KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:					(See Instruc	tions on Re	verse Side	9)		1			
<pre>0</pre>	pen Fl	ow												
Deliverabilty					2-7	Test Date: 3-7-12				API No. 15 15-075-20761				
Compan	v					,	Lease					Well Number		
Horseshoe Operating, Inc.					Dikeman						2			
County Hamilte	on		Location C-S/2		Section 10		TWP 22S		RNG (E/W) 40W		Acres Attributed			
Field					Reservoi		···	Gas Gathering Conr			ection			
Bradsh					Winfie			DCP Mids			n			
8-2-20	01	ite	· · · · · · · · · · · · · · · · · · ·		Plug Back Total Depth 2767				Packer	Set at				
Casing S	Size		Weigi 10.5	nt	Internal Diameter 4.052		Set at 2769		Perforations 2729		To 2738			
Tubing S 2.375	ize		Weight 4.7	nt	Internal I 2.0000	Diameter)	Set at 2851		Perforations		То			
Type Completion (Describe) Single gas					Type Fluid Production Water			· · ·	Pump U Yes	nit or Traveling	g Plunger? Yes / No			
Producing Thru (Annulus / Tubing)					% Carbon Dioxide				% Nitrogen		Gas Gravity - G			
Casing														
Vertical D	Pepth(i	- 1) -			Pressure Taps Flange			(Meter Run) (Prover) Size						
Pressure	Builda	ıp:	Shut in	3-6 ₂	0/2 at _	1:45	(AM) (PM)	Taken	3-7	7 20.	12 at 9:4	5 (AM) (PM)		
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)		
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>34</u> Hour		
Static /		Orifice Circle one: Pressure Meter Differential		Flowing Well Head		Casing		Tubing		Duration	Lieulel Droduced			
Dynamic Siz Property (Inch		Prover Pressur		ire in	Temperature t	Temperature t	Wellhead Pressure (P _m) or (P ₁) or (P ₂)		Wellhead Pressure (P _w) or (P _t) or (P _c)		(Hours)	Liquid Produced (Barrels)		
Shut-In	.625		psig (Pm)	Inches H ₂ 0	<u> </u>		psig psia		psig	psia	24	<u> </u>		
Flow		, _					//-					 		
·			·	!		FLOW STR	EAM ATTRI	BUTES	' 	,		,		
Plate	Ī	Circle one: Press		Gravity		Flowing		tation Metered Flow		000	Flowing			
Coefficient (F.) (F.)		Meter or Prover Pressure		Extension	Fact	or 1	Temperature		ctor	Metered Flow	(Cubic Feet/ Flui			
(F _b) (F _p) Mcfd		psia		√ P _m xh	F _s		Factor F _{II}		pv	(Mcfd)	. Barrel)	Gravity G _m		
·	L				(OPEN EL	NW (DELIV	ERABILITY)	CAL CIT	ATIONS					
(P _c)² =	_	_:	(P _w) ² =	:	$P_d =$		•	- 14.4) +		:	(P _a) ² (P _a) ²	? = 0.207 ? =		
	T			Choose formula 1 or 2:	1		T	sure Curve			· •			
(P _a) ² · (P _a) ²		(P _e)²- (P _w)²		1. P.2-P.2	2-P2 LOG of formula		Slope = "n"		n x LOG		A - 471	Open Flow Deliverability		
(P _e)2- (P _s)2		1		2. P _c ² -P _d ² Wided by: P _c ² -P _c ²	1. or 2. and divide	P _e 2. P _m 2	Assigned Standard Slope		· · · · · · ·		Antilog	Equals R x Antilog		
	\dashv			wided by: Fa = Fw	37.	<u> </u>	Standa	iid Siope			<u> </u>	<u>·</u>		
. .	-													
							<u> </u>							
Open Flow				Mcfd @ 14.6	55 psia		Delive rabi	lity			Mcfd @ 14.65 psi	à		
								thorized to	make th	ne above repor	t and that he has	17		
ne facts sta	ated th	erein	, and that sa	id report is true	and correct.	. Executed	this the	14	day of	upri,		, 20		
				•		REC	EIVED-	(an	ice K	ipley			
•			Witness (if	arry)						For C	onjipany ()			
···· ,,,		-	For Commit	slon		APR	1 8 2012		·	Chec	red by			

I
<i>:</i>
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 Dikeman #2 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.
Signature: <u>Production Assistant</u> Title: <u>Production Assistant</u>

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.