KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:			(See Instru	ctions on Re	overse Side))					
Open Flow				T 0	Test Date: API No. 15								
✓ Deliverabilty				01/18/2012				API No. 15 023-20702 -00-0					
Company Petroleum Development Corp					Lease Brunswig						Well Number 24-7		
County Location Cheyenne SWSES				Section V 7			TWP RNG (E/W) 2S 41W			Acres Attributed 160			
Field Cherry Creek			Reservoir Niobrai			Gas Gathering Conne PDC Eureka Gath							
Completion Date 11/02/2006			Plug Bac 1645'	k Total De	pth	h Packer Set at n/a		Set at					
Casing Size 4.5"		Weight 10.5#	Weight 10.5#		Internal Diameter 4"		Set at 1666'		rations 8'	То 1522'			
Tubing Size 2.375"		Weight 4.75#		Internal Diameter 2"		Set at 1547'		Perforations		То			
Type Completion (Describe) N2 Fracture			,,	Type Fluid Production Brine Water			Pump Unit or Traveling I Yes, PU			Plunger? Yes / No			
Producing Thru (Annulus / Tubing) Annulus				% C <1%	% Carbon Dioxide <1%			% Nitrogen <1%			Gas Gravity - G _g		
Vertical E 1675'	epth(H)		• • •		Pre	ssure Taps				(Meter	Run) (Prover) Size		
Pressure	Buildup:	Shut in01/1	8 2	0_12 at_9	:00am	_ (AM) (PM)	Taken_0	1/19	20	12 at 10:20a	am (AM) (PM)		
Well on L	ine:	Started	2	0 at		_ (AM) (PM)	Taken	<u>.</u>	20	at	(AM) (PM)		
					OBSERV	ED SURFAC	E DATA			Duration of Shut-	in 24 Hours		
Static / Dynamic Property	Orifice Size (inches	Meter Prover Pressur	Meter Differential ver Pressure in		Well Head Temperature t	wellhead Pressure (P_w) or (P_r) or (P_s)		Tubing Wellhead Pressure (P_{π}) or (P_{t}) or (P_{c})		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		poly (Fill)	Inches 11 ₂ 0			psig 55	psia	psig	psia				
Flow													
1	i	<u> </u>			FLOW ST	REAM ATTR	RIBUTES		 				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Mater or Press Extension Prover Pressure psia		Gravity Factor F ₀		Flowing Temperature Factor F _n	perature Factor		Metered Flow R (Mcfd)	(Cubic Fe Barrel)	Growity		
													
(P _c)? =		: (P _*) ² =_		(OPEN FL	OW) (DELI	VERABILITY % (I	') CALCUL P _e - 14.4) +			(P₄) (P₃)	² = 0.207 ² =		
(P _e) ² - (I	P _a) ²	(P _c) ² · (P _w) ² Choose forms 1. P _c ² 2. P _c ² divided by: F		LOG of formula 1 or 2, and divide	P _c ² - P _w ²	Backpressure Curve Slope = "n"		n x LOG		O De Antilog Equal:	Open Flow Deliverability Equals R x Antilog (Mcfd)		
									•				
Open Flo	<u> </u>		Mcfd @ 14.	66 peia		Dalivarat	nility			Mold @ 14 PF ~-	in		
·						Deliverat				Mcfd @ 14.65 ps	···		
		ned authority, on rein, and that sa						o make the		rt and that he ha	as knowledge of 20 _12		
···		Witness (ii	any)				(Jus	ith	ompany kusi	ZRECEIVED		
		For Commi	ecion	<u> </u>					Chec	ked by	APR 2 4 2012		

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
and that the fo correct to the b of equipment in	regoing pressure information and statements contained on this application form are true and est of my knowledge and belief based upon available production summaries and lease records istallation and/or upon type of completion or upon use being made of the gas well herein named. quest a one-year exemption from open flow testing for the Brunswig 24-7
gas well on the	grounds that said well:
(Ch	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
	ree to supply to the best of my ability any and all supporting documents deemed by Commission cary to corroborate this claim for exemption from testing.
Date: <u>04/17/2</u> 0	012
	Signature: Judith Fruitt Title: Sr. Engineering Tech

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.