KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t .				6	See Instruct	ions on Reve	erse Side)					
Open Flow Deliverability					Test Date: 1-24-13				API No. 15 15-071-207550000					
Company Horseshoe Operating, Inc.				, , ,	Lease Kuttler H				1	Well Number				
County Location Greeley NE NW			Section 29		TWP 19S		RNG (E/W) 39W			Acres Attributed				
Field Bradsh	 -				Reservoir Winfiel					nering Conne Lidstream				
Completi 8-5-200		е			Plug Bac	k Total Dept	h		Packer S	et at				
Casing Size 4.5			Weight 10.5		Internal Diameter 4.052		Set at 2854		Perforations 2817		To 2832			
Tubing Size 2.375		Weight		t .	internal D		Set at	Set at 2837		Perforations		То		
Type Cor Single		n (De				d Production			Pump Un Yes	it or Traveling	Plunger? Yes	/ No		
Producin	g Thru	(Ann	ulus / Tubing))		arbon Dioxid	de	<u> </u>	% Nitroge	en	Gas Gr	avity - (a,	
Casing Vertical D		1)	<u>-</u> ,, ,,			Press	sure Taps				(Meter I	Run) (P	rover) Size	
				- 22	12	Flang			1-5	04	13 at 9:0	00		
Pressure Well on L		•					<u> </u>				at	-	(AM) (PM)	
							<u></u> .						74 Hours	
Static / Orifi		Meter .		Pressure Differential	Flowing Well Head Temperature Temperatur		Casing Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P _c) or (P _c)		Duration of Shut- Duration (Hours)	Liqui	n _ Ø T Hours Liquid Produced (Barrels)	
		hes) Prover Pressure psig (Pm)		re in Inches H ₂ 0	t	t	(P _w) or (P ₁) or (P ₂)		psig	psla	(Hadia)	ļ`		
Shut-In Flow	.00	\mathcal{O}					<u> </u>	90	1		84	1		
L						FLOW STR	EAM ATTRI	BUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh	Extension Fact		Flowing Femperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
l					(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUI	LATIONS		(P.)	h² = 0.2	207	
(P _c) ² =	· · · · · · · · · · · · · · · · · · ·	<u>_:</u> _	(P _w) ² =	:	P _d =		% (P	- 14.4)	+ 14.4 =	:	(P _a)			
(P _c) ² - (I or (P _c) ² - (I	-	(P	;)²-(P")²	Choose formula 1 or 2. 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_s^2$ Sivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P.2-P.2	Slop	sure Curve e = "n" origned ird Slope	e nxl	LOG	Antilog	Del Equals	pen Flow liverability s R x Antilog (Mcfd)	
	-											ļ		
Open Flo	 w			Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia		
		_	_	behalf of the	-			thorized	to make the	ne algove repo	ort and that he h	as know	viedge of 20 13.	
			Witness (if	any)		KANSAS CO	RECEIVED PRPORATION	COMMISS	ON ON	For	company J	<u> </u>		
			For Commi	ssion			PR 11 2			Che	cked by			

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Kuttler Hounds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 4-3-/	Signature: <u>Production</u> 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.