KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		* .			(See Instruc	tions on Re	everse Side	9)				
Ope	en Flow			Test Date	۵۰			. ΔΡ	, l No. 15			
Deli	iverabilty		,	Test Date 5-22	-12				1-20807-00-0	0		
Company Horseshoe Operating, Inc.					Lease Householder			Well Number 3-29			Well Number	
County Location Greeley N/2 NE SW			Section 29			TWP 20S		/W)	Acres Attributed			
Field Bradshaw				Reservoir Winfield			Gas Gathering Connection DCP Midstream					
Completion Date 1-20-2005				Plug Back Total Depth 2848 (TD)			Packer S	Set at				
Casing Size Weight 4.5 10.5			Internal I 4.052	Internal Diameter Set at 4.052			Perforations 2789		To 2799			
Tubing Size Weight 2-3/8" 4.7			Internal I 2.000	Internal Diameter Set at 2.000 2831			Perfo	rations	То	**************************************		
Type Comp		Describe)		Type Flui Water	d Production	n			nit or Traveling Unit - Rod	Plunger? Yes	/ No	
Producing Annulus	Thru (A	nulus / Tubing)	% C	Carbon Dioxi	ide		% Nitrog	jen	Gas Gr	avity - G _g	
Vertical Depth(H)					Pressure Taps Flange			ىلىدىنىڭ يېرىيىلى بورۇنىڭ يۇرىنىڭ ئالىرىنىڭ دارىنىڭ يېزىنىڭ يېزىنىڭ يېزىنىڭ يارىنىڭ يارىنىڭ يارىنىڭ يارىنىڭ يا يارىنىڭ ئالىرىنىڭ يارىنىڭ يارى		•	(Meter Run) (Prover) Size 2"	
Pressure E	Buildup:	Shut in				(AM)(PM)	Taken	5-0	22 20/	2 at 10;5	56 (AM) (PM)	
Well on Lir	ne:	Started	2	0 at	·	(AM) (PM)	Taken		20	at	(AM) (PM)	
A STATE OF THE STA		1			OBSERVE	D SURFAC	E DATA			Duration of Shut-	n 24 Hours	
Static / Orifice Dynamic Size Property (inches)		Meter Prover Pressure psig (Pm) Pressure Differential in Inches H ₂ 0		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			2			paig	37.7	psig	psia	24.		
Flow												
					FLOW STA	EAM ATTR	IBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia Prover Pm x h		Gravity Factor F		Flowing Emperature Factor Fit Fit Deviating Factor Factor For		ctor	Metered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
			1)									
(P _c) ² =		(P _w) ² =_		(OPEN FLO		ERABILITY % (F				(P _a) ² (P _d) ²	= 0.207	
(,,,	 :		hoose formula 1 or 2:	<u></u>		1	2 - 14.4) +	14.4 =		(r _d)		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided 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)	
			·									
0			-									
Open Flow			Mcfd @ 14.6	55 psia		Deliverab	ility		<u>, , , , , , , , , , , , , , , , , , , </u>	/lcfd @ 14.65 psia	1	
		ed authority, on		and correct		this the _c	2/0	make the	e above report	and that he has	knowledge of, 20 <u>/2</u> .	
		Witness (if a		JU	L 05 20) 1? -	7	gu iu	For Co	npany		

exempt status und and that the foregorect to the best of equipment insta	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. Lest a one-year exemption from open flow testing for the Householder 3-29
(Check	ounds that said well: 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
Date: 6-26	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.