Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				See instruct	ions on Hev	erse Side	"				
	en Flow			Test Date	e: 10/21	1,0		API	No. 15 5-21338 - 🗪	o -00		
Company	y	ım Company, L	LC		10/26	Lease Ferguso	n	100	0-21330		Well Nu	mber
County Location Reno NE/4			Section 28		TWP 24S		RNG (E/W) 9W		•	Acres Attributed		
Field			Reservoi		270	Gas Gathering C		. •	nnection			
Plevna Completion Date					Mississippi Plug Back Total Depth			West Wichita Gas Gathering Packer Set at				
1994			3933'									
Casing Si 4 1/2"	sing Size Weight /2" 10.5#		Internal Diameter		Set at 3976'		Perforations 3798'		то 3826'			
Tubing Size Weight 2 3/8"			Internal Diameter		Set at 3687'		Perforations		То			
					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Pumping Unit				
		Annulus / Tubing)	% C	Carbon Dioxid	de		% Nitrog	en	Gas Gr	avity - C	3,
Annulus Vertical D			<u>-</u>	<u>-</u>	Press	sure Taps				(Meter	Run) (Pi	over) Size
Pressure Well on Li		Started								<i>lo</i> at <i>3:4</i>		
					OBSERVE	D SURFACE	DATA			Duration of Shut-	·in	Hour
Static / Orifice Dynamic Size Property (inches		Meler Prover Pressui	Pressure Differential in Inches H ₂ 0	ifferential Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Weilhead Pressure (P _w) or (P ₁) or (P _o)		Duration (Hours)	Liquid Produced (Barrela)	
Shut-In		2003 (1111)	moies 1,20		670	195 Z	209,4	psig	psia	24		
Flow					/							
				7	FLOW STR	EAM ATTRI	BUTES		and the state of t			<u>-</u>
Plate Coefficient (F _b) (F _p) Mcfd		Meter or Press Moter Pressure psia Press Extension Pmxh		Gravity Factor F _g		Flowing Devia Factor F ₁₁		ctor R		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
	L		·	(OPEN FL	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS		(P_a)	² = 0.20	07
(P _c) ² =			Choose formula 1 or 2:	P _d =	9	6 (P _c	- 14.4) +	14.4 =	 : ₁		2 <u>=</u>	
(P _c) ² - (F or (P _c) ² - (F	-	(P _c) ² - (P _w) ² 1. P _c ² 2. P _c ² divided by: f		LOG of formula 1. or 2. and divide by:	P _c ² . P _u ²	Backpressure Curve Slope = "n" Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.6				35 psia	5 psia Deliverability			Mcfd @ 14.65 psia				
		ned authority, on erein, and that sa Witness (if	id report is true	•	RECE	e is duly aut	1.	day of		t and/that he ha	_	edge of 20 <u>/0</u>
		For Commit	ssion		KCC IN	แคนเชา			Chec	ked 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 Heldwood (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 mct/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.	
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RECEIVED NOV 0 3 2010 Title: Partner KCC WICHITA	Date: 11/2/10 RECEIVED NOV 0 3 2010 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 **1S** 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.