## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				(	See Instruc	tions on Reve	erse Side	e)		. ,		
✓ Open Flow  Test Date: 4-18-13									No. 15 165-21159 -	- 4000		
Company				4-10-13		Lease		10-	100-21109		Well Number	
Bear Petroleum LLC  County Location Section						Hartman TWP	C	RNG (E/W)			Acres Attributed	
Rush NE NE NW 2							16W			160		
				Reservoir Neva, Red Eagle, LKC			Gas Gathering Connection IACX Energy, LLC					
Completion Date Plug Back Tota 1-13-84 3360					k Total Dep	epth Packer Set at						
Casing Size Weight 4 1/2" 9.5			Internal Diameter 4"		Set at 3587		Perforations Neva 2388-92		то Red Eagle 2451-55			
Tubing Size Weig 2 3/8" 4.6			ght	Internal Diameter 2"				Perforations		т <sub>о</sub> LKC 3316-20		
Type Com	spletion (	(Describe)		Type Flui	d Productio	3485			nit or Traveling			
Domny Producing	ting le	ed (Gas	s+Oil)	Saltwa % C	iter Carbon Diox	ide		Pumpi % Nitrog	ng Unit en	Gas Gr	avity - G	
Annulus	3											
Vertical D	epth(H)				Pres	ssure Taps				(Meter I <b>4"</b>	Run) (Prover) Size	
Pressure	Buildup:	Shut in	17	13 at 1	1:00	(AM) (PM) 1	raken 4-	18	20	13 at 11:00	(AM) PM)	
Well on L	•									at		
					OBSERVE	ED SURFACE	DATA			Described of Obert	:	
Static /	Orifice	Ce Circle one: Pressure  Meter Differential		Flowing			g	Tubing		Duration of Shut-	nHours	
Dynamic Property	Size (inches)	Prover Pres	I	Temperature Temperature t		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>a</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	(Barrels)	
Shut-In		psig (Fin	inches 11 <sub>2</sub> 0			560	psia	psig	psia			
Flow						1						
					FLOW ST	REAM ATTRIE	BUTES					
Plate Coeffieci (F <sub>b</sub> ) (F <sub>p</sub> Mcfd	ent	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>		reviation Metered Flo Factor R F <sub>pv</sub> (Mcfd)		w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
(P <sub>c</sub> ) <sup>2</sup> =		: (P <sub>w</sub> )²	_ ,	(OPEN FL		/ERABILITY) (P.	CALCUL - 14.4) +		÷	(P <sub>a</sub> ) (P <sub>d</sub> )	2 = 0.207	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide	P.2 - P.2	Backpress Slope	sure Curve = "n" or gned	nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog	
			divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub>	2 by:		Standar	d Slope		LJ		(Mcfd)	
Open Flov	v		Mcfd @ 14	65 psia		Deliverabili	tv			Mcfd @ 14.65 psi	a	
	•	ed authority			tates that h			make th		ort and that he ha		
	=	•	said report is tru					day of M	•	and that no no	, <sub>20</sub> 13	
		Witness					Bear	Petr	Oleum	Company KAN	RECEIVE SAS CORPORATIO	

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Bear Petroleum LLC
	t the foregoing pressure information and statements contained on this application form are true and
	o the best of my knowledge and belief based upon available production summaries and lease records
of equip	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the Hartman C #1
	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
l fur	ther 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: _5-	-6-13
Jaie. <u> </u>	<u></u>
	Signature:
	Title: President
	Hile

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.

RECEIVED

KANSAS CORPORATION COMMISSION