KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Re	everse Side	»)					
Open Flow					Total Date:									
/ Deliverability					Test Date: 02/21/2012				API No. 15 023-20955 - 🗫 🗪					
Company Petroleum Development Corp					Lease Bandel				Well Number 44-19					
County Cheyenne			Location NESESE		Section 19		TWP 5S			W)	Acres Attribut 160		ributed	
Field Cherry	Cree	k		Reservoir Niobrara				Gas Gathering Conr PDC Battle Cree						
Completion 03/13/2		е		Plug Back Total Depti 1630'		oth	h P		et at					
Casing Size 4.5"			Weight 10.5#		Internal Diameter 4"		Set at 1651'		Perforations 1484'		To 1496'			
Tubing Size 1.5"			Weight 2.75#		internal [1 1/16"		1478'		Perforations		То			
Type Completion (Describe) N2 Fracture				Brine V	Type Fluid Production Brine Water			Pump Un Yes, P		Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Annulus				% c <1%	% Carbon Dioxide <1%			% Nitroge <1%	en		Gas Gravity - G _g			
Vertical D 1670'	epth(H	1)			,	Pres	ssure Taps				(Meter	Run) (Prov	/er) Size	
Pressure	Buildu	p:	Shut in02/2	21 2	0_12_at_8	:10am	_ (AM) (PM)	Taken 02	2/22	20	12 at 11:43a	am (AM	M) (PM)	
Well on L	ine:		Started	20	Oat		_ (AM) (PM)	Taken	·····-	20	at	(AI	vi) (PM)	
						OBSERV	ED SURFAC	E DATA			Duration of Shut-	-in <u>24</u>	Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressu: psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P ₊) or (P ₁) or (P ₀)		Tubing Welthead Pressure (P_w) or (P_l) or (P_c)		Duration (Hours)	1 *	Liquid Produced (Barrels)	
Shut-In	t-In		, , , , , , , , , , , , , , , , , , ,				psig 85		psig	psia				
Flow	-													
			Circle and			FLOW ST	REAM ATTE	RIBUTES			1	 ;		
Plate Coeffiecient (F _b) (F _p) Motd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh	Grav Fact	tor Temperature		Fa	iation ector	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	eet/	Flowing Fluid Gravity G _m	
D 12 -			(P _w)² =	_		OW) (DELI	VERABILITY % () ² = 0.207	•	
$ P_c ^2 = \frac{ P_c ^2 - (P_a)^2}{(P_c)^2 - (P_a)^2}$		= : (F	P _o) ² - (P _w) ²	1. P _c ² -P _a ² 2. P _c ² -P _o ²	LOG of formula 1. or 2. and divide	P.2-P.2	% (P _c - 14.4) + 1 Backpressure Curve Stope = "n"			og \	(P _d)	Open Delive Equals R	Open Flow Deliverability Equals R x Antilog	
				livided by: Pc2 - Pg	by:	<u></u> <u>"</u>	Stanc	dard Slope		<u> </u>		(M	cfd)	
Open Flow Mcfd @ 14.65 ps				65 psia	psia Deliverability			Mcfd @ 14.65 psia						
		-	•	behalf of the			•		o make the	•	vit and that he ha		dge of	
			,	/ -					كه ريل	ith	Parit		CEIVI	
			Witness (if	any)			•	0	7	For	Company	ΔΡΙ	R 2 4 2	
			For Commi	ssion			•			Che	cked by		<u> </u>	

exempt status und and that the fore correct to the best of equipment inst	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp going pressure information and statements contained on this application form are true and t of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named.
	ounds 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 to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: <u>04/18/2012</u>	<u>!</u>
	Signature: Judath Pruit Title: Engineering Technician II

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.