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

Type Tes	it;				(See Instruc	tions on Rev	rerse Side	<del>)</del> )					
☐ Ot	pen Flov	1		Tost Dat	Test Date: API No. 15								
Deliverability				7/26/	1/26/11				API No. 15 071-20664-00-00				
Company Horseshoe Operating, Inc.				1950	Lease Householder						Well Number		
County Location Greeley C W/2 NW/4			Section 28		TWP 20S		RNG (E/W) 40W			Acres Attributed 640			
Field Bradshaw				Reservoi			Gas Gathering DCP Midstres		•	ection			
Completion Date 4-4-1997				Plug Bad 2826	ck Total Dep	th	n		Set at	······			
Casing S 4.5	Casing Size Weight 4.5 11.6			Internal Diameter 4.000		Set at 2826		Perforations 2792		то 2808			
Tubing Size Weight 2.375 4.7			Internal Diameter 1.995		Set at 2810'		Perforations		То				
Type Completion (Describe) Single - Gas					id Production			Pump Unit or Traveling Plum Pump Unit - Rod		Plunger? Ye	nger? Yes / No		
Producing Thru (Annulus / Tubing) Annulus				% (	Carbon Dioxi	ei		% Nitrogen		Gas Gravity - G <sub>g</sub>			
Vertical Depth(H)					Flan	sure Taps ge	е		<u>.</u>	(Meter Run) (Prover) Size 2"			
Pressure	Buildup	: Shut in	<i>1/25</i> 2	0 // at @	7:15	(AM) (PM)	Taken	7/2	20	// at 2.	15 (AM)	(PM)	
Well on Line:		Started	Started 20		at		(AM) (PM) Taken		20	at	at (AM) (PI		
<del></del>					OBSERVE	D SURFACE	DATA			Duration of Sh	ut-in <u>24</u>	_ Hours	
Static / Dynamic Property	Orific Size (inche	Meter Prover Pres.	Differential in	Flowing Well Head Temperature Temperatur		I Wollhood Droseigo		Tubing Wellhead Pressure (P <sub>m</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration Liquid Prod (Hours) (Barrels			
Shut-In	.75	psig (Pm	) Inches H <sub>2</sub> 0			psig psia		psig psia		24			
Flow	- 1 -				· ·	-	•		<u> </u>	07			
<del></del>			I	<u> </u>	FLOW STR	EAM ATTR	BUTES	L	<u></u>				
Plate	,	Circle one:	Press	Grav		Flowing					FI	owing	
Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or Prover Pressure psia	Extension √ P <sub>m</sub> x h	Fac	tor T	emperature Factor F <sub>rt</sub>	Fa	viation Metered Flo actor R F <sub>pv</sub> (Mcfd)		y GO (Cubic Barr	Feet/ G	Fluid travity	
									_				
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> ) <sup>2</sup>	_			ERABILITY)					) <sup>2</sup> = 0.207	······································	
( 6/	<del></del>		Choose formula 1 or 2	P <sub>a</sub> =	<del></del> ′	1	- 14.4) +	14.4 =	<u>:</u>	(F	) <sup>2</sup> =		
(P <sub>e</sub> ) <sup>2</sup> • (P <sub>a</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> • (P <sub>d</sub> ) <sup>2</sup>		(P <sub>c</sub> )² - (P <sub>_</sub> )²	1. P <sub>e</sub> -P <sub>e</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> ·P <sub>e</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P.2-P.2	Ślope	sure Curve ) = "n" ); gned ed Slope	nχL	.og	Antilog	Deliverat Equals R x	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			divided by: Po P			Startua	а зюре						
O Fl-													
Open Flov			Mcfd @ 14.	· · · · · · · · · · · · · · · · · · ·		Deliverabil				Mcfd @ 14.65 p	_		
			on behalf of the said report is true				2	make the	e spove repo		has knowledge	3 of //	
					·			nice	m.	ley	RECEIV	ÆD	
		Witness For Com				-	1		or C	ompan	AUG 1 1	2011	
									Linec	ked by K	CC WIC	HITA	

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 2 gas well on the grounds that said well:
(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
staff as necessary to corroborate this claim for exemption from testing.  Date: $\frac{8/3///}{}$
Signature: <u>Janual 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.