KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Re	everse Side))					
Open Flow			Test Date: API No. 15						_				
Deliverabilty			7-26-11					·20,226 ·	$-\alpha\alpha$				
Company W.R. Williams, Inc.			Lease Rutherford			rford		1	Well Number				
County Location Greeley C NE NE			Section 11		TWP 20S			RNG (E/W) 40W		Acres Attributed 640			
Field Bradshaw				Reservoir Winfiel					Bas Gathering Connection Duke Energy				
Completion Date 08-81			Plug Back Total De 2851		k Total Dep	th		Packer Set at					
Casing Size Wei		Weigl 10.5	nt	Internal Diameter 4.052		Set at 2858		Perforations 2816		то 2826			
	Tubing Size Weight		nt	Internal Diameter 1.995		Set at 2836		Perforations		То			
Type Completion (Describe) Single Gas			Type Fluid Production Water				Pump Unit or Traveling Plunge Pump Unit			/ No			
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide				% Nitroge	Gas G .700	Gas Gravity - G				
Vertical De					Pres	ssure Taps		· · · · · · · · · · · · · · · · · · ·			Run) (P	rover) Size	
Pressure E	Buildup:	Shut in	25 2	0_11_at_1	0:10 AM	(AM) (PM)	Taken_7	26	20	11 at 10:10	AM	(AM) (PM)	
Well on Lir	ne:	Started	20	0 at		. (AM) (PM)	Taken	···································	20	at		(AM) (PM)	
					OBSERVE	ED SURFAC	E DATA			Duration of Shut	.i. 24	Hours	
Static / Orifice Dynamic Size Property (inches)		Meter Different		Flowing Well Head		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration		Liquid Produced	
		Prover Press		Temperature t	Temperature t		P ₁) or (P _c)	(P _w) or (P,) or (P _c)	(Hours)	,	(Barrels)	
Shut-In						49.6	64	psig	psia	24.			
Flow													
			· · · · · · · · · · · · · · · · · · ·		FLOW STE	REAM ATTE	RIBUTES	 -					
Plate Coefficient (F _b) (F _p) Mofd		Circle one: Meter or Prover Pressure psia	Press Extension Pmxh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		iation ctor pv	Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
(P _a)² =		: (P_)²=	:	(OPEN FLO		/ERABILITY % (I	7) CALCUL P _c - 14.4) +) ² = 0.2) ² =	07	
			Choose formula 1 or 2:			1	ssure Curve				1	oen Flow	
$(P_a)^2 \cdot (P_a)^2$ or $(P_a)^2 \cdot (P_d)^2$		$(P_e)^2 - (P_w)^2$ 1. $P_e^2 - P_a^2$ 2. $P_e^2 - P_a^2$		LOG of tormula 1. or 2. and divide p.2. p.2		Slope = "n" or Assigned		laxios II		Antilog	Del Equals	Deliverability Equals R x Antilog	
			divided by: Pc2 - Pu2	by:	<u></u>	Stand	tard Slope			· · · · · · · · · · · · · · · · · · ·		(Mcfd)	
									,				
Open Flow	<u> </u>		Mcfd @ 14.6	85 psia		Deliveral	oility			Mcfd @ 14.65 ps	ia		
										rt and that he h		•	
the facts sta	ated the	rein, and that s	aid report is true	and correct	t. Executed	this the _						CEIVED	
		Witness (1 any)			-	ра	ve Olso		Company	AUG	0 5 2011	

I declare und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
	er Rule K.A.R. 82-3-304 on behalf of the operator W.R. Williams, Inc.
and that the foreg correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Rutherford #1
gas well on the gr	ounds that said well:
staff as necessary	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>7-27-11</u>	RECEIVED AUG 0 5 2011 Signature:KCC WICHITA Title:President

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.