KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		(See Instructio	ns on Revers	e Side)				
Open Flow	Test	Date:			API No. 15			
Deliverabilty	5-6	32-13			15-071-20084			
^{Company} H <mark>orseshoe Operating, In</mark>	IC.		Lease Sell			A-1	/ell Number	
County Loca Greeley C NW	ition Section		TWP RNG (#) 19S 40W		W	6	cres Attributed	
Field Bradshaw		ervoir Winfield			Gathering Conpu P Midstream			
Completion Date 3/75	Plug Back Total Dept 2900		-	Paci No	ker Set at			
Casing Size Weig	ht Inter	Internal Diameter S 4.09 2			Perforations 2862	то 2873		
Tubing Size Weig 4.7			Set at 2886		Perforations	То	То	
Type Completion (Describe) Single Gas	ompletion (Describe) Type Fluid Production			Pum Y e	p Unit or Traveling	Plunger? Yes /	ger? Yes / No	
Producing Thru (Annulus / Tubir		% Carbon Dioxide	.	% N	litrogen	Gas Gra	vity - G _g	
Annulus /ertical Depth(H)		_	ıre Taps			(Meter R	un) (Prover) Size	
2960	6-21 12	11:2/ 2	nge_	5	-22 20	3 13 _{at} // <i>;3</i>	60	
	<u>5-21</u> 20/3	at //:36 (at	O	
veir on Line. Started		at (/					2//	
Circle one:	Pressure	OBSERVED	SURFACE DA	ATA	Tubing	Duration of Shut-in	1 4 Hours	
Static / Orifice Oynamic Size Property (Inches) Psig (Pm)	Differential Temper	rature Temperature	Wellhead Pres (P _w) or (P _t) or	(P _c) (Velihead Pressure P_{u}) or (P_{i}) or (P_{c})	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In .625	, manus 17 ₂ 0			1.6	paig	24		
Flow								
		FLOW STRE	AM ATTRIBU	TES				
Plate Coefficient (F _b) (F _p) Mcfd Circle one: Meter or Prover Pressure psia	Press Extension P _m x h	Gravity i	Flowing mperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flor R (Mcfd)	W GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
		N FLOW) (DELIVE					= 0.207	
$\frac{(P_c)^2 = (P_w)^2}{(P_c)^2 - (P_a)^2} = \frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_a)^2}$	Choose formula 1 or 2: 1. P ² -P ² 1. P ² -P ² 1. 1.	P _d = % OG of mula or 2. I divide P _c ² -P _w ²	Backpressur Slope = or- Assign	"n" ed	n x LOG	(P _d) ² Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
-	divided by: P _c ² - P _w ²	by: ['c' w_]	Standard	Piobe			,,	
pen Flow	Mcfd @ 14.65 psia	á <u>. </u>	Deliverability			Mcfd @ 14.65 psi	a	
The undersigned authority, of			つ	rized to m	()44 //	ort and that he ha	s knowledge of	
e facts stated therein, and that s		correct. Executed t	nis the	S day	rice K	ipley	KCC WICH	
Witness For Com				<u> </u>	Ch	ecked by	JUL 2 5 20	
,							RECEIVI	

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 Sell A-1
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: <u>7/23//3</u>
Signature: <u>Anice Ripley</u> Title: <u>Production Assistant</u>

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.