KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruc	tions on Rev	verse Side)			
Open Flow Deliverabilty				Jest Date: 3-7-13				API No. 15 075-29152-00-00				
Company		Эре	rating, Inc			<u>/</u>	Lease Doyle					Well Number
County Location Hamilton C SW				Section 21		TWP 23S			W)		Acres Attributed 640	
Field Br adshaw				Reservoir Chase				Gas Gathering Connection Oneok Field Services				
Completion Date 8/12/76				Plug Bac 2503	th 		Packer S	et at				
Casing S 4.5	ng Size Weight 10.5			1	Internal Diameter 4.052		Set at 2523		Perforations 2448		To 2458	
Tubing Si 2. 375	ubing Size \				Internal Diameter 1.995		Set at 2456		Perforations		То	
Type Completion (Describe) Single - Gas				Type Flui Water	d Production	n		Pump Unit or Traveling I		-		
	Thru	• •	ulus / Tubing)	% C	arbon Dioxi	ide		% Nitrog	en	Gas Gr	avity - G
Vertical D		1)					sure Taps	_				Run) (Prover) Size
Pressure	Bu#du	p: \$	Shut in	3-6 2	0/3 _{at} _	11:30	(AM) (PM)	Taken	3.	7	3 at //	30 (AN) (PM)
Well on L	ine:	\$	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACI		1		Duration of Shut	in 24 Hours
Static / Dynamic Property	Siz	Orifice Size (inches) Circle one: Meter Prover Press psig (Pm)		Pressure Differential in Inches H _o 0	Flowing Temperature t	Well Head Temperature t	Wellhead Pressure		Tubing Welthead Pressure (P _w) or (P _t) or (P _c) psig psis		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	lá	25		*			46				24	
Flow									<u></u>			
	Т				<u> </u>	FLOW STE	REAM ATTR	IBUTES]			<u> </u>
Plate Coeffieci (F _b) (F Mcfd	ient ,)	Circle one: Metar or Prover Pressure psia		Press Extension P _m xh	Grav Fac F	tor	Flowing Temperature Factor Fit		riation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravity l
P _c)² =		_:_	(P _w) ² =	<u> </u>	(OPEN FL	, ,	/ERABILITY) CALCUL		: :	(P _a)) ² = 0.207) ² =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		thoose formula 1 or 2: 1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ 1, or 2. and divide by: $P_c^2 - P_w^2$		P _c ² · P _w ²	Backpressure Cun Slope = "n" or Assigned Standard Slope		n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
					-							
Open Flov		•		Mcfd @ 14.	65 psia	<u> </u>	Deliverab	oility			Vicfd @ 14.65 ps	ia
The L	ındersi				Company, s			uthorized t	to make to	he above repoi	rt and that he h	as knowledge of
		##	.,		2 031140				Dan	ile K	ipleis	·
			Witness (i	any)			-	(T	For	omfany /	(CC WICHI
			For Comm	asion			-			Chec	ked by	IIIN 4 0 2012

JUN 19 2013

exempt status under R and that the foregoing correct to the best of n	enalty of perjury under the laws of the state of Kansas that I am authorized to request tule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. g pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records
	on and/or upon type of completion or upon use being made of the gas well herein named.
	one-year exemption from open flow testing for the Doyle 1
gas well on the ground	ds that said well:
iso	a coalbed methane producer cycled on plunger lift due to water
<u></u>	a source of natural gas for injection into an oil reservoir undergoing ER
iso	on vacuum at the present time; KCC approval Docket No
√ is r	ot capable of producing at a daily rate in excess of 250 mcf/D
•	supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
	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 **1S** 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.