## 7

4.7

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

Type Test	:				(-	See Instruct	ions on Re	verse Side	15-6	33-2	520-00	$\mathcal{M}$
Open Flow			Test Date:				API No. 15					
De	liverab	ilty	·		July 6, 2	010			150	3324491000 21,520-0	2400	
Company Castelli Exploration, Inc.					Lease Merrill Ranch				41,0 00	2-4	Well Number 2-4	
County Location Comanche E/2 NW NW NW				Section 4				RNG (E/W) 16W			Acres Attributed	
Field Ham					Reservoir Mississippi			Gas Gat Oneok	hering Conne	ection		
Completion Date 06/04/08				Plug Bacl 4990	Plug Back Total Depth 4990			Packer S	Set at			
Casing Size Weight 4 1/2" 105#			t	Internal D	iameter	Set at 5095'		Perforations 4914		то 5016		
	Tubing Size Weight			Internal Diameter		Set at		Perforations		То		
2 3/8" N/A					N/A 4988' Type Fluid Production			Pump Ur	nit or Traveling	Plunger? Yes	/ No	
Type Completion (Describe) Single Gas Zone Perforation				• •	Saltwater			Pump Unit or Traveling Plunger? Yes / No Pumping Unit				
	_	(Anı	nulus / Tubing	1)	% C	% Carbon Dioxide			% Nitrog	en	Gas Gra	avity - G <sub>g</sub>
Annulus  Vertical Depth(H) Pressure Taps (Meter Run) (Prover									Run) (Prover) Size			
vertical L	opuiti	יי				ries.	sule laps				(INICICI I	1411) (1 10401) 0120
Pressure	Buildu	p:	Shut in July	/ 6 2	0_10_at_8:	:00	(AM) (PM)	Taken_Ju	ıly 7	20	10 at 8:00	(AM) (PM)
Well on L	ine:		Started	20	) at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACI	E DATA			Duration of Shut-	n 24 Hours
Static /	Orifi	ce	Circle one:	Pressure	Flowing	Well Head	Cas	ing	1	Tubing	A	
Dynamic Property	mic Size Meter Differ		1	Temperature Temperature		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
	(11.011		psig (Pm)	Inches H <sub>2</sub> 0	•	•	psig	psia	psig	psia		
Shut-In							877	891.4				
Flow									<u> </u>			
<u> </u>						FLOW STR	EAM ATTR	IBUTES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or		Press Extension	Grav Fact		Flowing Temperature	TIEVI		Metered Flow R	GOR (Cubic Fee	Flowing Fluid
		Pro	ver Pressure psia	$\sqrt{P_m x h}$	F		Factor F <sub>tt</sub>	i i	pv	(Mcfd)	Barrel)	Gravity G <sub>m</sub>
					(ODEN EI (	OW) (DELIV	ERABILITY	CALCIII	ATIONS			
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =			) CALCOL P <sub>c</sub> - 14.4) +		:	(P <sub>d</sub> ) <sup>(</sup>	? = 0.207 ? =
				Choose formula 1 or 2:			1	ssure Curve			. 0,	Open Flow
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> ·P <sub>a</sub> <sup>2</sup>	LOG of formula 1. or 2.			oe = "n" · or	_ nx	LOG	Antilog	Deliverability Equals R x Antilog
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>d</sub> ) <sup>2</sup>			2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		signed ard Slope				(Mcfd)
					1							
Open Flo	w	Mcfd @ 14.65 psia					Deliverability			Mcfd @ 14.65 psia		
The	unders	igne	d authority, o	n behalf of the	Company, s	tates that h	e is duly au	uthorized t	o make th	ne above repo	rt and that he ha	s knowledge of
				aid report is true					day of A			, 20 10
			,			RECEI			(	7		-
	***********		Witness (	f any)		<del></del>	-	10		For C	company	
			For Comm	ission		DEC 2 3	zu10 _			Chec	ked by	

KCC WICHITA

exempt status under Rule K.A.R. 82-3- and that the foregoing pressure inform correct to the best of my knowledge an of equipment installation and/or upon to	runder the laws of the state of Kansas that I am authorized to request 304 on behalf of the operator Castelli Exploration, Inc.  mation and statements contained on this application form are true and helief based upon available production summaries and lease records type of completion or upon use being made of the gas well herein named.  ption from open flow testing for the Merrill Ranch #2-4
is on vacuum at the  √ is not capable of pr	er lift due to water ral gas for injection into an oil reservoir undergoing ER e present time; KCC approval Docket No roducing at a daily rate in excess of 250 mcf/D st of my ability any and all supporting documents deemed by Commission
RECEIVED DEC 2 3 2010 KCC WICHITA	Signature:

## 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.