Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Open Flow Test Date: 12-10-15					API No. 15 - 175 - 20,573 - 0000							
Company H & C OPERATING CO.			12 10 1	<u> </u>	Lease LOFFL/	Lease LOFFLAND			1-17	Well N	nmper	
County Location SEWARD C NW			Section 17		TWP 35S	TWP 35S		RNG (E/W) 31W			Attributed	
ield			Reservoir			,	Gas Gathering Connec		ection	RECEIVED		
Completion Date 12-23-82			Plug Back Total Depth				Packer Set at 5454			DEC	22 200	
Casing Size	ng Size Weight 15.5			Diameter		Set at 5320		Perforations 5536		REC	Elva	
Tubing Size 2 1/16	Weight 2.9	Internal D	Diameter	Set a 545	at	Perforations		То	_	¢D		
Type Completion SINGLE GAS	rpe Completion (Describe)			Type Fluid Production NONE			Pump Unit or Traveling Plunger? ` NO			/ No		
Producing Thru (Annulus / Tubing) TUBING			% Carbon Dioxide				······································			Gravity - G _g		
Vertical Depth(H) 5551	551			Pressure Taps FLANGE			(Meter Run) (Prover) 3.068"			rover) Size		
Pressure Buildup	: Shut in 12-9	9-15 20	at _10	000	(AM) (PM)	Taken_12	2-10-15	20	_{at} _1000		(AM) (PM)	
Well on Line: Started 20) at (A		(AM) (PM)	AM) (PM) Taken		20			(AM) (PM)	
				OBSER	VED SURFAC	E DATA			Duration of Shu	t-in 24	.0Flour	
Dynamic Size	amic Size Meter Differential Prover Pressure in		Flowing Well Head Temperature		d Wellhead	Casing Wellhead Pressure (P_w) or (P_l) or (P_c)		bing d Pressure P ₁) or (P _c)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	psig (Pm)	Inches H ₂ 0			psig	psia	98ig 333.1	95ia 347.5	<u> </u>			
Flow		,									· · · · · · · · · · · · · · · · · · ·	
		annama manananan merida aka		FLOW S	TREAM ATTR	IBUTES						
Plate Coefficient (F _b) (F _p) Mcfd	pefficcient Meter or Extension (F _p) (F _p) Prover Pressure		Gravity Factor F _g		Flowing Temperature Factor F _{rt}	Temperature Fa		viation Metered Flov actor R F _{pv} (Mcfd)		 eet/) 	Flowing Fluid Gravity G _e	
			OPEN FLO	OW) (DEL	IVERABILITY	CALCUL	ATIONS		(P.) ² = 0.7	207	
P _c) ² =		Choose formula 1 or 2*	P _d =		% (F	c - 14,4) +	14.4 =)² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P _c) ² - (P _w) ²	P_{c}) ² - $(P_{w}$) ² $1. P_{c}^{2} - P_{d}^{2}$ $2. P_{c}^{2} - P_{d}^{2}$ divided by: $P_{c}^{2} - P_{w}^{2}$		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x 106		De Equal	Open Flow Deliverability Equals R x Antilog (Mefd)	
Open Flow	en Flow Mcfd @ 14.65 psia				Deliverab	Deliverability McI			Mcfd @ 14.65 p	 cfd @ 14.65 psia		
	ned authority, on							above repo	ort and that he h	as knov	vledge of 20 <u>15</u> .	
CO	PY TO KCC Witness (if				· -	PREC	CISION	WIRELIN For (E AND TEST	'ING		
For Commission						MARK BROCK Checked by						

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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 $\underline{H} \& C O$ PERATING CO. 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 LOFFLAND 1-17 gas well on the grounds 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
\checkmark	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: 12-21-15

Signature: MANUS KANNSEY

Title: PRESIDENT

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.