KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruct	tions on Rev	verse Side)					
Op	en Flow	•		Toot Date				A DI A	lo 1E				
✓ De	liverabilt	у		Test Date 02/22/2				023	No. 15 -20713 <i>—</i>	<u> </u>	<u> </u>		
Company Petroleum Development Corp				_{Lease} Gemaehlich						Well Number 33-18			
County Location Cheyenne SENWSE			Section 18		TWP 2S		RNG (E/W) 41W			Acres Attributed 160			
				Reservoir Niobrara		Gas Gathering Conne PDC Eureka Gath							
Completion Date			Plug Bac 1663'	k Total Dept	h		Packer Set at n/a			***************************************			
Casing Size Weight 4.5" 10.5#				Internal Diameter 4"		Set at 1686'		ations		то 1545'			
Tubing Size 2.375"		Weig	Weight 4.75#		Internal Diameter		Set at 1570'		ations	· · · · · · · · · · · · · · · · · · ·	То		
			Type Flui	Type Fluid Production Brine Water			Pump Unit or Traveling Plung Yes, PU			er? Yes / No			
Producing Thru (Annulus / Tubing)			% C	Carbon Dioxi	de	e %		% Nitrogen			Gas Gravity - G _g		
Annulus				<1%	<1%			<1%			(Meter Run) (Prover) Size		
Vertical D 1729'	eptn(H)				Pres	sure Taps		,			inerer Hani) (Prover) Size	
Pressure	Buildup:	Shut in 02	/222	0_11_at_9	:15am	(AM) (PM)	Taken_02	2/23	20	11 at _9):25am	(AM) (PM)	
Well on L	.ine:	Started	2	0 at		(AM) (PM)	Taken		20	at _		(AM) (PM)	
					OBSERVE	D SURFACE	E DATA	····		Duration of	of Shut-in_	24 Hours	
Static / Dynamic Property	namic Size Prover Press		Pressure Differential in	Flowing Temperature t	Well Head Temperature t Ca Wellhead (P _w) or (ressure Wellhe		bing d Pressure (P _t) or (P _c)	Durat (Hou	ion L	Liquid Produced (Barrels)	
Shut-In	(IIICITOS	ysig (Pm)	Inches H ₂ 0			psig 66	psia	psig	psia				
Flow													
				•	FLOW STR	EAM ATTR	BUTES						
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P _m x h	Gravity Factor F _g		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)			GOR Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m	
(P _c) ² =		: (P) ² :	=:	•	OW) (DELIV) CALCUL ² c - 14.4) +		:		$(P_a)^2 = (P_d)^2 =$		
(P _c) ² - (I	P _a) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2.		Backpres Slop Ass	ssure Curve be = "n" or signed ard Slope	n x I	og [Antik	ng	Open Flow Deliverability quals R x Antilog (Mcfd)	
****												o o	
Open Flo	L		Mcfd @ 14.	65 psia	·	Deliverab	ility			Mcfd @ 1	4.65 psia		
		ned authority, o	on behalf of the		states that h			o make the	above repo		· · · · · · · · · · · · · · · · · · ·	nowledge of	
the facts s	tated the	erein, and that s	said report is true	e and correc	t. Executed	this the 1	3	day of Ju	ly 			, 20 <u>2011</u> .	
		Witness	(if any)			-	4		For	Company	·R	ECEIVED	
	·	For Com	mission						Che	cked by		UG 0 2 2011	
											P-71	OO O C LO	

KCC WICHITA

exempt statu	under penalty of perjury under the laws of the state of Kansas that I am authorized to request sunder 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
	installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the Gemaehlich 33-18
	ne grounds that said well:
I further a	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 agree to supply to the best of my ability any and all supporting documents deemed by Commission ssary to corroborate this claim for exemption from testing.
Date: 07/13/	2011
	Signature:

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.

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