KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Rev	erse Side)				
Open Flow					T1 D-4	Test Date: API No. 15							
i Ci Dolivorohittu					03/07/2012				023-20720 - 00 · 00				
Company Petroleum Development Corp						Lease Bammes				Well Number 34-8			
County Location Cheyenne SWSWSE				Section 8		TWP 2S			RNG (E/W) 41W		Acres Attributed 160		
					Reservoir Niobrara			Gas Gathering Connection PDC Eureka Gathering					
				Plug Bac 1611'	Plug Back Total Depth 1611'			Packer Set at n/a					
Casing Size Weight 4.5" 10.5#			Internal (4"	Diameter	Set at 1627'		Perfor 1470	rations 5'	то 1486'				
Tubing Size 2.375"			Weight 4.75#		Internal E 2"	Internal Diameter 2"		Set at 1496'		rations	То	То	
Type Con N2 Frac		n (D	escribe)		Type Flui Brine \	d Production Vater	n		Pump Ur Yes, P	it or Traveling U	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrog	en	Gas Gr	Gas Gravity - G		
Annulus Vertical Depth(H)				<1%	<1%				<1%				
1639'	eptn(i	-1} 				Pres	sure Taps				(Meter i	Run) (Prover) Size	
Pressure	Buildu	ıp:	Shut in	07 2	0_12_at_1	1:30am	(AM) (PM)	Taken_03	3/08	20	12 at 11:35a	em (AM) (PM)	
Well on L	ine:		Started	5	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 24 Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature Temperature t t		(P _w) or (P ₁) or (P _c)		Tubing Welthead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			haid (Lin)	Inches Fi ₂ 0			psig 110	psia	psig	psia			
Flow													
			' ,			FLOW STR	REAM ATTRI	BUTES	1				
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh	Grav Fac F	tor	Flowing Temperature Factor F _{It}	Deviation Factor F _{ov}		Metered Flow R (Mcfd)	(GOR (Cubic Fe Barrel)	Growity	
(P _c) ² =		_:	(P _w)² =	·:	(OPEN FL		ERABILITY) % (P	CALCUL. - 14.4) +		:	(P _a) [;] (P _d)	2 = 0.207 2 =	
$(P_o)^2 - (P_a)^2$ or $(P_e)^2 - (P_d)^2$		(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 _w ²	formula 1 or 2: P 2 - P 2 LOG of formula 1 or 2. 1 for 2. and divide		Backpress Slope P _c ² -P _w ² Standar		nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.65 psia							Deliverability Mcfd @ 14.65 psia						
The t	unders	igned	d authority, o	n behalf of the	Company, s	tates that h	e is duly au	thorized to	o make th	e above repo	rt and that he ha	s knowledge of	
the facts st	tated t	herei	in, and that s	aid report is true	and correc	t. Executed	this the 17	·	day of A	oril	7.	. 20 12	
			Witness (il anv)			_	\longrightarrow	ludi	The U	Leute	DECENTER	
							_	0				RECEIVED	
			For Comm	NS\$10f1						Chec	ked by	APR 2 4 2012	

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the Bammes 34-8
gas well on the grounds that said well:
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 further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 04/17/2012 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.