## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruct	tions on Re	verse Side	)			
☐ Open Flow  ☐ Deliverability				Test Date:				API No. 15				
Company Petroleum Development Corp			03/06/2	03/06/2012 Lease Bammes			023-20294 - O- O Well Number 8-2-1					
County Location Cheyenne SWNWNE			Section 8		TWP		RNG (E/W) 41W		Acres Attributed			
Field				Reservoir Niobrara			Gas Gathering Connection PDC Eureka Gathering					
Completion Date				Plug Bac	Plug Back Total Depth			Packer Set at				
12/18/1990 Casing Size Weight			1633'	Diameter	Set	n/a Set at Perforations			To			
4.5" 10.5#				4"		1670' Set at		1500	1500'		1534'	
Tubing Size Weight 2.375" 4.75#				Internal Diameter 2"			at 1'	Perforations		То		
Type Con N2 Frac		(Des	cribe)	-	Type Flui Brine \	d Production Nater	า	.,	Pump Un Yes, P	it or Traveling F U	lunger? Yes	/ No
Producing Thru (Annulus / Tubing) Annulus				% C <1%	% Carbon Dioxide			% Nitroge <1%	en .	Gas Gra	Gas Gravity - G <sub>g</sub>	
Vertical D	epth(H	)				Pres	sure Taps				(Meter F	lun) (Prover) Size
1747'	Duildus		03/	06	. 12 8	:30am	(AN) (DN)	Tokan 03	3/07	20 1	12 . 9:00am	1 (AM) (PM)
Well on L												(AM) (PM)
						OBSERVE	D SURFAC	E DATA			uration of Shut-i	n 24 Hours
Static / Orifice Dynamic Size		۾ ا	Circle one: Meter rover Pressu	Pressure Differential	Flowing Temperature	Well Head Temperature	d Casing		Tubing Welthead Pressure (P <sub>w</sub> ) or (P <sub>n</sub> ) or (P <sub>n</sub> )		Duration of Shut-In  Duration (Hours)	Liquid Produced (Barrels)
Property	(inche	) 	psig (Pm)	Inches H <sub>2</sub> 0	1	1	psig	psia	psig	psia		
Shut-In Flow				-			250					
FIGW						FLOW STR	EAM ATTR	IBUTES	L			
Plate Coefficcient (F <sub>b</sub> ) (F <sub>c</sub> ) Mold		M Prove	rde one: eter or r Pressure psia	Press Extension Pmxh	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	iation ctor pv	Metered Flow R (McId)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G <sub>m</sub>
<u> </u>	L				(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		(D )?	= 0.207
(P <sub>c</sub> )² =		<u>.</u> :	(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> =		% (1	P <sub>c</sub> - 14.4) +	14.4 =	·:	(P <sub>a</sub> ) <sup>2</sup>	
(P <sub>p</sub> ) <sup>p</sup> - (I or (P <sub>p</sub> ) <sup>p</sup> - (I	P <sub>a</sub> )²	(P <sub>s</sub> ):	t- (P <sub>w</sub> )t	Choose formula 1 or 2.  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> dMidded by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2. and divide	P <sub>0</sub> <sup>2</sup> · P <sub>y</sub> <sup>2</sup>	Slo	essure Curve pe = "n" - or ssigned tard Stope	nxL	∞ [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
							-					
Open Flow			Mcfd @ 14.65 psia			<u> </u> Deliverat	l l Deliverability		<u> </u> M	Mcfd @ 14.65 psia		
		_	-	n behalf of the					day of A		and that he has	s knowledge of 20 12 RECEIVED
			Witness (i					0		For Cor		APR 2 4 20
			For Comm	ission			•			Checke	ed by	

exempt status under Rule K and that the foregoing press correct to the best of my kno of equipment installation and	of perjury under the laws of the state of Kansas that I am authorized to request A.R. 82-3-304 on behalf of the operator Petroleum Development Corpure information and statements contained on this application form are true and wledge and belief based upon available production summaries and lease records for upon type of completion or upon use being made of the gas well herein named.
(Check one)	ed methane producer
is a source	on plunger lift due to water e of natural gas for injection into an oil reservoir undergoing ER uum at the present time; KCC approval Docket No
I further agree to supply	able of producing at a daily rate in excess of 250 mcf/D to the best of my ability any and all supporting documents deemed by Commission
staff as necessary to corrob  Date: 04/17/2012	orate this claim for exemption from testing.
	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.