KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	pe Test: (See Instructions on Reverse Side)								16"				
✓ Open Flow				Total Date:									
Deliverabilty			Test Date	Test Date: ///5/2014			API No. 15 155- 24209 21 ,210 - 0000						
Company Hesse Petroleum Company, LLC					/ Lease Hinshaw			,	A SECTION AND ADDRESS OF THE PARTY OF THE PA	1	Well Number 1		
County Location Reno SW/4			Section 17		TWP 24S		RNG (E/W) 9W		Acres Attributed 160		ttributed		
Field Plevna			Reservoi Mississ			-1		thering Conn Vichita Gas			<u> </u>		
Completion Date 1994				Plug Back Total Depth 3756'			Packer 8	Set at	and a constitution of the same and a second	erienianian regiliani e			
Casing Size Weight 4 1/2" 10.5#			Internal Diameter		Set at 3890'		Perforations 3738'		. To 3756'				
Tubing Size Weight 2 3/8"			Internal I	Set at 3742	t at Perforations			То					
Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No													
Gas				Saltwater					ing Unit	riangon 100	/ 140		
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide				% Nitrog	jen	Gas Gr	Gas Gravity - G _g		
Vertical E		·			Pressure Taps					(Meter I	Run) (Pi	over) Size	
					, <u>, , , , , , , , , , , , , , , , , , </u>					·		•	
Pressure Buildup: Shut in 11/4 2014 at 10:00 (AM) (PM) Taken 11/5 20 14 at 10:00 (AM) (PM)													
Well on Line: Started													
					OBSERVE	D SURFACE	DATA			Duration of Shut-	in	Hours	
Static / Dynamic Property	mic Size Meter Differential		Flowing Well Head Temperature t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	(,,,,,,,,,	psig (Pm)	Inches H ₂ 0	450				psig	psia	24	-		
Flow					7.0	,,,,,							
FLOW STREAM ATTRIBUTES													
Plate Coeffiecient (F _b) (F _p) Mofd		Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m x h		Gravity Factor F _g		Flowing Deviation Factor F _{rt}		ctor	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
					<u>.</u>		<u> </u>						
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = 0.207$ $(P_a)^2 =$ $(P_w)^2 =$ $(P_w)^2 =$ $(P_a)^2 =$													
(P _c) ² =	- 		Choose formula 1 or 2	P _d =		1		14:4 <u> </u>		(P _d) ²			
(P _c) ² - (F	-,	(P _c) ² - (P _w) ²	1. P _o ² -P _a ² 2. P _o ² -P _o ² divided by: P _o ² -P _o ²	LOG of formula 1. or 2. and divide by:	P.2 - P.2	Backpressure (Slope = "n'or Assigned Standard Sto		n x 106		Antilog	Open Flow Deliverability Equa <u>l</u> s R x Antilog (Mcfd)		
		· · · · ·				<u> </u>							
Open Flow Mcfd @ 14.6				5 psia Deliverability			ity	Mofd @ 14.65 psia					
		red authority, on		and correct	t. Executed	this the	12th	make th	ecabove repor	t and that he ha	s knowle 2, 2	edge of f	
	····	Witness (if	any)		CORPORATION		\		For C	ompany			
		For Commi	ssion	<u>U</u>	FC 26	(din —			Chec	(sd by			

CONSERVATION DIVISION WIGHTS AND

and cor of e	I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request empt status under Rule K.A.R. 82-3-304 on behalf of the operator Hesse Petroleum Company, LLC de that the foregoing pressure information and statements contained on this application form are true and crect to the best of my knowledge and belief based upon available production summaries and lease records 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 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
	If as necessary to corroborate this claim for exemption from testing. te: $\frac{12/15/2014}{}$
	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.