KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

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Type Test: (S							See Instructions on Reverse Side)						L 13 ZU	
Open Flow Deliverabilty						Test Date: 03/30/2010				API No. 15 023-20698 0000			WICHI	
Company)eve	elonment C	orn	00/00/2	Lease Brunswig				Well Number 24-5				
Petroleum Development Corp County Location					Section	Section TWP			RNG (E	:/W)	Acres Attributed			
Cheyenne NESESW					5		2S		41W	Mandan Oran		160		
Field Cherry Creek						Niobrara			Gas Gathering Connecti PDC Eureka Gathe					
Completion Date 03/26/2007				Plug Bac 1617 '	k Total De	epth	Packer Set at n/a							
Casing Size 1.5"			Weight 10.5#		Internal Diameter 4"		Set 163	Set at 1633 '		orations 9	™ 1501 ¹			
Tubing Size 2.375"			Weight 4.75#		Internal Diameter 2"			Set at 1529 '		orations	То			
Type Completion (Describe) N2 Fracture						Type Fluid Production Brine Water				Pump Unit or Traveling Plunger? Ye Yes, PU				
Producing Thru (Annulus / Tubing)						% Carbon Dioxide			% Nitro		Gas Gravity - G			
Annulus					<1%	<1%			<1%					
ertical D	Pepth(F	1)				Pre	essure Taps				(Meter	Run) (Pr	over) Size	
essure	Buildu	ıp:	Shut in03/3	30 2	0_10_at_4	:00pm	_ (AM) (PM)	Taken_03	/31	20	10 at 4:05p	m(AM) (PM)	
ell on L	.ine:		Started	2	0 at					20	at	(AM) (PM)	
						OBSER\	/ED SURFAC	E DATA			Duration of Shut	-in <u>24</u>	Hours	
Static / ynamic roperty	amic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperatu t	re (P _w) or (F	(P_w) or (P_1) or (P_c)		Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			paig (i iii)	mones 11 ₂ 0			psig 58	psia	psig	psia				
Flow														
						FLOW S	FREAM ATTE	RIBUTES		· · · · · · · · · · · · · · · · · · ·				
Plate Coefficient (F _p) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fac F _s	tor	Flowing Temperature Factor F ₁₁		ation ctor	Metered Flow R (Mcfd)	GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
					(OPEN EL	OW) (DEL	IVERABILITY) CAI CIII	ATIONS					
)2 =		,	(P _w) ² =_		P _d =			P _c - 14.4) +		:) ² = 0.20) ² =)7	
		(P _c) ² - (P _w) ²		1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ 1. or 2. and divide by: $P_c^2 - P_w^2$			Backpre Slo As	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
									_			-		
Dpen Flow Mcfd @ 14.65 psia						Deliverat	Deliverability			Mcfd @ 14.65 psia				
		I.a	d cutt		· ·	totos de . ·			. mal:= "		·		adac of	
		•	•	behalf of the			•	2	day of J	uly	rt and that he h		eage of 20 <u>10 .</u> .	
			Witness (if	any)			-		hiti	Aus For C	Company			
			E	noine.			-			Chan	ked by	_,		
			For Commi	ssion						Chec	ked by			

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KCC WICHITA
I declare 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 Petroleum Development Corp
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the Brunswig 24-5
gas well 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 further agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.
07//0/00/0
Date: 07/12/2010
Signature:
Title: Area Supervisor

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.