KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test						(See Ins	struct	tions on Re	verse Side	e)					
	en Flo liverab					Test Date 02/21/2						No. 15 3-20953-0	<i>30-00</i>			
Company		eve	lopment (Cor	p				Léase McPhe	erson				Well No	ımber	
County			Locat	Location W2SWNW			Section 16			TWP 5S		/W)		Acres Attribu		
Field					Reservoir Niobrara			Gas Gathering Con PDC Drury Gath				,				
				Plug Bac 1551'	Plug Back Total Depth 1551'				Packer S n/a	Packer Set at n/a						
Casing Size 4.5"			Weig 10.5	Internal [4"	Internal Diameter 4"			at 2'	Perfo 143	rations 4'	то 1446'					
Tubing Size 2.375"			Weight 4.75#			Internal Diameter 2"			Set a		Perforations		То	То		
Type Com N2 Frac		n (De				Type Flui Brine \		ection	n	<u> </u>	Pump U		g Plunger? Yes	/ No		
Producing Annulus	•	(Anı	nulus / Tubin	g)		% C <1%	arbon [Dioxi	de		% Nitrog		Gas Gr	avity -	G _g	
Vertical D		i)				~170	- 1	Pres	sure Taps		170		(Meter f	Run) (P	Prover) Size	
Pressure	Buildu	p:	Shut in 02	/21	2	0_12_at_7	:40am		(AM) (PM)	Taken_02	2/22	20	12 at_11:07a	ım	(AM) (PM)	
Well on Li	ine:		Started		2	0 at			(AM) (PM)	Taken		20) at		(AM) (PM)	
							OBSE	RVE	D SURFAC	E DATA			Duration of Shut-	in_24	Hours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressure: psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P _w) or (F psig	Pressure	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	· · ·				-				115	рэц	poig	polu				
Flow																
				1			FLOW	STR	EAM ATTR	IBUTES						
Plate Coeffieci (F _b) (F Mcfd	ient ,,)	Pro	Circle one: Meter or over Pressure psia *** ***		Press Extension	Grav Fac	tor		Flowing Temperature Factor F _{tt}	Fa	viation actor = pv	Metered Flo R (Mcfd)	ow GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
			·		المديقين تسي	val t vi ≝i mar-			<u>`````````````````````````````````````</u>							
D 12			/D \2			•			ERABILITY	•			(P _a) [;] (P _d)	² = 0.2	207	
$(P_c)^2 = $ $(P_c)^2 - (F_c)^2 - ($	_	· (F	(P _w) ² =	Cho	ose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P°5- b		Backpre Slo	c - 14.4) + essure Curve pe = "n" - or ssigned lard Slope	e n x	LOG	Antilog	O De Equal:	pen Flow liverability s R x Antilog (Mcfd)	
							····								.+	
Open Flo					Mcfd @ 14.	65 peia			Deliverab				Mcfd @ 14.65 psi			
		iane	d authority o	n h			states th	at h			o make ti	ne above ren	ort and that he ha		vledge of	
			in, and that s								day of _A				20 12	
				•••					-	\subseteq	ludi	th I	hutt	<u> </u>	RECEIVE	
		,	Witness						-	0			Company	<u> </u>	NPR 2 4 20	
			For Com	missio	on							Ch	ecked by		C WICHI	

exempt and that correct of equip	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 Petroleum Development Corp at the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease record poment installation and/or upon type of completion or upon use being made of the gas well herein named breby request a one-year exemption from open flow testing for the McPherson 12-16
gas we	Il on 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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss necessary to corroborate this claim for exemption from testing.
)ate: <u>0</u>	04/17/2012
	Signature: Judith Vruitt

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.