KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(S	lee Instructio	ons on Revei	rse Side	·) ·				
Open Flow Deliverability			Test Date:				API No. 15 075-20737-00-0 0					
	erability			4-9-1	$\mathcal{O}_{}$	Lease		0/3	20101-00 0		Well Number	
Company Horseshoe	e Operati	ng, Inc.				Lewis			A 10	2	Acres Attributed	
County Location Hamilton SE		n	Section 7		TWP 22S		RNG (E/W) 41W			160		
Field Bradshaw			1 N 161	Reservoir Winfield			Gas Gath Oneok	ering Conne	clion			
Completion	n Date		Plug Back Total Dep 2783 TD				Packer Set at None		et at			
Casing Size 4.5		Weight 10.5		Internal Diameter 4.052		Set at 2794		Perforations 2717		т _о 2755	2755	
Tubing Siz	Tubing Size Weigh			Internal Diameter 1,995				Perforations		То		
Type Comp	Type Completion (Describe		Type Fluid Production Water				Pump Unit or Tra Pump Unit -			aveling Plunger? Yes / No Rod		
Single -		nulus / Tubing))		arbon Dioxid	le		% Nitroge	en	Gas G	ravity - G _g	
Annulus						Tono		· · · · · · · · · · · · · · · · · · ·		(Meter	Run) (Prover) Siz	
Vertical De	epth(H)				Flang	ure Taps je				2"	,	
		9	1-8 ₂₀	0/0 at	1:50	(AM) (PM) T	aken	9-0	20,	10 at 10:	00_(AM) (PM)	
Pressure (C),(Gt								at	_	
Well on Li	ne:	Started	20	al		(/ 1117) (1 1017)					211	
					OBSERVE	SURFACE		T		Buration of Shu	t-in_ <u>&_</u> Ho	
Static /	Orifice	Circle one: Meter	Pressure Differential	i Flowing		Well Head Wellhead P				Duration (Hours)	Liquid Produced (Barrels)	
Dynamic Property	Size (inches)	Prover Pressu psig (Pm)				(P _w) or (P _t)	psia psig		(P ₁) or (P _c)	(Hours)	(Daireis)	
Shut-In	.750		2				44			24		
Flow								<u>.l</u> .				
					FLOW STR	EAM ATTRI	BUTES					
Plate Coeffiec (F _b) (F	ient Pr	Circle one: Meter or over Pressure psia	Press Extension ✓ P _m x h	Extension Fact		tor Temperature		eviation actor F _{pv}	Metered Flov R (Mcfd)	y GOF (Cubic F Barre	eet/ Fluid	
							<u> </u>					
				(OPEN FL	OW) (DELIV	ERABILITY)					$a^{2} = 0.207$ $a^{2} = 0.207$	
(P _c) ² =	:	(P _w) ² =	Choose formula 1 or	P _d =				+ 14.4 =	·	(F	1	
(P _c) ² - (or (P _c) ² - ((P _c) ² - (P _w) ²	1. P _c ² -P _a ² 2. P _c ² -P _d ²	1. Pc2 - Pa2 LOG of formula		Slop	Backpressure Curv Slope = "n" or Assigned Standard Slope		rog	Antilog	Open Flow Deliverability Equals R x Anti (Mcfd)	
			divided by: Fc - F		<u> </u>							
Open Flo	 ow		Mcfd @ 14	l.65 psia		Deliverab	ility			Mcfd @ 14.65 p	osia	
							thorized		the above repo	ort and that he	has knowledge of	
the facts	stated thei	rein, and that s	aid report is tru	e and corre	ct. Executed	d this the		_ day of _	o Pir		RECEIVED	
		Witness	(if any)			-	\neg	willi	C / CFor	Company	VOV 1 9 2010	
Party and the Property of State		For Com	mission				-		Ch	ecked by	C WICHIT	

 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:
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.
Date:

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.

