KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruc	tions on Rev	erse Side,	,				
Op	en Flow			Toet Date				API N	io 15			
De	Deliverability 5-22-13					API No. 15 15-075-20775 - 0000						
Company Horseshoe Operating, Inc.					<i>,</i>	Lease Henry				Well Number 2		
County Location Hamilton NW NW SESE				Section 15		TWP 23S			RNG (E/W) 40W		Acres Attributed	
Field Reservo Bradshaw					•			Gas Gathe	ering Conne Istream	ection		
				Plug Bac 2546	Plug Back Total Depth 2546			Packer Set at				
asing S	ng Size Weight 10.5			Internal II 4.052)iameter	Set at		Perforations 2508		то 2515		
ubing Si -3/8	oing Size Weight 3/8 4.7			Internal Diameter 2.000		Set at 2533		Perforations		То		
				Type Flui	d Productio	ın	Pump Unit or Traveli Pump Unit			ng Plunger? Yes / No		
roducing	Thry (An	nnulus / Tubio	ng)	% C	arbon Diox	ide		% Nitroge	n	Gas Gr	avity - G _g	
/ertical D	epth(H)	-			Pres	ssure Taps				(Meter l	Run) (Proyer) Size	
ressure	Buildup:	Shut in	5-21 2	0 <i>13</i> at /	0:16	(AM) (PM)	Taken	5-2	2 20	13 at 10.1	6 AM (PM)	
Vell on L	ine:	Started	20) at		(AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERVI	D SURFACE	DATA			Duration of Shut-	in 24 Hours	
Static / lynamic roperty	Orifice Size (inches)	Circle one: Meter Prover Press psig (Pm	Differential sure In	Flowing Temperature t	Weil Head Temperature t	(P _w) or (P ₁	ressure) or (P _c)	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-in	.500	F	,			psig	134	hard	psia	24		
Flow										·		
			1	T	FLOW STI	REAM ATTRI	BUTES					
Plate Coeffieci (F _b) (F _p Mcfd	ent Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fact F _e	or	Flowing Temperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	Gravitu	

'c)² =	:	(P _w) ² :	=;	(OPEN FLO		/ERABILITY) % (P,	CALCUL.		<u></u> :	(P _a) (P _d)	² = 0.207 ² =	
(P _c) ² - (F or (P _c) ² - (F		P _c) ² - (P _w) ²	1. P _a ² -P _a ² 2. P _c ² -P _d ² divided by: P _c ² -P _w ²	1. P _a ² -P _a ² LOG of tormula 2. P _c ² -P _d ² 1. or 2. and divide		Backpressure Curve Slope = "n" or Assigned Standard Slope		пхЦ	rod	Antikog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
pen Flov	v		Mcfd @ 14.6	35 psia		Deliverabil	ity			Mcfd @ 14.65 psi	a	
			on behalf of the			_	14	make the	above repo	rt and that he ha	s knowledge of	
e facts st							1	1	16	110		
facts st		Witness	(if any)					an	CCL For C	Company Company	KCC WI	

JUN 2 6 2013 RECEIVED

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 Henry #2 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
staff as necessary to corroborate this claim for exemption from testing. Date: 6-24-/3
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 **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.