Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(See Instruc	itions on Re	verse Side	<i>)</i>						
Op	en Flo	w			Test Date				ADLE	do 45					
Deliverabilty					Test Date: 12/16 & 17, 2014				№. 15 97-21357-0	00-00					
Company HERMAN L. LOEB LLC					Lease HARDY						Well Number #2				
			Locat NE NE		Section 14			TWP 28S		RNG (E/W) 18W		Acres Attributed			
					Reservoir MISSISSIPPI				Gas Gathering Connection ONEOK FIELD SVCS.						
Completion Date 12/16/1993				Plug Back Total Depth 4944				Packer Se NONE	·						
Casing Size 5.500			Weight 15.00		Internal I 4.050	Internal Diameter 4.050		Set at 4984		Perforations 4818			To 4834		
Tubing Size 2.375			Weig 4.700		Internal [1.995	Diameter		Set at 4815		Perforations OPEN			То		
Type Completion (Describe) SINGLE				Type Fluid Production GAS,WATER				Pump Unit or Traveling Plunge PUMPING			r? Yes / No				
Producing	_	(Anı	nulus / Tubin	g)	% C	Carbon Diox	ide		% Nitroge	n	•	Gas Gr	avity - (à	
Vertical D		1)	·			Pres	ssure Taps	<u>·</u>		_		(Meter F	Run) (P	rover) Size	
Pressure	Buildu	p:	Shut in 12	/16	 20_14_ at			Taken_12	2/17	20	14 at_		(AM) (PM)	
Well on Line:			Started	2	0 at		. (AM) (PM)	Taken		20	at _		(AM) (PM)	
						OBSERVE	ED SURFAC	E DATA			Duration	of Shut-	in	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)		Flowing Temperature t	Well Head Temperature t	re Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrets)		
Shut-In			poig (r m)	Midnes H ₂ O	_		120	psia	30 psig	psia	24	_	_		
Flow				_								_		_	
						FLOW ST	REAM ATTR	IBUTES			_				
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	ctension Facto		or Temperature		iation ctor	Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
				_						_		_			
(P _c) ² =		_:	(P _w)² :	<u> </u>	•	, ,	/ERABILITY % (F) CALCUL P _o - 14.4) +	•	:		(P _d) ²	2 = 0.2 2 =	07	
		(P _c) ² - (P _w) ²		Choose formula 1 or a 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d$	2. $P_c^2 - P_d^2$ LOG of formula 1. or 2.		Backpre Sto		n x U	roe		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
<u> </u>	_			_			+		_			_			
Open Flo				 Mcfd @ 14	.65 psia		Deliverat		_		Mcfd @	- 14.65 psi	a a		
The i	undersi	iane	d authority, o	on behalf of the	Company,	states that I	he is duly a	uthorized to	o make the	above repo	rt and th	at he ha	s know	ledge of	
		-	•	aid report is tru	e and correc	t. Execute	this the 2	9TH		CEMBER				20 14 .	
			45.51	//å === A			PORATION COM		ll le	<u>//</u>	`am====	-			
			Witness	(папу)			0 2 201				Company				
			ForCom	mission		CONSERV Wit	ATION DIVISI CHITA, KS	ON		Chec	cked by				

exempt status under Rule K.A.R. 82- and that the foregoing pressure info correct to the best of my knowledge of equipment installation and/or upon	ry under the laws of the state of Kansas that I am authorized to request 3-304 on behalf of the operator HERMAN L. LOEB LLC ormation and statements contained on this application form are true and and belief based upon available production summaries and lease records a type of completion or upon use being made of the gas well herein named. Impation from open flow testing for the HARDY #2
is a source of nat is on vacuum at the is not capable of	ger lift due to water fural gas for injection into an oil reservoir undergoing ER the present time; KCC approval Docket No producing at a daily rate in excess of 250 mcf/D the present time and all supporting documents deemed by Commission
Received kansas corporation commission JAN 0 2 2015 CONSERVATION DIVISION WICHITA, KS	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.