

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:

API No. 15

175 20546-0001

Company Kaiser Francis Oil Company		Lease Graber		Well Number 4-7	
County Seward	Location SWNW	Section 7	TWP 33S	RNG (E/W) 31W	Acres Attributed
Field Massoni		Reservoir Chase		Gas Gathering Connection DCP	
Completion Date 4/3/95		Plug Back Total Depth 2700		Packer Set at 2544	
Casing Size 5.5	Weight 15.5	Internal Diameter 4.67	Set at 5100	Perforations 2584	To 2634
Tubing Size 2.875	Weight 6.5	Internal Diameter 2.441	Set at 2544	Perforations	To
Type Completion (Describe) Single		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / (No)	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 2609		Pressure Taps Flange		(Meter Run) (Prover) Size 3	
Pressure Buildup: Shut in 9/28/11 19 at _____ (AM) (PM) Taken 9/29/11 19 at _____ (AM) (PM)					
Well on Line: Started _____ 19 at _____ (AM) (PM) Taken _____ 19 at _____ (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H ₂ O	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure (P ₁) or (P ₂) or (P ₃)		Tubing Wellhead Pressure (P ₄) or (P ₅) or (P ₆)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in										24	
Flow								102			

FLOW STREAM ATTRIBUTES

Plate Coefficient (F ₁) (F ₂) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_1 \times H_1}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _d	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _s

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P₁)² = _____ : (P₂)² = _____ : P_e = _____ % (P_e - 14.4) + 14.4 = _____ : (P₁)² = 0.207
(P₂)² = _____

(P ₁) ² - (P ₂) ² or (P ₁) ² - (P _e) ²	(P ₁) ² · (P ₂) ²	Choose formula 1 or 2: 1. P ₁ ² · P ₂ ² 2. P ₁ ² · P _e ² divided by: P ₂ ² · P _e ²	LOG of formula 1. or 2. and divide by: $\frac{P_1^2 \cdot P_2^2}{P_2^2 \cdot P_e^2}$	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

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 24 day of October, 2011

Witness (if any) _____ RECEIVED _____
For Commission _____ **JAN 17 2012** _____
Checked by _____

KCC WICHITA

I declare under penalty or 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 Kaiser Francis Oil Company and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Graber 4-7 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 incapable of producing at a daily rate in excess of 150 mcf/D

Date: 10/24/11

Signature: Robert Major
Title: Production Records Manager

Instructions: All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.