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

Type Test:  Open	r Flow			See Instruct	tions on Re	averse Side	e)				
Deliverability  5-32-13				-/3	API No. 15 15-071-20728 - <b>4000</b>						
	oe Operatin	g, Inc.			Lease Edmur	n_			3-17	Well Number	
County Location Greeley C SE			Section 17		TWP 19S			(E/W) V		Acres Attributed 640	
Field Bradshaw			Reservoir L. Winf			Gas Gathering Connection DCP Midstream				010	
Completion Date 8/31/00			Plug Bac 2926	Plug Back Total Depth 2926		Packer Set at <b>None</b>		et at			
Casing Size Weight 4.5 10.5		Internal E 4.052	Internal Diameter 4.052		Set at 2974		Perforations 2866		· · · · · · · · · · · · · · · · · · ·		
Tubing Size Weight 2.375 4.7		internal D 1.995	Internal Diameter 1.995		Set at <b>2974</b>		Perforations				
Single Gas			Type Fluid Water	Production	l		Pump Uni	it or Traveling	Plunger? Yes	· / No	
Annulus	hru (Annulus /	Tubing)	% Ca	arbon Dioxid	le	7	% Nitroge	en	Gas G	ravity - G	
Vertical Deptil 2869	h(H)		·	Press	ure Taps			<del></del>	(Meter	Run) (Prover) Si	
Pressure Buil	ldup: Shut in	5-2		9:04	(AM) (PM)	Taken	5-8	22 20/	3 at 9.	104 AM (PM	
Well on Line:	Started		20 at		(AM) (PM)				at		
	e e e e e e e e e e e e e e e e e e e	. Karasa I. I. Isaba I. I	Life of the second	OBSERVED	SURFACE	DATA	and the second	يىلىدىدىدۇ ئونچىدەرۇرچۇرچۇردى	Duration of Shut	-in_34_Ho	
Dynamic 8	rifice :		ntial Flowing Temperature	Well Head emperature t	Casi Wellhead F (P <sub>w</sub> ) or (P <sub>t</sub>	Pressure ) or (P <sub>c</sub> )	Wellhead (P <sub>w</sub> ) or (	bing d Pressure P <sub>1</sub> ) or (P <sub>5</sub> )	Duration (Hours)	Liquid Produce (Barrels)	
Shut-In				-	54	psia	psig	psia.	24	-	
Flow											
Plate	Circle one:	<del></del>		LOW STRE		BUTES					
Coeffictient (F <sub>p</sub> ) (F <sub>p</sub> ) Mcfd	Meter or Prover Pressi psia	Pres Extens	ion Factor	Ter	Flowing Temperature Factor F		Deviation Metered Factor R F <sub>pv</sub> (Mofd		GOR (Cubic Fe Barrel)	. Ω anulina	
			(OPEN FLOW	V) (DELIVER	RABILITY)	CALCULA	TIONS	:			
c) <sup>2</sup> =	: (P,	) <sup>2</sup> = Choose formula	: P <sub>d</sub> =	%	(P <sub>c</sub>	- 14.4) +	14.4 =	<u> </u>	(P <sub>4</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$	(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> · P 2. P <sub>c</sub> <sup>2</sup> · P divided by: P <sub>c</sub> <sup>2</sup>	LOG of formula 1. or 2.	2- P <sub>2</sub>	Slope	gned	n x LO	a [ ]	Antilog	Open Flow Deliverability Equals R x Antilo (Mcfd)	
en Flow	<u></u>	Mcfd @	14.65 psia	· !	Deliverabilit				rfd @ 44.05 a.u		
The unders	igned authority		the Company, state		<del></del>		maka sha		cfd @ 14.65 psi		
			true and correct. E			X	ay of	June	anu inat ne na	s knowledge of	
						-	-				
	Witne	Bs (if erry)		<del></del>			Jani	CO For Con	Kipl	LACCIAN	

i declare un	der penalty of perjury under the laws of the state of Kansas that I am authorized to request nder Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the for	egoing pressure information and statements contained on this application form are true and
correct to the be	st of my knowledge and belief based upon available production summaries and lease records
of equipment ins	stallation and/or upon type of completion or upon use being made of the gas well herein named.  uest a one-year exemption from open flow testing for theEdmun 3-17
	grounds that said well:
(Chec	sk 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
Γ.	is on vacuum at the present time; KCC approval Docket No
<b>√</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
	ee to supply to the best of my ability any and all supporting documents deemed by Commission ry to corroborate this claim for exemption from testing.
Date: 6-/8	? <u>-13</u>
	**************************************
	Signature: <u>Anice Ripley</u> Title: <u>Aroduction 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.