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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes		MSI		(See Instruc	tions on Re	verse Side	<i>)</i>)					
= :	pen Flow eliverabilt	•		Test Date 3/7/201					No. 15 -20665-00 (00			
Company		ources, Inc.				Lease Northru	ıp			43-33	Well Number		
County	ne	Locati NESE	on	Section 33		TWP 2S		RNG (E/	W)		Acres Attributed 80		
Field Cherry (Creek		. ,	Reservoi Niobrar			Gas Gathering Conn Branch Systems In						
Completi 4-1-200				Plug Bac 1766'	k Total Dep	th	Packer Set at						
Casing S 4 1/2"	Size	Weigh 10.5#		Internal I 4.052	Diameter		Set at 1767.06'		rations 6'	To 1642'			
Tubing S	Size	Weigh	nt	Internal [Diameter	Set	at	Perfo	rations	То			
		(Describe) ntional)		Type Flui Dry Ga	d Productio	n			nit or Traveling	Plunger? (Yes)	/ No		
Producing	-	Annulus / Tubing	g)	% C	Carbon Dioxi	ide	·						
Vertical D					Pres Flan	sure Taps	· · ·				Run) (Prover) Siz		
Pressure	Buildup:	Shut in 3-6	2	·····			(PM) Taken 3-7		20	20 13 at 11:55 (Al			
Well on L	_ine:	Started 3-7	2	20 13 at 11:55 (AM)(PM) Taken 3-6									
			· · · · · · · · · · · · · · · · · · ·		OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Ho		
Static / Dynamic Property	namic Size Meter Differentia Prover Pressure in		Differential	Temperature Temperature		Wellhead	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		ubing ad Pressure (P _t) or (P _c)	Duration (Hours)	Liquid Produce (Barrels)		
Shut-In						208	222.4	psig	рыа				
Flow				35	35 49.4			24					
					FLOW STF	REAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac	tor	emperature Fa		viation Metered Flor actor R F _{pv} (Mcfd)		w GOR (Cubic Fe Barrel)	I Gravity		
									13				
(P _c) ² =	:	: (P _w) ² =	:	(OPEN FLO	OW) (DELIV) CALCUL P _c - 14.4) +		:	(P _a) (P _d)	² = 0.207 ² =		
(P _c) ² - (I		(P _c) ² - (P _w) ² (P _c) ² - P _c ² - P _c ² divided by: P _c ² - P		LOG of formula 1. or 2. and divide p 2 p 2		Slo As	Backpressure Curve Slope = "n" or Assigned Standard Slope		.og [Antilog Ec	Open Flow Deliverability Equals R x Antil (Mcfd)		
							-						
Open Flor	w	<u> </u>	Mcfd @ 14.	65 psia		Deliverat	oility		<u>.</u>	Mcfd @ 14.65 ps	a		
	•	ned authority, or rein, and that sa			•	•			e above repo ecember	rt and that he ha	s knowledge of		
		,	.,				_	XV.	11	Man	twi /		
		Witness (if	fany)			_		/	For C	Company KCC	WICHIT		
		For Comm	ission			-			Chec	DEC	2 6 2013		

exempt status under and that the foregoi correct to the best of of equipment installar I hereby request	penalty 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. In pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Northrup 43-33
gas well on the grou	nds that said well:
is is is is it is	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s 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 of corroborate this claim for exemption from testing.
Date: 12/10/13	
	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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W2059 Northrup 43-33 West St. Francis St. Francis None March-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
3/1/2013	35	48	13	6	12		16	
3/2/2013	36	49	13	6	12		17	
3/3/2013	27	40	14	6	12		18	
3/4/2013	27	40	14	6	12		17	
3/5/2013	56	69	14	6	6		9	
3/6/2013	97	110	7	6	0		0	shut well in for state test
3/7/2013	208	208	0	6	0	24	0	open well 208 psi
3/8/2013	70	83	17	6	0		0	
3/9/2013	49	62	18	6	6		8	
3/10/2013	46	59 .	18	6	12		16	
3/11/2013	25	38	14	6			17	
3/12/2013	79	92	13	6	6	3		shut pumping unit off hfp
3/13/2013	43	56	12	6	6			started pumping unit
3/14/2013	57	50	13	6	6	1	8	shut pumping unit off hfp
3/15/2013	69	82	11	6	0		0	
3/16/2013	59	72	12	6	0		0	
3/17/2013	49	62	11	6	6		8	restart pu
3/18/2013	54	67	11	6	12		16	
3/19/2013	35	48	12	6	12		17	
3/20/2013	35	48	13	6	12		18	
3/21/2013	26	39	13	6	12		17	bucket test 5 min
3/22/2013	26	39	14	6	12		16	put on hand bad weather moving in
3/23/2013	27	40	15	6	24		32	
3/24/2013	28	41	16	6	24		31	
3/25/2013	73	86	16	6	24		30	
3/26/2013	60	73	16	6	24		31	
3/27/2013	27	40	19	6	24		32	
3/28/2013	27	40	19	6	24		31	
3/29/2013	26	39	19	6	24		33	
3/30/2013	· 27	40	20	6	24		34	
3/31/2013	27	40	20	6	24		33	

Total 437 522

W2059 Northrup 43-33 West St. Francis St. Francis None April-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC M	1CF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
4/1/2013	28	41	21	6	24		34	
4/2/2013	28	41	21	6	12		17	put back on auto
4/3/2013	29	42	20	6	12		16	
4/4/2013	30	43	19	6	12		15	
4/5/2013	63	76	16	6	12		16	
4/6/2013	48	61	17	6	12		17	
4/7/2013	48	61	17	6	12		16	shut pumping unit off
4/8/2013	48	61	16	6	0		0	
4/9/2013	45	58	15	6	0		0	
4/10/2013	47	60	13	6	0	2	0	
4/11/2013	29	42	13	6	0		0	
4/12/2013	24	37	13	6	6		8	restarted pu
4/13/2013	78	91	14	6	6	1	8	shut pumping unit off
4/14/2013	50	63	12	6	0		0	
4/15/2013	52	65	13	6	9		9	restarted pu
4/16/2013	34	37	13	6	12		17	
4/17/2013	37	50	14	6	12		16	
4/18/2013	32	45	14	6	12		15	
4/19/2013	27	40	15	6	12		16	
4/20/2013	47	60	15	6	12		17	
4/21/2013	48	61	15	6	12		14	
4/22/2013	48	61	15	6	12		17	bucket test 5 min
4/23/2013	47	60	16	6	12		16	
4/24/2013	49	62	16	6	12		15	
4/25/2013	50	63	16	6	12		16	treated
4/26/2013	50	63	15	6	12		17	
4/27/2013	50	63	15	6	12		16	
4/28/2013	62	75	13	6	12		15	
4/29/2013	61	74	13	6	12		16	
4/30/2013	56	69	14	6	12		17	bucket test 5 min
5/1/2013								

Total 459 396

W2059 Northrup 43-33 West St. Francis St. Francis None May-13

	Casing			•		HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLI	DOWN	BBLS	(Maximum length 110 characters)
5/1/2013	56	69	114	6	12		16	<u></u>
5/2/2013	61	74	12	6	12		17	
5/3/2013	52	65	13	6	12		16	
5/4/2013	49	62	12	6	12		15	
5/5/2013	48	61	13	6	12		16	
5/6/2013	49	62	12	6	12		17	
5/7/2013	51	64	13	6	12		16	
5/8/2013	56	69	13	6	12		15	shut pu off hfp in afternoon
5/9/2013	58	71	12	6	6		8	restarted pumping unit
5/10/2013	42	55	12	6	12		16	
5/11/2013	36	49	11	6	12		17	
5/12/2013	30	43	11	6	12		15	•
5/13/2013	30	43	10	6	12		16	found pu off, restarted
5/14/2013	30	43	11	6	12		17	bucket test 5 min and greased
5/15/2013	87	100	13	6	6	3	8	shut pumping unit off hfp
5/16/2013	75	88	10	6	0		0	
5/17/2013	31	44	13	6	6		8	started pumping unit
5/18/2013	28	41	10	6	12		17	
5/19/2013	28	41	11	6	12		16	
5/20/2013	30	43	12	6	12		15	
5/21/2013	41	54	12	6	12		16	
5/22/2013	57	70	8	6	6	14	8	bucket test 5 min, pu off hfp
5/23/2013	100	113	4	6	0	10	0	
5/24/2013	99	112	0	6	0	4	0	
5/25/2013	95	108	2	6	0		0	
5/26/2013	88	101	10	6	0		0	
5/27/2013	85	98	11	6	0		0	
5/28/2013	75	88	13	6	0		0	
5/29/2013	82	95	12	6	0	•	0	
5/30/2013	53	66	9	6	6		8	started pumping unit
5/31/2013	49	62	10	6	12		17	

Total 429 330