

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow Field test by Peoples Natural Gas COF 1500 mcf/day
 Deliverability

Test Date:

01/22/1976

API No. 15

15-095-20446-0000

Company Robert E. Campbell, Oil & Gas Operations			Lease Castle		Well Number #1
County Kingman	Location C W/2 NW SW	Section 17	TWP 29S	RNG (E/W) 7W	Acres Attributed 320
Field Settle		Reservoir Mississippi	Gas Gathering Connection (Current) West Wichita Gas Gathering, LLC		
Completion Date 12/30/1975		Plug Back Total Depth 4180	Packer Set at None		
Casing Size 4-1/2" Liner	Weight 14#	Internal Diameter --	Set at 4161	Perforations Open Hole	To 4,161 - 4,181
Tubing Size 2-3/8"	Weight ---	Internal Diameter --	Set at 4169	Perforations --	To --
Type Completion (Describe) Single (Gas)		Type Fluid Production Gas w/water	Pump Unit or Traveling Plunger? Yes / No Pumping Unit		
Producing Thru (Annulus / Tubing)		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g	

CURRENT INFO: Annulus

Vertical Depth(H) _____ Pressure Taps _____ (Meter Run) (Prover) Size _____

Pressure Buildup: Shut in 12/11 20 14 at 9:20 (AM) ~~(PM)~~ Taken 12/11 20 14 at 9:20 (AM) ~~(PM)~~ X
 Well on Line: Started 12/12 20 14 at 9:20 (AM) ~~(PM)~~ Taken 12/12 20 14 at 9:20 (AM) ~~(PM)~~ X

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						40#	110#	40#	40#		
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{dv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_e = _____ % (P_c - 14.4) + 14.4 = _____ : (P_e)² = 0.207
 (P_d)² = _____

(P _c) ² - (P _e) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _e ² 2. P _e ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow _____ Mcfd @ 14.65 psia Deliverability Same Mcfd @ 14.65 psia

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 19th day of December, 20 14.

Received
KANSAS CORPORATION COMMISSION

Robert E. Campbell
For Company

Witness (if any) _____
For Commission _____

DEC 24 2014

CONSERVATION DIVISION
WICHITA, KS

Checked by _____

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 Robert E. Campbell, Oil & Gas Operations 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 Castle #1 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: 12/19/14

Signature: 
Title: Operator

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.