## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	(See Instruct	tions on Re	verse Side	e)				
Op	en Flo	ow			T . D .				4.51		- (2)		
✓ Deliverabilty				Test Date: 02/22/2011			API No. 15 023-20288 —						
Company Petroleum Development Corp				CLILLIL	Lease Emma Raile			020	12-1	Well Number 12-11-1			
County Cheyenne			Location NENESW		Section 12			TWP 2S		RNG (E/W) 42W		Acres Attributed 160	
Field Cherry Creek			•	Reservoi Niobra		· · · · · · · · · · · · · · · · · · ·			nering Conne Jureka Gatl		1		
Completion Date 11/01/1990					Plug Bac 1643'	Plug Back Total Depth		Packer Set at n/a		et at			
Casing Size 4.5"			Weigl 10.5#		Internal I	Internal Diameter 4"		Set at 1695'		rations 1'	то 1588'		
	Tubing Size		Weig!	nt	Internal E		ameter Set at		Perforations		То		
Type Con						id Production			Pump Un Yes, P		Plunger? Yes	/ No	
Producing Thru (A			nulus / Tubin	g)	% (	Carbon Dioxi	de		% Nitrogen		Gas G	Gas Gravity - G <sub>g</sub>	
Annulus Vertical C	_	ш\		-	<1%	<1% Pressure Ta			<1%		(Meter Run) (Prover) Size		
1744'	epanti	Π)				Pres	sure raps				(Meter	Hun) (P	rover) Size
	Buildu	1b:	Shut in 02/	22	20 11 at 8	:47am	(AM) (PM)	Taken_0	2/23	20	11 <sub>at</sub> 8:54a	m	(AM) (PM)
Well on L	ine:		Started		20 at		(AM) (PM)	Taken		20	at		(AM) (PM)
			· 10-10-			OBSERVE	D SURFAC	E DATA			Duration of Shu	24	Hours
Static / Dynamic Property	namic Size		Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	lemperature lemperatur		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		l '		d Produced Barrels)
Shut-In	t-in		pag(m)	manos rigo			157	psia	psig	psia			
Flow						<u> </u>							
		,		···		FLOW STR	EAM ATTR	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or ever Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Extension Fac		Flowing Femperature Factor F <sub>II</sub>	mperature Fact		Metered Flow R (Mcfd)	y GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
(D )2 _			/D \2 -		•	OW) (DELIV		-				) <sup>2</sup> = 0.2	07
(P <sub>e</sub> ) <sup>2</sup> =		<del>-</del>	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or	$P_d = {2:}$	<del></del> ;	1	- 14.4) +		<del></del> :	(P <sub>d</sub>	) <sup>2</sup> =	<del></del>
(P <sub>e</sub> ) <sup>2</sup> - (P <sub>4</sub> ) <sup>2</sup>		(P <sub>a</sub> ) <sup>2</sup> · (P <sub>*</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	LOG of formula		Backpressure Curve Slope = "n"		n x LOG		Open Flo Antilog Deliverabi		
(P <sub>e</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup>				2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>d</sub> <sup>2</sup> - P <sub>d</sub>	1, or 2. and divide by:	be-be	Assigned Standard Slope					Equals R x Antilog (Mcfd)	
				·									
Open Flow		<u> </u>	Mcfd @ 14.6		.65 psia	I 5 psia		Deliverability		Mete		 d <b>@</b> 14.65 psia	
		ioner	l authority o		•	etatae that h		<u>:</u>	a maka th		rt and that he h		lodge of
		_	-	aid report is tru			•		day of Ju		it and that he h		20 <u>11</u> .
								1	M	ale			
			Witness (	f any)				77		For C	ompany	R	ECEIVE
			For Comm	nission			_		·	Chec	ked by	A	UG 0 2 2

	leclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request						
exemp	ot status under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp						
and th	at the foregoing pressure information and statements contained on this application form are true and						
correc	t to the best of my knowledge and belief based upon available production summaries and lease records						
	ipment installation and/or upon type of completion or upon use being made of the gas well herein named.						
۱r	ereby request a one-year exemption from open flow testing for the Emma Raile 12-11-1						
gas w	ell on the grounds that said well:						
	(Charle and						
	(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						
l f	urther agree to supply to the best of my ability any and all supporting documents deemed by Commissic						
staff a	s necessary to corroborate this claim for exemption from testing.						
Date: _	07/12/2011						
	Signature:						
	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.

RECEIVED

AUG 0 2 2011

KCC WICHITA