KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t: sen Fio	w				(See Inst	ructions on R	everse Side	9)				
_	liverat					Test Date	* 12	2-11-2	2013	AP 15:	I No. 15 5-21533 - <i>0</i> 4	000		
Company Hesse P			Company,	LLO				Lease Ellis				1	Well Number	
County Reno		Location NW/4						TWP 24S		RNG (E 9W	/W)		Acres Attributed	
Field Plevna						Reservoli Mississi		, , , , , , , , , , , , , , , , , , , 			thering Conne Vichita Gas C			
Completion Date 2008				······································	Plug Bac 3924'	k Total D	Pepth		Packer	Set at				
Casing S 4 1/2"	ize	Weight 10.5#			.,, .	Internal Diameter					orations 6'	To 3823	•	
Tubing S 2 3/8"	ize		Weight			Internal Diameter			Set at 3845'		Perforations			
Type Completion (Describe) Gas & Oil					• •	Type Fluid Production Oil & Saltwater				Pump Unit or Traveling Plunger? Yes / No Pumping Unit				
Producing Thru (Annulus / Tubing) Annulus					% C	% Carbon Dioxide				gen	Gas G	ravity - G _g		
Vertical D		1)					Р	гевѕиге Тарѕ				(Meter	Run) (Prover) Siz	
Pressure Well on L			Shut in					2 (AM) (PM) (AM) (PM)				at	(AM)(PM) (AM)(PM)	
							OBSER	VED SURFAC	E DATA			Duration of Shut	-inHo	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Hea Temperat	wellhead (P _w) or (l	P _t) or (P _a) (P _a		Tubing sad Pressure or (P _t) or (P _d)	Duration (Hours)	Liquid Produced (Barrele)	
Shut-In					monos 11 ₂ 0		24	psig 125	189.4	psig	psla	24		
Flow														
							FLOW S	TREAM ATT	RIBUTES					
Plate Coeffieci (F _b) (F Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia			Press Extension √ P _m xh		Gravity Factor F _g		Temperature Fac		lation Metered Flow ctor R (Mcfd)		Flowing Fluid Gravity G _m	
						<u></u>	· [
° ()2 =		_:	(P _*) ²		:	(OPEN FLC		.IVERABILITY % (/) CALCUL P _o - 14.4) +		:	(P _a) (P _d)) ² = 0.207) ² =	
(P _c) ² - (F or (P _c) ² - (F		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _c ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "rr"		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
open Flov	L v				Mofd @ 14.6	l 5 psla		Deliverat	ollity	<u> </u>	L	lcfd @ 14.65 ps	l la	
					ehalf of the C	-		•	2 with	make the		·	as knowledge of	
.,			Witness	H gm/									KCC WIC	
			VYILTIE\$\$ (enty)							For Co	прату (DEC 23 2	
			For Comm	nission	i			-		<i>f</i>	Check	ed by	DEC 53 6	

exempt stand, that to correct to of equipm	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Hesse Petroleum Company, LLC he foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the
gas well o	on the grounds that said well:
	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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission ecessary to corroborate this claim for exemption from testing.
Date: 🖊	2/20/2013
	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.