KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(-	See Instruc	ctions on Rev	erse Side)				
Open Flow			Test Date				ADI	No. 15			
Deliverability				17, 2014)97-21700-0	00-00		
Company HERMAN L. LOE	B LLC	-			Lease HARDY				#3	Well Number	
County Location KIOWA SE NE		Section 23		TWP 28S			RNG (E/W) 18W		Acres Attributed		
Field HARDY			Reservoir MISSISS	SIPPI CHI	ERT			nering Conn			
Completion Date 8/16/2011			Plug Back Total Depth 4845				Packer Set at NONE				
Casing Size Weight 5.500 15.50			Internal D 4.976	Diameter		Set at 4875		Perforations 4806		то 483 8	
Tubing Size Weight 2.375 4.700		Internal D 1,995	Diameter		Set at 4822		Perforations OPEN				
Type Completion (Describe) SINGLE			Type Fluid Production GAS, WATER, OIL							/ No	
Producing Thru (A	nnulus / Tubing)			arbon Diox			% Nitrog		Gas Gr	avity - G _g	
ANNULUS Vertical Depth(H) 4821				Pres	ssure Taps				(Meter I	Run) (Prover) Size	
Pressure Buildup:	Shut in	6 20	14 at		(AM) (PM)	Taken_12	2/17	20	at	(AM) (PM)	
Well on Line:	Started	. 20	at	· · ·	(AM) (PM)	Taken		20	at	(AM) (PM)	
				OBSERVE	ED SURFACI	DATA			Duration of Shut-	in Hours	
Static / Orifice Dynamic Size Property (inches)	Circle one: Meter Prover Pressure	∌ in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	psig (Pm)	Inches H ₂ 0		,	psig 160	psia	psig 90	psia	24		
Flow		-		_	100		30				
	<u> </u>			FLOW STI	REAM ATTR	BUTES	I			<u>. </u>	
Plate	Circle one:	Press	Grav	rity	Flowing	Dev	iation	Metered Flov	y GOR	Flowing	
Coefficient (F _b) (F _p) Mcfd	Meter or rover Pressure psia	Extension ✓ P _m x h	Gravity Factor F		Temperature Factor F _{tt}	Factor F		R (Mcfd)	(Cubic Fe	l Gravity I	
(P _c) ² =:	(P _w) ² =_	:	(OPEN FLO	, ,	VERABILITY % (F	CALCUL - 14.4) +		;	(P _a)	² = 0.207 ² =	
	(P _c) ² - (P _w) ²	1: $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpre Slop As:	ssure Curve e = "n" or signed	n x 1	.og	Antilog	Open Flow Deliverability Equals R x Antilog	
	di	vided by: $P_c^2 - P_w^2$	by:	<u> </u>	Stand	ard Slope				(Mcfd)	
-						•	-				
Open Flow		Mcfd @ 14.6	55 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia	
The undersign	ed authority, on	behalf of the	Company, s	states that i	he is duly au	thorized t	o make th	e above repo	ort and that he ha	as knowledge of	
the facts stated ther	ein, and that said	d report is true	and correc			TH_	day of <u>D</u>	ECEMBER		, 20	
			KA	Re NSAS CORPO	eceived DRATION COMMI	SSION	1/2			_	
	Witness (if a	any)		JAN	0 2 2015			For	Company		
	For Commis	sion	-	CONSERV	ATION DIVISIO	N		Che	cked by		

, ,	of perjury under the laws of the state of Kansas that I am authorized to request A.R. 82-3-304 on behalf of the operator HERMAN L. LOEB LLC							
and that the foregoing pres correct to the best of my kno	sure information and statements contained on this application form are true and owledge and belief based upon available production summaries and lease records							
	d/or upon type of completion or upon use being made of the gas well herein named. year exemption from open flow testing for the HARDY #3							
gas well on the grounds tha	t 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 ca	pable of producing at a daily rate in excess of 250 mcf/D							
-	y to the best of my ability any and all supporting documents deemed by Commission porate this claim for exemption from testing.							
Date: 12/30/2014	·							
Received KANSAS CORPORATION COMMISS	SION Signature:							
JAN 02 2015	Title: 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.