## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruct	tions on Re	verse Side	<del>?</del> )				
Op	en Flo	w			Test Date				ΛD	l No. 45			
De	liverab	ilty			10/22/20					I No. 15 -025-20215 -	-0000		
Company HUMMC		RP	ORATION		•		Lease HARPE	R RANC	Н		2-4	Well Number	
County CLARK			Location NW NW		Section 4		TWP 34S		RNG (E/W) 21W		Acres Attributed 160		d
Field HARPER	R RAN	ICH			Reservoi					thering Conn			
Completic 01/02/19		е			Plug Bac 5458'	k Total Dept	h	Packer		Set at			
Casing Size 4-1/2"			Weight		Internal E 3.950"	Diameter	Set at 5500		Perforations 5436		To 5440		
Tubing Size 2-3/8"			Weight 4.70#	-	Internal I 1.995"	Diameter	eter Set at 5430		Perforations		То		
Type Completion (Descri					Type Flui	Type Fluid Production OIL AND WATER		F		Pump Unit or Traveling Plung		ger? Yes / No	
Producing	g Thru	(Anı	nulus / Tubing	)		arbon Dioxi			% Nitro		Gas Gr	avity - G <sub>g</sub>	
TUBING Vertical D		1)				Pres	sure Taps				(Meter	Run) (Prover) S	ize
			22 (	OCT .	_ 14 8	00		23	3 OCT		14 <sub>at</sub> 0830		
Pressure Well on L	,										at		
							D SURFAC	·			Duration of Shut-		
Static /	Orifi		Circle one: Meter	Pressure Differential	Flowing	Well Head	Cas Wellhead	sing		Tubing ead Pressure	Duration of Shut-	Liquid Produc	
Dynamic   Property	Size (inche		Prover Pressur psig (Pm)	1	Temperature t	Temperature t	(P <sub>w</sub> ) or (F			or (P <sub>t</sub> ) or (P <sub>c</sub> )	(Hours)	(Barrels)	-
Shut-In							0	40					
Flow													
	- 1		<del></del> 1			FLOW STR	EAM ATTR	IBUTES		<del>                                     </del>	<del></del>	· 1°	
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fac F	Temperature		w GOR (Cubic Fe Barrel)	i Grav	d ity			
(P <sub>c</sub> ) <sup>2</sup> =			(P )² =		•	OW) (DELIV		') CALCUL <sub>"c</sub> - 14.4) +				<sup>2</sup> = 0.207 <sup>2</sup> =	
· • · ·		<u>-</u> `		Choose formula 1 or 2	*		T	ssure Curve				Open Flow	
(P <sub>c</sub> ) <sup>2</sup> - (l or (P <sub>c</sub> ) <sup>2</sup> - (l	P <sub>a</sub> ) <sup>2</sup>	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. $P_c^2 - P_d^2$ 2. $P_c^2 - P_d^2$	1,012.		Sto	pe ≈ "n" - or	l n x	LOG	Antilog	Deliverabili Equals R x Ar	ty
(P <sub>c</sub> ) (I	F <sub>0</sub> ,F			livided by: $P_a^2 - P_w$	and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		signed lard Slope				(Mcfd)	
					:								
Open Flo				 Mcfd @ 14	65 neia		Deliverat	nility	<u> </u>		Mcfd @ 14.65 ps	ia	
		iane	d authority. or			states that h		•	o make t		ort and that he ha		
										DECEMBER		, 20 <u>14</u>	
	···- <u>-</u> -		Witness (if				; 18 20		<u> </u>		Company		
			For Commi	ssion	-		ECEIVI			Che	cked by		

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator HUMMON CORPORATION
and that the foreg	poing 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
	allation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	est a one-year exemption from open flow testing for the HARPER RANCH 2-4
gas well on the gr	ounds 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
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
l further agree	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar,	y to corroborate this claim for exemption from testing.
Date: <u>12/14/2014</u>	<del>.</del>
	MOCINICHITA COM THE COM
	KCC WICHITA Signature:
	DEC 1 8 2014 Title: PRODUCTON ADMINISTRATOR / PUMPER  RECEIVED

## 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.