KCC WICHITA

7

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruc	ctions on Re	everse Side	∌)				
Op	en Flo	ν.	ØSI_			.				4.0	141- 45			
De	liverab	ilty				Test Date 2/4/200				18 ⁻	I No. 15 1-20490-01 -	Ø		
Company		soui	rces, Inc.			2, 1,200		Lease Wahrm	nan			13-22	Well No	ımber
County Location Sherman NWSW				Section 22					/W)		Acres Attributed 80			
**************************************						Reservoir Niobrara				39W 80 Gas Gathering Connection Branch Systems Inc.				
Completic 3/26/200		8				Plug Bac 3455'	Plug Back Total Depth				Set at			
Casing Size Weight				Internal Diameter Set at 4.000 3455'				Perfo	orations 7'	To 3442	то 3442'			
Tubing Size Weight NONE					Internal Diameter Set at				orations	То	То			
Type Con Single (Type Flui Dry Ga	d Production	n		Pump U Flowir	nit or Traveling	Plunger? Yes	/ (No))
	g Thru		nulus / Tubir	ıg)							jen	Gas G	Gas Gravity - G _g	
Vertical D)					Pressure Taps Flange					(Meter 2"	Run) (P	rover) Size
Pressure	Buildu	p: ;	Shut in 2-3	3	2	0 09 at 1	09 at 10:30 (AM) (PM) Taken 2				20	09 _{at} 10:45		
Well on Line: Started 2-4 2			2	09 at 10:45 (AM) (PM) Taken 2-				5	20	09 at 11:30		(PM)		
							OBSERVI	ED SURFAC	E DATA			Duration of Shut	72	Hours
Static / Dynamic Property	Static / Orifice Meter ynamic Size Prover Pre		Circle one: Meter Prover Press psig (Pm)	- 1	Pressure Differential in Inches H ₂ 0	fferential Flowing Temperature		Well Head Temperature t Can Wellhead (P _w) or (F				Duration Liquid Produ (Hours) (Barrels)		1
Shut-In			,		2			13	27.4	paig	poia			
Flow								17	31.4			72	0	
				т-			FLOW ST	REAM ATTE	RIBUTES					T
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension P _m xh	sion Factor		Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	y GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m
											20			
			·····	J		(OPEN FL	OW) (DELIV	/ERABILITY	/) CALCUL	ATIONS		(P.) ² = 0.2	07
(P _c) ² =		_:	(P _w) ² :	=	<u></u> :	P _d =		% (P _c - 14.4) +	14.4 = _	:) ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		:	hoose formula 1 or 2: 1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ 1. or 2. and divide by:		Slope : or P2_P2 Assign		essure Curve ppe = "n" - or ssigned dard Slope	n x LOG		Antilog	Antilog Open Flow Deliverability Equals R x Ant (Mcfd)	
					- c w				· · · · · · · · · · · · · · · · · · ·					
Open Flov	.N				Mcfd @ 14.	65 peia		Deliverat	hility			Mofd @ 14 65	l l	
Орен гю	-				WICIU W 14.	oo psia		Deliverat	omity			Mcfd @ 14.65 ps		
		-	•		ehalf of the report is true			•			ne above repo lovember	rt and that he h		ledge of 20 09 .
			Witness	(if on	<u>.</u>			-		On	n W	Loek Company	BR	ECEIVEI
											Chan	cked by	NO	ECEIVEI IV 30 20
			For Com	HISSIC	#1						Chec	ked by		- 50 20

exempt sta and that th correct to to of equipment I hereb	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. ne foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Wahrman 13-22H
gas well of	n 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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission
stan as ne	cessary to corroborate this claim for exemption from testing.
Date: 11/1	16/09
	Signature: Jon W Roels
	Title: Production Foreman

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.

RECEIVED

NOV 3 0 2009

W2395 Wahrmann 13-22H North Goodland Goodland None February-09

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
2/1/2009	1	3 26	5 2	20	0	
2/2/2009	1	3 26	5 2	20	0	
2/3/2009	2	0 33	3 · · · :	10	12	
2/4/2009	2	0 33	}	0	24	
2/5/2009	2	0 33	}	0	24	
2/6/2009	2	0 33	3	0	24	
2/7/2009	2	0 33	3	9	10	bp
2/8/2009	1	7 30) 2	26	0	
2/9/2009	1	7 30) 2	23	0	
2/10/2009	1	6 29)]	18	5	
2/11/2009	1	6 29) 2	20	2	
2/12/2009	1	6 29) 2	20	0	
2/13/2009	1	6 29) 2	20	0	
2/14/2009	1	6 29) 2	20	0	
2/15/2009	1	6 29) 2	20	0	
2/16/2009	1	6 29) 2	20	0	
2/17/2009	1	6 29) 2	20	0	
2/18/2009	1	5 28	3 2	20	0	bp
2/19/2009	1	5 28	3 2	20	0	
2/20/2009	1	5 28	3 2	20	0	
2/21/2009	1	5 28	3 2	20	0	
2/22/2009	1	5 28	3	20	0	
2/23/2009	1	5 28	3	20	0	
2/24/2009	1	5 28	3	20	0	
2/25/2009	1	5 28	3	20	0	
2/26/2009	1	4 27	' 2	20	0	
2/27/2009	1	4 27	' 2	20	6	
2/28/2009	1	4 27	' 1	.7	6	
3/1/2009					0	
3/2/2009					0	
3/3/2009					0	

Total 483

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W2395 Wahrmann 13-22H North Goodland Goodland None March-09

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
3/1/2009	1′	7 30	7	0	
3/2/2009	1′	7 30	17	0	
3/3/2009	1′	7 30	17	0	
3/4/2009	1′	7 30	20	0	
3/5/2009	10	5 29	21	0	bp
3/6/2009	10	5 29	21	0	
3/7/2009	10	5 29	21	0	
3/8/2009	10	5 29	21	0	
3/9/2009	10	5 29	21	0	
3/10/2009	10	5 29	21	0	
3/11/2009	10	5 29	21	0	
3/12/2009	10	5 29	21	0	
3/13/2009	13	3 26	20	0	
3/14/2009	13	3 26	20	0	
3/15/2009	13	3 26	20	0	
3/16/2009	14	27	20	0	
3/17/2009	14	27	20	0	
3/18/2009	14	27	20	0	
3/19/2009	14	27	20	0	
3/20/2009	14	27	20	0	
3/21/2009	14	27	20	0	
3/22/2009	14	27	20	0	
3/23/2009	14	27	19	0	
3/24/2009	14	27	19	0	
3/25/2009	13	26	20	0	
3/26/2009	13	26	20	0	
3/27/2009	13	26	20	0	
3/28/2009	13	26	20	0	
3/29/2009	13	26	20	0	
3/30/2009	13	26	19	0	
3/31/2009	. 13	26	19	0	

Total 605