KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					((See Instruc	ctions on Re	everse Side	e)					
Open Flow Deliverabilty						Test Date	e: ///				No 15 -2073 7- 00-0	,			
Company						9-11-1	7	Lease		0/5	-20/3/-00-0	, 	Well No	umber	
Horseshoe Operating, Inc.							Lewis				2				
County Location Hamilton SE					Section 7		TWP 22S			RNG (E/W) 41W		Acres Attributed 160			
Field Bradshaw					Reservoi Winfield				Gas Gathering Connection Oneok		cilon				
Completion Date 10-22-2000					Plug Bac 2783 TI	k Total Dep D	oth	edinariamiem stati tali suuti tää liisuuun pa	Packer Set at None						
Casing Size Weight 4.5 10.5					Internal I 4.052	Diameter		Set at 2794		Perforations 2717		то 275 5			
Tubing Si 2.375	ze		Weig 4.7	ht		Internal Diameter 1,995			Set at 26 95		Perforations		То		
Type Completion (Describe) Single - Gas						d Production		Pump Unit or Travel Pump Unit - Ro			Plunger? Yes	s / No			
Producing Thru (Annulus / Tubing) Annulus						% Carbon Dioxide				% Nitrog		Gas G	Gas Gravity - G _g		
Vertical Depth(H)					Pressure Taps Flange						(Meter	Run) (P	Prover) Size		
Pressure	Buildup); ;	Shut in	9.	10 2	0/4 _{at}			Taken	9-1	/	4 at 10.0	00	(AM) (PM)	
Well on L	ine:	;	Started		20	·					20 _	•	_	(AM) (PM)	
		-					OBSERVI	ED SURFAC	E DATA	 		Suration of Shu	t-in O	Hours	
Static / Dynamic	omia Sizo		Circle one: Meter		Pressure Differential	Flowing Temperature	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration			
Property (incl		hes) Prover Press psig (Pm)		1	m Inches H₂0	. t	t	(P _w) or (I	(P _w) or (P _t) or (P _c) psig psia		(P _w) or (P ₁) or (P _c) psig psia				
Shut-In	inut-In .150					· -		4				24	24		
Flow						=:									
	1			- _T			FLOW STI	REAM ATT	RIBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one Meter or Prover Pressure psia			Press Extension P _m xh	Gravity Factor F _g		Temperature F		viation Metered Flov actor R F _{pv} (Mcfd)		(Cubic Feet/		Flowing Fluid Gravity G _m	
				-										- m	
			<u> </u>			(OPEN FL	OW) (DELI\	/ERABILITY	/) CALCUL	.ATIONS	,		$)^2 = 0.2$	207	
(P _c) ² =		_:_	(P _w) ² :	<u>-</u>	:	$P_d =$		% (P _c - 14.4) +	14.4 =	:) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		:	ose formula 1 or 2 ⁻ 1. P _c ² - P _g ² 2. P _c ² - P _d ² led by P _c ² - P _w ²	LOG of formula 1. or 2 and divide by.		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
								,							
Open Ele		NA-54 @ 4 4			Mote @ 44	65 pgio		Deliverability		11.51		-44 @ 44 OF	@ 14 65 poin		
Open Flor					Mcfd @ 14.6							cfd @ 14.65 ps			
					ehalf of the report is true				,	o make th day of	e above report	and that he h		rledge of 20 24.	
			Witness	(if on				-		Jani	ce Ri	pley	Rec	C eived RATION COMMISSI	
								-	0	/	Per C9	<i></i>	O O T	n a anti-	
			For Com	missio	n						Checke	ed by	ULT	U 3 ZU14	

CONSERVATION DIVISION WICHITA, KS

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 Lewis 2 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:

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.Fl. 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.