KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type les					1	(See Instruc	יווט פווטווי	everse siut	<i>3)</i>	•			
	pen Flov eliverabi				Test Date		A13049			No. 15 -20088 - 0 (200		
Compan	у	erating, Inc).		UD/2U/20	013 to 05/2	Lease Roe	•	U <i>t</i> 1	-20000 - 01	#1	Well Number	
County Location				Section		TWP	TWP		N)	11 1	Acres Attributed		
Greeley C SW 1/4 Field				29 Reservoi	r	178		40W Gas Gathering Conn		ection			
Bradshaw				Winfield	Winfield			DCP Midstream					
Completi	on Date	€			Plug Bad 3018	k Total Dep	th		Packer S	et at			
Casing Size Weight .5 9.6				Internal I	Diameter	Set at 3019		Perforations 2937		то 2968			
Tubing Size Weight 2.375 4.7				Internal I	Diameter	Set at SN-2954		Perforations		То			
Type Completion (Describe) Single (Gas)						Type Fluid Production Salt Water			Pump Unit or Traveling Plunger? Yes / No No				
Producing Thru (Annulus / Tubing) Tubing					% C	% Carbon Dioxide			% Nitrogen		Gas (Gas Gravity - G _g	
Vertical Depth(H) 2952.5				Pressure Taps Flange						(Mete	r Run) (Prover) Size ch		
Pressure	Buildup	o: Shutin .	05/20)2	13 at 6	:15 AM	(AM) (PM)	Taken_05	5/24	20	13 _{at} 8:15	AM (AM) (PM)	
Well on L	_ine:				0 at	•	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shu	t-in 98 Hou	
Static / Dynamic Property	nic Size Pro		Meter Differen over Pressure in psig (Pm) Inches I		Temperature Temperature		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		F9	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			psig 208	221.4	psig	psia	98	n/a	
Flow									1				
						FLOW STR	EAM ATTR	RIBUTES					
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Press psia	Meter or Prover Pressure		Gravity Factor F _g		Temperature Fa		viation Metered Flov actor R F _{pv} (Mcfd)		V GOF (Cubic F Barre	eet/ Fluid	
					(OPEN FLO	OW) (DELIV	ERABILITY	/) CALCUL	ATIONS		l(P	.) ² = 0.207	
P _c) ² =		_: (P		oose formula 1 or 2.			1 "	P _c - 14.4) +		<u> : : </u>))2 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	$(P_c)^2 - (P_w)^2$ 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2.		Backpressure Curve Slope = "n"or Assigned Standard Slope		nxL	oe 📗	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverat	oility			Mofd @ 14.65 p	sia	
				pehalf of the					o make the	·	rt and that he h	as knowledge of, 20	
		and the	.a. ould	. opon io tide	23 001160	LACCUICU		\wedge	anic	- ()	plen	KCC WIC	
		Wit	ness (If an	ly)				7		For	ompany		
								V		•	"	<u>JUL</u> 05 :	

	nder 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.							
	regoing pressure information and statements contained on this application form are true and east 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.							
	juest a one-year exemption from open flow testing for the Roe #1							
_	grounds that said well:							
9	· ·							
(Che	ck 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							
	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: 06/04/13								
	Signature: Janice Ripley							

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.