**RECEIVED** 

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

Type Test:	low.		(	See Instruc	tions on R	everse Sio	(e)					
1 I I I I I I I I I I I I I I I I I I I			5-22-/	Test Date:			API No. 15 071-20664-00-00					
Company Horseshoe Operating, Inc.				<del></del>	Lease House	Lease Householder			2	Well N	lumber	
ounty Location reeley C W/2 NW/4		Section 28		TWP 20S			RNG (E/W) 40W		Acres 640	Attributed		
eld radshaw		Reservoir Winfield					Gas Gathering Connec DCP Midstream					
Completion Date 4-4-1997			Plug Back 2826	k Total Dep	th	······································	Packer None	Set at			Table 1 and 1-2 collections are series	
asing Size	ize Weight 11.6		Internal Diameter 4.000			Set at 2826		Perforations 2792		<sub>То</sub> 2808		
ubing Size	Weight 4.7		Internal Diameter 1.995			Set at 2810'		Perforations		То		
ype Completion (Describe)			Type Fluid Production Water			Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod						
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide			% Nitrogen Gas Gravity - G			G <sub>g</sub>			
Vertical Depth(H)			Pressure Taps Flange				(Meter Run) (Prover) Si			rover) Size		
ressure Build	up: Shutin _	5-21 2	o/3 at_			Taken	5-2	2 20			(PM)	
/ell on Line:	Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
<del></del> 1	Circle	B		OBSERVE	D SURFAC		,		Duration of	Shut-in	34 Hou	
/namic Si	Orifice Circle one: Pressure Size Meter Differential in nches) psig (Pm) Inches H <sub>2</sub> 0		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>*</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration Li (Hours)		iquid Produced (Barrels)	
Shut-In . 73		inches 11 <sub>2</sub> 0		······································	psig	37	psig	psia	24			
Flow												
Plate	Circle one:			FLOW STR		BUTES	<del></del>				T	
Coefficient  (F <sub>b</sub> ) (F <sub>p</sub> )  Mcfd	ccient Meter or Extension  Fp Prover Pressure		Gravity Factor F		Flowing emperature Factor F <sub>ft</sub>	Fa	iation ctor pv	Metered Flow R (Mcfd)	R (Cul		Flowing Fluid Gravity G <sub>m</sub>	
			(OPEN FLO	W) (DELIVI	ERABILITY	CALCUL	ATIONS	t				
) <sup>2</sup> =	: (P <sub>w</sub> )	* * *			6 (F	<sup>2</sup> c - 14.4) +	14.4 =:			$(P_a)^2 = 0.207$ $(P_d)^2 = $		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	) <sup>2</sup> (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> 1. P <sub>c</sub> <sup>2</sup> - F		LOG of formula 1. or 2. and divide p2_p2		Backpressure Curve Slope = "n"		**-		Antilog	O De Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
										-		
en Flow	Mcfd @ 14.65 psia			•	Dallingaphilia					14.05 - 13-		
The unders		on behalf of the said report is true	Company, sta			thorized to	make th		Ictd @ 14.65	· · · · · · · · · · · · · · · · · · ·	redge of 20	
·	Witnes	s (if any)		<del></del>	_	Q	inic	e Ry	dez	KC	C WIC	
		nmission			_	U		Check	od by		N 2 6 2	

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: 6-24-13							
Signature:							

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.