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

Type Test	t:	~	72			(	See Instru	ctions on	Reve	erse Side	)					
☐ Op	en Flo	w 🕰				Test Date	٠.				ΔΡ	No. 15				
De	liverab	ilty				6/22/14						3-20606-00 <b>0</b>	Ø			
Company		sourc	es, Inc.				_	Lease Miller			••			2-13	Well No	umber
County Location Cheyenne NW SW/4					Section 13	TWP 3S	= 1			(W)		_	Acres 80	Attributed		
Field Cherry C	 Creek						Reservoir Niobrara					hering Conn Systems In		1		
Completion Date 7/1/2005				Plug Back Total Depth 1464'					Packer	Set at						
Casing S 4 1/2"	ize		Weig 10.5			Internal Diameter 4.052			Set at 1464'			rations O'		To 1302'		
Tubing Size Weight NONE						Internal [					rations	То				
Type Con Single (					<u>-</u>	Type Flui Dry Ga	d Productions	on				nit or Traveling	Plun	iger? (Yes	No No	<del></del> -
Producing	g Thru		lus / Tubir	ng)		<u>-</u>	arbon Dio	xide			% Nitrog	<del></del>			aravity -	G,
Annulus Vertical C		i)						ssure Taps	 ;		<del></del> .				Run) (F	rover) Size
1302'		<del></del> -	<u> </u>	7		44 0	Flar	<u> </u>			-		4.4	2"		
Pressure	Buildu	p: Sh	nut in6-1			$0.14 \text{ at } \frac{8}{14}$				Taken_6-		20				(PM)
Well on L	.ine: 	St	arted _6-2	22_	20	0 14 at 9	:00	_((AM)(PI	M) <sup></sup>	Taken 6-	23	20	14	at 9:45		(PM)
							OBSERV	ED SURFA	ACE	DATA			Dura	ition of Shu	t-in_36	0Hours
Static / Dynamic	Dynamic Size Prover Pressure in		Differential	Ftowing Well Head Temperature						Tubing Wellhead Pressure		Duration (Hours)		Liquid Produced (Barrels)		
Property			3)     """			t	$(P_w)$ or $(P_t)$ or $(P_a)$ psig psia			(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )  psig psia		,,		`		
Shut-In		1						159		173.4						
Flow					_	,		50		64.4	l .		360	0		
							FLOW ST	REAM AT	TRIE	BUTES						
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient	M Prove	rcie one: eter or er Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Grav Fact F <sub>s</sub>	tor	Flowing Temperatur Factor F <sub>11</sub>	е	Fac	ation ctor	Metered Flow R (Mcfd)	<b>v</b>	GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>
1												36	Ť	_		
						(OPEN FL			-						) <sup>2</sup> = 0.2	.07
(P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u>	(P <sub>w</sub> ) <sup>2</sup>		se formula 1 or 2:	P <sub>d</sub> =				- 14.4) +	14.4 =			(P,	ı)² =	=
$(P_o)^2 - (P_d)^2$ or $(P_c)^2 - (P_d)^2$		$(P_c)^2 - (P_w)^2$ 1. $P_c^2$ 2. $P_c^2$		. P <sub>c</sub> ²-P <sub>a</sub> ² . P <sub>c</sub> ²-P <sub>a</sub> ² dby: P <sub>c</sub> ²-P <sub>a</sub> ²	D2-P2 LOG of tormula 1. or 2. end divide p2-P2			Backpressure Curve Slope = "n"			rog	Antilog		Del Equal:	Open Flow Deliverability Equals R x Antilog (Mcfd)	
									_							
Open Flo	AN/				 Vicfd @ 14.0	65 neia		 Delive	rahil		<u> </u>		Mefd	@ 14.65 p	sia	
		ans-	nuith a site :				otatas the			· · · · · ·	make 1					ulades of
		-	-			company, s						ecember		a man ne n		<sub>20</sub> <u>14</u> .
							Rec SAS CORPOR	eived			ani		111	ati	> 102 N	·
	_		Witness	(if any)			FEB 2	2 5 201	5	1		For	Compan	iy	7	
			For Con	mission	1	(	CONSERVAT WICH	TION DIVISI IITA, KS	ON			Che	cked by			

l declare i	under penalty of periusy under the laws of the state of Kanaga that Lam authorized to request
	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
	oregoing pressure information and statements contained on this application form are true and
correct to the b	best of my knowledge and belief based upon available production summaries and lease records
='	nstallation and/or upon type of completion or upon use being made of the gas well herein named. equest a one-year exemption from open flow testing for the
	e grounds that said well:
(Ch	neck one)
, [	is a coalbed methane producer
ĺ	is cycled on plunger lift due to water
Ĩ	is a source of natural gas for injection into an oil reservoir undergoing ER
Ĩ	is on vacuum at the present time; KCC approval Docket No
Ĩ	is not capable of producing at a daily rate in excess of 250 mcf/D
,	gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
Date: <u>12/12/1</u>	4
1	Received  KANSAS CORPORATION COMMISSION  FEB 2 5 2015  Title: Production Assistant  CONSERVATION DIVISION WICHTA, KS

## 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.

W358
Miller 2-13
St. Francis
St. Francis
None
June-184

FloBoss					
	Casing		]	HRS	REMARKS
DATE	PSI	STATIC MO	CF 1	DOWN	(Maximum length 110 characters)
6/1/2013 4	51	64	34	0	
6/2/201	56	69	34	0	
6/3/2018	49	62	36	0	
6/4/201 <b>3</b>	65	78	34	0	turn on pumping unit
6/5/2018	46	59	34	0	
6/6/201	48	61	32	0	turn off pumping unit
6/7/201	141	154	19	9	
6/8/201	145	158	0	24	
6/9/201	148	161	0	24	
6/10/201	150	163	0	24	
6/11/2013	151	164	0	24	
6/12/2013	153	165	0	24	
6/13/2013	154	167	0	24	
6/14/2013	155	168	0	24	
6/15/2013	156	169	0	24	
6/16/2013	157	170	0	24	
6/17/2013	157	170	0	24	
6/18/2013	158	171	0	24	
6/19/2013	158	171	0	24	
6/20/2013	159	172	0	24	
6/21/2011	159	172	0	24	
6/22/2018	159	172	0	24	
6/23/2018	117	130	49	5	
6/24/2018	106	119	42	0	
6/25/201	101	114	32	0	
6/26/2011	90	103	29	0	
6/27/2013	81	94	28	0	
6/28/2013	50	63	28	0	
6/29/2013	50	63	26		started pumping unit
6/30/2013	51	64	31	0	
7/1/2013				0	

Total 488

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W358 Miller 2-13 St. Francis St. Francis None July-14

FloBoss						<u>_</u>	<del></del>
	Casing			HRS		Water	REMARKS
DATE	PSI	STATIC	MCF	DOWN	[	BBLS	(Maximum length 110 characters)
7/1/2014	51	64	3	4	0	22	
7/2/2014	<b>5</b> 1	64	3	6	0	23	
7/3/2014	52	2 65	3	7	0	24	
7/4/2014	52	? 65	3	7	0	23	
. 7/5/2014	53	66	4	0	0	22	
7/6/2014	53	66	4	0	0	23	3 min bt
7/7/2014	54	67	4	3	0	24	
7/8/2014	53	67	4	.3	0	23	
7/9/2014	55	68	4	3	0	23	
7/10/2014	56	69	4	3	0	22	
7/11/2014	59	72	4	4	0	23	
7/12/2014	58	3 71	4	4	0	24	
7/13/2014	59	62	4	5	0	23	
7/14/2014	61	74	4	5	0	22	
7/15/2014	49	62	3	8	0	24	
7/16/2014	51	64	4	2	0	23	
7/17/2014	51	64	4	.4	0	22	
7/18/2014	52	. 65	4	2	0	23	
7/19/2014	48	61	4	0	0	24	
7/20/2014	50	63	4	0	0	23	
7/21/2014	126	139	3	9	0	22	
7/22/2014	133	146		2	22	24	
7/23/2014	75	88	3	7	7	23	
7/24/2014	57	70	3	6	3	12	
7/25/2014	49	62	3	0	4	0	started pumping unit
7/26/2014	48	61	3	3	0	18	•
7/27/2014	49	62	3	5	0	23	
7/28/2014	50	63	3	5	0	24	
7/29/2014	49	62	3	5	0	22	
7/30/2014	51	64	3	6	0	23	
7/31/2014	51	64	3	6	0	22	_

Total 1174 673

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W358 Miller 2-13 St. Francis St. Francis None August-14 FloBoss

FloBoss							_		
	Casing					HRS	Water		REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS		(Maximum length 110 characters)
8/1/2014	5	1 64					0	3	
8/2/2014	5	0 63	36	6			0	3	
8/3/2014	5	0 63					0	3	
8/4/2014	5	0 63	36	6	8		0	3	
8/5/2014	5	1 64	36	6	8		0	3	
8/6/2014	5	1 64	39	6	8		0	3	
8/7/2014	5	2 65	36	6	8		0	3	
8/8/2014	5	3 66	36	6	8		0	3	
8/9/2014	5	5 68	36	6	8		0	3	
8/10/2014	5	5 68	36	6			0	3	
8/11/2014	5	6 69	36	6	8		0	3	
8/12/2014	5	63 63	36	6	8		0	3	
8/13/2014	5	1 64	36	6	8	}	0	3	
8/14/2014	5	0 63	36	6	8		0	3	5 min BT
8/15/2014	5	6 69	34	. 6	8		3	3	
8/16/2014	5	5 68	36	6	8		0	3	
8/17/2014	5	66 69	36	6	8		0	3	
8/18/2014	5	66 69	36	6	8	;	0	3	
8/19/2014	6	4 77	7 34	. 6	8	}	2	3	
8/20/2014	5	4 67	7 34	. 6	8		0	3	
8/21/2014	5	3 66	36	6	8		0	3	
8/22/2014	6	4 77	7 36	6	8		0	3	
8/23/2014	4	9 62	2 36	6	8	}	0	3	
8/24/2014	4	9 62	2 36	6		;	0	3	
8/25/2014	5	51 64	3.5	6	. 8	}	0	3	
8/26/2014	5	3 66	35	6	8		0	3	
8/27/2014	5	5 68	3 35	6	8	}	0	3	
8/28/2014	11	0 123	3 35	6	. 8	;	0	1.5	
8/29/2014		8 61	29	6		}	5	1.5	
8/30/2014	4	9 62	2 34	6	. 8	}	0	3	
8/31/2014	$\epsilon$	53 76	5 34	6	8	}	0	3	

Total 1098 90

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