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

	<b>O.</b>		· (Se	e Instruction	s on Reverse	e Side)					
e Test: Open Flow			Test Date:		*4		API No. 075-20	15 70 <b>9-</b> 00-00			
Deliverability C			1-4-10		 Lease Mai				We 1	II Number	
orseshoe Operating, Inc.		<u> </u>	Section		TWP	NP F			Ac 64	res Attributed 0	
unty milton	C NE		8 Reservoir	. ,4	23S	(	41W Gas Gatheri Oneok	ng Connection	n .	1.5.	
adshaw		<u> </u>	Winfield Plug Back	Total Depth			Packer Set	at			
mpletion Date -20-1999			2608 Internal Diameter		Set at		None Perforati		To 2554 56	то 2554-56;61-69	
asing Size 5	10.5		4.052 Internal Diameter		2607 Set at		2506-1 Perforati	7;42-49 ons	To To		
oing Size Weight 375 4.7			1.995		2669			or Traveling Plu	ınger? Yes /	No	
/pe Completion (Describe) ingle - Gas			Type Fluid Production Water % Carbon Dioxide			Pump Unit % Nitrogen		nit - Rod	Gas Gravity - G <sub>g</sub>		
roducing Thru (	Annulus / Tubing	)) 	, Ca		ure Taps			·	(Meter R	un) (Prover) Size	
ertical Depth(H)						·			2"		
Pressure Buildur	o: Shut in	9-82	10 at	1:30 (	(AM) (PM) T	aken	9-9	20/ <u>L</u>	) <sub>at</sub> 9:3	O (AM) (PM)	
Well on Line:	Started	2	o at		(AM) (PM) T	aken		20	_ at	(ANI) (PNI)	
·				OBSERVE	SURFACE	DATA	- <del> </del>		uration of Shut-i	n <u> 34</u> Hou	
Olalio,			Pressure Differential in Flowing Temperature		Well Head Temperature t  Casing Wellhead Pr (P <sub>w</sub> ) or (P <sub>t</sub> )		c) (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Property (inch	es) psig (Pm)	1			psig	70	psig	psia	24		
Shut-In . //S	50									<u> </u>	
Flow				FLOW ST	REAM ATTRI	BUTES				Flowing	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	✓ F <sub>m</sub> X11	Fa f	ivity ctor	Flowing Temperature Factor F <sub>t1</sub>		eviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic For Barrel	et/ Fluid Gravity	
			(OPEN F	I OW) (DELI	VERABILITY	) CALC	ULATIONS		(P,	) <sup>2</sup> = 0.207	
	: (P <sub>w</sub> )	2 = :	Pa		_% (F	P <sub>c</sub> - 14.4	) + 14.4 =	<del></del> :	(P,	)2 =	
$(P_c)^2 = {(P_c)^2 - (P_a)^2}$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup>	LOG of formula 1. or 2		Slo	essure Cu ope = "n" or ssigned dard Slop	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antil (Mcfd)	
					Delivera	ability			Mcfd @ 14.65	osia	
Open Flow		Mcfd @	14.65 psia				ed to make	the above rep	ort and that he	has knowledge of	
The unc	ersigned authorited therein, and the	y, on behalf of	true and cor	y, states tha rect. Execu	t ne is duly a	17	day of _	Novem	leer	has knowledge o	
the facts stat	ed therein, and th	at said report to					Jan	ice R	pley	RECEIVED	
	Wit	ness (if any)							necked by	10V 1 9 2010	
Company of the second s	For	Commission	,			-		Ch		C WICHIT	

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 Mai 1  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:

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.

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