•

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				_	(See Instruct	tions on Re	verse Side	e)					
	en Flow liverabil				Test Date 08/17/20					No. 15 3-20703 06	22			
Company		elor	nment Corp		00/17/20		Lease Feikert	· · · · · · · · · · · · · · · · · · ·	\ 020	20100 00		Well Nu	mber	
Petroleum Development Corp County Location Cheyenne SESE			n	Section 7			TWP RNG (E/W) 2S 41W			Acres Attributed				
Field Cherry C			0202		Reservoir Niobrara				Gas Ga	thering Connurel	ection			
Completic 12/13/20	on Date)				k Total Dept	ih		Packer S					
Casing Size Weight 4.5" Weight				Internal Diameter 4"			Set at Perfo 1623' 148		orations To 149		 94'			
Tubing Si	ize		Weight 4.75#						То					
Type Con N2 Frac		(De	escribe)		Type Flui Brine V	d Production Vater	1		Pump Ui Yes, F	nit or Traveling	Plunger? Yes	/ No	417,-44	
Producing Annulus	ducing Thru (Annulus / Tubing) % Carbon Dioxid				de	% Nitrogen <1%			Gas Gravity - G _g					
Vertical D)				Pres	sure Taps				(Meter F	Run) (Pr	over) Size	
Pressure	Buildup): {	Shut in08/1	7 2	0 09 at 1	0:28am	(AM) (PM)	Taken_08	3/18	20	09 at 10:55a	<u>m</u> (AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	n24	Hours	
Static / Dynamic Property	Orific Size (inche	.	Circle one: Meter Prover Pressul psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead							
Shut-in			-				105	· · · · · · · · · · · · · · · · · · ·						
Flow														
						FLOW STR	EAM ATTR	RIBUTES						
Plate Coefficient (F _b) (F _p) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension	Facioi		Flowing Femperature Factor F _{II}	Fa	iation ctor _{pv}	Metered Flor R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P) ² =	;	(OPEN FLO	OW) (DELIV		') CALCUL P _c - 14.4) +		:	(P _a) ² (P _d) ²	= 0.2	07	
(P _c) ² - (I or (P _c) ² - (I		(P	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Iivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpre Slo	essure Curve pe = "n" - or ssigned dard Slope	•	LOG	Antilog	Op Deli Equals	pen Flow iverability is R x Antilog (Mcfd)	
												_		
Open Flo				Mcfd @ 14.		states that b	Deliverat		o maka ti	no obovo ropo	Mcfd @ 14.65 psi ort and that he ha		lodge of	
			-	benair or the id report is true					day of A		ort and that he ha		20 <u>09</u> .	
			Witness (if	any)			-	hī	, Hu		Company	ECE	IVED	
			For Commi				-					iG 2	n 2009	

I declare under penalty of perjury under the laws exempt status under Rule K.A.R. 82-3-304 on behalf of t	of the state of Kansas that I am authorized to request the operator. Petroleum Development Corp						
	ments contained on this application form are true and						
	oon available production summaries and lease records						
	or upon use being made of the gas well herein named.						
I hereby request a one-year exemption from open fl	ow testing for the						
as well on the grounds that said well:							
(Check one)							
is a coalbed methane producer							
is cycled on plunger lift due to water	r						
is a source of natural gas for injection	is a source of natural gas for injection into an oil reservoir undergoing ER						
is on vacuum at the present time; KC							
is not capable of producing at a dail	y rate in excess of 250 mcf/D						
I further agree to supply to the best of my ability ar	y and all supporting documents deemed by Commissio						
taff as necessary to corroborate this claim for exempt	ion from testing.						
pate: 08/19/2009	PECENTED.						
dic.	RECEIVED						
	AUG 2 ~ 2009						
	KCC WICHITA						
Signature: _	Accol Uy Brea Supervisor						
Title:	Area Suservisor						

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.