KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Re	verse Sid	e)				
Open Flow			Toot Dat	la.			401	N	•		
Deliverabilty			S/6/	le: 10			15-	No. 15 075-2069	19- 00-00	>	
Company Horseshoe Op	erating, Inc.		77		Lease Hill				. 1	Well Numb	er
County Location Hamilton C SW			Section 10		TWP 22S		RNG (E/W) 40W			Acres Attri	buted
Field Bradshaw			Reservo Winfie					nering Conr lidstream		· · · ·	
Completion Date 10-27-1999	Y	्रिक्ष । विकास	Plug Bac 2777	ck Total Dept	th		Packer S	et at		** .T*	Ag . S
Casing Size Weight 4.5 10.5			Internal 4.052	Diameter	Set at 2776		Perforations 2736-38		то 27 40-50		
Tubing Size 2.375				Internal Diameter 2.0000		Set at 2753		Perforations		То	
Type Completion (D Single gas	Pescribe)		Type Flui Water	id Production	1		Pump Un Yes	it or Traveling	g Plunger? Yes	/ No	
Producing Thru (An Casing	inulus / Tubing)		· % C	Carbon Dioxi	de		% Nitroge	en	Gas G	ravity - G _g	
Vertical Depth(H)	:			Press Flan	sure Taps				(Meter	Run) (Prove	r) Size
Pressure Buildup:	Shut in	15_20	0/ <i>O</i> at	7:15	(AM) (PM)	Taken	8/6	20	10 at 71	15 (AM))PM)
Well on Line:	Started	20	D at	· · · · · · · · · · · · · · · · · · ·	(AM) (PM)	Taken		20	at	(AM)	(PM)
				OBSERVE	D SURFACI	DATA		. ;	Duration of Shu	-in_24	/ _Hours
Static / Orifice Dynamic Size Property (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	emperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		ubing d Pressure (P _t) or (P _c)	Duration (Hours)	Liquid Pro	duced
Shut-In .750					poly	60	psig	рѕы	24		
Flow											
				FLOW STR	EAM ATTR	BUTES					
Plate Coefficient (F _b) (F _p) Mofd	Meter or Extension Prover Pressure psia Practical Press Press Extension Practical Press Press Practical Press Press Practical Press Press Extension		Gravity Factor F ₀		emperature Factor		iation Metered Flow ctor R F _{pv} (Mcfd)		W GOR (Cubic For Barrel	eet/ [owing Fluid ravity G _m
			(OPEN FLO	OW) (DELIVE	ERABILITY)	CALCUL	ATIONS		(0.	2 0 00	
(P _c) ² =:	. (P _w) ² =	:	P _d =	%	(P	_c - 14.4) +	14.4 =	·:	(P _d) ² = 0.207) ² =	
$(P_c)^2 - (P_a)^2$ (Portion of $(P_c)^2 - (P_d)^2$	P _c) ² - (P _w) ²	ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ and by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	Slop Ass		sure Curve e = "n" origned ard Slope	пхЬ	og []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
		·				······································					
Open Flow		Mcfd @ 14.6	5 psia		Deliverabi	lity	1		Mcfd @ 14.65 ps	ia	
The undersigned the facts stated therei						11	make the	above repo	ort and that he h	as knowledge	of 10
	Witness (If any)		· · · · · · · · · · · · · · · · · · ·		_	ence) Kypl	Company	REC	EIVED
	For Commission	n			_		··· ··· ··· ··· ··· ···	Chec	cked by	OCT	1 4 201

 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 Hill #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.
Signature: <u>Janice Ripley</u> Title: <u>Troduction Assistant</u>

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.