KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	ctions on Re	verse Side)				
Op	en Flo	w									~		
√ De	liverab	ilty			Test Date 04/05/2				AP 02	1 No. 15 3-20294 —	0000		
Company Petrole		eve	elopment (Corp			Lease Bamm e	es			8-2-1	Well Nu	mber
County Cheyenne		Location SWNWNE		Section 8		TWP 2S		RNG (E/W) 41W		Acres Attribute 160		ttributed	
Field Cherry	Cree	k			Reservoir Niobrai					thering Conn Eureka Gat			
Completic 12/18/1		e			Plug Bac 1633'	k Total Dep	oth		Packer :	Set at			
Casing S 4.5"			Weig		Internal Diameter		Set at 1670'		Perforations 1500'		то 1534'		
Tubing Size 2.375"			Weig	ht	Internal Diar				Perforations		То		
Type Con N2 Frac	•	n (De				d Productio		•	Pump U Yes, F	nit or Traveling	Plunger? Yes	/ No	
Producing	Thru	(Anı	nulus / Tubin	g)	% C	arbon Diox	ride		% Nitrog		Gas Gr	avity - C	 3 _g
Annulus Vertical D		i\			<1%	Pro	ssure Taps		<1%		/Motor I	\ /D.	ound Cian
1747'	epui(r					Fies	ssure raps				(ivieter i	iun) (Pi	over) Size
Pressure	Buildu	p:	Shut in _03	/07 2	0 11 at 9	:15am	_ (AM) (PM)	Taken_03	3/08	20	11 _{at} 9:15an	<u>n</u> (AM) (PM)
Well on L	ine:				0 at	***************************************	(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVI	ED SURFACI	E DATA			Duration of Shut-	_{in_} 24	Hours
Static / Dynamic	Orifi Siz		Circle one: Meter Prover Press	Pressure Differential ure in	Flowing Temperature	Well Head Temperature	Cas Wellhead	Pressure	Weilhe	Tubing ead Pressure	Duration (House)	1 '	d Produced
Property	(inch	es)	psig (Pm)	Inches H ₂ 0	t	t	(P _w) or (P	psia	(P _w) o	psia	(Hours)	,,,	Barrels)
Shut-In							195						
Flow					,								
				7	··· T	FLOW STI	REAM ATTR	IBUTES					
Plate Coeffieci (F _b) (F Mcfd	ient _p)	Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fact F _g	tor	Flowing Temperature Factor F _{ft}	Fa	ation ctor	Metered Flov R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
(P _c) ² =		_:	(P _w) ² =	· · · · · · · · · · · · · · · · · · ·	•		/ERABILITY % (F) CALCUL ² c - 14.4) +		:	(P _a) ² (P _d) ²	? = 0.20 ? =	07
(P _c) ² - (F or (P _c) ² - (F	P _e) 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 divided by: P _c ² - P _a ²	LOG of formula		Backpre: Slop	ssure Curve pe = "n" or signed	1	ГЛ	Antilog	Op Deli	en Flow verability R x Antilog
. 6,	a'			divided by: P _c ² - P _w ²	by:	P _c ² -P _w ²		ard Slope		L J		(Mcfd)
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a	
The u	undersi	ignec	authority, o	n behalf of the	Company, s	tates that h	he is duly au			•	rt and that he ha		_
the facts si	tated th	nerei	n, and that s	aid report is true	and correct	t. Executed	this the 12		day of <u>J</u>		pr	CEIV	20 <u>11</u> .
			Witness	if any)	***************************************			- G		She		1 .	
			For Comr	nission			-				AU cked by	J U Z	2011
											•	WIC	CHITA

Part of	
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I decla	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request						
	itus under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp						
	ne foregoing pressure information and statements contained on this application form are true and						
correct to t	he best of my knowledge and belief based upon available production summaries and lease records						
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.						
l hereb	by request a one-year exemption from open flow testing for the Bammes 8-2-1						
gas well or	n the grounds that said well:						
	(Observe and Control of the Control						
	(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 furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commission						
staff as ne	cessary to corroborate this claim for exemption from testing.						
	•						
Date: 07/1	2/2011						
•							
	Signature:						
	Title: _Sr. Engineering Tech						

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.

AUG 0 2 2011

KCC WICHITA