

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- ☐ Open Flow
- ☒ Deliverability

 Test Date:  
September 12, 2012

 API No. 15  
15-003-21634-00-00

Company Castelli Exploration, Inc.		Lease Gregg		Well Number 1-30	
County Comanche	Location NE SW SW NW	Section 30	TWP 33	RNG (E/W) 16 W	Acres Attributed
Field NA		Reservoir Mississippi		Gas Gathering Connection Oneok	
Completion Date 06-12-2012		Plug Back Total Depth NA		Packer Set at	
Casing Size 5 1/2"	Weight 15.5	Internal Diameter	Set at 5192	Perforations 4988-91	To 4996-5002
Tubing Size 2 7/8"	Weight	Internal Diameter	Set at 4830	Perforations 5010-25	To 5027-36
Type Completion (Describe) Single Zone Gas Perforations		Type Fluid Production Saltwater/Oil		Pump Unit or Traveling Plunger? Yes / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps		Gas Gravity - G <sub>g</sub>	
				(Meter Run) (Prover) Size	
Pressure Buildup: Shut in <u>Sept 11</u> 20 <u>12</u> at <u>8:00</u> (AM) (PM) Taken <u>Sept 12</u> 20 <u>12</u> at <u>8:00</u> (AM) (PM)					
Well on Line: Started _____ 20 ____ at _____ (AM) (PM) Taken _____ 20 ____ at _____ (AM) (PM)					

OBSERVED SURFACE DATA									Duration of Shut-in _____ Hours		
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						620	634.4				
Flow											

FLOW STREAM ATTRIBUTES								
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>ti</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS							
(P <sub>c</sub> ) <sup>2</sup> = _____ :		(P <sub>w</sub> ) <sup>2</sup> = _____ :		P <sub>d</sub> = _____ %		(P <sub>c</sub> - 14.4) + 14.4 = _____ :	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</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> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$		Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	
						n x LOG [ ]	
						Antilog	
						Open Flow Deliverability Equals R x Antilog (Mcfd)	

Open Flow	Mcfd @ 14.65 psia	Deliverability	Mcfd @ 14.65 psia
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The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 5th day of October, 20 12.

Witness (if any)

For Company

For Commission

Checked by

RECEIVED

DEC 26 2012

Form G-2  
(Rev. 7/03)

KCC WICHITA

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 Castelli Exploration, Inc 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 Gregg # 1-30 gas well 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

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.

Date: October 5th, 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.