KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(5	See Instruc	tions on Ret	verse Side)					
✓ Ope	en Flow iverability			Test Date	AA.	tober 2	2011		No. 15 21444 ~ (0000			
Company	atrolou-	Company II			<u> </u>	Lease Calvin				1-21	Well Nur	nber	
		Location NE/4		Section 21		TWP 24S		RNG (E/W) 9W		Acres Attributed		ttributed	
Field Plevna		14447		Reservoir Mississi					ering Conne ichita Gas G				
Completio	n Date			Plug Bad 4170'	k Total Dep	th		Packer S N/A	et at				
Casing Size 5 1/2"		Weight 14#		Internal Diameter		Set at 4222'		Perforations 3782'		то 3794'			
Tubing Size 2 7/8"		Weight		Internal Diameter		Set at 3835'		Perforations		То			
Type Completion (D Gas		Describe)		Type Fluid Production Saltwater		n		Pump Unit or Traveling Pumping Unit					
Producing Annulus		nnutus / Tubing)		% C	arbon Diox	ide		% Nitroge	3N	Gas G	ravity - C),	
Vertical D	epth(H)				Pres	ssure Taps				(Meter	Run) (Pr	over) Size	
Pressure (•						,		// a1			
Well on Li	rie:	Started		, aı									
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in in tnches H _s 0	Flowing Temperature 1	Well Head	Wellhead Pressure $(P_u) \propto (P_t) \propto (P_t)$		Tubing Wellhead Pressure (P _a) or (P _t) or (P _d)		Duration of Shut Duration (Hours)	Liqui	Liquid Produced (Berrets)	
Shut-In		pag (r m)	inches H ₂ U		750	280	294.4	palg	psia	24			
Flow		<u> </u>				<u> </u>							
		Girata ana			FLOW ST	REAM ATTE	IIBUTES	[1		Flowing	
Plate Coefficient (F,) (F,) Mctd		Circle one: Meter or Prover Pressure psis Press Extension P_mxh		Gravity Factor F		Flowing Temperature Factor F _{tt}		rviation Metered Flor factor R F _g (McId)		W GOR (Cubic Feet/ Barrel)		Fluid Gravity G _m	
				(OPEN FL	OW) (DELI	VERABILITY) CALCUL	ATIONS		(9) ² = 0.2	07	
P _e)2 =		: (P _w)² =_	:	P _a =		% (P _a - 14.4) +	14.4 =		(P.			
(P _a) ² - (F or (P _a) ² - (F	- 1	(P _a) ² - (P _m) ² 1. P _a ² - P _a ² 2. P _a ² - P _a ² alvided by: P _a ² - F		LOG of formula 1. or 2. and divide p 2. p		Backpressure Curv Slope = "n" 		1		Antilog	De! Equals	Open Flow Deliverability Equals R x Amilog (Mcfd)	
			·= -, · · · · · · ·				· ·						
				25		Dell'	h. Illian			Mcfd © 14.65 pt	1		
Open Flor			Mcfd @ 14.			Delivera						40400 04	
		ned authority, on rein, and that sai					BUN-	day of	Sycn)	bel)		20	
		Witness (If						A	ForC	organ,	R	E CEIV E	
_	· _	For Commit	selon	-				· ·	Chec	Xed Dy	NO	V 092	

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 Hesse Petroleum Company, LLC 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
(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
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:
Signature: Title: Partner

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.