KCC WICHITA

## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flow	BIST		(	See Instruct	ions on Re	verse Side	15-	181-30	268-00	000	ı	
Deliverability					Test Date: 10/20/2011				No. 15 20560				
Company		urces, Inc.				Lease Leonard	 i			33-29	Well No	ımber	
County Location S				Section 29					W)		Acres Attributed		
Field Goodlan	d				Reservoir Niobrara				hering Conn Systems In				
Completic 8/23/201				Plug Bac 1308'	Plug Back Total Depth				Set at				
Casing Si 4 1/2"		Weight 10.5#		Internal Diameter Set at 4,000 1348'				Perfo 104	rations 4'	—— то 1076	то 1076'		
Tubing SI	zθ	Weight			Internal Diameter Set at				rations	То			
Type Con Single (			<del></del>	Type Flui	d Production	1		Pump Ur Flowin	nit or Traveling	Plunger? Yes	s No	)	
Producing	Thru (A	nnulus / Tubing	·		arbon Dioxi	de	•	% Nitrog	·		Gas Gravity - G		
Annulus					Duna	Toma					· Curs /C	Denver Clas	
Vertical D 1357'	epin(H)				Pressure Taps Flange							(Meter Run) (Prover) Size 2"	
Pressure	Buildup:	Shut in	9 2	0 11 at 8		(AM) PM)	Taken_10	)-20	20	11 at 8:30		(AM)(PM)	
Well on L	ine:	Started 10-2	2	o 11 at 8	11 at 8:30 (PM) Taken 10-21 20 11						(	(AM) (PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shu	<sub>st-in</sub> 24	Hours	
Static / Dynamic Property	Orifice Size (inches)	Size Prover Pressure in Temperature Temperature		Temperature	Cas Wellhead (P <sub>w</sub> ) or (P	Pressure ) or (P <sub>e</sub> )	$(P_m)$ or $(P_1)$ or $(P_n)$		Duration (Hours)	ļ ,			
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0			psig 37	psla 51.4	psig	psla				
Flow						33	47.4			24	0		
					FLOW STR	EAM ATTR	IBUTES						
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Gircle one:  Meter or  Prover Pressure psla  Prover Pressure		Fac	Gravity Factor F <sub>e</sub>		Flowing Dev Factor F		Metered Flow R (Mcfd)	w GOi (Cubic l Barre	Feet/	Flowing Fluid Gravity G_	
									68				
(P <sub>a</sub> ) <sup>2</sup> = .	:	(P <sub>w</sub> ) <sup>2</sup> =_	•	(OPEN FLO	OW) (DELIV		) CALCUL P <sub>e</sub> - 14.4) +				$(a)^2 = 0.3$ $(a)^2 =$	207	
(P <sub>a</sub> ) <sup>2</sup> - (I or (P <sub>a</sub> ) <sup>2</sup> - (I	P <sub>a</sub> )*	(P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	1. P. 2 - P. 2 2. P. 2 - P. 2 tivided by: P. 2 - P.	LOG of formula 1, or 2, and divide	P. 2 · P. 2	Backpre Slo As	ssure Curve pe = "n" - or signed lard Slope		LOG [	Antilog	O De	pen Flow diverability is R x Antilog (Mc(d)	
				]									
Open Flo	w		Mcfd @ 14.	.65 psia		Deliverat	oility	<u> </u>		Mold @ 14.65 p	osla		
The	undersign	ed authority, on		•	states that h			o make ti		<u>`</u>		wledge of	
the facts s	tated the	rein, and that sa	ld report is tru	e and correc	t. Executed	this the 2	8	day of _D	ecember		·,	20 11	
		Witness (if	env)			-		pu	null	_GU	H	$\mathcal{Q}_{\underline{}}$	
		AANTHORES (1)	enyj						FOR	~m:\$401₹		RECEIVE	
	_	For Commi	ssion			•			Che	cked by		NPR 2 4	

exempt status under f and that the foregoin correct to the best of of equipment installat	enalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  g pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ion and/or upon type of completion or upon use being made of the gas well herein named. a one-year exemption from open flow testing for the Leonard 33-29
gas well on the groun	
is i	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
	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.

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KCC WICHITA

W2726
Leonard 33-291
North Goodland
Goodland
None
October-11

**FloBoss** 

	Casing				HR		REMARKS
DATE	PSI	STAT	(C	MCF	DO	WN	(Maximum length 110 characters)
10/1/2011		33	46	,	68	0	
10/2/2011		33	46	;	68	0	
10/3/2011		33	46	,	68	0	
10/4/2011		33	46	•	68	0	
10/5/2011		33	46	,	68	0	
10/6/2011		33	46	,	68	0	
10/7/2011		33	46	,	68	0	
10/8/2011		33	46	;	68	0	
10/9/2011		33	46	;	68	0	
10/10/2011		33	46	<b>,</b>	68	0	
10/11/2011		33	46	<b>j</b>	68	0	
10/12/2011		33	46	i	68	0	
10/13/2011		33	46	j	68	0	
10/14/2011		33	46	j	68	0	
10/15/2011		33	46	j	68	0	
10/16/2011		33	46	j	67	0	
10/17/2011		33	46	<b>j</b>	67	0	
10/18/2011		33	46	;	67	0	
10/19/2011		33	46	5	68	0	shut in for test
10/20/2011		37	50	)	0	24	opened up
10/21/2011		34	47	1	65	2	
10/22/2011		34	47	•	68	0	
10/23/2011		33	46	i	68	0	
10/24/2011		33	46	;	68	0	
10/25/2011		33	46	5	66	2	
10/26/2011		33	46	5	68	0	
10/27/2011		33	46	5	68	0	
10/28/2011		33	46	5	68	0	
10/29/2011		33	46	5	68	0	
10/30/2011		33	46	<b>5</b>	67	0	
10/31/2011		33	46	5	67	0	

Total 2030

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KCC WICHITA

W2726 Leonard 33-29; North Goodland Goodland None

November-11

**FloBoss** 

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
11/1/2011	3	3 46	5	67	0	
11/2/2011	3	3 46	5	67	0	
11/3/2011	3	3 46	5	67	0	
11/4/2011	3	3 46	j	67	0	
11/5/2011	3	3 46	5	67	0	
11/6/2011	3	3 46	5	70	0	
11/7/2011	3	3 46	5	67	0	
11/8/2011	3	2 45	i	67	0	
11/9/2011	3	2 45	5	67	0	
11/10/2011	3	2 45	j	67	0	
11/11/2011	3	2 45	i	67	0	bp
11/12/2011	3	2 45	5	67	0	
11/13/2011	3	3 46	5	67	0	
11/14/2011	3	2 45	5	67	0	
11/15/2011	3	2 45	j	67	0	
11/16/2011	3	2 45	;	67	0	
11/17/2011	3	3 46	5	56	0	
11/18/2011	3	3 46	5	67	0	
11/19/2011	3	2 45	;	66	0	
11/20/2011	3	2 45	5	66	0	
11/21/2011	3	4 47	,	56	0	
11/22/2011	3	2 45	i	64	0	
11/23/2011	3	2 45	5	66	0	
11/24/2011	3	2 45	;	66	0	
11/25/2011	3	2 45	j	66	0	
11/26/2011	3	2 45	<b>.</b>	66	0	
11/27/2011	3	2 45	;	59	0	
11/28/2011	3	2 45	5	67	0	
11/29/2011	3	2 45	5	67	0	
11/30/2011	3	2 45	5	67	0	
12/1/2011		0 (	)	0	0	

Total 1974

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KCC WICHITA

W2726 Ceonard 33:29\ North Goodland Goodland

None

December-11

FloBoss

	Casing				RS	REMARKS
DATE	PSI	STATIC	MCF	D	OWN	(Maximum length 110 characters)
12/1/2011		32	45	67	0	
12/2/2011		33	46	63	0	
12/3/2011		34	47	61	0	
12/4/2011		33	46	56	0	
12/5/2011		33	46	61	0	
12/6/2011		34	47	58	0	
12/7/2011		33	46	54	0	
12/8/2011		33	46	55	0	bр
12/9/2011		32	45	67	0	
12/10/2011		32	45	60	0	
12/11/2011		32	45	65	0	
12/12/2011		34	47	56	0	
12/13/2011		32	45	65	0	
12/14/2011		32	45	67	0	
12/15/2011		32	45	66	0	
12/16/2011		32	45	59	4.5	
12/17/2011		32	45	62	0	
12/18/2011		32	45	66	0	
12/19/2011		32	45	66	0	
12/20/2011		32	45	66	0	
12/21/2011		32	45 ·	56	0	
12/22/2011		32	45	65	0	
12/23/2011		32	45	65	0	
12/24/2011		32	45	60	0	
12/25/2011		32	45	61	0	
12/26/2011		32	45	62	0	
12/27/2011		32	45	62	0	
12/28/2011		32	45	65	0	
12/29/2011		31	44	67	0	
12/30/2011		32	45	67	0	
12/31/2011		31	44	67	0	

Total 1937

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