KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				6	See Instruc	tions on Rev	erse Side	9)						
Open F	low	MOT		Tool Date				A D	No. 45					
Deliver	abilty			Test Date 7/9/2015					No. 15 3-20638-000	10				
Company Rosewood F	Resou	rces, Inc.		77072410		Lease Alvin				33-08	Well Number			
County Cheyenne		Location NESE/4		Section 8		TWP 3S		RNG (E	(W)		Acres Attributed			
Field St. Francis					Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.					
Completion D 1-15-2006	Date			Plug Bach 1614"	k Total Dep	th		Packer \$	Set at					
Casing Size 4 1/2"		Weight 10.5#		Internal D 4.052	Diameter	Set at 1430		Perfo	orations 0'	то 1460'				
Tubing Size NONE	_	Weight		Internal D	Diameter	Set at		Perfo	orations	То	·			
Type Complete Single (Co				Type Fluid	d Production	n	_		nit or Traveling ing Unit	Plunger? Yes	/ No			
		nulus / Tubing)	% C	arbon Dioxi	ide	,	% Nitrog	jen	Gas Gr	avity - G _g			
Vertical Depth	n(H)				Pres	sure Taps					Run) (Prover) Size			
1430'					Flan	ge				2"				
Pressure Buil	•	Shut in		0 15 at 10		\sim				15 at 10:40	(AM)(PM)			
Well on Line:	_	Started 7-10)2	0 15 at 10	J:40 	(AM) (PM)	Taken_7- 	11	20 	15 _{at} 11:25	(AM) PM)			
				_	OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>24</u> Hours			
Dynamic	Dynamic Size Meter Differential		Differential		Flowing Well Head remperature Temperature		Casing Wellhead Pressure (P,) or (P,) or (Pc)		Tubing ead Pressure or (P _{r.}) or (P _{r.})	Duration (Hours)	Liquid Produced (Barrels)			
Property (in	iches)	psig (Pm)	Inches H ₂ 0	<u> </u>	1	psig	psia 187.4	psig	psia					
Flow			-		<u> </u>	+ - +	48.4	-		24				
				<u></u>	FLOW STF	REAM ATTRI	BUTES							
Plate Coefficcient (F _b) (F _p) Mcfd	Coefficient Meter or Extension (F _b) (F _p) Prover Pressure		Grav Fact F _g	or	Temperature Fa		iation ctor	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m				
								_	5					
L		!		(ODEN EL		ERABILITY)	CALCIII	ATIONS	L					
(P _c) ² =	:	(P _w) ² =	;	P _d =	. ,	•	· 14.4) +		:	(P _a):	2 = 0.207 2 =			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		P _c) ² - (P _w) ²	1. P _c ² -P _s ² 2. P _c ² -P _d ²	LOG of formula 1. or 2.	P.2- P.2	Backpres Slope Ass	sure Curve = "n" or igned rd Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)			
	+		fivided by: $P_c^2 - P_w^2$	by:	<u> </u>	Standa		 						
Open Flow			Mcfd @ 14.	65 psia		Deliverabi	lity	_		Mcfd @ 14.65 psi	a			
	•	•				•				ort and that he ha				
the facts stated	d there	in, and that sa	id report is true						December	-uln.4	, 20 <u>15</u>			
		Witness (if	алу)		JU VVI	CHITA_	\rightarrow	100	Mell	Company	Mey			
		For Commi	ssion		IPR 0.7	2016 _			Che	cked by				

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I declare under penalty of perjury under the laws of the state of Kansas that I are exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resouland that the foregoing pressure information and statements contained on this application correct to the best of my knowledge and belief based upon available production summ of equipment installation and/or upon type of completion or upon use being made of the I hereby request a one-year exemption from open flow testing for the Alvin 33-08	rces, Inc. ation form are true and aries and lease records
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 undergoid is on vacuum at the present time; KCC approval Docket No	
Signature: <u>Janual Integrals</u> KCC WICHITA Title: Production Assistant APR 0.7 2016 RECEIVED	ritery_

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.

W361 Alvin 38-08.

St. Francis

St. Francis

Pumping Unit/elec

July-15

	Tubing	Casing						HRS	Water
DATE	PSI	PSI	STATIC	MCF	SPM	C	YCLE	DOWN	BBLS
7/1/2015		34	47		5	0	0	0	0
7/2/2015		34	47		5	0	0	0	0
7/3/2015		34	47		5	0	0	0	0
7/4/2015		34	47	4	5	0	0	0	0
7/5/2015		34	47	5	5	0	0	0	0
7/6/2015		33	54		5	0	0	2	. 0
7/7/2015		33	46	4	5	0	0	0	0
7/8/2015		34	46	5 5	5	0	0	16	0
7/9/2015		58	46	()	0	0	24	0
7/10/2015		173	167	· ()	0	0	14	. 0
7/11/2015		87	105	•	5	0	0	0	0
7/12/2015		61	82	. (5	0	0	0	0
7/13/2015		42	69	•	5	0	0	0	0
7/14/2015		34	50	(5	0	0	0	0
7/15/2015		34	46	:	5	0	0	0	0
7/16/2015		34	47	'	5	0	0	0	0
7/17/2015		34	47		5	0	0	0	0
7/18/2015		33	46	:	5	0	0	0	0
7/19/2015		33	46	;	5	0	0	0	0
7/20/2015		33	46	;	5	0	0	0	0
7/21/2015		35	56	:	5	0	0	2	. 0
7/22/2015		34	47	,	5	0	0	C	0
7/23/2015		34	46	;	5	0	0	C	0
7/24/2015		34	46	;	5	0	0	C	0
7/25/2015		34	46	;	5	0	0		0
7/26/2015		34	46	i :	5	0	0	C	0
7/27/2015		33	46	i :	5	0	0	C	0
7/28/2015		32	. 46	;	5	0	0	C	0
7/29/2015		32	. 45	;	5	0	0		0
7/30/2015		32	. 45	;	5	0	0) 0
7/31/2015		32	. 45	;	5	0	0	(0

Total 149 0

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W361

St. Francis St. Francis Pumping Unit/elec August-15

	Tubing	Casing		_			HRS	Water		REMARKS
DATE	PS1	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS		(Maximum length 110 characters)
8/1/2015		3	3 4	6	5	0	0	0	0	
8/2/2015		3	3 4	6	5	0	0	0	0	
8/3/2015		3	5 4	8	5	0	0	0	0	
8/4/2015		3	3 4	6	5	0	0	0	0	
8/5/2015		3	2 4	5	5	0	0	0	0	
8/6/2015		3	3 4	6	5	0	0	0	0	
8/7/2015		3	3 4	6	5	0	0	0	0	
8/8/2015		3	3 4	6	5	0	0	0	0	
8/9/2015		3	3 4	6	5	0	0	0	0	
8/10/2015		3	3 4	6	5	0	0	0	0	
8/11/2015		3	3 4	6	5	0	0	0	0	
8/12/2015		3	3 4	6	5	0	0	0	0	
8/13/2015		3	4 4	7	5	0	0	0	0	
8/14/2015		3	4 4	7	5	0	0	0	0	
8/15/2015		3	5 4	8	5	0	0	0	0	
8/16/2015		3	7 5	0	5	0	0	0	0	
8/17/2015		3	5 4	8	5	0	0	0	0	
8/18/2015		3	5 4	8	5	0	0	0	0	
8/19/2015		3	7 5	0	5	0	0 .	0	0	
8/20/2015		3	6 4	9	5	0	0	0	0	
8/21/2015		3	57 5	0	5	0	0	0	0	
8/22/2015		3	8 5	l	5	0	0	0	0	
8/23/2015		3	8 5	1	5	0	0	0	0	
8/24/2015		3	8 5	1	5	0	0	0	0	
8/25/2015		4	10 5	3	5	0	0	0	0	
8/26/2015		3	37 5	0	5	0	0	0	0	
8/27/2015		3	37 5	0	5	0	0	0	0	
8/28/2015		3	36 4	9	5	0	0	0	0	
8/29/2015		3	5 5	2	5	0	0	0	0	
8/30/2015				5	5	0	0	4	0	
8/31/2015				8	5	0	0	0	0	

Total 155 0

KCC WICHITA APR 0.7 2016 RECEIVED W361

Alvin 33-08

St. Francis

St. Francis

Total

Pumping Unit/elec

September-15

	Tubing	Casing					H	IRS	Water		REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCL	E D	OWN	BBLS		(Maximum length 110 characters)
9/1/2015		54	67		5	0	0		0	0	
9/2/2015		31	44	Ļ	5	0	0		0	0	
9/3/2015		31	44		5	0	0		0	0	
9/4/2015		34	47		5	0	0		0	0	
9/5/2015		41	54		5	0	0		0	0	
9/6/2015		45	58		5	0	0		0	0	
9/7/2015		44	57		5	0	0		0	0	
9/8/2015		42	55		5	0	0		0	0	
9/9/2015		41	54		5	0	0		0	0	
9/10/2015		32	45		5	0	0		0	0	
9/11/2015		37	50		5	0	0		0	0	
9/12/2015		39	52		5	0	0		0	0	
9/13/2015		38	51		5	0	0		0	0	
9/14/2015		40	53		5	0	0		0	0	
9/15/2015		42	55		5	0	0		0	0	
9/16/2015		43	56		5	0	0		0	0	
9/17/2015		44	57		6	0	0		0	0	
9/18/2015		44	57		7	0	0		0	0	
9/19/2015		39	52		7	0	0		0	0	
9/20/2015		37	50		7	0	0		0	0	
9/21/2015		39	52		7	0	0		0	0	
9/22/2015		41	54		7	0	0		0	0	
9/23/2015		42	55		7	0	0		0	0	
9/24/2015		42	55		7	0	0		0	0	
9/25/2015		42	55		7	0	0		0	0	
9/26/2015		42	55		7	0	0		0	0	
9/27/2015		42	55		7	0	0		0	0	
9/28/2015		42	55		7	0	0		0	0	
9/29/2015		42	55		7	0	0		0	0	
9/30/2015		42	55		7	0	0		0	0	
10/1/2015		0	0		0	0	0		0	0	

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177

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