RECEIVED

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

Type Test:					(	See Ins	tructi	ons on Re	verse Side	9)					
Open Flo				4	Test Date	4		4			No. 15 -20378 <b>∸0</b> 0	90,			
Company Horseshoe O	perat	ting, Inc.						Lease Kuttler F	<del>-</del>				1	Well Nu	ımber
County Greeley	ty Location			Section 19			TWP 198		RNG (E/W) 39W				Acres /	Attributed	
Field Bradshaw		<u> </u>		,	Reservoir Winfield						hering Conne idstream				
Completion Da I-3-86	te			;	Plug Bac 2914'	k Total	Depth	1		Packer S	et at	. ,		-	
Casing Size -1/2"	ze Weight 14.0			Internal Diameter 5.012			Set at 2958'		Perforations 2836¹			To 2844'	5	<u></u>	
ubing Size	Size Weight				Internal Diameter 1.995			Set at 2846'		Perforations			То		
ype Completio Single - Gas					Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No						
Producing Thru	(Anr	ulus / Tubin	g).		% C	arbon [	Dioxid	le		% Nitrog	en		Gas Gr	avity - (	a,
ertical Depth(l	Ⅎ)						Press	ure Taps				<del></del>	(Meter	Run) (P	rover) Size
Pressure Buildu	ıp:	Shut in	4-2.		14 at_	8,0	0	(AM) (PM)	Taken	4-	3	/4 at	8;	00	(AM) (PM)
Well on Line:	;	Started		20 .	at		`	(AM) (PM)	Taken		20	at .	_		(AM) (PM)
•		<del></del>	,	,	<u></u>	OBSE	RVE	SURFACI	E DATA	·		Duration	of Shut	in Á	Hours
ynamic Siz	c/ Orifice nic Size rty (inches)		Pressure Differential In Inches H <sub>2</sub> 0		Flowing Well He Temperature t		ature $(P_{\pi})$ or $(P_1)$		Pressure	Tubing  Wellhead Pressure  (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Dur	, 12.		d Produced Barrels)
Shut-in .50	0	psig (Pm)	Inches I	120				psig	90	psig	psia	2	24		
Flow															
			T		<u> </u>	FLOW	STRI	EAM ATTR	BUTES	<del>-</del> ·		· · · · ·		_	
Plate Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> ) Mold		Circle one: Meter or ver Pressure psia	Extensi	Press Extension √ P <sub>m</sub> x h		Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>f1</sub>		iation etor : pv	Metered Flow R (Mcfd)	,	GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>
									•		,	⊥.			~
) <sub>c</sub> ) <sup>2</sup> =	<u>_:</u>	(P <sub>w</sub> ) <sup>2</sup> =		:	OPEN FLO		ELIVE	RABILITY)	) CALCUL ) <sub>a</sub> - 14.4) +		:		(P <sub>a</sub> )	² = 0.2 ² =	207
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P	<sub>c</sub> )²- (P <sub>w</sub> )²	1. P <sub>c</sub> <sup>2</sup> - P  2. P <sub>c</sub> <sup>2</sup> - P  divided by: P <sub>c</sub> <sup>2</sup>	2 2	LOG of formula 1: or 2. and divide by:	P.2- P.	2	Štop Ass	ssure Curve ne = "n" or signed ard Slope	n x l	LOG [	Ani	iilog	Del Equals	pen Flow iverability s R`x Antilog (Mcfd)
		.		t	ı				٠.					ļ	
pen Flow		1	Medel @	14.65	, .			Delivershi	·			Natel @	14.05	<u>                                     </u>	
The unders				the C	ompaný, s		at he		thorized to	o make th	le apove repo		14.65 ps nat he ha	_	eledge of
e facts stated t	hereir	n, and that s	aid report is	true a	ind correct	. Exec	uted t	his the 🗀	12	day of	upri	in la		ı	20 <u>/</u> 4.
		Witness (	if any)				-	-	1	anic		company	7-1	<del>(C</del> C	WICH
	-3-: ···	ForComm	nission				_	•	<i>v</i>		Chec	ked by		APR	17 2014

I declare under exempt status under and that the foregoin correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am author Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. ng pressure information and statements contained on this application for my knowledge and belief based upon available production summaries and tion and/or upon type of completion or upon use being made of the gas well a one-year exemption from open flow testing for the Kuttler F #1	m are true and d lease records
(Check on is is is is	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER con vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D	
	o supply to the best of my ability any and all supporting documents deemed corroborate this claim for exemption from testing.	ed by Commission
	Signature:	

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.

...HOHATAAN Mari 1994