KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Re	verse Side)				
Open Flow					Test Date:								
✓ Deliverabilty					Test Date: 08/13/2009			API No. 15 023-20697 - 6000					
Company Petroleum Development Corp						Lease Brunswig						Well Number	
County Location Cheyenne SWSW					Section 5		TWP 2S	- (/W)	Acres Attributed 560		
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Conn PDC Eureka Gathe					
Completi 03/26/20		te		Plug Back Total Dep 1484'			n Packer Set at n/a						
Casing Size 4.5"			Weight 10.5#		Internal Diameter 4"		Set at 1507'		Perforations 1401'		то 1415'		
Tubing Size 2.375"			Weigh 4.75#		Internal Diameter 2"			Set at 1440'		rations	То	То	
Type Completion (Describe) N2 Fracture				Type Fluid Production Brine Water			Pump Unit or Traveling F Yes, PU			Plunger? Yes / No			
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide				% Nitrog	jen	Gas Gravity - G _g			
Vertical Depth(H) 1530'				Pressure Taps						(Meter F	(Meter Run) (Prover) Size		
Pressure	Buildu	ıp:	Shut in08/	13	09 at 1	0:40pm	(AM) (PM)	Taken_08	/14	20	09 at 11:12p	m (AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACI	E DATA			Duration of Shut-i	n <u>24</u> Hours	
Static / Orifice Dynamic Size Property (inches)		e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	t 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 Produced (Barrels)	
Shut-in							115	psia	paig	psia			
Flow													
						FLOW STR	EAM ATTR	IBUTES					
Plate Coeffied (F _b) (F Mofd	ient p)	Pro	Circle one: Meter or ver Pressure psia	Press Extension √ P _m xh	Grav Fac	tor	Flowing emperature Factor F _{I1}	Devia Fac F	tor	Metered Flor R (Mcfd)	W GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G_m	
(P _c) ² =		_:	(P _w) ² =	:		OW) (DELIV		CALCULA c - 14.4) +		:	(P _a) ² (P _d) ²	= 0.207 =	
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	(P _w) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slop	ssure Curve pe = "n" or signed ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo				Mcfd @ 14.	65 psia		Deliverab	ility	_		Mcfd @ 14.65 psia	<u> </u>	
		-	•	n behalf of the	Company, s		e is duly au	thorized to		e above repo	ort and that he has	s knowledge of	
the facts stated therein, and that said report is true and correct. Executed this the 19 day of August											, 20 <u>09</u> .		
			Witness (i	fany)				h	THU		Company	RECEIVED	
			For Comm	lanian .						Cha	cked by	<u>AUG 2 0 200</u>	

exempt status und and that the foregoing correct to the best of equipment instant	er penalty of perjury under the let Rule K.A.R. 82-3-304 on behaving pressure information and of my knowledge and belief bas llation and/or upon type of compest a one-year exemption from o	alf of the operator Petroleum Destatements contained on this asset upon available production solution or upon use being made	application form are true and summaries and lease records of the gas well herein named.
gas well on the gr	ounds that said well:		
_	is a coalbed methane producer is cycled on plunger lift due to is a source of natural gas for in is on vacuum at the present tim is not capable of producing at a	water jection into an oil reservoir und e; KCC approval Docket No a daily rate in excess of 250 mo ity any and all supporting docu	
Date: 08/19/2009			RECEIVED
			AUG 2 0 200
			KCC WICHI
	Signatu	re: <u>headul</u>	
	Ti	ile: Area Superior	

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.