KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

RECEIVED

Type Tes	t:				(See Instruc	ctions on Re	verse Side	e) ,			11 11	4 C 2010	
Open Flow				Test Date: API No. 15							JUL	1,5 2010		
✓ Deliverabilty					04/15/2010			023	100 K	KCC WICHIT				
Company		Deve	elopment C	orp			Lease Bande	l		=	44-1	Well Nu 9	mber	
County Cheyenne			Location NESESE		Section 19		TWP 5S			BN i (E/W) 4!W		Acres Attributed 160		
Field Cherry Creek					Reservoi Niobra					hering Conne attle Creel	ection Cathering			
Completion Date 03/13/2008					Plug Back Total Depth		oth		Packer Set at n/a					
Casing Size 4.5"			Weight 10.5#		Internal Diameter 4"			Set at 1651		Perforations 1484		то 1496 '		
Tubing S 1.5"	Tubing Size 1.5"		Weight 2.75#		Internal Diameter 1 1/16"			Set at 1478 °		Perforations		То		
Type Completion (Describe) N2 Fracture				Type Fluid Production Brine Water				Pump Un Yes, P	Plunger? Yes	/ No				
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide <1%				% Nitroge	Gas G	Gas Gravity - G _g				
Vertical D	epth(H)				Pres	ssure Taps				(Meter	Run) (Pr	over) Size	
Pressure	Build	up:	Shut in	15 2	0_10_at_8	:00am	. (AM) (PM)	Taken_04	l/16	20	10 _{at} 8:17a	m (AM) (PM)	
Well on L	ine:		Started	20	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	ED SURFAC	E DATA			Duration of Shut	-in <u>24</u>	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	t t temperature		Wellhead Pressure (P_w) or (P_l) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	1	Liquid Produced (Barrels)	
Shut-In			F-3 (***)	11101100 1120			150	psia	psig	psia				
Flow					-									
		t			_	FLOW ST	REAM ATTR	IBUTES	1		<u> </u>	 1		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{f1}	Fa	ation ctor pv	Metered Flow R (Mcfd)	GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m	
					(ODEN EL	DW) (DELIN	/ERABILITY	CALCUL	ATIONS					
(P _c) ² =		:	(P _w) ² =_	:	-)		:		0.20)7	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		<u> </u>	P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Wivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Backpressure Curve Slope = "n"		nxL	og [Antilog	Ope Deliv Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flov	A,			Mcfd @ 14.6	S5 peia		Deliverab	ility				ia		
•											· ·			
				behalf of the did report is true					day of _Ju	ıly	t and that he ha		edge of 0 <u>10 </u>	
			Witness (if	any)			_	1	wit l	CC for Co	ompany			
			For Commis				_				ced by			

JUL 1 9 2010

	KCC WICHTA
	der 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. est a one-year exemption from open flow testing for the Bandel 44-19
	ounds 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
	e to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 07/09/2010	
	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.