KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

RECEIVED

Type Test					(See Instruct	ions on Heve	erse Side	;)			JUL	19	
☐ Open Flow Deliverabilty						Test Date: 03/16/2010				API No. 15 023-20303 0000			JUL 19	
Company Petroleum Development Corp				1, 1,111	Lease Northrup					15-8-	Well Number 15-8-1			
County Cheyenne			Location SWSENE		Section 15		TWP 2S		RNG (E/W) 42W			Acres Attributed 160		
Field Cherry Creek					Reservoir Ni obrara				hering Connec Eureka Gathe					
Completion Date 03/29/1991					Plug Bac 1717 '	Plug Back Total Depth 1717 '		l		Packer Set at n/a				
Casing Size 4.5"			Weight 10.5#		Internal Diameter 4"		Set at 1745 '		Perforations 1633 '		то 1677	то 1677 ′		
Tubing Size 2.375"			Weight 4.75#		Internal Diameter 2"		Set at 1655 '		Perforations		То	То		
Type Completion (Describe) N2 Fracture			Type Fluid Production Brine Water				Pump Ur Yes, P	nit or Traveling F U	lunger? Yes					
Producing Thru (A			nnulus / Tubing)		% Carbon Dioxid		le		% Nitrogen <1%			Gas Gravity - G _g		
Vertical D	epth(H)				Press	sure Taps				(Meter	Run) (Prover)	Size	
	Buildup	o:	Shut in03/1	6 a	0_10_at_8	:45am	(AM) (PM)	Taken 03	3/17	20 _	10 at 10:16	am (AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20 _	at	(AM) (I	PM)	
						OBSERVE	D SURFACE	DATA			uration of Shut	-in24	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Prod (Barrels	- 1	
Shut-In							150							
Flow					·				<u> </u>					
			Circle one:			FLOW STR	ELAM ATTRIE	BUTES		<u></u>		Flo	wing	
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Meter or over Pressure psia	Press Extension P _m xh	Grav Fac F	tor T	Temperature F		viation Metered Flov actor R F _{pv} (Mcfd)		GOR (Cubic Fo Barrel	eet/ FI	luid avity 3 _m	
					(OREN EL	OW) (DELIV	ERABILITY)	CAL CIII	ATIONS					
(P) ² =			(P) ² =	:	P _d =			- 14.4) +		:) ² = 0.207) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpress Slope	Backpressure Curve Slope = "n" Assigned Standard Slope		roe	Open Flow Deliverabilit Equals R x An (Mcfd)		ility Antilog	
Open Flow Mcfd @ 14.0				.65 psia		Deliverabil	Deliverability		 M	cfd @ 14.65 ps	14.65 psia			
The	undersi	-	d authority, on						day of <u>J</u>	ne above report		as knowledge , 20 20		
			Witness (if	any)	<u></u>				·	For Cor	npany			
			For Commi	ssion			_			Checke	ed by	19.000		

JUL 1:9 2010

KCC WICHITA
I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request empt status under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
d that the foregoing pressure information and statements contained on this application form are true and
rrect to the best of my knowledge and belief based upon available production summaries and lease records
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 Northrup 15-8-1
s 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 of the control of th
te: <u>07/13/2010</u>
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.