KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:			(-	See Instructi	ons on Reve	rse Side	e)			
Ope	en Flow			Took Date				ADI	No 15		
Deliverabilty			Test Date. 9- //-/ 14					5-20603-00-00)		
Company	oe Opera	ting, Inc.		-//	/	Lease Jantz				1	Well Number
County Location Hamilton SE SW		Section 5		TWP 23S		RNG (E/W) 40W			Acres Attributed 320		
Field Bradshaw			Reservoir Winfield			Gas Gathering Connection DCP Midstream					
Completion Date 6/17/96				Plug Back Total Depth 2562'				Packer S	Set at		
Casing Si 4.5"			Internal Diameter 4.000		Set at 2569'		Perforations 2541' - 2559'		То		
Tubing Si: 2-3/8"				Internal Diameter 1.995		Set at 2559'		Perforations		То	
Type Completion (Describe) Single - Gas			Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod				
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide				% Nitrogen Gas Gravity - G _g				
Vertical D					Press	sure Taps					Run) (Prover) Size
			<u> </u>		Flang					2"	
Pressure	Buildup:	Shut in	<i>9-10</i> 20	14 at _1	1:45	(AM) (MA)	aken	9-1	// 20/	4 at 1:4	15 (AM) (PM)
Well on Li	ine:	Started	20	at		(AM) (PM) 7	aken		20	at	(AM) (PM)
			· · · · · ·		OBSERVE	D SURFACE	DATA			Ouration of Shut	-in 24 Hours
Static / Dynamic Property	Oynamic Size Prove		l n	Flowing Temperature t	Well Head Temperature t	Welihead P	Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		fubing ad Pressure r (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.1025	psig (Pm)	Inches H ₂ 0			psig H/I	psia	psig	psia	24	
Flow											
					FLOW STR	EAM ATTRIE	BUTES				
Plate Coeffieci (F _b) (F Mcfd	ient p) Pro	Circle one Meter or over Pressure psia	Press Extension √ P _m x h	Grav Fact	tor T	Temperature Factor		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fo Barrel	eet/ Fluid Gravity
(P _c) ² =		(P _w) ² =		(OPEN FLO	OW) (DELIVI	ERABILITY)		LATIONS + 14.4 =		(P _a) ² = 0.207
(P _c) ² - (F	P _a) ² (I		pose formula 1 or 2 1 P _c ² - P _a ²	LOG of formula		Backpress Slope	ure Curve			`	Open Flow Deliverability
or (P _c) ² - (F	O _d)2	divi	2. P _c ² -P _d ² ded by P _c ² -P _w ²	1 or 2 and divide by	P _c ² -P _w ²	o Assig Standar		- " " "		Antilog	Equals R x Antilog (Mcfd)
									·		
Open Flov	w		Mcfd @ 14.6	5 psia		Deliverabili	ty		N	1cfd @ 14.65 ps	ia
	_	-				-	norized t		ne above repor	t and that he h	as knowledge of
ne racts st	iated there	in, and that said	report is true	and correct	i. Executed	uns ine		day of	in R	interna	Received
		Witness (if an	у)			_		_ <i></i>	Fo)Co	pany PAMSA	OCT 0 3 2014
		For Commissi	on					<u> </u>	Check	•	ULT U J ZUIT

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 Jantz 1
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.
To not departe of producing at a daily rate in 0x0033 of 250 thorib.
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.
Date: 10-1-14
Signature: Auch Riples Title: Production Assistant

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.