KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:						(5	See Instru	ctions on Re	everse Side)					
Open Flow					Test Date: API No. 15										
✓ Deliverabilty					July 25, 2012				15033211600000						
Company Castelli	Expl	ora	tion, Inc.					Lease Merrill	Ranch				#1-21	Well Nu	mber
County Location			Section		TWP			RNG (E/W)		Acres Attributed					
Comanche SW NE NE			21 Reservoir		335	33S 16W Gas Gathering Conne			action	RECEIVE					
Field Ham				Mississ	sippi	16	Oneok Packer Set at				DEC 2 6 20 To KCC WICHI				
Completion Date 04/08/02				4990'	k Total De	•	4.467				To KCC MICLIA				
Casing Si 11/2"			Weight 10.5#			Internal C		503	Set at 5030'		Perforations 4973'-81'				
Tubing Size Weight 2 3/8"					Internal D	Diameter		Set at Perforations 4975'				То			
Type Completion (Describe) Single Zone Gas Perforations				Type Fluid Saltwa	d Producti te r	oก	Pump Unit or Travelir Pumping								
•		(Anr	ulus / Tubin	g)	•	% C	arbon Dio	xide		% Nitrog	gen		Gas Gr	avity - C	ag _e
Annulus Vertical D		·					Pre	essure Taps					(Meter f	Run) (Pr	rover) Size
rentical B	opa (i i	,						, ocaro rapo							
Pressure	Buildup	o: {	Shut in Jul	y 24	4 20	2 12 at 8	:00	_ (AM) (PM)	Taken_Jι	ıly 25	20	12 at	8:00	(AM) (PM)
Well on Li	ne:	,	Started		20) at		_ (AM) (PM)	Taken		20	at _		(AM) (PM)
			***				OBSERV	ED SURFAC	E DATA			Duration	of Shut-	in	Hours
Static / Dynamic	Orific Size	Meter		•	Pressure Differential in	Flowing Temperature	•		Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration Liqu (Hours)		d Produced Barrels)
· I		hes) Prover Pressu psig (Pm)		1	Inches H ₂ 0	t	t	psig	(P _w) or (P _t) or (P _c) psig psia		psia	(10	,uis)	(22)	
Shut-In								861	875.4						
Flow				_											
				1.			FLOW ST	REAM ATT	RIBUTES					-1	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Gravity Factor F _e		Flowing Temperature Factor F _{rt}	Fa	iation letor - pv	Metered Flov R (Mcfd)	v	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
				<u>L.</u>											
P)2 =			(₽)² =	=	;	•	OW) (DEL	IVERABILIT' % (Y) CALCUL (P _c - 14.4) +		:			² = 0.2	
$\frac{ P_{c} ^{2}}{(P_{c})^{2} \cdot (P_{a})^{2}}$ or $(P_{c})^{2} \cdot (P_{d})^{2}$		(P _o) ² - (P _w) ²		Choos 1	se formula 1 or 2: . P _c ² - P _a ² . P _c ² - P _d ² ad by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide	LOG of formula 1, or 2. and divide P2. P2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog De		pen Flow iverability s R x Antilog (Mcfd)
Open Flow Mcfd @ 14.65 psia					65 psia	osia Deliverability				Mctd @ 14.65 psia					
		_	I authority, o								he above repo	ort and th			eledge of 20 <u>12</u> .
			Witness	if any))						For	Company			
			For Comr	nissior	n						Che	cked by			

KCC WICHITA

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request
	under Rule K.A.R. 82-3-304 on behalf of the operator Castelli Exploration, Inc.
	regoing pressure information and statements contained on this applidation form are true and
correct to the b	est of my knowledge and belief based upon available production summaries and lease records
	stallation and/or upon type of completion or upon use being made of the gas well herein named. quest a one-year exemption from open flow testing for the Merrill Ranch #1-21
	grounds that said well:
(Che	eck 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
Į.	is not capable of producing at a daily rate in excess of 250 mcf/D
	gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
Date: Septem	ber 20, 2012
	Signature:
	Title: President

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.