KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:					į	(See Instruct	tions on Re	everse Side	9)				
Open Flow Deliverability				Test Date: / /					l No. 15	•				
	eliverab	uty				2-16	-//			15	-075-20671	0000		
Compan Horses	y shoe (Эре	erating, In	C.	·			Lease Tat e				1	Well Nu	ımber
County Location Hamilton SW/4 NE NE				NE	Section 27		TWP 24S		RNG (E/W) 41W			Acres Attributed 640		
Field Bradshaw					Reservoi Winfie	•			thering Conne Nidstream	ction				
Completion Date 8-26-1998				Plug Bac 2395	k Total Dept	th	Packer Set at .		Set at .		· -			
Casing Size 4.5			Weight 10.5			Internal Diameter 4.052		Set at 2394		Perfo 237	то 86	То .		
Tubing Size 2.375			Weight 4.7			Internal Diameter 2.0000		Set at 2390		Perfo	То	То		
Type Completion (Des Single gas			scribe)			Type Fluid Production Water		n .		Pump Unit or Traveling Plunger?			Yes / No	
Casing	_	•	nduT / eulur	ig)		% (Carbon Dioxi	de		% Nîtroç	jen	Gas G	ravity - (3,
Vertical D	epth(H						Flan					•		rover) Size
Pressure	Buildu	o: :	Shut in@	2-	1 <u>5</u> 20	o // at _4	8:00	(AN) (PM)	Taken	2.	16 20	11 at 8;	00 1	AN) (PM)
Well on L	ine:											at	_	AM) (PM)
							OBSERVE	D SURFAC	E DATA			Ouration of Shut	-in_	4 Hours
Static / Dynamic Property	o Size		Cimie ene: Meter Prover Pressure psig (Pm)		Pressure Differential In Inches H _• 0	Flowing Temperature t	Well Head Temperature t	perature Wellhead Pr		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		
Shut-In	.62	5						,	73		, pour	24		
Flow						• •								
	 r		Clicie one:	т-			FLOW STR		RIBUTES			-		
Plato Coofficient (F _b) (F _p) Mcfd		Meter or Prover Pressure psla			Press Grav Extension Fact P_xh F		tor Temperature		Fa	lation actor pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
				<u> I. </u>		(OPEN FL	DW) (DELIVI	ERABILIT	/) CALCUL	ATIONS		45.		
(P _e) ² =		. :	(P _w)² =		:	P _d ⇒	9		P _e - 14.4) +		:	(P _a)	P = 0.2 P =	u/
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose tomute 1 or 2: 1. Po Po Po 2. Po Po Po children by: Po Po children by: Po Po children by: Po Po children by: Po Po Po children by: Po Po Po children by: Po Po Po Po children by: Po		LOG of formula 1. or 2. and divide	p 2 - p 2	Backpressure Curve Slope = "n" 		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
 -								-					ļ	·
Open Flov	<u> </u>	Mcfd @ 14.65 psia					Deliverability			Mcfd @ 14.65 psia			l ia	
							tates that he		uthorized t	o make th	ne above repor	and that he ha	s know	ledge of
	· · · ·		idhaac f	1	·				4	anic	e Rip	ley	RE	CEIVED
	-		Witness (i						<u> </u>		Check	· · · V	AM-	<u> </u>

	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exem	pt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and th	nat the foregoing pressure information and statements contained on this application form are true and
correc	ct to the best of my knowledge and belief based upon available production summaries and lease records
	ipment installation and/or upon type of completion or upon use being made of the gas well herein named.
11	nereby request a one-year exemption from open flow testing for the Tate #1
gas w	ell on the grounds that said well:
•	(Charle and)
	(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
l fu	urther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff a	s necessary to corroborate this claim for exemption from testing.
Date: _	<i>5-24-11</i>
•	
	Or in a Prin Park
	Signature: Janice Ripley
	THE Production Assistant

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.