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

_ :	t: en Flo liverat					Test Date	e:	truct	tions on Re	verse Side	, AP	l No. 15		<b>,</b>			
Company	,		nment Cor	nors	etion	02/25/2	009		Lease Northru	n	023	3-20710 <b>56</b>			Well N	ımber	
Petroleum Development Corporation  County Location  Cheyenne SWNE				Section 15				TWP 2S		/W)		Acres Attributed					
Field Cherry Creek					Reservoir Niobrara				42W 160  Gas Gathering Connection  Kanco Cherry Creek Gathering								
Completion Date 11/01/2006				Plug Bac 1770'	Plug Back Total Depth 1770'				Packer Set at N/A								
Casing S 4 1/2"	Casing Size Wei 4 1/2" 10.5					Diameter Set at 1790'				Perforations 1655'			то 1667'				
Tubing Si 2 3/8"				Weight 4.75#			Internal Diameter 2"			Set at 1688'		orations		То			
Type Con N2 Frac	-	n (De	escribe)			Type Flui Brine V		ction	1			nit or Traveling Pumping U		nger? Yes	/ No		
Producing Thru (Annulus / Tubing) Annulus				% C <1%	% Carbon Dioxide				% Nitrogen <1%			Gas Gravity - G <sub>g</sub>					
Vertical D	epth(l	<del>1</del> )					Р	res	sure Taps					(Meter	Run) (F	rover) Size	
Pressure	Buildu	ıp:	Shut in02	/25	2	0 <u>09</u> at 1	0:30an	n_	(AM) (PM)	Taken_02	2/26	20	09	at 11:12a	am	(AM) (PM)	
Well on L	ine:	;	Started		2	0 at			(AM) (PM)	Taken		20		at	<u></u>	(AM) (PM)	
							OBSEF	RVE	D SURFACE	E DATA			Dura	ation of Shut-	<sub>in</sub> _24	.75 Hours	
Static / Dynamic Property	nic Size		Circle one:  Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Temperature Tempe		Il Head perature t (P <sub>w</sub> ) or (P <sub>t</sub> )		Pressure	Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia			Duration (Hours)		Liquid Produced (Barrels)	
Shut-In									60								
Flow																	
<b>5</b> 1			Circle one:				FLOW	STR	EAM ATTR	IBUTES						Flowing	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or Prover Pressure psia			Press Extension P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>ft</sub>		Fa	iation ctor pv	Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Fluid Gravity G <sub>m</sub>	
						(OPEN EL	OW) /DE	1 13/1	EDADU ITV	) CALCUI	ATIONS						
(P <sub>c</sub> ) <sup>2</sup> =		<u>_:</u>	(P <sub>w</sub> )² =	=	:		JW) (DE		ERABILITY)	) CALCUL P <sub>c</sub> - 14.4) +		:			<sup>2</sup> = 0.2 <sup>2</sup> =	907	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> · (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		la v log			Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flow	 ~			:	Mcfd @ 14.	65 psia			Deliverab	ility			Mcfd	@ 14.65 psi	a		
		•	d authority, o						•		_	ne above repo October	ort an	d that he ha		ledge of 20	
								_	_		Yan	ng Pr	m	×	RI	ECEIVED	
			Witness					_			7	For	Compar	ny	00	T 1 5 200	
			For Comr	missio	n							Che	cked by		KCC	WICHIT	

I declare under penalty of perjury under the laws of the state of Kansas that I am au	
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Developme	ent Corporation
and that the foregoing pressure information and statements contained on this application	n form are true and
orrect to the best of my knowledge and belief based upon available production summarie	s and lease records
f equipment installation and/or upon type of completion or upon use being made of the gas	
I hereby request a one-year exemption from open flow testing for the Northrup 32-15	
as 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 E	=R
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 de	semed by Commission
taff as necessary to corroborate this claim for exemption from testing.	seriled by Commission
tall as necessary to comoborate this claim for exemption from testing.	
Pate: October 13, 2009	
	RECEIVE
	OCT 1 5 20
	KCC WICH
	1100 111011
Signature:	
7 1.	
Signature:  Title: Regulatory Agent	

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.