KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(See Instruct	tions on Re	verse Side	9)			
Open Flow			Test Date	y :			API	No. 15		
Deliverabilty			3-9-1					-20379 - (0000	
Company Horseshoe Opera	ating, Inc.				Lease Sandife	r A			1	Well Number
County Location Greeley C NW/4		Section 33		TWP 19S		RNG (E/W) 39W		Acres Attributed		
Field Bradshaw			Reservoir Winfield				Gas Gathering Connection DCP Midstream			
Completion Date 11-1-85			Plug Baci 2891'	k Total Dept	h		Packer S	et at		
Casing Size 5.5	Weight 14.0	Internal Diameter 5.012		Set at 2939'		Perforations 2819¹		To 2827'		
Tubing Size 2-3/8	Weight 4.7		Internal Diameter 1.995		Set at 2713'		Perforations		То	
			Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide			% Nitrogen		Gas Gr	Gas Gravity - G	
Vertical Depth(H)	Pressure Taps Flange					(Meter	(Meter Run) (Prover) Size			
Pressure Buildup:	Shut in	3-8 20	//_ at	8.50	(AM) (PM)	Taken	3-6	20		O (AM) (PM)
Well on Line:					\mathcal{O}				at	•
				OBSERVE	D SURFACI	E DATA			Duration of Shut-	in 24 Hours
Static / Orifice Meter Difference Differ		Pressure Differential in	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Li	Liquid Produced (Barrels)
Shut-In .625	psig (Pm)	Inches H ₂ 0		•	psig	95ia 48	psig	psia	24	
Flow	<u> </u>					70	 			
				FLOW STR	EAM ATTR	IBUTES			· ·	
Plate Coefflecient (F _p) (F _p) Mcfd	flecient Meter or Extension) (F _p) Prover Pressure		Gravity Factor F		Flowing Temperature Factor F ₁₁	I LIAVISTION I		Metered Flov R (Mcfd)	GOR (Cubic Fe Barrel)	I Censilis i
<u> </u>			OPEN FLO	OW) (DELIV	ERABILITY	CALCUL	.ATIONS		(9.)	² = 0.207
(P _c) ² =:	(P _*) ² =	:	P _d = .	9	% (F	, - 14.4) +	14.4 =	<u>:</u>	(P _d)	
$ \begin{array}{c cccc} (P_{c})^{2} - (P_{d})^{2} & (P_{c})^{2} - (P_{w})^{2} & Choose formula 1 or 2: \\ 1. P_{c}^{2} - P_{a}^{2} & \\ P_{c}^{2} - (P_{d})^{2} & 2. P_{c}^{2} - P_{w}^{2} \\ \end{array} $		LOG of formula 1. or 2. and divide by:	formula 1. or 2. and divide p 2 , p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		og [Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)	
Open Flow		Mcfd @ 14.6	5 psia		Deliverab	ility	I, <u></u>	1	Mcfd @ 14.65 psi	a
The undersigne		report is true				8	day of _C	above repo	st and that he ha	RECEIVED
	For Commissi	on			-	•		Chec	KC	C WICHITA

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 Sandifer 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: 6-8-11
Signature: <u>Quice 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.