KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Te:	st:						(See Instru	ctions on Re	everse Sid	e)		1		
□ ∘	pen Fk	w										. •		
Deliverabilty				Test Date: 7-7-12				AF 1 F	21 No. 15 5-075-2066	8-00-00	ı			
Compan	ıv					5-1-1		Lease					Well Number	
Horses	shoe	Op	erating, i	nc.				Diken	nan			1	AASII IADIIDGI	
County Hamilton			Location C NW/4			Section 15				RNG (I	E/W)		Acres Attributed	i
Field Bradsh			-			Reservo	ir	·			athering Conr			
Complet		te .	-		 -	Plug Bar	ck Total Dep	nth .		DCP Packer	Midstrea	m	 	
						2765				- ackei		· · · · · · · · · · · · · · · · · · ·		
Casing Size 4.5			Weight 10.5			Internal Diameter 4.052		Set at 2765		Perf 27 2	orations 2 7	то 2737		
Tubing Size 2-3/8			Weight 4.7			Internal 2.000	Diameter	Set at 2734		Perf	orations	То		
Type Cor Single-	mpletio Gas	n (D	escribe)				id Production		···	Pump U	Init or Traveling	Plunger? Yes	/ No	
Producin	g Thru	(An	nulus / Tubi	ng)		% (Carbon Diox	ride		% Nitro		Gas Gr	avity - G	
Vertical [Depth(H						Pres	ssure Taps			·	(Meter F	Run) (Prover) Siz	e e
Pressure	Buildu	p:	Shut in	3	-6 ₂	0/2at	9:30	(AN) (PM)	Taken	3	-7 20	12 at 9;	30 mg/pm	_
Well on L	ine:							_				at	_	
			,				OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hc	urs
Static /	Orifi		Circle one: Mater	:	Pressure Differential	Flowing	Well Head	Ca: Wellhead	-	1	Tubing	Ouration	Liquid Produce	
Dynamic Property	Size (inche		Prover Press	- 1	in Inches H _• 0	Temperature t	Temperature t	(P ₌) or (F	(P _c) or (P _c)	(P_)	and Pressure or (P _I) or (P _E)	(Hours)	(Barrels)	'
Shut-In	.75	0	,		1,20			50 psig	psla	psig	psia	24	 	\dashv
Flow														\exists
							FLOW STR	REAM ATTR	IBUTES					
Plate			Circle one:		Press	Grav	rity	Flowing	Dev	lation	Metered Flow	GOR	Flowing	\Box
Coefficient (F _b) (F _p)		Meter or Prover Pressure			Extension	Fact	·	Factor	Fa	ctor	R	(Cubic Fee	et/ Fluid Gravity	
Mold			psia	_	Paxh	F,		F _{tt}	_ f	pv	(Mcfd)	Barrel)	G,	
	₋ ĺ							<u> </u>						٦
				-		(OPEN FLO	OW) (DELIV	ERABILITY	CALCUL	ATIONS				
(P _c) ² =		.:	(P _w) ² =	<u>-</u>	:	P _d =			· - 14.4) +		:	(P _a)² (P _d)²	= 0.207	
/D 12 /D	<u>,, </u>			Choo	se formula 1 or 2:			1	ssure Curve			<u>` a'</u>		٦
(P _e)²- (P or	- I	(P.)²- (P_)²	1	. P P. 2	LOG of formula			X6 = "П"	пх	LOG	Antilog	Open Flow Deliverability	Ì
(P ₄)2- (P	ا ۱۵				. P.*-P.* d <i>by:</i> P.*-P.*	1, or 2, and divide by:	P ₂ P ₂ 2		signed ard Slope			Antilog	Equals R x Antilo	19
						7	<u> </u>	1		+				ᅱ
										-				\dashv
Open Flow					Mcfd @ 14.6	J 5 psia		Deliverabi				Mcfd @ 14.65 psia		
The ar	ndersio	hen	authority ~									'		_
									thorized to	make th	e above repor	t and that he has		
e tacts sta	rea the	rem,	and that sa	aid re	port is true	and correct.	Executed	this the	14	lay of	spril		, 20 <u>/d</u>	٠.
• • • • • • • • • • • • • • • • • • • •		 .	Witness (I	l anvi	- , -		REC	EIVED-		ani	ce Ri	pley	·	
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			For Comm	ISS20N			ALK	1 8 2017	·		Checi	ked by		_

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	penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status unde	r Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the forego	ing pressure information and statements contained on this application form are true and
correct to the best o	of 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	t a one-year exemption from open flow testing for the Dikeman 1
gas well on the grou	unds that said well:
(Check o	ne)
i:	s a coalbed methane producer
i	s cycled on plunger lift due to water
is	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.
√ is	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 to	o corroborate this claim for exemption from testing.
Date: 4//6//	<u>2</u>
	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.