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

Type Test:	;	1 11	. (	See Instruct	tions on Rev	erse Side	)!		:	•	. "		
Open Flor	• • •	: ·	Test Date	<b>.</b>	:		∴ ADI	No. 15				· ·	
Deliverab	ilty			, 16, 2015	٠, ٠			097-00156	-00-00	1.14	*:		
Company HERMAN L. L	OEB LLC				Lease HARDY	:: :		<del>.</del> ;		#1	Vell Nur	nber	
County	Loca NE NV		Section 23	٠.,	TWP 28S :: [		RNG (E/	W) .	1.4	A	cres A	ttributed	
Field HARDY		.:	Reservoir MISS-C					hering Con		:	<del>:</del>		
Completion Date	e :		Plug Bac 4933	k Total Dept	th	·:	Packer S NONE	et´at · · ·					
Casing: Size 5.000	Weig 15.0		Internal D 4.976	Diameter	Set at 4965			rations		то 4840	:		
Tubing Size 2.375	Weig 4.70	ıht , ,	Internal I	Diameter	Set at		· · · · · · · · · · · · · · · · · · ·	rations		То			
Type Completion SINGLE			Type Flui	d Production	- 1			it or Travelin	g Plunge	r? Yes	/ No		
Producing Thru	(Annulus / Tubir	ng)		arbon Dioxi	de		% Nitrog			Gas Gra	vity - G		
ANNULUS		· · · · · · · · · · · · · · · · · · ·				,			···.	****	,	9 .	
Vertical Depth(H	)		· ;	Pres:	sure Taps		· .	:		(Meter F	lun) (Pro	over) Size	
	12	2/15	0 15 at /		(A.B.A) (Th.A)	12	716		. 15				
Pressure Buildup	o; (Shut in,)	÷ 2	•	:	(AM) (PM)	: :	******		) <u> </u>		(/	\M) (РМ)	
Well on Line:	Started	2	0 <u> </u>		(AM) (PM)	Taken		20	D at	<u>:</u>	(/ (/	AM) (PM)	
	•		··	OBSERVE	D SURFACE	DATA		<u>:</u> ::	Duratio	n of Shut-i	n	Hours	
Static /: Orific	Circle one:	Pressure Differential	Flowing	Well Head	Casir			ubing	D.	rátian	, Libraria	Produced	
Dynamic Size	Prover Press	sure . in	Temperature Temperatur		Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ .		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )			Duration (Hours)		(Barrels)	
	psig. (Pm)				psig .	psia	psig	psia	77	- :-	<u> </u>	<u>.</u>	
Shut-lin :					200		28	.,,,,,,	24	· · · · ·			
Flow		· · · · · · · · · · · · · · · · · · ·		, ,,		· .	:. 		:		ļ		
	1,	- 1	•:. •	FLOW STR	EAM ATTRI	BUTES	: -		···;			<u>·:, ·:</u>	
Plate	Circle one: Meter or	Press	Grav		Flowing	. Devi	: ation	: Metered Fle	ow	GOR	:	Flowing	
Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> )	Prover Pressure	Extension	Fact	or :	emperature Factor	_	ctor	R (Mefd)	· · ·	(Cubic Fee Barrel)		Fluid Gravity	
Mcfd	psia	√ P <sub>m</sub> x,h		1, 2, 1, 2	F <sub>tt</sub>	<u> </u>	₽₹	(Mcfd)	- 1:.:	Danely		G <sub>m</sub>	
: :	;			:	•	:		<u> </u>	:	:			
			(OPEN FLO	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS			: /D \2	= 0.20	7	
(P <sub>c</sub> ) <sup>2</sup> =	_: (P <sub>w</sub> ) <sup>2</sup>	= <u></u> :	. P <sub>d</sub> =	- · ·9	(P <sub>ε</sub>	- 14,4);+	14.4 =	<u> </u>		(P <sub>d</sub> ) <sup>2</sup>	=	<u>'''</u>	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	/D \2 /D \2	Choose formula 1 or 2.	LO6 of			sure Curve	: <u>  -</u>			:	Opr	en Flow	
- or -	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	formula 1. cr 2.			∋ = "n" - or	ń x l	.og	- An	ntilog		erability R x Antilog	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	'	divided by: $P_c^2 - P_w^2$	and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Assi Standa	igned rd Slope						Mcfd)	
		:		:	:	:			,				
	-		· · · · ·			•			<del>                                     </del>		<u>:.</u>	. 1.	
		1 111111111111111111		:: ::	. 1177		<u> </u>	<del> </del>				<u>-1</u>	
Open Flow	<del>.</del> :	, Mcfd @ 14.	65 psia :	<del></del> -	Deliverabil	ity		<u>:</u>	Mcfd @	14.65 psia		<del></del>	
The undersi	gned authority,	on behalf of the	Company, s	tates that h	e is duly aut	horized to				hat he has	knowle	edge of	
the facts stated th	nerein, and that	said report is true	and correc			TH ;	day of D	ECEMBER	<u></u>		, 2	o <u>15                                    </u>	
				R KANSAS CORP	eceived ORATION COMM	AISSION			:	:	:		
	Witness	(if any).		<del></del> ``.,	2 1 2015		vus	Fo	Company	<u> </u>	<del></del>	: :: ::	
· · · · · · · · · · · · · · · · · · ·	For Com	ımission	<del>;</del>	<u>.</u>	ATION DIVISIO	-	· ·	Ch	ecked by		<del>- : </del>	···	
· · · · · ·			::.	. Wic	HITA, KS		•			::.,	:	: :	

	:	:	
I declare under penalty of perjury under the laws of the state of Kansas			to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator_HERMAN	L. LOE	B LLC	<del></del> :
and that the foregoing pressure information and statements contained on thi	is applic	cation form a	re-true and . · :
correct to the best of my knowledge and belief based upon available productio	n sumn	naries and le	ase records
of equipment installation and/or upon type of completion or upon use being made	de of the	gas well he	rein named
I hereby request a one-year exemption from open flow testing for the HAF	RDY #1	··	<u> </u>
gas well on the grounds that said well:	:	•	
(Check one)	- /.j.s.s - j.et		
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 u	ındergio	ing 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>,</i>	: "	•
I further agree to supply to the best of my ability any and all supporting do	cumen	ts deemed b	y Commission
staff as necessary to corroborate this claim for exemption from testing.	*	· · · · · · · · · · · · · · · · · · ·	i
		. i	1
Date: 12/17/2015		1 13	
	•	t. 	·.
Signature:			
Received  KANSAS CORPORATION COMMISSIGNITIE: Shane Pelton, Prod Su	perviso	r Herman L I	Loeb LLC
DEC 2 1 2015			
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.