KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruc	tions on He	verse Sia))				
	en Flow				Test Date	9 ;			API	No. 15	-600		
	liverabil	ty			1-20-1	<u> //</u>			15-	071-20753			
Company Horseshoe Operating, Inc.							Lease Kuttler	G			1	Well Number	
County Location Greeley			Section 8		TWP 19S		RNG (E/W) 39W			Acres Attributed			
Field Bradshaw					Reservoi	Reservoir				Gas Gathering Connection DCP Midstream			
Completion Date 6-2-2003					Plug Back Total Depth 2850				Packer S		I		
asing Size Weight				Internal C	Set a		Perforations		To .				
		10.5 Weigh	4.052		285° Diameter Set a			2810 Perforations		2826 To			
.375 4.7			2.000	2.000 2835									
Type Completion (Describe) Single gas					Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Yes			
oducing Poliza	Thru ((Annulu	a / Tubing	3)	% C	arbon Dioxi	de		% Nitrog	en	Gas G	ravity - G _p	
ertical D	epth(H)	İ					sure Taps		 	·	(Meter	Run) (Prover) Siz	
•				-19 2	11	Flan タ・レく	ge (AM) (PM)		1-3	20 20	// at 8:4	5 0	
essure	•				•								
eil on L	ine:	Star	rted	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
i			Circle one:	1.		OBSERVE	D SURFAC		T		Duration of Shut	-in_24_Ho	
itatio / ynamic	Orific Size	lice Meter		Pressure Differential In	Flowing Temperature	Well Head Temperature	I Wallhaud Pres		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Ouration (Hours)	Liquid Produced (Barrels)	
roperty	(inche			Inches H ₂ 0	t .	1	psig	psla	psig	psta	(10018)	(canos)	
Shut-In	.62	5		ļ	<u> </u>		ļ	90			24_		
Flow	_			_		<u> </u>			<u> </u>				
			<u> </u>			FLOW STF	REAM ATTR	IBUTES	1		-1 -		
Plate Coefflecient		Gircle one: Mater or		Press Extension	Grav Fac		Flowing Temperature			Metered Flow R	GOR (Cubic Fo	eet/ Fluid	
(F _p) (F _p) Motel		Prover Pressure psla		√ P _m xh	F	I Goder		4	F _{pv}	(Mcfd)	Barrel	Gravita	
													
					(OPEN FL	OW) (DELIV	ERABILITY) CALCU	LATIONS		(P.) ² = 0.207	
)² =		.:	(P _w) ² =	:	P _d =		% <u>(</u> I	P _c - 14.4) -	+ 14.4 =	;) ² =	
(P,)2-(P,)2		(P _a)*- (P _a)*		Choose formula 7 or 2	LOG of			ckpressure Curve Slope = "n"		[]		Open Flow	
or (P _a) ² - (P _a) ²				2. P 2. P 2	formula 1. or 2. and divide	D. D.	or Assigned		n x LOG		Antilog	Deliverability Equals R x Antilog	
				divided by: P_a^2 - P_a		P.*-P.*	Stand	fard Stope				(Mcfd)	
	_											 	
Open Flow Mcfd @ 14.65 ps					65 neia	psia Deliverability							
		nod a	thority			states that b			to make th	•		as knowledge of	
				id report is true				9	day of	May	COHO WAL HO R	, 20 <u>/ / </u>	
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	•		Winess (i	any)				7	**************************************	For C	отралу		
			For Comm	Ission			•			Chec	ked by	RECE	

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er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation 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 G
ounds 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 eto supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Signature: <u>Janice Ripley</u> Title: <u>Troduction</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.