KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:				(See Instruc	tions on Re	verse Side))					
	pen Flow eliverabilty			Test Dat	°:3			API 15	1 No. 15 -071-20098	-0000			
Compan Horses		erating, Inc	c.		<u> </u>	Lease Clift		· · · · · · · · · · · · · · · · · · ·		"A'		lumber	
County Greeley		Locat C SE	ion	Section 33		TWP 18S		ANG (E/W) 40W		Acres Attributed 640			
Field Bradshaw			Reservoir Winfield				Gas Gathering Co DCP Midstra						
Completion Date 1/1976				Plug Back Total Depth 2923				Packer 8 None	Set at				
Casing Size Weigh 4.5 10.5			nt	Internal Diameter 4.09			Set at 2950		Perforations 2882		то 2899		
Tubing Size We 2.375 4.7			nt	Internal I 1.995	Diameter Set at 2904			Perforations		To	То		
Type Completion (Describe) Single Gas			Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Yes						
Producing Thru (Annulus / Tubing) Annulus			g)	% Carbon Dioxide				% Nitrog	jen	Gas	Gas Gravity - G _g		
Vertical E 2960	epth(H)				Pres	sure Taps				(Me	ter Run) (I	Prover) Size	
Pressure	Buildup:	Shut in	1-8 2	o/3at_	9:30	(AM) (PM)	Taken	1-9	20/	3 at 9	:30	(AM) (PM)	
Well on L	ine:	Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
					OBȘERVE	D SURFACI		1		Duration of S	hut-in _	34 Hou	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential In Inches H ₀ 0	Flowing Well Head Temperature		Casing Welthead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	,	Liquid Produced (Barreis)	
Shut-In	.750	paig (i m)	menes ri ₂ 0			psig _	56	psig	psia	24			
Flow													
			I		FLOW STR	EAM ATTR	BUTES		· · · · · · · · · · · · · · · · · · ·			-,	
Plate Coeffieci (F _b) (F Mcfd	ient p) <i>Pro</i>	Circle one: Meller or over Pressure psia	Press Extension ✓ P _m x h	Grav Fact	tor T	Flowing Temperature Factor F _{It}		iation ctor pv	Metered Flow R (Mcfd)	(Cubi	OR c Feet/ rrel)	Flowing Fluid Gravity G _m	
							1				<u></u>		
P _c) ² =	:	(P _w) ² =	:	(OPEN FLO	, ,	ERABILITY % (F) CALCUL ² - 14.4) +		;		$(P_a)^2 = 0.$ $(P_d)^2 = $	207	
(P _c) ² - (F or (P _c) ² - (F		° 2)2 • (P ,)2	Choose tormula 1 or 2: 1. $P_c^2 + P_e^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P 2 - P 2	Backpressure Curve Slope = "n" or Assigned Standard Slope		пх	roe	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			=	<u> </u>	•								
Open Flov	N		Mcfd @ 14.0	65 psia	·	Deliverab	ility			Mcfd @ 14.65	psia		
			n behalf of the				ithorized t	o make the	he above repo	rt and that he	has kno	wledge of 20 13	
		Witness (if	anv)		KANSAS C	RECEIVEI CORPORATION		Janu	L /y	My			
		For Commi			—— <i>I</i>	APR 1 1-	2013	/ 	Chec	ked by			
	- -		1-15 - Ladinari Belandari, mbarinda dindheri 1871 - 1	principal control of	co	NSERVATION WICHITA,		÷	e y rome se pempina	anginghous co nstitution s	Sept 4		

exempt status u	inder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. regoing pressure information and statements contained on this application form are true and
	est of my knowledge and belief based upon available production summaries and lease records
	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 the Clift A-1
	grounds that said well:
	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 ee to supply to the best of my ability any and all supporting documents deemed by Commissionary to corroborate this claim for exemption from testing.
Date: <u>4-3-</u> /	<u>'3</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.