KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2 (Rev. 7/03) RECEIVED JUL 1 9 2010

Type Test	t:				(See Inst	tructi	ons on Rev	erse Side)				JL	ידר ו'ָאַ אַר	
Open Flow				Test Date:					API No. 15				KCC WICH			
✓ Deliverabilty			02/24/2010					023-20288				NOC VICE				
Company Petrole:		evel	opment Cor	ъ				Lease Emma	Raile				12-11	Well Nu -1	mber	
County Location Cheyenne NENESW			Section 12					RNG (E	/W)	Acres Attributed 160						
Cheyenne NENESW Field				Reservoir				Gas Gathering Connection								
Cherry Creek				Niobrara				PDC Eureka Gathering								
Completion Date 11/01/1990			Plug Bac 1643	Plug Back Total Depth 1643				Packer : n/a								
Casing Size 4.5"			Weight 10.5#	Internal Diameter 4"			Set at 1695		Perfo 155	orations 4	то 1588 ¹					
Tubing Size			Weight		Internal Diameter			Set at 1612 '		Perfo	orations	То				
.375" /pe Con	nnlation	/Da	4.75#		2" Type Flui	d Produ	ction			Pump II	nit or Traveling	Pluna	er? Yes	/ No		
2 Frac		(De	scribe)		Brine \		CHOIT			Yes, F		, , ,u.,g	ov. 100			
Producing Thru (Annulus / Tubing)				<u>,,, </u>		arbon D	ioxic	le	% Nitrogen				Gas Gravity - G _g			
Annulus Vertical Depth(H)				<1%	<1% Pressure Taps				<1% (Meter Run) (Prover) S				rover) Size			
744 1	epin(H)				r	1622	ure raps					(IVICTOT I	rian, (i	0001) 0.20	
	Buildu	o: 8	Shut in 02/24	. 2	0_10_at_8	:00am		(AM) (PM)	Taken 02	2/25	20	10 a	8:20ar	n ((AM) (PM)	
ell on L		9	Started	20											(AM) (PM)	
						•								24		
			Circle one:	Pressure				O SURFACE Casi			Tubing	Durati	on of Shut-	<u> </u>	Hours	
Static / Orifice Dynamic Size Property (inches		•	Meter Prover Pressure	Differential in	Flowing Temperature	Well Head Temperature t		Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)			Liquid Produced (Barrels)	
		es)	psig (Pm)	Inches H ₂ 0	t					psig						
Shut-In								150								
Flow																
	······ -					FLOW	STR	EAM ATTRI	BUTES		1				1	
Plate Coefficeient (F _b) (F _p) Mcfd			Circle one: Meter or	Press Extension	Grav	- 1 т		omporatura		viation Metered Flow		1			Flowing Fluid	
			ver Pressure	✓ P _m xh	Fac F			Factor		ctor			(Cubic Fe Barrel)		Gravity	
			psia	m		4		F _{tt}						G _m		
					(ODEN EL	011/2 (D.5	-1 1\/1	ERABILITY)	CALCUI	ATIONS		<u> </u>	11900			
) ² =			(P _w) ² =	į					្ត - 14.4) +		:			$r^2 = 0.2$	07	
			Cho	oose formula 1 or 2:		Г	_	T	sure Curve		ГЛ		- 0.		oen Flow	
(P _c) ² - (I	P _a) ²	(P _c) ² - (P _w) ²		1. P _c ² -P _a ²	LOG of formula			Slope = "n"		n x LOG		Antilog		Deliverability		
or $(P_c)^2 - (P_d)^2$			2. P _c ² - P _d ² divided by: P _c ² - P _w ²		1. or 2. and divide P2-P2 by:			Assigned Standard Slope						Equals R x Antilog (Mcfd)		
			ann	aea by: F _c - F _w		<u> </u>										
					 		_									
Open Flow Mcfd @ 14.65				65 psia	5 psia De			Deliverability		Mcfd @ 14.				.65 psia		
		anad	authority, on b		<u> </u>	etatoe th	at h		-	o maka t	he above reno	ort and	that he he	as know	riedge of	
		-	n, and that said													
14013 5	naiou II	,U1 0 11	i, and that salu	. opon is tide		L XCO								,		
<u> </u>			Witness (if an	ny)			_	_		ATT	Pall For	Company				
							_	_								
			For Commissi	ion							Che	cked by				

JUL 1 9 2010

KCC WICHITA

	NGC WIGHTA
	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	ler Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
and that the fore	oing pressure information and statements contained on this application form are true and
correct to the bes	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 Emma Raile 12-11-1
	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 Commissic to corroborate this claim for exemption from testing.
Date: 07/12/2010	
Jale. <u>- 017 12/2010</u>	
	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.