KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

a. 🔾

Type Test:	;				(Se	ee Instructi	ons on Rev	verse Side,)				
Op:	en Flov	W			Test Date:				ΔΡΙ	No. 15			
√ Del	liverabi	ilty			October 1	8, 2015				47	000		
Company Castelli		ora	tion, Inc.				_{Lease} Emma	Smith		<u> </u>	#1	Well Number	
County Edwards			Location NWSESW		Section 1		TWP 25S		RNG (E/W) 16W		,	Acres Attributed	
Field Wil					Reservoir Miss/Kir	nderhook	(nering Conne n Energy	ction		
Completic 1/21/57		e			Plug Back	Total Depth	า		Packer S	et at			
Casing Size 5 1/2"			Weight		Internal Ciameter		Set at 4333'		Perforations 4230-34 4240-49		т _о 19 4253-6	то 4253-60	
Tubing Size 2 3/8"			Weight		Internal Ciameter		Set at		Perforations		То	То	
Type Com Commir			escribe) s Zone Per	forations	Type Fluid Condeา		ı			it or Traveling ng Unit	Plunger? Yes		
Producing Thru (Annulus / Tubing)					% Ca	rbon Dioxid	ie	% Nitrogen			Gas Gravity - G _g		
Annulus Vertical D		1)				Press	sure Taps				(Meter F	Run) (Prover) Size	
70111007	op.i.i(i	•,									(, (* * ,	
Pressure	Buildu	p:	Shut in Octo	ober 18 ₂	0_15_at_8:0	00	(AM) (PM)	Taken O	ctober 1	9 20	15 at 8:00	(AM) (PM)	
Well on Li	ine:	;	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in Hours	
Static /	Orifi		Circle one: Meter	Pressure Differential		Well Head	Cas Wellhead	•	1	Tubing ad Pressure	Duration	Liquid Produced	
Dynamic Property	Siz (inch		Prover Pressu. psig (Pm)	re in Inches H _o 0	Temperature 1	emperature t	(P _w) or (P			(P _t) or (P _c)	(Hours)	(Barrels)	
Shut-In			F-13 (1 11)				135	psia 149.4	psig	psia			
Flow													
				•	ı	FLOW STR	EAM ATTR	IBUTES					
Plate Coeffied (F _b) (F Mcfd	ient p)		Circle one: Meter or over Pressure psia	Press Extension P _m xh	Gravit Fac o F _e		Flowing emperature Factor F ₁₁	Fa	iation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	l Gravity I	
				·	(OPEN FL:)	W) (DELIV	- ERABILITY) CALCUL	ATIONS		(P.)	² = 0.207	
(P _c) ² =		_:	(P _w) ² =	:	P _d =_	9	% (F	P _c - 14.4) +	14.4 =	:	(P _d)		
(P _c) ² - (F or (P _c) ² - (F	_	(F	P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P.2 - P.2	Slo As	ssure Curve pe = "n" - or signed	l n x	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				divided by: P _c ² -P _w	2 <i>by:</i> [Stand	lard Slope					
Open Flow Mofd @ 14.6				55 psia		Deliverability		Mcfd @ 14.6			ia		
The	unders	igne	d authority, or	behalf of the	Company, st	ates that h	e is duly a			•	rt and that he ha	-	
the facts s	tated t	herei	in, and that sa	id report is tru	334 (4): '	Receive	ed		day of $\frac{J}{\Delta}$	anuary		, 20 <u>16</u> .	
			Witness (i	(apv)	Kansas (CORPORATIO	N COMMISSIC	N TO	nu ()	2 Cant	Company		
,			***************************************	uny/	F	EB 0	2018						
			For Comm	ission						Chec	ked by		

CONSERVATION ORASION WICHITA, KS

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Castelli Exploration, Inc.
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records
of equipment inst	allation and/or upon type of completion or upon use being made of the gas well herein named.
l hereby requ	lest a one-year exemption from open flow testing for the Emma Smith #1
gas well on the g	rounds that said well:
(Checi	k 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
V	is not capable of producing at a daily rate in excess of 250 mcf/D
i further agre	ee to supply to the best of my ability any and all supporting documents deemed by Commission
_	ry to corroborate this claim for exemption from testing.
olan do nocesa	y to correspond to the side of exemption from testing.
0	1.0040
Date: January 2	1, 2016
	Boseived Signature: The Cut
	ANNUAL COPPORATION COMMISSION
	FEB 0 1 2016
	CONSERVATION DIVISION
	WICHITA KS

Instructions:

All Contract

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.