## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			One			الماداد	(See Ins	tructi	ions on Rev	erse Side	)					
Open Flow     Deliverabilty						Test Date	e; 14		API No. 15 15-075-20668 <b>- 0000</b>							
Company						4-5-	<u>/-/</u>		Lease	<del>- · · .</del>		<del></del>	1.	Well	Number	
Horseshoe Operating, Inc.						0			Dikeman				1	<del></del>		
County Location Hamilton C NW/4					Section 15		TWP. 22S					Acre	s Attributed			
Field Bradshaw					Reservoi	r		Gas Gathering Conne DCP Midstream								
Completion Date				·	' Plug Bad		Dept	h		Packer 8		ш				
0			<del> </del>	<del> </del>	_•	2765				_						
Casing S 4.5	ize	Weight 10.5				4.052	Internal Diameter 4.052		Set at 2765		Perforations 2727		то <b>27</b>	2737		
Tubing Si 2-3/8	ize .		Weig 4.7	tht		Internal Diameter 2.000		r	Set at 2734		Perforations		To	-		
Type Con		n (De				Type Flui	id Produ	ction				nit or Traveling	Plunger?	Yes / N	0	
Single-Gas Producing Thru (Annulus / Tubing)					Water		<u> </u>			Pump Unit			- Oracia			
Lioanciné	ınru	ınajı	iulus / lubii	ng)		% (	Carbon D	ואסור	16		% Nitrog	leυ	Ga	s Gravity	- G <sub>0</sub>	
Vertical D	epth(l	<del>1</del> )		<del>.</del>	_				ure Taps	·· ·			(Me	eter Run)	(Prover) Size	
				<u>U-0</u>		1//	010	7	ange		11.	3	1/1 0	<u>8'</u>	<u>,                                     </u>	
Pressure	Buildu	ip: {	Shut in	70	2	0/4 at_	8.0	<del>-</del> (	(AM) (PM)	Taken	70	20ري	14 at 0	,00	<u> </u>	
Well on L	ine;		Started		2	0 at			(AM) (PM)	Taken		20	at		_ (AM) (PM)	
			,				OBSE	RVE	D SURFACE	DATA			Duration of §	Shut-inc	24 Hours	
Static /	Orif		Girde one: Pressi Meter Differen			Flowing	Well Head Temperature t		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration		Liquid Produced	
Dynamic Property	Siz (Inch			psig (Pm) Inches		Temperature t			(P <sub>w</sub> ) or (P <sub>i</sub>	) or (P <sub>c</sub> )	(P, ) o	r (P <sub>t</sub> ) or (P <sub>c</sub> )	(Hours)		(Barrels)	
Shut-In	7	50	p-3 c ···	,	.,25				psig	59	psig	psla	24	.		
Flow	<u></u>								,	<u> </u>						
				I			FLOW	STR	EAM ATTRI	BUTES	<u> </u>					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Citab one: Meter or Prover Pressure psia		Press		Gra	rity		Flowing De		lation	Metered Flov	w 6	BOR	Flowing	
				Exter	m x h	Fac	.01		emperature Factor		ctor	R (Mcfd)	, ,	ic Feet/ arrel)	Fluid Gravity	
				ļ		-			F <sub>n</sub>	<u> </u>	pe		<del></del> :		G <sub>m</sub>	
				1												
(P <sub>c</sub> )² =			(P_)2:	=		(OPEN FL		ELIVI %	ERABILITY)		ATIONS · 14.4 =	, .		$(P_{\bullet})^2 = 1$ $(P_{d})^2 = 1$	0.207	
_		<u>- ·                                    </u>		Choose Iom		;		<u>一</u>	T	sure Curve				<u> </u>	Open Flow	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>u</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> · 2. P <sub>c</sub> <sup>2</sup> ·	-	LOG of formula 1. of 2.			Slope = "n" 		n x	LOG	Antilog		Deliverability Equals R x Antilog	
(P <sub>c</sub> )≥- (F	,)* 			divided by: I		and divide	P <sub>c</sub> <sup>2</sup> -P,	,2 *		igned ard Slope		LJ			(Mcfd)	
				<u>-</u>								<del></del>				
										_						
Open Flov	<u>-</u>			Mcfd	@ 14.	 65 psia			Deliverabil	lity			Mcfd @ 14.6	 5 psia		
The u	inders	ioned	authority.	on behalf	of the	Company.	states th	at h	e is duly an	thorized t	o make ti	ne above repo	ort and that h	e has kn	nowledge of	
						and correc				1/	day of _	Juni	e_		20 14	
31	,u		,, untu tilat i	and roport	II UC	, <sub>(11)</sub> (11) (11)	LAU	u.cu	na tile <u>/</u>		70,01		D: 11.		_ ,	
			Witness	(if any)	_			_	_		Jan	TICE FOR	SUPUL	4	<del></del>	
_			•					_	_	_	<i>U</i>		<b>h</b>	0 1	CC War	
			For Com	mission								Che	cked by	17	<del>CC MIC</del> H	

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	penalty of perjury under the laws of the state of Kansas that I_am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
	ng pressure information and statements contained on this application form are true and
•	f my knowledge and belief based upon available production summaries and lease records
	ation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reques	a one-year exemption from open flow testing for the Dikeman 1
gas well on the grou	,
(Check o	ne)
· <u> </u>	s a coalbed methane producer
i i	s cycled on plunger lift due to water
i	s a source of natural gas for injection into an oil reservoir undergoing ER
i:	s on vacuum at the present time; KCC approval Docket No
<b>√</b> i	s not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to	o supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary t	corroborate this claim for exemption from testing.
Date: <u>6-/6-/</u>	4
	•
	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.