KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruct	tions on Re	overse Side)					
Op	en Flo	w													
De	liverab	lity	·- ·- ·- ·			Test Date 10-108): k11-2011				No. 15 025-0012	5-00-00			
Company HERMAN L. LOEB, LLC.				Lease BROADIE				#1			Well Number				
County Location CLARK C SW SW NE				Section 28		TWP 33S		RNG (E/W) 22W			Acres Attributed				
Field			Reservoir MORROW-CHESTER				Gas Gathering Connection DUKE								
Completion Date 4-13-62				Plug Back Total Depth 5420				Packer Set at NONE			•				
Casing Size Weight					Internal (Diameter	Set at 5503		Perforations		то 5420				
4.000 11.00 Tubing Size Weight					3.476 Internal E	Diameter	Set at		5348 Perforations		To		 _		
NA Type Con		n (De	escribe)		-	• •	d Production	n				Plunger? Ye	s / No		
SINGLE Producing Thru (Annulus / Tubing)				GAS,WATER % Carbon Dioxide				FLOWI % Nitroge	Gas	Gas Gravity - G					
CASING Vertical D	_	· .					Dece								
5378	epuitr	•					Pres	sure Taps				(MB16	er Hun) (F	Prover) Size	
Pressure	Buildu	p:	Shut In 10	-10-1	12	D a1		(AM) (PM)	Taken 10)-11-11	20	at		(AM) (PM)	
Well on L	lne:		Started		20	at		(AM) (PM)	Taken		20	at		(AM) (PM)	
			······				OBSERVE	D SURFAC	E DATA		·	Duration of Sh	_{ut-in} _24	Hours	
Static / Orifice Dynamic Size Property (inches)		e	Meter Prover Pressure		ressure fferential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P ₆)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
		psig (Pm)		Inc	hea H ₂ 0			psig 40	psia	psig	psla	24			
Flow				+								24	-		
							FLOW STR	EAM ATTR	RIBUTES	l	<u> </u>		ļ		
Plate Coefflecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		E	Press Grav Extension Fact Pmxh F		tor Temperature		Deviation Factor F _{pv}		Metered Flov R (Mcfd)	(Cubic	GOR (Cubic Feet/ Barrel)		
/D \2 -			(P _w) ² =	.l		-	OW) (DELIV		-) ² = 0.2	207	
$(P_{q})^{2} = {(P_{q})^{2} \cdot (P_{a})^{2}}$ or $(P_{a})^{2} \cdot (P_{q})^{2}$		(P _a) ² - (P _a) ²		Choose formula 1 or 2: 1. P _a ² - P _a ² 2. P _a ² - P _a ² divided by: P _a ² - P _a ²		P _d = LOG of formula 1. or 2, and divide by:	P. 2 - P. 2	Backpressure Slope =		14.4 =	xe []	Antilog	De Equal	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					/- ' a ' w										
Open Flor	<u> </u> w			Mo	fd @ 14.6	55 psia		Deliverat	oility			Mcfd @ 14.65	osia		
The u	undersi	igned	authority, o	n beha	ulf of the	Company, s	tates that h	e is duly a	uthorized to	o make the		rt and that he		vledge of	
the facts st	tated ti	herei	n, and that s	ald rep	ort is true	and correc	t. Executed	this the <u>1</u>	2TH	day of Oc	tober	V DI		20 11	
		•	Witness ((if eny)				•		Tille	Ford	Company	RF	CEIVED	
			For Corn	nission				-			Chec	ked by			
													UU	1 3 201	

KCC WICHITA

exempt status un and that the fore correct to the bes	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator HERMAN L. LOEB, LLC. going pressure information and statements contained on this application form are true and t 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 BROADIE #1						
gas well on the g	rounds that said well:						
(Check	one) is a coalbed methane producer						
	is cycled on plunger lift due to water						
ī	is a source of natural gas for injection into an oil reservoir undergoing ER						
\Box	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 agre	e to supply to the best of my ability any and all supporting documents deemed by Commission						
staff as necessar	y to corroborate this claim for exemption from testing.						
Date: 10-12-11							
	Signature: Leshi H. Oldhan						
	Title: REP. HERMAN L. LOEB LLC.						

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.