KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:		100		(See Instruct	tions on Re	verse Sid	le)						
Op	en Flov	v 🏓	427		T D				45	1 No. 15					
	liverabi		· · · · · · · · · · · · · · · · · · ·		Test Date 9/21/20					1 No. 15 3-20666-1	00 -	00			
Company		sour	ces, Inc.				Lease Heim					31-33	Vell Nu	mber	
=======================================					Section 33		TWP 2S		RNG (E/W) 42W			Acres Attributed 80			
					Reservoir Niobrara			Gas Gathering Connection Branch Systems Inc.							
Completion Date 3/29/2006					Plug Bac 1799'	k Total Depi	th		Packer	Set at		- A - B - M - A - A - B - B - B - B - B - B - B - B			
Casing S 4 1/2"				Internal 0 4.052	Diameter	Set 179	at 9.86'	Perforations 1616'			то 1648'				
Tubing Si	2 3/	 , #	Weigi	ht	Internal E	Diameter	Set .	at 888 "	Perl	orations		То			
Type Con Single (npletior	(De			Type Flui Dry Ga	d Production	n / 6	000		Init or Trave		Plunger? (Yes) No		
Producing	g Thru	_	ulus / Tubin	g)		Carbon Dioxi	ide		% Nitro			Gas Gr	avity - (ā _o	
Annulus Vertical D		<u>,</u> — –					sure Taps					.6 (Meter F	Run) (P	rover) Size	
1614'	Dedleto		Shut in <u>9-2</u>	20	20 11 at 1	Flan :55		Taken 9)-21					(AM) (PM)	
Pressure Well on L	•		Started 9-2		20 at 20 <u>11</u> at <u>_</u>			·							
				-		OBSERVE	D SURFAC	E DATA				Ouration of Shut-	_{in} 24	Hours	
Static / Orifice Dynamic Size Property (inches)		э	Circle one: Meter Prover Press	I	Flowing Temperature t	Well Head	Cas Wellhead (P _w) or (F	sing I Pressure P ₁) or (P _c)	Tubing Wellhead Pressure (P _w) or (P _c)		e)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	Shut-In		psig (Pm)	Inches H ₂ 0			psig 125	psla 139.4	psig	psia					
Flow							44	58.4				24	ļ ·		
						FLOW STF	REAM ATTE	RIBUTES						,	
Plate Coefficient (F _b) (F _p) Mcfd		1	Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m xh			Flowing Temperature Factor F ₄ ,	F	eviation factor F _{ev}	Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
										54					
(P _c) ² =		•	(P _w)² :		(OPEN FL	OW) (DELIV		r) CALCU P _e - 14.4)				(P _a) (P _d)	² = 0.2	:07	
$(P_c)^2 \cdot (P_g)^2$ or $(P_c)^2 \cdot (P_d)^2$		(P,	Choose formula 1 or 2: (P _c) ² - (P _w) ² 1. P _c ² - P _s ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1, or 2, and divide	LOG of formula 1. or 2. and divide p 2. p 2		essure Curv ope = "n" - or	ve n x LOG			Antilog		pen Flow iverability s R x Antilog (Mcfd)	
Open Flo	w			Mcfd @ 14	1.65 psia		Deliveral	bility			M	cfd @ 14.65 psi	ia		
		-	-	on behalf of the			•		_ day of _	the above Decembe		and that he ha		rledge of 20	
			Witness	(if any)					JCS		For Co	mpany	RE	CEIVED	
			For Com	noiseim							Check	ed by		2 4 201	

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am auth exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, I and that the foregoing pressure information and statements contained on this application correct to the best of my knowledge and belief based upon available production summaries of equipment installation and/or upon type of completion or upon use being made of the gas well hereby request a one-year exemption from open flow testing for the Heim 31-33 gas well on the grounds that said well:	form are true and and lease records
(Check one) 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 EF 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 dee staff as necessary to corroborate this claim for exemption from testing.	
Date: 12/28/11 Signature:	ww

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 September-11

	Tubi Casing					HRS	Water	REMARKS
DATE	PSI PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2011	43	56	36	6	12		23	started PU bob bruphy had to reset box
9/2/2011	44	57	47	6	12		24	
9/3/2011	44	57	49	6	12		23	
9/4/2011	44	57	49	6	12		22	
9/5/2011	44	57	49	6	12		23	
9/6/2011	41	54	49	6	12		24	
9/7/2011	45	58	51	6	12		23	
9/8/2011	45	58	51	6	12		22	
9/9/2011	46	59	51	6	12		29	bucket test 3 min
9/10/2011	44	57	48	6	12		28	
9/11/2011	43	56	44	6	6		18	pumping unit off reset and started
9/12/2011	43	56	42	6	6			belts broke replaced
9/13/2011	43	56	43	6	12		30	·
9/14/2011	44	57	49	6	12		29	
9/15/2011	42	55	50	6	12		29	
9/16/2011	43	56	51	6	12		28	
9/17/2011	43	56	52	6	12		27	
9/18/2011	42	55	52	6	12		29	
9/19/2011	42	55	46	6	6		15	pumping unit off reset and started
9/20/2011	43	51	49	6	6			shut well for state test and pumping unit of
9/21/2011	125	48	0		6	24		open well and start pumping unit
9/22/2011	44	57	66		12		29	
9/23/2011	44	57	53	6	12		28	bucket test 3 min and greased
9/24/2011	43	56	49	6	12		27	~
9/25/2011	43		49		12		28	
9/26/2011	45		54		12		27	
9/27/2011	45		54	_	12			bucket test 3 min
9/28/2011	45		54		12		27	
9/29/2011	44		57	6	12		26	
9/30/2011	44		58		12		27	
10/1/2011				•			٠,	

Total 1452 739

W436 Heim 31-33 West St. Francis St. Francis None October-11

	Tubing	g Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
10/1/2011		45	57	59	6	12	0	28	
10/2/2011		45	57	59	6	12	0	27	
10/3/2011		45	57	60	6	12	0	26	
10/4/2011		43	57	60	6	12	0	27	
10/5/2011		46	57	60	6	12	0	29	bucket test 3 min
10/6/2011		46	60	61	6	12	0	28	
10/7/2011		49	59	60	6	12	0	27	
10/8/2011		49	58	59	6	12	0	28	
10/9/2011		45	58	58	6	12	0	29	
10/10/2011		46	57	58	6	12	0	28	replaced battery
10/11/2011		66	78	57	6	12	0	27	
10/12/2011		44	61	50	6	6	0	14	not pumping water taged
10/13/2011		43	56	50	6	24	0	30	bring water left on 24 hrs
10/14/2011		43	56	49	6	12	0	13	trickle of water, dropped rod 3" m
10/15/2011		44	56	47	6	0	0	0	
10/16/2011		44	57	46	6	0	0	0	
10/17/2011		42	56	45	6	0	0	0	
10/18/2011		44	56	43	6	0	0	0	
10/19/2011		44	56	42	6	0	0	0	
10/20/2011		43	55	42	6	0	0	0	pump problems
10/21/2011		43	55	41	6	0	0	0	
10/22/2011		43	55	40	6	0	0	0	
10/23/2011		43	55	40	6	0	0	0	
10/24/2011		42	55	39	6	0	0	0	
10/25/2011		42	55	38	6	0	0	0	
10/26/2011		42	55	38	6	0	0	0	
10/27/2011		42	55	37	6	0	0	0	
10/28/2011		42	54	37	6	0	0	0	
10/29/2011		42	54	37	6		0	0	
10/30/2011		41	53	36	6	0	0	0	
10/31/2011		46	53				0		workover rig on site

Total 1484 361

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W436 Heim 31-33 West St. Francis St. Francis None November-11

	Tubin	g Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC N	ИCF	SPM	CYCLI	DOWN	BBLS	(Maximum length 110 characters
11/1/2011		39	70	17	6	0	0	0	work over on site pulling unit
11/2/2011		38	52	17	6	0	0	0	
11/3/2011		37	51	22	6	24	0	57	bucket test 3 min just worked ove
11/4/2011		40	51	28	6	24	0	43	bucket test 4 min
11/5/2011		39	52	33	6	24	0	43	bucket test 4 min
11/6/2011		40	52	36	6	24	0	43	
11/7/2011		68	53	31	6	12	0	22	belt broke replaced
11/8/2011		40	59	35	6	24	0	43	bucket test 4 min
11/9/2011		40	53	39	6	24	0	43	bucket test 4 min
11/10/2011		40	53	43	6	24	0	43	bucket test 4 min
11/11/2011		41	52	46	6	24	0	43	4 min bt
11/12/2011		41	53	48	6	24	0	43	4 min bt
11/13/2011		40	53	50	6	24	0	40	4.25 min bt
11/14/2011		41	53	52	6	24	0	43	4 min bt
11/15/2011		37	58	54	6	24	0	43	4 min bt
11/16/2011		42	56	56	6	24	0	43	
11/17/2011		41	54	57	6	24	0	43	bucket test 4 min
11/18/2011		40	54	59	6	24	0	43	
11/19/2011		41	55	61	6	24	0	44	
11/20/2011		42	55	61	6	24	0	43	
11/21/2011		43	55	62	6	24	0	42	
11/22/2011		43	56	61	6	24	0	43	bucket test 4 min
11/23/2011		42	56	61	6	24	0	42	
11/24/2011		42	57	63	6	24	0	41	
11/25/2011		42	57	64	6	24	0	42	
11/26/2011		43	57	64	6	24	0	43	
11/27/2011		44	57	64	6	24	0	42	
11/28/2011		44	56	64	6	24	0	43	bucket test 4 min
11/29/2011		43	56	65	6	24	0	43	
11/30/2011		44	56	65		24	0		
12/1/2011		0	0	0	-	0	0		

Total 1478 1189

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