KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

= :	en Flow	ASI	(See Instructions on Reverse Side) Test Date: API No. 15									
Deliverabilty 6/22/14 023-21244-00 0						LAF-II Alexandra						
Company Rosewoo		urces, Inc.				Lease Neitzel				21-20	Well Number	
County Location Section Cheyenne NENW 20					TWP RNG (E/W) 3S 40W				Acres Attributed 80			
Field Cherry C	Creek			Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.						
Completic 9/30/201				Plug Bac 1444'	k Total Dept	pth Packer Set at						
Casing Si 4 1/2"	ize	Weight 10.5#	<u> </u>	Internal E 6.366	Diameter Set at 1481'			Perfo 122	rations 4'	To 1304'		
Tubing Si	ze	Weight		Internal C	Diameter	Set at Perforations			rations	То		
Type Com				Type Flui Dry Ga	d Production	n		Pump Ur	nit or Traveling	Plunger? Yes	No -	
	Thru (Ar	nulus / Tubing)	· · ·		arbon Dioxi	de		% Nitrog	<u> </u>	Gas Gra	avity - G _g	
Vertical D					Pres	sure Taps					Run) (Prover) Size	
1495'					Flan	<u></u>				2"		
Pressure	Buildup:				:40	(AM)(PM)	(AM)(PM) Taken 6-16				(AM)(PM)	
Well on L	ine:	Started 6-22	2	20 14 at 3:55 (AM) (PM) Taken 6-2				23	20	14 at 4:00	(AM)(PM)	
	_				OBSERVE	D SURFACE	DATA			Duration of Shut-	in 360 Hours	
Static / Dynamic Property	Dynamic Size Meter Differ Property (inches)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		rubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		P 9 (111)	1,10,100 7,30			231	245.4	psig	psia			
Flow	Flow				67 81.4 360							
, 				- , -	FLOW STR	REAM ATTR	BUTES					
IF VE V Prover Proceure		Press Extension	Gravity Factor F _g		Flowing Femperature Factor F _{tt}	mperature Factor F		Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	l Gravity		
			_						13			
	_			(OPEN FL	OW) (DELIV	ERABILITY	CALCUL	ATIONS	<u>-</u>		²= 0.207	
(P _c)² ∺	:	(P _w) ² =	hoose formula 1 or 2	P _d =	 _		<u>-</u> 14.4) +		 :_	(P _d)	² =	
$(P_{o})^{2} - (P_{a})^{2}$ $(P_{o})^{2} - (P_{w})^{2}$ or $(P_{o})^{2} - (P_{d})^{2}$		(P ₀)²- (P _w)²	1. P _c ² -P _t ² 2. P _c ² -P _d ²	LOG of formula 1. or 2. and divide D 2 D 2		Backpressure Curve Slope ≈ "n" or Assigned Standard Slope		n x 106		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
 -	-		vided by: $P_c^2 - P_w$	by:	<u> </u>	Gland		 				
Open Flo	w		Mcfd @ 14.	.65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia	
	_									ort and that he ha	as knowledge of	
the facts s	tated there	ein, and that sai	d report is true							11. 4	, 20 <u>14</u>	
		Witness (if	env)	————- K A	Re NSAS CORPO	ceived RATION COMM	ISSION /	an	WUL_FOR	WUUU Company	wug_	
		For Commit				2 5 2019				cked by		
		For Commit	201011						Sile			

CONSERVATION DIVISION WICHITA, KS

exempt status under and that the forego correct to the best of of equipment instal	r penalty of perjury under the laws of the state of Kansas that I am authorized to request by Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. Sing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. St a one-year exemption from open flow testing for the Neitzel 21-20
gas well on the gro	unds 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
-	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
olali ao noocoary	to correspond to the chain for exemption from teeting.
Date: 12/12/14	
KA	Received NSAS CORPORATION COMMISSION Signature: Which it is a second of the commission of the conservation division with the conservation division

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.

W2746

Neitzel 21-20

St. Francis

St. Francis

Flow

June-124

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF_	DOWN	(Maximum length 110 characters)
6/1/2011 4	68		13	0	
6/2/2013	72		13	0	
6/3/2013	85	98	13	0	
6/4/201	81	94	13	0	
6/5/2013	64			0	
6/6/2013	65			0	
6/7/2013	176			9	
6/8/2013	189		0	24	
6/9/2013	201	214	0	24	
6/10/2013	213			24	
6/11/2013	222			24	
6/12/2013	227			24	
6/13/2013	228		0	24	
6/14/2013	230	243	0	24	
6/15/2013	230	243	0	24	
6/16/2013	231	244	0	24	
6/17/2013	231	244	0	24	
6/18/2013	231	244	0	24	
6/19/2013	226	239	0	24	
6/20/2013	221	234	0	24	
6/21/2013	203	216	0	24	
6/22/2013	203			24	
6/23/2013	136	149	24	5	
6/24/2013	123	136		0	
6/25/2013	116	129	19	0	
6/26/2013	105	118	17	0	
6/27/2013	98	111	17	0	
6/28/2013	72	85	16	0	
6/29/2013	70	83	16	0	
6/30/2013	71	84	15	0	
7/1/2013				0	

Total 234

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W2746

Neitzel 21-20

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	71	84	15	0	
7/2/2014	70	83	15	0	
7/3/2014	70	83	14	0	
7/4/2014	70	83	14	0	
7/5/2014	71	84	14	0	
7/6/2014	71	84	14	0	
7/7/2014	79	92	14	0	
7/8/2014	71	84	14	0	
7/9/2014	72	85	14	0	
7/10/2014	72		14	0	
7/11/2014	75		13	0	
7/12/2014	74		13	0	
7/13/2014	74		13	0	
7/14/2014	92	105	13	0	
7/15/2014	66	79	13	0	
7/16/2014	68	81	13	0	
7/17/2014	69	82	13	0	
7/18/2014	70	83	13	0	
7/19/2014	66	79	13	0	
7/20/2014	67	80	13	0	
7/21/2014	138	151	13	0	
7/22/2014	158	171	4	22	
7/23/2014	90	103	15	7	
7/24/2014	76	89	13	3	
7/25/2014	65	78	13	4	
7/26/2014	64		13	0	
7/27/2014	65	78	13	0	
7/28/2014	66	79	13	0	
7/29/2014	65	78	13	0	
7/30/2014	66	79	13	0	
7/31/2014	68	81	13	0	

Total 408

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CONSERVATION DIVISION WICHITA, KS

W2746

Neitzel 21-20

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
8/1/2014	66			0	·
8/2/2014	67	80	13	0	
8/3/2014	68	81	13	0	
8/4/2014	67	80	13	0	
8/5/2014	66	79	13	0	
8/6/2014	67		13	0	
8/7/2014	67	80	12	0	
8/8/2014	69	82	12	0	
8/9/2014	69	72	12	0	
8/10/2014	70			0	
8/11/2014	78	9 1	12	0	
8/12/2014	65		12	0	
8/13/2014	66		12	0	
8/14/2014	65	78	12	0	·
8/15/2014	71	84	12	3	
8/16/2014	69	82	12	0	
8/17/2014	70	83		0	
8/18/2014	69	82	12	0	
8/19/2014	76	89	12	2	
8/20/2014	68	81	12	0	
8/21/2014	67	80	12	0	
8/22/2014	72	85	12	0	
8/23/2014	64	77	12	0	
8/24/2014	66	79	12	0	
8/25/2014	88	101	12	0	
8/26/2014	67	80	11	0	
8/27/2014	71	84	11	0	
8/28/2014	116	129	12	0	
8/29/2014	64	77	10	5	
8/30/2014	64	77	12	0	
8/31/2014	75	88	12	0	

Total 374

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