KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instr	uct	ions on Re	verse Sid	le)							
□ Ор	en Flo	N				Took Date						401	Ma 45					
Deliverabilty			Test Date 4-4-14				API No. 15 071-20,325 - <i>0000</i>											
Company W.R. W		ns, I	nc.						Lease Helm						3	Well N	umber	
County Location Greeley 330 FSL & 2310 FEL				Section 27			TWP 18S		RNG (E/W) 40W			Acres Attributed 640						
Field Bradshaw				Reservoir Winfield				Gas Gathering Connection Duke Energy				on						
Completion Date 08-84				Plug Back Total Depth 2904					Pack	ker S	et at							
Casing Size Weight 4.5 10.5				Internal Diameter 4.052			Set : 292		Perforations 2874			то 2884						
Tubing Size Weight 2.375 4.7				Internal Diameter 1.995			Set : 290	P	Perforations			То						
Type Completion (Describe) Single Gas					Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No Pump Unit									
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide						itroge			Gas Gravity - G					
Vertical D	_	1)					Pı	ress	sure Taps							Run) (I	Prover) Size	
Pressure	Buildu	D: :	Shut in		2	0 14 at 1	:10 PM		(AM) (PM)	Taken 4	-4		20	14	1:10 F	PM	(AM) (PM)	
Well on L	.ine:												20				(AM) (PM)	
					-		OBSER	VE	D SURFAC	E DATA		_		Dui	ration of Shut	72	Hours	
Static / Dynamic , Property	ynamic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0 Flowing Temperature t		Well Head Temperature t		Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		(F	Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	Shut-In		Post (m)		1101103 1120		<u> </u>		psig 61.0	75.4	psig psia		72					
Flow																		
_						1	FLOW S	TR	EAM ATTR	RIBUTES							,	
Plate Coeffiec (F _b) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psla		Press Extension √ P _m x h		Gravity Factor F _g		Flowing Temperature Factor F _{f1}		Deviation Factor F _{pv}		or R		v GOR (Cubic Fee Barrel)		eet/	Flowing Fluid Gravity G _m	
<u> </u>																		
(P ₀) ² =		:	(P _w) ² :	=	:	(OPEN FL	• •			/) CALCU P _e - 14.4) ·			:		_) ² = 0.) ² =	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose famula 1 or 2: 1. P _c ² -P _s ² 2. P _c ² -P _d divided by: P _c ² -P _s ²		LOG of formula 1. or 2. and divide		7	Backpressure Curve Slope = "n" 		/e	n x LOG		Antilog		De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				_														
													_					
Open Flor	<u>w</u>				Mcfd @ 14.	65 psia			Deliveral	bility			-	Mcf	d @ 14.65 ps	sia		
													e above repo oril	ort a	nd that he h			
ine facts s	tated t	nerei	n, and that s	bia	report is true	and correc	t. Execu	ted	this the		day o						20 14 .	
			Witness	(if am	r)			-						Сотр	any		WICHIT	
	-		For Com	missio	on			-	•				Che	cked	by	APR	1 7 2014	
																RF	ECEIVED	

	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator W.R. Williams, Inc.
	e foregoing pressure information and statements contained on this application form are true and
	ne best of my knowledge and belief based upon available production summaries and lease records
	nt installation and/or upon type of completion or upon use being made of the gas well herein named.
	y request a one-year exemption from open flow testing for the Helm #3
gas weii 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 furthe	r agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as nec	essary to corroborate this claim for exemption from testing.
Date: 4-16	-14
	Signature: LR William
	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.

KCC WICHITA

APR 17 2014

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