## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:			!	(See Instruc	tions on Re	erse Side	)						
Open Flow Deliverabilty				Test Date: 12/16 & 17, 2014				API 15-(						
Company HERMAN L. LOEB LLC				Lease HARDY			_			#1	Well Number			
County KIOWA			Location NE NW NE		Section 23		TWP 28S		RNG (E/W) 18W		Acres Attribute			
Field HARDY				Reservoir MISS-CHAT				Gas Gathering Connection ONEOK FIELD SVCS.						
Completion Date 6/1/1956				Plug Back Total Depth 4933				Packer Set at NONE						
Casing S 5.000	ize	Weig 15.0		Internal Diameter 4.976		Set at 4965		Perforations 4808		то 4840				
Tubing St	ize	Weig 4.70		Internal Diameter 1.995		Set at		Perfor	ations	То				
Type Completion (Describe) SINGLE			· .	Type Fluid Production GAS,WATER				Pump Unit or Traveling Plunger? Yes / No PUMPING						
Producing Thru (Annulus / Tubing) ANNULUS			% Carbon Dioxide				% Nitrogen			Gas Gravity - G				
Vertical D		)			Pres	ssure Taps	_				(Meter I	Run) (Pr	rover) Size	
Pressure Buildup:		: Shut in 12	Shut in 12/16 20		14 at		(AM) (PM) Taken_12		2/17 20		14 at		(AM) (PM)	
Well on Line:		Started		20 at	at		Taken		20	0 at		(AM) (PM)		
					OBSERVE	D SURFACE	DATA			Duration	of Shut-	in	Hour	
Static / Dynamic Property	Orific Size (inche	Meter Prover Pres	Differential in	Flowing Well He Temperature t		Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)			Liquid Produced (Barrels)	
Shut-In	_		,			130	psia	30	psia	24				
Flow									<u> </u>			<u> </u>		
			<del></del>		FLOW STE	REAM ATTR	BUTES	<del>- ,</del>		<del>-,-</del>			<del>-</del>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Circle one: Meter or Prover Pressure psia	er or Extension		vity .	Flowing Deviation Factor Flowing Provided Factor Flowing Factor Flowing Factor Flowing		ctor R		w GOR (Cubic Fee Barrel)		l Gravity		
				•	• •	/ERABILITY)						<sup>2</sup> = 0.20	 07	
$\frac{(P_c)^2 = {(P_a)^2 - (P_a)^2}}{(P_c)^2 - (P_d)^2}$		$ (P_w)^2 = \frac{(P_w)^2}{(P_c)^2 \cdot (P_w)^2} = \frac{Choose form}{1. P_c^2} = \frac{Choose form}{2. P_c^2} = \frac{Choose form}{Choose form} = \frac{Choose form}{1. P_c^2} = $		LOG of formula 1. or 2.		Backpressure Curve Slope = "n"		e n x LOG		(P <sub>d</sub> )		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flo	w		Mcfd @ 14	.65 psia	<u> </u>	Deliverab	ility			Mcfd @ 1	  4.65 psi	ia		
		•	on behalf of the	e and correc		this the 29			e above repo		at he ha		ledge of 20 14	
		Witness	s (if any)		JAN 0 2 2015			For Company						
		For Con	nmission		SERVATION DI WICHITA, KS	IVISION -		:	Che	cked by				

l 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 HARDY #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.								
Date: 12/19/2014								
Received KANSAS CORPORATION COMMISSION  JAN 0 2 2015  CONSERVATION DIVISION WICHITA, KS  Signature:  Shane Pelton, Prod Supervisor 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.