**RECEIVED** 

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

_ :	: en Flov liverabil				Test Date		tions on Rev	verse Side	AP	I No. 15	•			
Company	,				1/24/14		Lease		00	7-23, <b>533</b> -00-		Well Nu	mber	
Hart Ene	rgies l	LLC				·	Knorp F	arms			#1			
County Barber			Locati NWNW		Section 27		TWP 34S		RNG (E 10W	2/VV)		Acres A	ttributed	
Field					Reservoii <b>Mississi</b>				Gas Ga None	thering Conn	ection			
Completion 8/09	on Date	9			Plug Bac 5066	k Total Dep	th		Packer : None	Set at				
Casing Si 5.5	ze		Weigh	it	Internal E	Diameter	Set a 5086		Perfo 470	orations )5	то <b>4720</b>			
Tubing Size 2.875	ze		Weigh	it	Internal E	Diameter	Set a 4682		Perfo	orations	То			
Type Com	pletion	(Des	cribe)		Type Flui None	d Productio	n		Pump U yes-P	nit or Traveling	Plunger? Yes	/ No		
	Thru	(Annı	ılus / Tubin	g)		Carbon Diox	ide		% Nitro			ravity - C	8	
Vertical D	epth(H	)				Pres	ssure Taps					Run) (Pr	over) Size	
Pressure	Buildur	o: S	1/2	1	20_14 at_9			Taken 1/	24	20		m	AM) (PM)	
Well on Li											at			
						OBSERVE	D SURFACI	E DATA			Duration of Shut	-in_72	Hours	
Static / Dynamic Property	Orific Size (inche	Meter Prover Pressure		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Wellho	Tubing ead Pressure or (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			1-3( )				250	psia	psig	psia	72	<u> </u>		
Flow														
						FLOW STI	REAM ATTR	IBUTES		,				
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient <sub>p</sub> )	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Extension Fact		Flowing Temperature Factor F <sub>ft</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	v GOR (Cubic Fo		Flowing Fluid Gravity G <sub>m</sub>	
								<u> </u>						
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	::	(OPEN FLO	• •	<b>/ERABILITY</b> ) % (F	) CALCUL <sup>2</sup> c - 14.4) +		:		) <sup>2</sup> = 0.2 <sup>1</sup> ) <sup>2</sup> =	D7	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> )	<sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop Ass	ssure Curve be = "n" or signed ard Slope	l n x	rod	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)	
Open Flow	~L			Mcfd @ 14	 l.65 psia		Deliverab	ility			Mcfd @ 14.65 ps	ia		
The u	ındersiç	gned	authority, o	n behalf of the	Company, s	tates that h	ne is duly au	thorized to	o make t	he above repo	rt and that he ha	as knowl	edge of	
he facts st	tated th	erein,	and that sa	aid report is tru	e and correc	t. Executed	this the 7t	h	day of	April		,2	.0 14	
			Witness (I	f any)		·	-	W	Sh	S - Hav	Company	(CC	WICH	
			For Comm	nission			-			Che	cked by	APR	1 1 201	

I declare und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Hart Energies LLC
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	t 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 requ	est a one-year exemption from open flow testing for the Knorp Farms #1
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
ــــــــــ	
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
_	
<del>-</del>	e to supply to the best of my ability any and all supporting documents deemed by Commissio y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
_	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.
staff as necessar	y to corroborate this claim for exemption from testing.

## 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.