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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:		105			(	See Instruc	tions on Re	verse Side	9)					
Op	en Flo	w	MOIL			Test Date	a·			٨٥	l No. 15				
De	liverab	oilty				3/7/201					3-20661-00 <b>9</b>	0			
Company		sou	rces, Inc.					Lease Ella Ma	e				22-3	Well Nu	ımber
County Location Cheyenne SENW					Section TWP 3S 3S			RNG (E/W) 42W				Acres A	Attributed		
Field Cherry C	Creek					Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.					
Completio 4/2/2006		te			· · · · · · · · · · · · · · · · · · ·	Plug Bac 1765'	•				Set at				
Casing S 4 1/2"	ize		Weig 10.5			Internal Diameter Set at 4.052 1766.09'			Perfo 160	То 1628'					
Tubing Si	ize		Weig	ht		Internal [	Internal Diameter Set at			Perforations To				_	
Type Con Single (							Type Fluid Production Dry Gas				Pump Unit or Traveling Plunger? Ye flowing				
Producing	•	(Anr	nulus / Tubii	ng)		% C	Carbon Dioxi	de	V	% Nitro	% Nitrogen Gas				
Vertical D	epth(F	1)				<u>-</u>		sure Taps					•	Run) (P	rover) Size
1402'							Flan	<del>-</del>					2"		
Pressure	Buildu		Shut in 3-			$\sim$						13 at.		(	AM) (PM)
Well on L	ine:		Started 3-7		20	13 at 1	1.40	(AM)(PM)	Taken 3-	·8	20	13 at	1:30	(	AM) PM
							OBSERVE	D SURFAC	E DATA			Duration	of Shut	-in _24	Hours
Static / Dynamic Property	Dynamic Size		Meter Prover Pressure		Pressure Differential in	Flowing Well Head Temperature t t		Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )			Duration (Hours)		d Produced Barrels)
Shut-In			psig (Pm	)	Inches H <sub>2</sub> 0			psig 135	psia 149.4	psig	psia				
Flow								23	37.4						
							FLOW STR	EAM ATTR	IBUTES	•					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension Facto ✓ P <sub>m</sub> x h F <sub>g</sub>		tor T	or Temperature		reviation Metered Flow Factor R F <sub>pv</sub> (Mcfd)			GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
											0				
						(OPEN FLO	OW) (DELIV	ERABILITY	) CALCUL	ATIONS				) <sup>2</sup> = 0.2	07
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup>	=	:	P <sub>d</sub> =	9	% (F	P <sub>c</sub> - 14.4) +	14.4 =	:			) <sup>2</sup> =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		2	ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		An	tilog	Del Equals	en Flow verability R x Antilog (Mcfd)
Open Flow					Mcfd @ 14.6	65 psia		Deliverab	ilitv			Mcfd @	14.65 ps	ia	
		aned	Lauthority				tates that L		<u> </u>	n maka #	ne above repo				lodge of
					report is true							rt and tr	iat ne na		eage or
										Cel		1/1	1015	Fi.	11/
			Witness	(if any	)					<u> </u>	For C	- V V Company	K	cov	VICHIT
		•	For Com	nissio	n			-			Chec	ked by	D	EC 2	6 2013

exempt and tha	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
of equip	to the best of my knowledge and belief based upon available production summaries and lease records oment installation and/or upon type of completion or upon use being made of the gas well herein named.
	ereby request a one-year exemption from open flow testing for the Ella Mae 22-3  Il on the grounds that said well:
staff as	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  rther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
	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. **KCC WICHITA** 

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W433 Ella Mae 22-3 West St. Francis St. Francis None March-13

	Casing		HR	s	REMARKS
DATE	PSI	STATIC MCF	DO	WN	(Maximum length 110 characters)
3/1/2013	31	44	0		
3/2/2013	34	47	0		
3/3/2013	25	38	0		
3/4/2013	24	37	0	,	
3/5/2013	44	58	0		
3/6/2013	100	114	0		shut well in for state test
3/7/2013	135	139	0	24	open psi 135
3/8/2013	67	81	0		
3/9/2013	50	64	0		
3/10/2013	47	60	0		
3/11/2013	23	37	2		
3/12/2013	22	36	0	3	
3/13/2013	42	56	0		
3/14/2013	55	69	0	1	
3/15/2013	67	80	0		
3/16/2013	58	71	0		
3/17/2013	48	61	0		
3/18/2013	53	66	0		
3/19/2013	.37	50	0		
3/20/2013	37	50	0		
3/21/2013	28	42	0		
3/22/2013	23	37	0		
3/23/2013	24	38	0		
3/24/2013	23	37	0		•
3/25/2013	66	80	0		
3/26/2013	65	79	0		,
3/27/2013	24	38	0		
3/28/2013	23	37	0		: •
3/29/2013	23	37	0		
3/30/2013	23	36	0		
3/31/2013	23	36	0		

Total 2

W433 Ella Mae 22-3 West St. Francis St. Francis None April-13

	Casing		HRS	REMARKS
DATE	PSI	STATIC MCI	F DOWN	(Maximum length 110 characters)
4/1/2013	2	3 37	0	
4/2/2013	2.	3 37	0	
4/3/2013	24	4 38	0	
4/4/2013	20	5 40	0	
4/5/2013	62	2 75	0	
4/6/2013	4	7 60	0	
4/7/2013	4	7 60	0	
4/8/2013	4:	5 59	0	
4/9/2013	4:	5 59	0	
4/10/2013	4	1 58	0	
4/11/2013	4′	7 60	0	2
4/12/2013	32	2 46	0	
4/13/2013	2	1 34	0	
4/14/2013	7'	7 90	0	1
4/15/2013	5′	7 70	0	
4/16/2013	54	4 67	0	
4/17/2013	2	1 35	0	
4/18/2013	33	3 46	0	
4/19/2013	2:	5 38	0	
4/20/2013	2:	5 38	0	
4/21/2013	4:	5 58	0	
4/22/2013	4:	5 58	0	
4/23/2013	4.	3 56	0	
4/24/2013	43	3 56	0	
4/25/2013	50	69	0	
4/26/2013	50	69	0	
4/27/2013	50	69	0	
4/28/2013	6:	5 78	0	
4/29/2013	63	3 76	0	
4/30/2013	54	67	0	
5/1/2013				

Total 0

W433 Ella Mae 22-3 West St. Francis St. Francis None May-13

	Casing		HRS	REMARKS
DATE	PSI	STATIC MC	F DOWN	(Maximum length 110 characters)
5/1/2013	56	69	0	
5/2/2013	60	73	0	
5/3/2013	50	64	0	
5/4/2013	46	60	0	
5/5/2013	46	60	0	
5/6/2013	48	62	0	
5/7/2013	49	63	0	
5/8/2013	51	65	0	
5/9/2013	55	69	0	
5/10/2013	41	54	0	
5/11/2013	34		0	
5/12/2013	27		0	
5/13/2013	27	40	0	
5/14/2013	27	40	0	
5/15/2013	96	109	0	
5/16/2013	75	88	0	
5/17/2013	29	43	0	
5/18/2013	27	40	0	
5/19/2013	27	40	0	
5/20/2013	25	38	0	
5/21/2013	51	64	0	
5/22/2013	55	68	0	14
5/23/2013	162	175	0	10
5/24/2013	100	113	0	4
5/25/2013	94	107	0	
5/26/2013	87	100	0	
5/27/2013	84	97	0	
5/28/2013	73	86	0	
5/29/2013	84	97	0	
5/30/2013	51	64	0	
5/31/2013	49	62	0	

Total 0