

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

175-21557-0000

| | | | | | |
|--|-------------------------|--|--|---------------------------------------|-------------------|
| Company Kaiser Francis Oil Company | | Lease Bruner | | Well Number 1-18 | |
| County Seward | Location NWNE | Section 18 | TWP 33S | RNG (E/W) 31W | Acres Attributed |
| Field Hugoton | | Reservoir Council Grove | Gas Gathering Connection DGP | | |
| Completion Date 8/20/96 | | Plug Back Total Depth 2798 | Packer Set at 2519 | | |
| Casing Size 4.5 | Weight 10.5 | Internal Diameter 4.052 | Set at 2849 | Perforations 2560 | To 2644 |
| Tubing Size 2.375 | Weight 4.7 | Internal Diameter 1.995 | Set at 2519 | Perforations | To |
| Type Completion (Describe) Single | | Type Fluid Production | Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No | | |
| Producing Thru (Annulus / Tubing) Tubing | | % Carbon Dioxide | % Nitrogen | Gas Gravity - G _s | |
| Vertical Depth (H) 2602 | | Pressure Taps Flange | | (Meter Run) (Prover) Size 2 | |
| 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 t | Well Head Temperature t | Casing Wellhead Pressure (P _{cs}) or (P ₁) or (P ₂) | | Tubing Wellhead Pressure (P _{ts}) or (P ₁) or (P ₂) | | Duration (Hours) | Liquid Produced (Barrels) |
|---------------------------|---------------------|---|--|-----------------------|-------------------------|---|------|---|------|------------------|---------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut-In | | | | | | | | 52 | | 24 | |
| Flow | | | | | | | | | | | |

FLOW STREAM ATTRIBUTES

| Plate Coefficient (F _{pl}) (F _o) Mctd | Circle one: Meter or Prover Pressure psia | Press Extension $\sqrt{P_a \times H_a}$ | Gravity Factor F _g | Flowing Temperature Factor F _t | Deviation Factor F _{sv} | Metered Flow R (Mctd) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity G _s |
|---|---|---|-------------------------------|---|----------------------------------|-----------------------|--------------------------|--------------------------------------|
| | | | | | | | | |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = _____ ; (P₁)² = _____ ; P_a = _____ % ; (P_a - 14.4) + 14.4 = _____ ; (P₁)² = 0.207 ; (P_o)² = _____

| | | | | | | | |
|--|---|---|---|---|--|---------|--|
| (P _o) ² - (P ₁) ² or (P ₁) ² - (P _o) ² | (P _o) ² - (P ₁) ² | Choose formula 1 or 2: 1. P ₁ ² - P _o ² 2. P _o ² - P ₁ ² divided by: P ₁ ² - P _o ² | LOG of formula 1. or 2. and divide by: $\left[\frac{P_1^2 - P_o^2}{P_1^2 - P_o^2} \right]$ | Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope | n x LOG $\left[\frac{P_1^2 - P_o^2}{P_1^2 - P_o^2} \right]$ | Antilog | Open Flow Deliverability Equals R x Antilog Mctd |
| | | | | | | | |

Open Flow

Mctd @ 14.65 psia

Deliverability

Mctd @ 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.

RECEIVED *Robert Major*
For Company

Witness (if any)

JAN 17 2012

For Commission

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 Bruner 1-18 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.