KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Instruc	tions on Rev	erse Side	3)					
Open F	Flow				Took Date.				A DI	No. 45				
Deliverabilty				Test Date	74		API No. 15 071-20804-00-00							
Company Horseshoe Operating, Inc.					Lease Drake							Well Number 3-27		
County Location Greeley NW SW				Section 27		TWP 20S		RNG (E/W) 40W			Acres Attributed			
Field . Bradshaw				Reservoir Winfield				Gas Gathering Connection DCP Mldstream				,		
Completion Date 1/20/05				Plug Back Total Depth 2832			, , ,	Packer Set at None						
Casing Size Weight 4.5 10.5				Internal E 4.052	Diameter		Set at 2837		rations 0	To 2806				
Tubing Size 2.375					Internal 1 2.000	Diameter	Set at 2816		Perforations		То			
Type Completion (Describe) Single					Type Fluid Production Water				Pump Ur Yeş R	nit or Traveling	Plunger? Yes	Yes / No		
Producing Thru (Annulus / Tubing)					% Carbon Dioxide				% Nitrog	Gas G	Gas Gravity - G			
Annulus Vertical Depth	7/H)		-			Proc	eura Tane				(Meter	Run\ (Pr	over) Size	
Vertical Depth(H) 2837					Pressure Taps Flange				,		2"	- min) (r-1	O 101) 3128	
Pressure Build	dup:	Shut in	4-	2 2	0/4at_	8:00	(AM) (PM)	Taken	4-3	3	14 at 8.	00 (AM)(PM)	
Well on Line:		Started		20	D at		(AM) (PM)	Taken		20	at	(/	AM) (PM)	
•		··· · · · ·				OBSERVE	D SURFACE	DATA			Duration of Shut	-in_2	4 Hours	
Dynamic S	mic Size P		ure Di	ressure ifferential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_1) or (P_6)		Tubing Wellhead Pressure (P_w) or (P_i) or (P_c) psig psia		Duration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In /	00	psig (Pm)		ches H ₂ 0			psig	psig psia		psia	24			
Flow	<u>-</u>			_							<u> </u>			
						FLOW STF	REAM ATTRI	BUTES						
Plate Coefficcient (F _b) (F _p) Mcfd	Circle one: Meter or over Pressure psia	eror Extension		Grav Fact F _c	or Temperature		Deviation Factor F _{pv}		Metered Flov R (Mcfd)	v GOR (Cubic Fo Barrel)	eet/	Flowing Fluid Gravity G _m		
		•						<u> </u>					·	
P _c) ² =	;	(P _w) ² =		:_	(OPEN FLO		'ERABILITY) % (P _e	CALCUL - 14.4) +		· :	(P ₄) (P _d)) ² = 0.20)7 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(F	(P _c) ² - (P _w) ²		formula 1 or 2: P _c ² - P _c ² P _c ² - P _c ² by: P _c ² - P _c ²	LOG of formula 1. or 2. and divide	P ₂ -P ₂ ²	Backpressure Curve Slope = "n" Assigned Standard Slope		nxl	.oo []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
						/						†		
Open Flow			M	cfd @ 14.0	65 psia		Deliverabil	ity				ila		
The unde	rsigned	authority, c	n beha	alf of the	Company, s	tates that h	e is duly aut	horized t	o make th	e above repo	rt and that he h	as knowl	edge of	
e facts stated	therei	n, and that s	aid rep	ort is true	and correct	t. Executed	this the	4_	day of	Mag	ust_	, 2	o <u>/4</u> .	
· .								()	anic	e Ku	plus	RECE	VED	
		Witness ((if any)				_		-	For	ompany KAMSAS C	ORPORA	ION COMMI	
	-	For Comm	nission							Chec	ked by	AUG 0	6 2014	

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 Drake 3-27 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: 8-4-14
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.