KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Instru	ictions on F	Reverse Sic	te)		1 1		
	Flow						.5.5.55	-y				٠.
= '	erabilty			Jest Dat	e:12				No. 15 ′	· '		
Company				5-22	<u>-13</u>			071	I-20177-00-	00		
Horseshoe	Opera	***		·		Lease Hoffm	an			1	Well Number	
County Location Greeley C SE SW		Section 24		TWP 18S			RNG (E/W) 40W		Acres Attribute	ed		
Field Bradshaw	.,			Reservoi					hering Conn	ection		
Completion 10/17/79	Date	·		Plug Bac	k Total Dep	pth		Packer S				•,
Casing Size)	We	eight	2890' Internal I	Diameter	Set	at	Perfo	rations	To	1	
4.5" Tubing Size		10.5		4.052		2912'		2868		2	2882	
2-3/8"	4.7		Internal Diameter 2.000		Set at 2785'		Perfo	Perforations		То		
Type Completion (Describe) Single - Gas				Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
Producing T Annulus	hru (An	nulus / Tut	bing)		arbon Diox	dde		% Nitrog		Gas G	ravity - G	—
Vertical Dep	th(H)	·	<u>.</u>		Pres	ssure Taps	•			(Meter	Run) (Prover) S	Size
				Flange				3"				
Pressure Bu	ildup:	Shut in	5-21	$20 \underline{13}_{at}$	<u> 1:34</u>	(AM) (PM)	Taken	5-6	2 ₂₀	13 at /:3	34 (AM) (P)	M))
Well on Line	:	Started	2	20 at		(AM) (PM)	Taken	* .	20	at	(AM) (PI	M)
				<u></u>	OBSERVE	ED SURFAC	E DATA			Duration of Shut	in 24 4	lours
Static / Orifice Circle one: Pressure			,	Flowing	Well Head	Cas	sing		ubing		1 1 /	
	Size nches)	Prover Pres	ssure in	Temperature Tem t	Temperature t	(P _w) or (P ₁) or (P _c)		Welthead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	(Barrels)	Liquid Produced (Barrels)
Shut-In 2	15		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			psig	105	psig	psia .	24	-	\dashv
Flow	 				<u> </u>		700		+	ω	1	
				'	FLOW STR	EAM ATTR	IBUTES	1	<u> </u>	· · - · - · - · - · - · · - · · · ·	1	
Plate	- 1	Circle one:	Press	Gravi	hv .	Flowing	Dovi	ation	Matazzi Class	GOR	Flowin	ng
Coeffiecient (F _b) (F _p)		Meter or ver Pressure	Extension	Facto		emperature Factor	Fac	ctor	Metered Flow R	(Cubic Fe	1917 I	Fluid Gravity
Mcfd	'0' \' D'		Pmxh	F,	ĺ	F _{tt}	F,	p.	(Mcfd)	Barrel)	Gravii G _m	Ty
												_
			<u>, I., </u>	(OPEN FLO	W) (DELIVE	ERABILITY) CALCULA	ATIONS	1	/5.1		
)² =	:	(P _w) ² :		P _d =_	%		° - 14.4) +		:	(P _a) (P _d)	² = 0.207 ² =	
(P _c) ² - (P _a) ²	(P)²-(P_)²	Choose formula 1 or 2:	LOG of			sure Curve		F 7		Open Flow	
or (P _c) ² - (P _d) ²			2. P2-P2	formula 1. or 2.	}	Slope = "n"		n x LC	JG	Antilog	Deliverability Equals R x Antilog	
. e a.			divided by: P.2 - P.2	and divide by:	P.2 - P.2		signed ard Slope	-	L J]		(Mcfd)	NOS
			·			 		 				
								 				-
en Flow			Mcfd @ 14.6	5 psia	•	Deliverabil	ity			cfd @ 14.65 psia	a	
The under	signed a	authority, o	n behalf of the C	ompany, stat	tes that he			make the				
			aid report is true a				14	ıy of(June		, ₂₀ _/3))
• •			•					MIRO.	Pint			
	 -,	Witness (If	f any)	·		· · · · -	Ja	nce	For Com	pany —	KCC W	
·		Far Commi	Ission		à				Checked	t by	JUN 2	6 -2
											REC	;F1\.

Lefantana washan wasatti at w	
	under the laws of the state of Kansas that I am authorized to reques
	04 on behalf of the operator Horseshoe Operating, Inc.
	ation and statements contained on this application form are true an
	d belief based upon available production summaries and lease record
	pe of completion or upon use being made of the gas well herein named
	tion from open flow testing for the Hoffman #1
gas well on the grounds that said well:	
(Check one)	
is a coalbed methane	e producer
is cycled on plunger	
	I gas for injection into an oil reservoir undergoing ER
	present time; KCC approval Docket No
=	ducing 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 Commiss
taff as necessary to corroborate this cla	aim for exemption from testing.
Pate: 6-24-13	
	\sim \sim \sim \sim \sim
	Signature: Janua Kupley
	Title: Production Assistant
	1147

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.