KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Side	e)					
Open Flow Deliverabilty					Test Date	Test Date: 1-9-13				API No. 15 15-071-20154000				
Company Horseshoe Operating, Inc.						Lease Vester					1	Well Number		
County Location Greeley N/2 NE				on	Section 11			TWP 17S		RNG (E/W) 40W		Acres Attributed 640		
Field Bradshaw				Reservoir Chase				Gas Gathering Connection DCP Midstream						
Completion 12/197		е		Plug Back Total Depth 2995					Packer Se None	et at				
Casing S 4.5	Casing Size Weight 1.5 10.5			nt	Internal Diamete 4.04			Set at 3001		Perforations 2952		то 2976		
Tubing Si 2.375	ze		Weigh	it	Internal I 1.995	Diameter Set at 2927			Perforations		То			
Type Completion (Describe) Single Gas					Type Fluid Production Water				Pump Unit or Traveting Plunger? Yes / No Yes					
Producing	•	(Anr	nulus / Tubin	9)	% C	arbon Diox	ebi		% Nitroge	n	Gas Gra	avity - G _g		
Vertical D		l)				Pressure Taps					(Meter F	Run) (Prover) Size		
Pressure	Buildu	p: :	Shut in	1-8_2	20/3at_	9:00	(PM)	Taken	1-	9 20/	3 at 9.0	00 (AM) (PM)		
Well on L	ine:										at			
			· · · - ·	· · · · · · · · · · · · · · · · · · ·		OBSERVE	ED SURFAC	E DATA			uration of Shut-	in 24Hours		
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential in Inches H _a 0	Flowing Well Head Temperature t		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barreis)		
Shut-In	.62	5	paig (Filir)	mones 11 ₂ 0			psig	90	haid	ры	24			
Flow														
				T	 r	FLOW ST	REAM ATTF	UBUTES			<u> </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd		Gircle one: Meter or Prover Pressure psia		Press Extension √ P _m ×h	Grav Fac F	tor	Flowing Temperature Factor F _{II}		eviation Metered Flow Factor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	(Canadisa		
					(OPEN FL	OW) (DELI\	VERABILITY) CALCU	LATIONS		(P_)	² = 0.207		
(P _c) ² =	 -	_:_	(P _w) ² =		P _d =			P _c - 14.4)		<u> </u>	(P _d)	² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² · (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2.		Backpressure Cur Stope = "n"		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
											· · · · · · · · · · · · · · · · · · ·			
Open Flov				Mcfd @ 14.	65 peia	· ·	Delivera	hility		N	1cfd @ 14.65 ps	ia		
· · · · · ·		aner	l authority o			states that i			to make th			as knowledge of		
				aid report is true	e and correc	t. Executed	d this the	3	_ day of	april) · la.	,20		
····			Witness (f am/\	KA	NSAS CORP	ORATION CO	MMISSION	Janu	Forbo	makiny 1			
						APF	R 1 1 20	13 (/		ead by			
			Fat Comm	nission		- ** *	RVATION DIVI			Check	eci Dy			

CONSERVATION DIVISION WICHITA, KS

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
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
is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 4-3-13
Signature: <u>Anice Ripley</u> Title: <u>Hoduction</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.