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

Type les	il,				Oce manac	aona on me	verse side	<i>5)</i>			
	oen Flow eliverabilty			Test Date					l No. 15 5-20695-00-	00	
Company		ating, Inc.			,	Lease Dalene			····	1	Well Number
County Hamiltor	1	Loca C NE		Section 7		TWP 22S		RNG (E 41W	/W)		Acres Attributed 640
Field Bradsha	iw	91. 44	$g_{i,\frac{n}{2}}(t_i) = \frac{1}{2}$	Reservoi Winfield			9.5 9.5 9.5	Gas Ga Oneok	thering Conn	ection	
Completion 2-13-199				Plug Bac 2812 TI	k Total Dept )	th		Packer : None	Set at		
Casing S 4.5	ize	Weig 10.5		Internal ( 4.052	Diameter	Set a 281			rations 2-54; 2757	то -61 2766	 3-71
Tubing Si	ize	Weig 4.7	ht	Internal [ 2.000	Diameter	Set a 277		Perfo	rations	То	
Type Con Single -	npletion (D - Gas	Describe)		Type Flui <b>Water</b>	d Production	n			nit or Traveling Unit - Rod		s / No
Producing		nnulus / Tubir	ng)	% C	arbon Dioxi	de		% Nitrog	jen	Gas C	Gravity - G <sub>g</sub>
Vertical D						sure Taps					r Run) (Prover) Size
	Buildup:	Shut in	9-8 20	10 /	Flans		Tokon	9-0	7	10 - 10:	10 (AM) (PM)
Well on L	·			•		$\overline{}$					
					OBSERVE	D SURFAC	E DATA	<del></del>		Duration of Shu	at-in_24 Hou
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Press psig (Pm	Differential in	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P <sub>w</sub> ) or (P	ing Pressure (,) or (P <sub>c</sub> )	Wellhe	Tubing ad Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)	
Shut-In	.500	+	1110103 1120			psig	52	psig	psia	24	
Flow	·										
	<del></del>		1		FLOW STR	EAM ATTR	IBUTES	I		· · · · · · · · · · · · · · · · · · ·	
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient Pi	Circle one: Meter or rover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fact F <sub>g</sub>	or T	Flowing emperature Factor F <sub>11</sub>	Fa	iation ctor	Metered Flow R (Mcfd)	v GOF (Cubic F Barre	Feet/ Fluid
L							<u> </u>		-·		
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> :	=:	(OPEN FLO	OW) (DELIVI 	·	) CALCUL <sup>2</sup> c - 14.4) +		:		$(x)^2 = 0.207$ $(x)^2 = $
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I		(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> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop	ssure Curve be = "n" or signed ard Slope	nxl	.og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
ļ .										<b>L</b> ,	
				1							<u> </u>
Open Flo			Mcfd @ 14.6	<u>·</u>		Deliverab	· · · ·			Mcfd @ 14.65 ps	
			on behalf of the				thorized to	day of	e above repo		as knowledge of
		Witness	(if any)			_	_Ja	nice	Kipl For o	ey W	IV 1 0 2040
<del></del>		For Com	mission	<del></del>			V.		•	V	2 1 3 2010
										ハして	WICHITA .

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 Horseshoe Operating, Inc. 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 Dalene 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:

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.