KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruc	ctions on Re	overse Side) .			6	
✓ Open Flow			~	Total Contac			4 501	11- <i>ia</i>		,			
De	liverab	ilty			Test Date	e: //	15/1	osh		No. 15 5-21271 – 00	000		
Company Hesse Petroleum Company, LLC						Lease Bowen				2	Well Number		
County Location Reno N/2 NW/4				Section 29			TWP 23S		RNG (E/W) 10W		Acres Attributed 80		
				Reservoi: Viola	Reservoir Viola			Gas Gathering Connection West Wichita Gas Gathering					
Completion Date 1991				Plug Bac 3825'	k Total Dep	oth	Packer Set at N/A						
Casing Size Weight 5 1/2" 14#				Internal (Diameter		Set at 3851'		rations 8'	То 3668'			
Tubing Size Weight 2 3/8"				Internal I	Diameter		Set at 3687'		Perforations		То		
					Type Fluid Production Oil & Saltwater				Pump Unit or Traveling Plunger? Yes / No Pumping Unit				
Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide				en	Gas Gra	avity - G _d		
Annulus	3											. · · · · · · · · · · · · · · · · · · ·	
Vertical D	epth(H	I)				Pres	ssure Taps				(Meter F	lun) (Prover) Size	
				111		11100			11/0	······································	11/ 11/2		
Pressure	Buildu	p: :	Shut in	////2	0 <u>/</u> at	11:30	(AM) (PM)	Taken	11/12	20/	# at <u>///3</u>	(PM)	
Well on L	ine:		Started	2	0 at	······································	. (AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	ED SURFAC	E DATA			Duration of Shut-	nHours	
Static /	lic / Orifice Mater Differen		Pressure Differential	Flowing Well Head		Casing Weilhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced		
Dynamic Siz Property (inch		Prover Pressure in			Temperature t	Temperature t	(P_w) or (P_t) or (P_c)		(P_w) or (P_t) or (P_σ)		(Hours)	(Barrels)	
Shut-In			paig (riii)	menes H ₂ 0		480	paig	psia 84,4	psig	psia	24		
Flow						10	10	0.777			<i>~</i> /		
				-	L	FLOW STR	REAM ATT	RIBUTES	<u> </u>			<u>l</u>	
Plate			Circle one:	Press	0		Flowing	-				Flowing	
Coeffiecient		Meter or Prover Pressure		Extension	Grav Fac	tor	Temperature		iation ctor	Metered Flow R	GOR (Cubic Fee	t/ Fluid	
(F _b) (F _p) Mcfd		psia		√ P _m xh	. F	,	Factor F _{rt}	F	e pv	(Mcfd)	Barrel)	Barrel) Gravity G _m	
					(OPEN FL	OW) (DELIV	/ERABILITY) CALCUL	ATIONS		/O 12	= 0.207	
(P _c) ² =		_;	(P _w) ² =	:	P _d =			- P _a - 14.4) +		:	$(P_d)^2$		
	3 12	/5	C)2- (P _w)2	Choose formula 1 or 2.				ssure Curve		٦٦		Open Flow	
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		Ų-	(F _W)-	2, P ₂ -P ₂ ²	formula 1. or 2.		Slope = "n"		n x	.og	Antilog	Deliverability Equals R x Antilog	
(P _o)²- (F	d)2			divided by: $P_c^2 - P_w^2$	and divide by:	P.2 - P.2		ssigned tard Slope	f			(Mcfd)	
Open Flow				Mcfd @ 14.65 psia			Deliverability			Motd @ 14.65 psla			
The u	ındersi	aned	l authority, or	behalf of the	Company, s	states that h	ne is dulv a	uthorized to	make th	above repor	t and that he had	s knowledge of /	
				id report is true	-	t. Executed	this the	with	day of	Degnik	Bee /		
					K	ANSAS CORP	eceived ORATION COM	IMESION					
			Witness (ii	any)		nec.	2 4 20	4	7	For Co	mpany		
			For Comm	ssion		<u> </u>				Check	ed by		

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 gas well on the grounds 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 is not capable of producing at a daily rate in excess of 250 mcf/D
staff as necessary to corroborate this claim for exemption from testing. Date: 12/15/2014
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.