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

L Deli	en Flow liverabilty	,		Test Date 5-22-13					No. 15 -20,673 ~	0000		
Company		Inc		J-22-10	<u>'</u> .	Lease Foos		071	-20,010		Well Number	
W.R. Williams, Inc. County Location			Section		TWP	TWP		RNG (E/W)		Acres Attributed		
Greeley E/2 SE			36 Reservoi	<del></del>	198	19\$		asina Conn		640		
Bradshaw				Winfie				Gas Gathering Conn Duke Energy		ection		
Completion Date 8-24-97			Plug Bad <b>2856</b>	k Total Dep	oth		Packer S	et at				
Casing Siz	asing Size Weight .5 10.5		Internal Diameter 4.052		Set at 2863		Perforations 2842		то <b>285</b> 2	F-F-200 H		
Fubing Siz	bing Size Weight		Internal Diameter		Set at		Perforations		<b>2002</b> To			
2.375 4.7 Type Completion (Describe)			1.995	id Productio	2853		Pump Unit or Traveling F		Plunger? Vee	/ No		
Single C	Gas	· 		Water				Pump l	Jnit	_		
Producing <b>Annulus</b>		nnulus / Tubir	ng)	% (	Carbon Diox	ride		% Nitroge	en	Gas Gr . <b>700</b>	avity - G <sub>g</sub>	
/ertical De					Pres	ssure Taps					Run) (Prover) Size	
2860		Ē.	21	10 0	-20 444	Acres on Acres of the Control		22		12 0.20 4	h4	
Pressure Buildup: Well on Line:								-22 20				
		Started	2	20 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERVI	ED SURFAC	E DATA	· · · · · · · · · · · · · · · · · · ·		Duration of Shut-	in 25 Hour	
Static / Orifice Dynamic Size Property (inches)		Circle one: Pressure Meter Differential		Flowing Well Head Temperature Temperature		Casing Wellhead Pressure		Wellhea	Tubing Ilhead Pressure Duration		Liquid Produced	
		Prover Press psig (Pm)	I	t	t	(P <sub>w</sub> ) or (F	psia	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		(Hours)	(Barrels)	
Shut-In						61.0	75.4			25		
Flow												
	-				FLOW STI	REAM ATTR	IIBUTES					
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter of Prover Pressure psia	er or Extension Pressure		Gravity Factor F <sub>g</sub>		Flowing Dev Temperature Fa Factor F		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity	
											n n	
P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> :	-	(OPEN FL		/ERABILITY % (F	') CALCUL P <sub>c</sub> - 14.4) +		:		<sup>2</sup> = 0.207	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>i</sub>	2)2	(P <sub>c</sub> )² - (P <sub>w</sub> )²	Choose formula 1 or 2	LOG of		Backpre	ssure Curve pe = "n"		ГЛ		Open Flow	
or (P <sub>c</sub> ) <sup>2</sup> ~ (P <sub>c</sub>	) <sub>d</sub> ) <sup>2</sup>	2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>		formula 1. or 2.  and divide by:  p 2 p 2 w		Assigned Standard Slope		_ n x LOG		Antilog	Deliverability Equals R x Antilog (Mcfd)	
open Flow	v		Mcfd @ 14.	65 psia		Deliverab				Mcfd @ 14.65 psi	a	
				Company, s		ne is duly au	uthorized to		above repo	rt and that he ha		
			(if any)			-	Deke	Daniel		ompany	KCC WIC	
		Witness	(II ally)							Ompany		
	31.67	For Com			<b></b>	-				ked by	KCC WIC	

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt	status under Rule K.A.R. 82-3-304 on behalf of the operator W.R. Williams, Inc.
and tha	t the foregoing pressure information and statements contained on this application form are true and
correct t	to the best of my knowledge and belief based upon available production summaries and lease records
of equip	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	reby request a one-year exemption from open flow testing for the Foos #1
gas wel	I 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
l fur	ther 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.
Date: <u>5</u>	-23-13
	Signature:
	Title: President
	1100.

## 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 **KOCHATCH STA** signed and dated on the front side as though it was a verified report of annual test results.

MAY 28 2013

RECEIVED