

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

RECEIVED

Type Test					1	(See Ins	truct	ions on Re	verse Side	e)			JU	L 1 9 2010	
☐ Open Flow Deliverabilty					Test Date: API No						_	VCC	· MAIICHITA		
Company				01/20/2	01/20/2010 Lease					023-20286			Well Number		
Petrole		eve	lopment C	Corp	·			Brunsv	wig			7-6-1			
County Cheyenne			Locati SESE		Section 7				TWP RNG (E/W) 2S 41W		E/W)	Acres Attributed 160		ttributed	
Field Cherry Creek					Reservoir Niobrara				Gas Gathering Connection PDC Eureka Gathering						
Completion Date 10/30/1990				Plug Bac 1673 '	k Total	Dept	h	Packer Set at n/a							
Casing S			Weigh 10.5#		Internal Diameter			Set at 1707 '		orations	To 1550 '	то 1550 '			
Tubing Size			Weigh	Internal i	Internal Diameter			Set at		orations	То				
2.375" Type Con	noletion	ı (De	4.75#	<u></u>		2" 1545 ¹ Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No					
N2 Frac	cture		· 		Brine \	Brine Water					PU				
Producing Thru (Annulus / Tubing) Annulus				% (<1%	Carbon [Dioxid	de	% Nitrogen <1%			Gas Gravity - G _g				
Vertical D		l)			-170	ı	Press	sure Taps		-170		(Meter I	Run) (Pr	over) Size	
1747						00						40 40:40-			
Pressure	Buildu	p: -	Shut in 01/	20 2	10 at 9	:30am		(AM) (PM)	Taken_01	/21	20	10 at 10:46a	<u>am</u> (/	AM) (PM)	
Well on L	ine:		Started	2	0 at			(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSE	RVE	D SURFAC	E DATA			Duration of Shut-	in_24	Hours	
Static /	Orific		Circle one: Meter	Pressure Differential	Flowing	Well Head		Casing Wellhead Pressure		l .	Tubing ead Pressure	Duration	Liquid Produced		
Dynamic Property		Size Prover i		in in in	Temperature Temperati		ature	(P _w) or (P _t) or (P _c) psig psia		(P _w) o	or (P ₁) or (P _c)	(Hours)	(B	(Barrels)	
Shut-In				-				75	pola	poig	polu				
Flow															
l						FLOW	STR	EAM ATTR	IBUTES						
Plate			Circle one: Meter or	Press	Gra	vity		Flowing	Devi	iation	Metered Flo	w GOR		Flowing	
Coeffictient (F _b) (F _p) Mcfd		Prover Pressure psia		Extension P _m x h		Factor F _q		Factor		ctor :	R (Mcfd)	(Cubic Fe Barrel)	et/	Fluid Gravity	
						•		F,,					G _m		
					(ODEN EL	OW) (DE	- 1 13/1	ED A DIL ITY) CALCUI	ATIONS					
(P _c) ² =		:	(P) ² =	:	•	OW) (DE	ا LIV	ERABILITY 6 (F) CALCUL. P _c - 14.4) +		:	(P _a) [;]	² = 0.20 ² =	17	
/D \2 - /E	- \2) \2_ (P \2	Choose formula 1 or 2		Γ	7	Backpre	ssure Curve	· · I · · · ·	<u></u> _			en Flow	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		2. P _c ² -P _d ²	formula 1. or 2.	formula 1. or 2.		Slope = "n" or Assigned		n x LOG		Antilog	1	Deliverability Equals R x Antilog	
(P _c) (r	۵,-			divided by: P _c ² -P _w	and divide by:	P.º - P.	v ²		ard Siope		L		(1)	Mcfd)	
Open Flor	N			Mcfd @ 14.	65 psia			Deliverab	oility			Mcfd @ 14.65 psi	а		
		•	•	n behalf of the				•	2	day of <u>J</u>	luly	ort and that he ha		_	
			Witness (i	f anv)				_	Sil	stu	L/ Fort	Company			
-	· · · · · · · · · · · · · · · · · · ·		For Comm			· · · · · · · · · · · · · · · · · · ·	_	-				cked by		· · · · · · · · · · · · · · · · · · ·	
			For Comm	noolUl1							une	cheu by			

KCC WICHITA

l declare ui	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status u	inder Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
	regoing pressure information and statements contained on this application form are true and
correct to the be	est of my knowledge and belief based upon available production summaries and lease records
• •	stallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby red	quest a one-year exemption from open flow testing for the Brunswig 7-6-1
gas well on the	grounds that said well:
(Che	ck one)
	is a coalbed methane producer
Γ	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
V	is not capable of producing at a daily rate in excess of 250 mcf/D
16.0	
	ree to supply to the best of my ability any and all supporting documents deemed by Commission
statt as necess	ary to corroborate this claim for exemption from testing.
07/10/20	10
Date: 07/12/20	10
	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.