## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:					(See Instruc	ctions on Re	verse Sid	le)			
Open Flow					T. 4 D .							
Deliverabilty				Test Dat	7/0				<sup>I</sup> l No. 15 <b>1-20073-00-</b>	00		
Compan Horsesh		pera	iting, Inc.		//		Lease Househ	older			1	Well Number
County Location Greeley C NE			Section 28		TWP 20S		RNG (E	E/W)		Acres Attributed		
Field Bradshaw			Andrew Control of the		Reservo Chase	Reservoir Chase		the state of the state of		Gas Gathering Connection DCP Midstream		April 195
Completion Date 12-9-1974			Plug Bad 2835'	k Total Dep	th		Packer	Set at	h .			
Casing Size 4.5 Tubing Size 2-3/8" Type Completion Single - Gas Producing Thru (A Tubing Vertical Depth(H)			Weig 11.6	nt	Internal Diameter 4.000		Set at		Perforations 2806' - 2813'		То	
2-3/8"			Weight 4.7		Internal Diameter 2.000		Set at 2816'		Perforations		То	
			escribe)		Type Flui Water	d Production	n .	-	Pump U No	nit or Traveling	Plunger? Yes	/ No
	g Thru	(An	nulus / Tubin	g) .	% (	Carbon Dioxi	de		% Nitrog	jen	Gas G	avity - G <sub>g</sub>
	epth(	H)	-	······································		Pres Flan	sure Taps		, .		(Meter	Run) (Prover) Size
Pressure	Buildı	ıp:	Shut in	8/4:	20/0 at /			Taken	8,	15 20.	10 at 1:11	(AMY(PM)
Well on L	ine:		Started	2	20 at				,		at	$\overline{}$
					T	OBSERVE	D SURFACE	DATA			Duration of Shut-	in 34 Hours
Static / Orific Dynamic Size Property (inche		20	Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing  Wellhead Pressure  (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )  psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.50	0						77	64		24	
Flow					<u> </u>							
					<del></del>	FLOW STR	EAM ATTRIE	BUTES	<del></del>			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	·	Flowing emperature Factor F <sub>11</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =		(OPEN FLO	OW) (DELIVI	ERABILITY)					= 0.207
		<u> </u>	T	Choose formula 1 or 2	:		T	- 14.4) +			(P <sub>d</sub> ) <sup>2</sup>	=
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>divided by: P<sub>c</sub><sup>2</sup> - P<sub>w</sub><sup>2</sup></li> </ol>	2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 1. or 2. and divide		Stope C Assign	ssure Curve De = "n" Or Signed ard Slope		.og ] ao.	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
						•				·		
Open Flor				Mcfd @ 14.	65 nsia		Deliverabili				A-64 @ 44.05	
		ianos	l authority o					<u> </u>			Mcfd @ 14.65 psia	
				aid report is true				1 /	o make th day of _ <b>(</b>	e above repor	t and that he has ${\cal U}$	knowledge of
								_Qa	nice	Ripl	ey -	VECEIVED
		<del></del>	Witness (					0		For Co	onlyany	CT 1 4 2010
			For Comm	ission						Check	red by KC	C WICHITA

a C	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 Householder 1  gas well on the grounds that said well:
S	(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 taff as necessary to corroborate this claim for exemption from testing.
	Signature: Daniel Ripley  Title: Production Assistant

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.