Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:			(See Instruct	tions on Re	verse Side)				
Open Flow			Test Date: API No. 15					No. 15				
Deliverabilty				6/22/14 023-20634-00 0						10		
Company Rosewo		sources, Inc.		Lease R. Moore						Well Number 13-28		
County Location Cheyenne NWSW/4			Section TWP 28 2S				RNG (E/W) Acre 42W 80				ttributed	
Field Cherry C	Creek			Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.				
Completion 10/21/20		•		Plug Back Total Depth 1789'				Packer Set at				
Casing Size Weight 2.7/8" 6.5#			Internal D 2.441	Diameter				rations 8'	то 1700'			
Tubing S	ize	Weig	ht	Internal Diameter Set at			Perfo	rations	То			
		(Describe) entional)		Type Flui	d Production	n			Pump Unit or Traveling Plunger? Yes No flowing			
	-	(Annulus / Tubii	ng)	% C	arbon Dioxi	de		% Nitrog	ien		Gas Gravity - G	
Annulus					Droc	aura Tana				.6	Dun\ /D	rover) Size
Vertical D	peptn(ri			Pressure Taps Flange						2"	Hull) (F	
Pressure	Buildup	s: Shut in 6-	72	0 14 at 1	:50	(AM)(PM)) Taken_6-	<u> 21 _</u>	20	14 at 2:05	(AM)(PM)
Well on L	.ine:	Started 6-2						20	14 at 2:50	(AM) (PM)	
				_	OBSERVE	D SURFAC	E DATA		_	Duration of Shu	t-in_360	Hours
Static / Dynamic Property	Static / Oritice Meter Differential Dynamic Size Prover Pressure in		Differential in	lemperature lemperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _o)		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_e)$		Duration Liq (Hours)		d Produced Barrels)
Shut-In		psig (Pm) Inches H ₂ 0			psig 191	psia psig 205.4		psia			
Flow				_		45	59.4	_		360	0	
				_	FLOW STR	REAM ATTE	IBUTES				_	
Coefficient Mei		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m ×h	Grav Fac	tor	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic F Barre	eet/	Flowing Fluid Gravity G _m
									2			
				(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS	<u> </u>	(P) ² = 0.2	 07
$(P_c)^2 = $: $(P_w)^2 = $: $P_d = $ $(P_c \cdot 14.4) + 14.4 = $: $(P_d)^2 = $												
$(P_c)^2 - (P_s)^2$ (For $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide by:		Backpressure Curve . Slope = "n" or Assigned Standard Slope		n x tog		Antilog	Deli Equals	en Flow iverability R x Antilog (Mcfd)
									_			
											<u> </u>	_
Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia												
		-	on behalf of the						he above repo December	ort and that he h	nas know	ledge of
uie iacis s	stated th	ierein, and that	said report is true		t. Executed Recei AS C ORPORAT	ived		uay or	211/1	10/11	1101	
		Witness	s (if any)	10.0401	FEB 2		\rightarrow	iCNN (For	Company	· uces	7
For Commission Checked by							Che					

CONSERVATION DIVISION WICHITA, KS

exempt status under Rule K.A.R. 82-3- and that the foregoing pressure infor- correct to the best of my knowledge ar of equipment installation and/or upon t	under the laws of the state of Kansas that I am authorized to request 304 on behalf of the operator Rosewood Resources, Inc. mation and statements contained on this application form are true and had belief based upon available production summaries and lease records type of completion or upon use being made of the gas well herein named. Pation from open flow testing for the R. Moore 13-28
is on vacuum at the	er lift due to water ral gas for injection into an oil reservoir undergoing ER e present time; KCC approval Docket No roducing at a daily rate in excess of 250 mcf/D est of my ability any and all supporting documents deemed by Commission
Date: 12/10/14	
Received KANSAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS	Signature: <u>Janual Monture</u> Title: Production Assistant

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.

W439 R. Moore 13-28 West St. Francis St. Francis None June-14

	Casing	sing		HRS	REMARKS		
DATE	PSI	STATIC MCF		DOWN	(Maximum length 110 characters)		
6/1/2014	54	68	2	0	-		
6/2/2014	69	82	2	0			
6/3/2014	62	76	2	0			
6/4/2014	82	96	2	0			
6/5/2014	45	59	2	0			
6/6/2014	50	63	2	0			
6/7/2014	178	191	1	9			
6/8/2014	173	186	0	24			
6/9/2014	180	193	0	24			
6/10/2014	180	193	0	24			
6/11/2014	181	194	0	24			
6/12/2014	183	196	0	24			
6/13/2014	185	198	0	24			
6/14/2014	186	200	0	24			
6/15/2014	186	200	0	24			
6/16/2014	188	202	0	24			
6/17/2014	188	202	0	24			
6/18/2014	189	203	0	24			
6/19/2014	190	204	0	24			
6/20/2014	190	203	0	24			
6/21/2014	191	204	0	24			
6/22/2014	191	204	0	24			
6/23/2014	116	129	6	5			
6/24/2014	111	124	6	0			
6/25/2014	99	112	3	0			
6/26/2014	90	103	3	0			
6/27/2014	83	97	2	0			
6/28/2014	51	65	2	0			
6/29/2014	51	65	2	0			
6/30/2014	49	63	2	0			
7/1/2014				0			

Total 39

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W439 R. Moore 13-28 West St. Francis St. Francis None July-14

	Casing		H	RS	REMARKS
DATE	PSI	STATIC MCF	D	own]	(Maximum length 110 characters)
7/1/2014	51	65	2	0	
7/2/2014	51	65	2	0	
7/3/2014	51	65	2	0	
7/4/2014	52	65	2	0	
7/5/2014	55	68	2	0	
7/6/2014	55	68	2	0	
7/7/2014	66	79	2	0	
7/8/2014	56	69	2	0	
7/9/2014	56	69	2	0	
7/10/2014	57	70	2	0	
7/11/2014	58	71	2	0	
7/12/2014	59	72	2	0	
7/13/2014	60	73	2	0	
7/14/2014	71	84	2	0	
7/15/2014	50	63	2	0	
7/16/2014	50	63	2	0	
7/17/2014	50	63	2	0	
7/18/2014	50	63	2	0	
7/19/2014	48	61	2	0	
7/20/2014	48	61	2	0	
7/21/2014	114	127	2	0	
7/22/2014	162	176	0	22	
7/23/2014	80	94	3	7	
7/24/2014	55	69	2	3	
7/25/2014	45	59	2	4	
7/26/2014	46	60	2	0	
7/27/2014	47	61	2	0	
7/28/2014	38	52	2	0	
7/29/2014	37	51	2	0	
7/30/2014	36	50	2	0	
7/31/2014	39	53	2	0	

Total 61

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CONSERVATION DIVISION WICHITA, KS

W439 R. Moore 13-28 West St. Francis St. Francis None August-14

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	Casing			HRS	REMARKS
DATE	PSI	STATIC 1		DOWN	(Maximum length 110 characters)
8/1/2014	37	50	2	0	
8/2/2014	37	50	2	0	
8/3/2014	36		2	0	
8/4/2014	51	64	2	0	
8/5/2014	51	64	2	0	
8/6/2014	51	64	2	0	
8/7/2014	53	66	2	0	
8/8/2014	54	67	2	0	
8/9/2014	54	67	2	0	
8/10/2014	56		1	0	
8/11/2014	51	65	1	0	
8/12/2014	49		1	0	
8/13/2014	34		2	0	
8/14/2014	34	48	2	0	
8/15/2014	43	56	1	3	
8/16/2014	34	47	2	0	
8/17/2014	34	47	2	0	
8/18/2014	34	47	2	0	
8/19/2014	47	60	1	2	
8/20/2014	42	55	1	0	
8/21/2014	27	51	1	0	
8/22/2014	54	68	1	0	
8/23/2014	47	61	1	0	
8/24/2014	49	63	1	0	
8/25/2014	62	75	1	0	
8/26/2014	52	65	1	0	
8/27/2014	55	68	1	0	
8/28/2014	48	62	2	0	
8/29/2014	48	61	2	5	
8/30/2014	48	61	2	0	
8/31/2014	60	74	1	0	

Total 48

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