KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Instru	ctions on Re	everse Side))					
Open F	low							•=-					
Deliverability				Test Dat	Test Date: 3				API No. 15 15-071-20067 ∂ 9 <i>00</i>				
ompany lorseshoe	Э Оре	erating, Ir		0)01	<u>/ </u>	Lease Harris				A -1	Well N	umber	
County Location Greeley C SW			Section 15		TWP 20S			RNG (E/W) 40W		Acres Attr 640			
					Reservoir Winfield			Gas Gathering Connection DCP Midstream					
Completion Date 11/74			Plug Bac 2841	k Total De	pth	Packer Set at None		# at					
asing Size Weight 5 9.5			Internal 4.052	Diameter		Set at 2852		Perforations 2815					
bing Size Weight 4.7			Internal I 1.995	Diameter		Set at 2839		Perforations					
ype Completion (Describe) iingle Gas				Type Flui Water	id Production	on		Pump Unit or Traveling Yes			/ No		
oducing Thi I nulus	ru (Anı	nulus / Tubir	ng)	% C	Carbon Diox	tide	•	% Nitroge	n	Gas G	ravity - (G,	
ertical Depth(H) 855				-	Pressure Taps Flange				(Meter Run) (Prover) Size				
essure Build	dup:	Shut in	5-21 2	0/3 at_	8:27	(AM) (PM)		50	12 20/	3 at 8.0	37	(AN) (PM)	
ell on Line:		Started	2	0 at	· · · · · · · · · · · · · · · · · · ·	. (AM) (PM)	Taken		20 _	at		(AM) (PM)	
			. <u>.</u>		OBSERVE	ED SURFAC	E DATA			Ouration of Shut	-in	24 Hours	
namic S	rifice Circle one: Meter Size Prover Pressi psig (Pm)		Differential sure in	Flowing Temperature t	Well Head Temperature t	Wellhead (P _w) or (F	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure $(P_w) \propto (P_i) \propto (P_c)$ psig psia			Liquid Produced (Barrels)	
iut-In .5	00					psig	50	baid	psia	24			
low				l									
					FLOW ST	REAM ATTR	IBUTES			-			
Plate ceffiecient (F _b) (F _p) Mcfd		Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m xh	Grav Fact F ₀	tor	Flowing Temperature Factor F _{II}	Fac	ation ctor	Metered Flow G R (Cub (Mcfd) Ba			Flowing Fluid Gravity G _m	
						.							
² =	:	(P _w) ² =	=:	(OPEN FLO		/ERABILITY % (F) CALCUL - - 14.4) +		:	(P _a)	1 ² = 0.2 1 ² =	07	
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$	(P	°)3- (b [*])3	Choose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_g^2$ divided by: $P_c^2 - P_g^2$	LOG of formula 1. or 2.	P. 2 - P. 2	Backpressure Curve Slope = "n"		n x LC	.og []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
							-						
en Flow	1		Mcfd @ 14.	55 psia		Deliverab	oility		M	cfd @ 14.65 ps	j ia		
The under			on behalf of the	Company, s		ne is duly au	uthorized to	make the		· · · · ·		edge of	
		 .					\mathcal{L}	Janie	d Ri	pleis	K	CC WICH	
		Witness				-	l		Fol Co	lipany /		JUN 2 6 20	
		For Come	mission						Checks	ed by		RECEIVE	

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 Harris A-1 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. vis not capable of producing at a daily rate in excess of 250 mcf/D
staff as necessary to corroborate this claim for exemption from testing. Date: 6-24-13
Signature: <u>Production</u> Assistant

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.