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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flow	M ST				(See Instruc	tions on Re	everse Side	,	l Na de					
De	liverabil	ty			Test Date 3/7/201					1 No. 15 3-20666-00 0	0				
Company		ources, I	nc.				Lease Heim				31-3	Well No	umber		
County Location Cheyenne NWNE					Section TWP 33 2S				RNG (E 42W	/W)		Acres Attributed 80			
Field Cherry Creek					Reservoir Niobrara					thering Conn Systems In					
Completion Date 3/29/2006					Plug Back Total Depth 1799'					Set at					
Casing Size Weight 4 1/2" 10.5#					Internal I 4.052	Diameter	Set at 1799.86'		Perfo 161	orations 6'	то 1648'				
Tubing Si	ize	,	Weight		Internal Diameter Set at					Perforations To					
		(Describe) entional)			Type Fluid Production Dry Gas					nit or Traveling ing Unit	Plunger? (Yes	No No			
Producing		Annulus /	Tubing)		% C	Carbon Diox	ide		% Nitrog	jen	Gas Gravity - G _g .6				
Vertical D	epth(H)					Pres Flan	sure Taps ge				(Meter	Run) (P	rover) Size		
Pressure	Buildup	Shut in	3-6	2	13 at 1	:55	(AMX(PM)	Taken 3-	.7	20	13 _{at} 2:10		(AM) (PM)		
Well on L	ine:	Started			20 13 at 1:55 (AM) (PM) Taken 3-7 20 13 a 20 13 at 2:10 (AM) (PM) Taken 3-8 20 13 a								_		
						OBSERVE	D SURFAC	E DATA	······································		Duration of Shu	t-in_24	Hours		
Static / Dynamic Property	ic Size Prover Pressure in		Differential	Flowing Well Head Temperature t		Melihead Preseure		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		id Produced Barrels)			
Shut-In							119	133.4	paig	рыа					
Flow							34	48.4			24				
			ı		1	FLOW STF	REAM ATT	RIBUTES							
Plate Coeffiecient (F _b) (F _p) Mcfd		Prover Pressure		Press Extension ✓ P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{ft}	Fa	iation etor	Metered Flov R (Mcfd)	v GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m		
									49						
					(OPEN FL	OW) (DELIV	ERABILITY	r) CALCUL	ATIONS		(P ₂) ² = 0.2	207		
(P _c) ² =		: (1	P _w) ² =	:	P _d =		% (P _c - 14.4) +	14.4 =	:	(P _c	_j) ² =			
$(P_c)^2 - (P_a)^2$ $(P_c)^2 - (P_w)^2$ or $(P_c)^2 - (P_d)^2$		oose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	De Equals	oen Flow iverability is R x Antilog (Mcfd)				
	.,			_											
Open Flov	N			Mcfd @ 14.6	35 psia	 -	Deliveral	bility			Mcfd @ 14.65 p	sia			
	_		•	pehalf of the report is true			-			ne above repo ecember	rt and that he h		ledge of 20 13 .		
									7QV	ıull	Max	day	<u>VICHIT</u>		
		· w	tness (if ar	ny)				l	- 0	ForC	Company	י ב	6 2012		
		Fo	r Commiss	ion			-			Chec	cked by	JEL 4	. 0 ZUI3		

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to requested exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.	
and that the foregoing pressure information and statements contained on this application form are true correct to the best of my knowledge and belief based upon available production summaries and lease rec of equipment installation and/or upon type of completion or upon use being made of the gas well herein nar I hereby request a one-year exemption from open flow testing for the Heim 31-33	and ords
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 undergoing ER is on vacuum at the present time; KCC approval Docket No. is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Comrestaff as necessary to corroborate this claim for exemption from testing.	nission
Date: 12/10/13	
Signature: <u>Janual Muttury</u> Title: <u>Production Assistant</u>	<i>)</i> —

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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W436 Heim 31-33 West St. Francis St. Francis None March-13

DATE	Casing					TIDO	*** .	DELLARIZO
						HRS	Water	REMARKS
	PSI	STATIC N			CYCLE	DOWN		(Maximum length 110 characters)
3/1/2013	42	55	50	6			20	
3/2/2013	43	56	47	6			21	
3/3/2013	35	48	49	6			22	
3/4/2013	34	47	49	6	12		21	
3/5/2013	61	75	48	6	6		11	
3/6/2013	97	110	20	6	0		0	shut well in for state test
3/7/2013	119	116	0	6	0	24	0	open well psi 119
3/8/2013	77	90	29	6	. 0		0	
3/9/2013	58	71	66	6	6		12	
3/10/2013	45	58	47	6	12		22	
3/11/2013	33	46	51	6	12		21	
3/12/2013	89	102	50	6	6	3	11	shut pumping unti off hfp
3/13/2013	47	60	41	6	6		12	started pumping unit
3/14/2013	65	78	46	6	6	1	13	shut pumping unti off hfp
3/15/2013	73	86	36	6	0		0	check pumping unit make sure not l
3/16/2013	61	74	50	6	0		0	
3/17/2013	54	67	45	6	0		0	
3/18/2013	59	72	41	6	0		0	
3/19/2013	57	70	39	6	0		0	started pumping, no water after 4hr
3/20/2013	56	69	38	6	0		0	
3/21/2013	32	45	37	6	6		10	put on tag checked later moving wa
3/22/2013	33	46	42	6	12		21	took off tag and left on hand bad we
3/23/2013	32	45	46	6	24		42	-
3/24/2013	35	48	52	6	24		41	
3/25/2013	67	80	48	6	24		40	
3/26/2013	56	69	62	6	24		41	
3/27/2013	34	47	50	6	24		42	
3/28/2013	34	47	51	6	12		22	put on auto
3/29/2013	34	47	51	6	12		21	•
3/30/2013	34	47	49	6	12		23	
3/31/2013	34	47	49	6	12		24	

Total 1379 513

W436 Heim 31-33 West St. Francis St. Francis None April-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
4/1/2013	34	47	49	6	24		42	
4/2/2013	33	46	49	6	12		21	
4/3/2013	35	48	49	6	12		20	
4/4/2013	37	50	49	6	12		21	bucket test 4 min and greased
4/5/2013	68	81	45	6	12		20	
4/6/2013	52	65	46	6	12		19	
4/7/2013	52	65	47	6	12		20	shut pumping unit off
4/8/2013	53	66	42	6	0		0	• •
4/9/2013	47	60	40	6	0		0	
4/10/2013	50	63	39	6	0	2	0	
4/11/2013	32	45	39	6	0		0	
4/12/2013	31	44	40	6	6		11	restarted pu
4/13/2013	79	92	44	6	6	1	11	shut pu off - treated well
4/14/2013	60	73	39	6	0		0	
4/15/2013	52	65	40	6	6		11	restarted pu
4/16/2013	30	42	42	6	12		22	•
4/17/2013	43	56	44	6	12		21	
4/18/2013	33	46	44	6	12		20	
4/19/2013	34	47	· 44	6	12		21	
4/20/2013	52	65	43	6	12		19	
4/21/2013	52	65	42	6			22	
4/22/2013	52	65	42	6	12		21	
4/23/2013	52	65	43	6	12		20	
4/24/2013	53	66	42	6			21	bucket test 4 min
4/25/2013	52	65	43	6			22	
4/26/2013	54	67	42	6			21	
4/27/2013	54	67	42	6			20	
4/28/2013	65	78	40	6			21	
4/29/2013	66	79	41	6			20	
4/30/2013	59	72	41	6	12		19	
5/1/2013								

Total 1292 506

W436 Heim 31-33 West St. Francis St. Francis None May-13

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC N	1CF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
5/1/2013	61	74	40	6	12		0	
5/2/2013	65	78	39	6	12		0	
5/3/2013	56	69	39	6	12		21	pu off, restarted and put on 24 hrs/d
5/4/2013	54	67	41	6	24		42	
5/5/2013	53	66	42	6	24		43	
5/6/2013	54	67	42	6	12		21	,
5/7/2013	56	69	42	6	12		22	
5/8/2013	59	72	40	6	12		20	shut pu off hfp in the afternoon
5/9/2013	65	78	42	6	6		10	restarted pumping unit
5/10/2013	46	59	42	6	12		21	
5/11/2013	38	51	43	6	12		22	
5/12/2013	37	50	44	6	12		20	•
5/13/2013	39	52	45	6	12		19	
5/14/2013	39	52	46	6	12		21	bucket test 4 min and greased
5/15/2013	90	103	46	6	6	3	11	shut pumping unit off hfp
5/16/2013	78	91	27	. 6	0		0	
5/17/2013	40	53	49	6	6		11	started pumping unit
5/18/2013	36	49	44	6	12		21	
5/19/2013	57	70	45	6	12		20	
5/20/2013	50	63	45	6	12		19	
5/21/2013	53	66	45	6	12		18	
5/22/2013	89	102	41	6	6	14	10	pu off hfp
5/23/2013	101	114	12	6	0	10	0	
5/24/2013	106	119	0	6	0	4	0	
5/25/2013	96	109	11	6	0		0	
5/26/2013	91	104	34	6	0		0	
5/27/2013	88	91	38	6	0		0	
5/28/2013	79	92	44	6	. 0		0	
5/29/2013	70	83	54	6	0		0	
5/30/2013	58	71	48	6	6		10	started pumping unit
5/31/2013	54	67	46	6	12		20	

Total 1216 422