KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	tions on Reve	rse Side)				
Open Flow			Test Date)	۸۵	I No. 15					
Deliverabilty					er 26 2011	1	API No. 15 15-025-20215 - ()						
Company		ora	tion				Lease Harper R	anch			· ·	Vell Nu #2-4	mber
County Location Clark NW NW			Section 4		TWP 34S	RNG (E/W) 21W			Acres Attributed 160				
Field					Reservoir			:		thering Conn	ection		i. i
Harper F					Morrow			DCP Midstream					
Completic Jan 2 19		е		٠,	Plug Back Total Depth 5458'				Packer	Set at			
Casing Size Weight 4-1/2" 10.50#				Internal Diameter 3.950"		Set at 5500			то 5440'				
Tubing Si 2-3/8"	ize		Weight 4.70#		Internal Diameter 1.995"		Set at 5430	Perforations		То			
Type Con Single	npletio	ı (De	escribe)			Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No				
Producing	Thru	(Anı	nulus / Tubing)		arbon Dioxi	de		% Nitro	gen	Gas Gravity - G _g		
Tubing Vertical D	onth/L	11				Proce	sure Taps				(Meter F	Pun\ /Dr	over) Size
vertica: L	epui(i	''				1163	sure raps				(IVIECE) I	iun) (i i	over) Size
Pressure	Buildu	p:	Shut in Nov	25 2	0 11 at 8	:00 AM	(AM) (PM)	Taken_N	ov 26	20	11 at 12:00 F	<u>РМ</u> (AM) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at _•	(AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	n_24+	Hours
Static / Orifice Dynamic Size Property (inches)			Circle one: Meter	Pressure Differential	Flowing Temperature	Well Head Temperature	Casin Wellhead P	ressure Wellh		Tubing ead Pressure	Duration	Liquid Produced	
			Prover Pressur psig (Pm)	e in Inches H ₂ 0	t	t	(P _w) or (P _t)	or (P _c)	(P _w) o	or (P ₁) or (P _c)	(Hours)	(Barrels)	
Shut-In				•				139.4	poly	, police			
Flow													
						FLOW STR	EAM ATTRIE	BUTES		T.			
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension ✓ P _m x h	Extension Fac		Flowing Femperature Factor F ₁₁	Deviation Factor F _{pv}		Metered Flor R (Mcfd)	w GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
							-						
(D.)2			(D.)2		•		ERABILITY)					= 0.20	07
$(P_c)^2 =$	Ī	<u>- · </u>	(P _w) ² =_	Choose formula 1 or 2	P _d =		T	- 14.4) +		<u>-</u> :	(P _d) ²	=	
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	P _c) ² - (P _w) ²	 P_c² - P_a² P_c² - P_d² ivided by: P_c² - P_w 	LOG of formula 1. or 2. and divide	P _c ² - P _w ²		sure Curve = "n" or gnéd rd Slope	l n x	LOG	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
				······································			1				,		
Open Flow Mcfd @ 14.65 psia						Deliverabili	ity Mcfd @ 14.65 psia						
		•	d authority, on				• •)SHW		he above repo	ort and that he has		edge of 11 EIVED
			Witness (if				1			·	Company	EC 2	9 2011
			For Commis	ssion						Che	cked by		

	nder 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 Hummon Corporation					
and that the fo	regoing pressure information and statements contained on this application form are true and					
correct to the b	est of my knowledge and belief based upon available production summaries and lease records					
• •	nstallation and/or upon type of completion or upon use being made of the gas well herein named. quest a one-year exemption from open flow testing for the Harper Ranch #2-4					
	grounds that said well:					
(Che	eck 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.					
<u></u>	is not capable of producing at a daily rate in excess of 250 mcf/D					
	gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.					
Date: Dec 28,	2011					
	Signature: Dubling Production Administrator					

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 polater than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form has been signed and dated on the front side as though it was a verified report of annual test results.

DEC 2 9 2011

KCC WICHITA