KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

e Test:			(See	Instructions	on Reverse	J,	ADI No	16			
Open Flow		Test	Date:				API No. 15-07	5-20783 <i>-</i>	00-00		
Deliverabilty		8/6/10		l	Lease				Well Number 1		
ompany lorseshoe Operating, Inc.				Herrmann A				Acres Attributed 480			
ounty	Location N/2 SW	Sec 24	tion		238		IOW Cathori	ng Connecti		OU	
amilton	14/2 044	Res	ervoir			G [oce Mid	stream			
radshaw		Plu	g Back To	ital Depth	*	F	acker Set	at,		*	ign.
ompletion Date -4-2002		2542 Internal Diameter			Set at		Perforati	ons	To		
asing Size	Weight	Weight Internal 4.052		neter			2497 Perforations		2503 To		
ubing Size			Internal Diameter		2509						
-3/8 4.7		2.000 Type Fluid Production					Pump Unit or Traveling Pump Unit		Plunger? Yes / No		
ype Completion (I)escribe)	Water					% Nitrogen		Gas Gravity - G		
Producing Thru (A	nnulus / Tubing)	 -	% Cart	oon Dioxide	3				/Motor	Bun) (Pro	ver) Size
Annulus Vertical Depth(H)					sure Taps				(Meter Run) (Prover) Size		
Vertical Debuty				12/	lange		211	20/	0 at 10:5	36 (M) (PM)
Pressure Buildup:	Shut in8				(AM) (PM) T			20		(A	M) (PM)
Well on Line:	Started	20	at		(AM) (PM) T	aken					77
				OBSERVE	D SURFACE	DATA	_		Duration of Shul	t-in <u>Ø</u>	4 Hours
Circle one:		Pressure Flowing Well Head			Casing		e Wellhead Pressure		Duration Liq (Hours)		uid Produced (Barrels)
Static / Orifice Dynamic Size	Meter Prover Pressure	in	mperature Temperatur		(P _w) or (P _t) or (P		(P _w) or (P _t) or (P _c)		(Flours)		
Property (inches	psig (Pm)	Inches H ₂ 0			psig	114	1		24		
Shut-in .62	5										
Flow		1		CLOW ST	REAM ATTR	BUTES					
					Flowing	1	eviation	Metered Flo	GO (Cubic		Flowing Fluid
Plate Coeffiecient	Circle one: Meter or	Press Extension	Gravity Factor F _g		Temperature Factor		Factor F _{ov}	R (Mcfd)	Barr		Gravity G _m
(F _b) (F _p) Mcfd	Prover Pressure psia	√ P _m xh			F _{ft}						
								<u> </u>			
		(OPEN FL	OW) (DELI	VERABILITY) CALC) + 14.4 = _	:		$(P_a)^2 = 0$ $(P_d)^2 =$	
(P _c) ² =	_: (P _w) ² =	:	$P_d =$			essure Cu		<u></u> -			Open Flow
$(P_c)^2 - (P_a)^2$	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² -P _a ²	LOG of		SI	ope = "n"	l n >	LOG	Antilog		eliverability als R x Antilo
or (P _c) ² - (P _d) ²			2. P _c ² -P _d ² 1. or 2.		Assigne						(Mcfd)
(F _c) = (I _d)		divided by: P _c ² - P _w ²	by:								
			 								
			<u> </u>		Deliver			١-	Mcfd @ 14.6	5 psia	<u>.</u>
Open Flow	•	Mcfd @ 14.	65 psia		Deliver	ability			eport and that I	ne has kr	nowledge of
The unde	rsigned authority,	on behalf of the	Company	, states tha	at he is duly	11	ed to main	Octo	lier		_ , 20 <u>[0</u>
the facts state	therein, and that	said report is true	e and corr	ect. Execu	ited this the			. 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	Rinda	11-	
							_Ja	MULL	For Company	J-	
	Witnes	s (if any)							Checked by		
	For Co	mmission							•		RECE

RECEIVED OCT 1 4 2010

I declare under penalty of perjury under the laws of the state of Kansas that exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operator H	perating, Inc. pplication form are true and immaries and lease records fine gas well herein named.
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 under is on vacuum at the present time; KCC approval Docket No	/D
Signature:	ry

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.