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

Type Test	:	: ' ''		· · · · · (	See Instructi	ions on Re	verse Side,				
=	en Flow :		• • • • • • • • • • • • • • • • • • • •	: Test Date	, ):			APIN	lo. 15		
Del	liverabilty			12/29 &		· · · · ·	·.		71-20185-0	00-00	
Company HERMAI			· · · · · · · · · · · · · · · · · · ·			Lease BARNH	IARDT		:	2-1	Well Number
County SCOTT		Locat C SE	on .	Section 2		TWP 20S		RNG (E/M 33W	/)		Acres Attributed
Field HUGOT(	ON NOF	RTH		Reservoir KRIDEF	-				ering Conn		:
Completic 1/19/198				Plug Bac 2653	k Total Dept	h ·		Packer Se NONE	t at		_
Casing Si 4.500	ize	Weigh 9.500		Internal I 4.090	Diameter	Set :		Perfora 2641	tions	то 2645	,,,,
Tubing Si 2.375	ze	Weigh 4.700		Internal I	Diameter	Set : 262	•	Perfora OPEI		То	
Type Com		<u> </u>	· :	Type Flui	d Production			Pump Unit		Plunger? Yes	/ No
	Thru (A	nnulus / Tubin			arbon Dioxid	de		% Nitroge	n ,	Gas Gi	avity - G <sub>g</sub>
Vertical D		· · · · · · · · · · · · · · · · · · ·			Press	sure Taps				(Meter	Run) (Prover) Size
		12/	29	15				/30		15 at:	· · · · · · · · · · · · · · · · · · ·
		Shut in 12/					:	· · · · · · · · · · · · · · · · · · ·			(AM) (PM)
Well on Li	ine:	Started	2	0 at		(AM) (PM)	Taken	<del>-:</del>	•	at	(AM) (PM)
•	:				OBȘERVE	D SURFAC	E DATA ;	;		Duration of Shut	inHours
Static / Dynamic	Orifice Size	Circle one: Meter	Differential	Flowing Temperature	Well Head Temperature	Wellhead	sing Pressure	Wellhead	bing I Pressure	Duration	Liquid Produced
Property	(inches)	Prover Pressi psig. (Pm)	ire in Inches H <sub>2</sub> 0	i t	' 't	(P <sub>w</sub> ) or (I	psia	(P <sub>w</sub> ) or (	P <sub>t</sub> ) or (P <sub>c</sub> ) .psia	(Hours)	(Barrels)
Shut-In					;	74 ·		· 		24 :	-
Flow.	:			, :	·		:.	<u> </u>	<u> </u>	1,	
_ :	`~ <u>`</u> ;		<u> </u>	· , <del></del>	FLOW STR	EAM ATTR	IBUTES:		:	· <u>·</u> · · ·	
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient <sub>p</sub> ) · F	Circle one: Meter or Prover Pressure psia	Press Extension	Grav Fac	tor T	Flowing emperature Factor F <sub>II</sub>	Fac	ation : ctor	Metered Floy R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity
				1.	-	•		.,			:
	· · ·	·		(OPEN FLI	OW) (DELIV	FRARILITY	Y CALCUL	ATIONS	•		······································
(P <sub>c</sub> ) <sup>2</sup> =	:	:(P <sub>w</sub> )² =	. ** . ** <u> </u>  :	P <sub>a</sub> =			, - 14.4) +		· :	· · · · (P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	_	(P <sub>c</sub> )² - (P <sub>w</sub> )²	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula	D2 D2	. Ślo	ssure Curve pe = "n" - or signed	n x L(	og [	Antilog	Open Flow Deliverability Equals R x Antilog
	a'		divided by: Pc2 - Pw	by.	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		lard Slope		<u>,                                    </u>		(Mcfd)
:.											
		•.	it tut Heriotopia		<u> </u>	<u> </u>		<u> </u>	<u>,</u>	N. (1.0 1 i 05	
Open Flor		•	Mcfd @ 14.	<del></del>		Deliveral		<del>:</del> .	:	Mcfd @ 14.65 ps	
• • •					,		·*,			ort and that he ha	15
the facts s	tated the	rein, and that s	aid report is true	and correc			151 .	day of DE	CEMBER		, 20
		•		KANSA	Receiv s corporatio	ed IN COMMISSIO	N. C.	ple			· · · · · · · · · · · · · · · · · · ·
		Witness	if any).		JAN 04		,	: <u>.</u>	For	Company	· · ·
:		For Comr	nission	. co	NSERVATION	DIVISION		:	Che	cked by	-
: .		•			WICHITA,	KS		-		• • • •	• .

•	
	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 HERMAN L. LOEB LLC
	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 BARNHARDT 2-1
	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
	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.
	40)04/0045
٠	Date: 12/31/2015
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٠	Signature:
•	Received KANSAS CORPORATION COMMISSION Title: Shane Pelton, Prod Supervisor Herman L Loeb LLC
•	JAN 0 4 2016
	CONSERVATION DIVISION WICHITA, KS

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.