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

Type Test	t:			(	See Instruc	tions on Re	verse Side	)				
Op	en Flow			Test Date				A DI	No. 45			
✓ Deliverabilty			03/08/2012				API No. 15 023-20734					
Company		velopment C	Corp			Lease Klie-Fe	ikert			11-8	Well Number	
County Cheyer	nne		Location NENWNW		Section 8		TWP 2S		W)	Acres Attributed 160		
Field Cherry Creek					Reservoir Niobrara			Gas Gathering Co PDC Eureka G				
Completion 12/13/2			Plug Back To 1559'			,		Packer S n/a	Set at			
Casing Size 4.5"		-	Weight 10.5#		Diameter	Set at 1582'		Perforations 1414'		To 1424'		
Tubing Size 2.375"		•	Weight 4.75#		Internal Diameter 2"		Set at 1443'		rations	То		
Type Completion (Describe) N2 Fracture				Type Fluid Brine V	n	Pump Unit or Travelii Yes, PU			g Plunger? Yes / No			
Producing Annulus		Annulus / Tubin	g)	% Carbon Dioxid				% Nitrogen <1%		Gas Gravity - G <sub>o</sub>		
Vertical C	epth(H)				Pres	sure Taps				(Meter	Run) (Prover) Size	
Pressure	Buildup:	Shut in 03/	08 20	12 at 8:	:20am	(AM) (PM)	Taken_03	3/29	20	12 at 8:25ar	m (AM) (PM)	
Well on L	ine;	Started	20	) at		(AM) (PM)	Taken		20	at	(AM) (PM)	
			·		OBSERVE	D SURFACI		1		Duration of Shut	-in 24 Hous	
Static / Dynamic Property	Orifice Size (inches	Meter Prover Pressi	Meter Differential .		Flowing Well Head Temperature t t		Gasing Wellhead Pressure (P <sub>v</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		ubing ad Pressure (P <sub>r</sub> ) or (P <sub>p</sub> )	Duration (Hours)	Liquid Produced (Barrels)	
Shut-in		, , ,	•			175	psia	poig	psia			
Flow	· · · ·											
	-		1	<del></del>	FLOW STR	EAM ATTR	IBUTES	ı		<del></del>	<del></del>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or  Prover Pressure psia  Press Extension  Pmxh		Gravity Factor F		Flowing Temperature Factor F <sub>tt</sub>	nperature Factor		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	eet/ Fluid	
P <sub>e</sub> )2 =		: (P <sub>w</sub> ) <sup>2</sup> =		(OPEN FLO		ERABILITY % (F	) CALCUL 2 - 14,4) +			(P <sub>a</sub> ) (P <sub>d</sub> )	) <sup>2</sup> = 0.207	
(P <sub>e</sub> ) <sup>2</sup> · (F	•	(P <sub>c</sub> ) <sup>2</sup> · (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. P <sub>2</sub> - P <sub>2</sub> 2. P <sub>2</sub> - P <sub>2</sub> divided by P <sub>2</sub> - P <sub>2</sub>	rmich 1 or 2:  2 - P 2     LOG of formula 2 - P 2     d and divide		Backpressure Curve Slope = 'n' or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow			65 psia	5 osia		Deliverability			McId @ 14.65 ps			
· ·												
		ned authority, or rein, and that sa					_	o make th day of A	e above repor	rt and that he ha	as knowledge of 20 12	
						_		Ju	dith	Pr	u BECF1	
		Witness (i	teny)					0		ompony	APR 24	
		For Corner	rission			_		• •	Chec	kod by	<del></del>	

	inder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp
and that the fo correct to the b of equipment in I hereby re	pregoing pressure information and statements contained on this application form are true and pest of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. In the quest a one-year exemption from open flow testing for the Klie-Feikert 11-8 agrounds that said well:
I further ag	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  gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
Date: <u>04/17/20</u>	)12
	Signature:

## 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.