			21	0	
11/4/2013	10			21	0	
11/5/2013	10			21	0	
11/6/2013	9			20	0	
11/7/2013	9			20	0	
11/8/2013	9			20	0	
11/9/2013	ġ			20	0	
11/10/2013	9			20	0	
11/11/2013	9			20	0	
11/12/2013	9			20	0	
11/13/2013	٩			20	0	
11/14/2013	ġ	22		20	0	
11/15/2013	9	22		20	0	
11/16/2013	9	22	,	20	0	
11/17/2013	9	22		20	0	
11/18/2013	9	22	•	20	0	
11/19/2013	9	22		20	0	
11/20/2013	9	22		20	0	bp
11/21/2013	9	22	,	20	0	
11/22/2013	g	22	,	16	0	
11/23/2013	9	22	•	20	0	
11/24/2013	9	22		13	0	
11/25/2013	و	22		28	0	
11/26/2013	9	22		24	0	
11/27/2013	9	22	,	14	0	
11/28/2013	9	22		25	0	
11/29/2013	9	22		20	0	
11/30/2013	9	22	•	23	0	
12/1/2013					0	

Total 608

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