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										
De	liverat	oilty			7/11/20					-20606-00	0			
Company		sou	rces, Inc.				Lease Miller		_		2-13	Well Number		
County Location Cheyenne NW SW/4				Section 13					W)		Acres Attributed 80			
Field Cherry C	Creek				Reservoir Niobrara			•		hering Conn Systems In				
Completic 7/1/2005		te			Plug Bac 1464'	k Total Dept	th	-	Packer S	et at				
Casing S 4 1/2"	Casing Size Weight 4 1/2" 10.5#				Internal Diameter 4.052			Set at Perforations 1464' 1270'			To 1302'			
Tubing Si	ize		Weigl	nt	Internal Diameter Set at				Perfo	rations	То			
Type Con Single (Type Flui Dry Ga	d Production	n		Pump Unit or Traveling Plunger? (Yes) No Pumping Unit					
Producing	g Thru	(An	nulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	Gas Gravity - G _g		
Annulus	_										.6	2 \ \(\text{(D = - \lambda \ \text{O'} \):		
Vertical D	eptn()	1)				Flan	•				2"	Run) (Prover) Size		
Pressure	Buildu	ıp:	Shut in	0 2	0 13 at 8	:45	(AM)(PM)	Taken_7-	11	20	13 at 9:00	(AM)(PM)		
Well on L	ine:		Started 7-1	12	0 13 at 9					20	13 _{at} 9:45	(PM)		
			1			OBSERVE	D SURFAC	E DATA		-	Duration of Shut-i	n 24 Hours		
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H ₂ 0	rifferential Flowing V in Temperature Te		Well Head Temperature t Casing Wellhead Price (Pw) or (Pt)		ressure Wellhead Pres or (P_c) (P_w) or (P_t) or		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	-		paig (Fili)	mones H ₂ O			128	psia 142.4	psig	psia	-			
Flow							54	68.4			24			
						FLOW STR	REAM ATTF	RIBUTES						
(F _b) (F	Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _c	tor 1	Flowing Temperature Factor F ₁₁	Fa	riation Metered Flo actor R = (Mcfd)		v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m		
										31				
					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P \2	= 0.207		
(P _c) ² =		_:	(P _w) ² =	::	$P_d =$		% (1	P _c - 14.4) +	14.4 =	:	(P _d) ²			
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slo As	essure Curve pe = "n" - or ssigned dard Slope	n x l	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
_	J													
Open Flor	W			Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 psi	a		
		-	•	n behalf of the	and correct		Dhis the 2	1		ovember	ort and that he had	s knowledge of, 20 13		
			Witness (if any)		DEC 26	2013		CAN L	For	Company			
			For Comm	nission	CC	ONSERVATIO	N DIVISION		_	Che	cked by			

WICHITA, KS

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to rexempt 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 tracorrect to the best of my knowledge and belief based upon available production summaries and lease refereignment installation and/or upon type of completion or upon use being made of the gas well herein refereignment. I hereby request a one-year exemption from open flow testing for the Miller 2-13	ue and ecords
gas well on the grounds that said well:	
(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 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 Co staff as necessary to corroborate this claim for exemption from testing.	mmission
Date: 11/21/13	
RECEIVED Signature: DEC 2 6 2013 Title: Production Assistant CONSERVATION DIVISION WICHITA, KS	<u>'</u>

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.

W358 Miller 2-13 St. Francis St. Francis None July-13 FloBoss

FloBoss								
	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
7/1/2013	51	64	25	6	13		19	
7/2/2013	53	66	24	6	13		20	
7/3/2013	51	64	26	6	13		18	5.25 min bt
7/4/2013	55	68	28	6	. 13		16	
7/5/2013	55	68	27	6	13		17	
7/6/2013	54	67	29	6	13		18	
7/7/2013	67	80	31	6	13		19	
7/8/2013	64	77	31	6	13		20	
7/9/2013	62	75	31	6	13		21	
7/10/2013	61		32	6				si for state test - cp 61
7/11/2013	128	77	0	6	13	24	21	reopened - cp 128
7/12/2013	70	83	40	6	6		9	shut pumping unit off hfp
7/13/2013	72	85	35	6	0	2.5	0	
7/14/2013	75	88	29	6	0		0	
7/15/2013	55	68	28	6	6		9	restart pu
7/16/2013	52	65	30	6	13		20	treated well 5 min bt grease19d
7/17/2013	48	61	31	6	13		21	
7/18/2013	79	92	31	6	6		9	pu off hfp
7/19/2013	70	83	31	6	0		0	
7/20/2013	72	85	27	6	0		0	
7/21/2013	73	86	26	6	0		0	
7/22/2013	68	81	26	6	0		0	
7/23/2013	66	79	25	6	6		9	restart pu
7/24/2013	73	86	27	6	13		21	
7/25/2013	76	89	30	6	6		9	pu off hfp
7/26/2013	64	77	27	6	6		10	restart pu
7/27/2013	52	65	29	6	13		20	
7/28/2013	54	67	31	6	13		21	
7/29/2013	52	65	31	6	13		20	
7/30/2013	94	107	32	6	6	3.5	9	pu off hfp
7/31/2013	112	125	25	6	0	5.5	0	

Total 875 396

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CONSERVATION DIVISION WICHITA, KS

W358 Miller 2-13 St. Francis St. Francis None August-13 FloBoss

Total

FloBoss	<u> </u>					IID C	TT7-4	DEMARKS
	Casing					HRS	Water	REMARKS
DATE	PSI_	STATIC		SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
8/1/2013	74		28					
8/2/2013	75		25					
8/3/2013	70		25	6				
8/4/2013	72		23	6				
8/5/2013	62	75	23	6				
8/6/2013	51	64	23	6	7		10	restart pu
8/7/2013	47	60	25	6	13		20	
8/8/2013	51	64	27	6	13		21	
8/9/2013	54	67	28	6	13		21	
8/10/2013	52	65	28	6	13		20	
8/11/2013	49	62	30	6	13		19	
8/12/2013	49	62	30	6	13		20	
8/13/2013	49	62	31	6	13		21	
8/14/2013	50	63	32	6	13		22	
8/15/2013	50	63	32	6	13	0.5	18	5.25 min bt greased
8/16/2013	61	74	32	6	13		16	
8/17/2013	61	74	33	6	13		18	
8/18/2013	62	75	33	6	13		19	
8/19/2013	64	77	33	6	6	1.5	8	
8/20/2013	87	100	31	6	0	1	0	
8/21/2013	83	96	27	6	0		0	
8/22/2013	86	99	26	6	0	5	0	
8/23/2013	69	82	26	6	0		0	
8/24/2013	80	93	25	6	0	1	0	
8/25/2013	85	98	25	6	0	1	0	
8/26/2013	51	64	24	6	6		8	started pumping unit
8/27/2013	48	61	25	6	13		18	
8/28/2013	47	60	27	6	13		19	
8/29/2013	89	102	27	6	6		8	pu off hfp
8/30/2013	84		26	6	0		0	
8/31/2013	84	97	24	6	0		0	

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CONSERVATION DIVISION WICHITA, KS

W358 Miller 2-13 St. Francis St. Francis None

September-13

FloBoss

Total

FloBoss								· · · · · · · · · · · · · · · · · · ·
	Casing				l	HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2013	107	120	20			1	-	-
9/2/2013	90	103	28					
9/3/2013	127	140	24			22		
9/4/2013	131	144	1			10		
9/5/2013	114	127	14					
9/6/2013	86	99	30			1		
9/7/2013	92	105	24					·
9/8/2013	90	103	22					
9/9/2013	92	105	22					
9/10/2013	96	109	21			2		
9/11/2013	123	136	21					
9/12/2013	133	146	5			18		
9/13/2013	86	99	24			4		
9/14/2013	71	84	22			2		
9/15/2013	81	94	21					
9/16/2013	61	74	21					
9/17/2013	51	64	20					
9/18/2013	48	61	20	6	6		9	restart pu
9/19/2013	44	57	23	6	5 13		18	-
9/20/2013	32	45	25	6	5 13		17	
9/21/2013	35	48	26	ϵ	5 13		16	
9/22/2013	59	72	26	6	5 13		17	
9/23/2013	62	75	27	6	5 13		18	
9/24/2013	53	66	27	6	6	4	9	pu off hfp
9/25/2013	84	97	24	6	5 0		0	
9/26/2013	70	83	23	6	6 0		0	
9/27/2013	49	62	22	6	6		9	restart pu treated well
9/28/2013	53	66	24	6	5 13		18	
9/29/2013	53	66	26	6	5 13		16	
9/30/2013	58	71	26	6	5 13		18	•
10/1/2013								
		- 			_	•	_	

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