Form G-2
(Rev. 7/03)

# KANSAS CORPORATION COMMISSION
# ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: *(See Instructions on Reverse Side)*

☐ Open Flow
☐ Deliverability

Test Date: 3-15-13

API No. 15: 15-077-00984-0000

| Company | Lease | Well Number |
|---|---|---|
| Frank J. Black Oil Operations, Inc. | Hale | 2 |

| County | Location | Section | TWP | RNG (E/W) | Acres Attributed |
|---|---|---|---|---|---|
| Harper | NW SW NW SW | 18 | 32 | 9W | 40 |

| Field | Reservoir | Gas Gathering Connection |
|---|---|---|
| Sharon | Mississippi | Pioneer Exploration |

| Completion Date | Plug Back Total Depth | Packer Set at |
|---|---|---|
| 2-10-56 | 4352' | None |

| Casing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 5-1/2" | 15.5# | 4.950" | 4345' | Open Hole 4345' | 4352' |

| Tubing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 2-7/8" | 6.5# | 2.441" | 4323' | 4300' | 4304' |

| Type Completion (Describe) | Type Fluid Production | Pump Unit or Traveling Plunger? Yes / No |
|---|---|---|
| One Pay Zone (MISS) | Salt water & crude oil | Pumping Unit |

| Producing Thru (Annulus / Tubing) | % Carbon Dioxide | % Nitrogen | Gas Gravity - $G_g$ |
|---|---|---|---|
| SW & oil thru tubing;gas thru annulus | | | |

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

Pressure Buildup: Shut in 3-14 20 13 at 9:15 AM (AM) (PM) Taken 3-15 20 13 at 9:15 AM (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 $H_2O$ | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Casing psia | Tubing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Tubing psia | Duration (Hours) | Liquid Produced (Barrels) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-In | | | | | | 165 | | | | | |
| Flow | | | | | | | | | | | |

## FLOW STREAM ATTRIBUTES

| Plate Coefficient ($F_b$) ($F_p$) Mcfd | Circle one: Meter or Prover Pressure psia | Press Extension $\sqrt{P_m x h}$ | Gravity Factor $F_g$ | Flowing Temperature Factor $F_{tt}$ | Deviation Factor $F_{pv}$ | Metered Flow R (Mcfd) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity $G_m$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

## (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = _____ : $(P_w)^2$ = _____ : $P_d$ = _____ % $(P_c - 14.4) + 14.4$ = _____ : $(P_a)^2$ = 0.207 $(P_d)^2$ = _____

| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | $(P_c)^2 - (P_w)^2$ | Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ 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 (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 _____ day of _____, 20 _____.

Witness (if any) _____ For Company _____

For Commission _____ Checked by _____

RECEIVED
MAR 25 2013
KCC WICHITA

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(Rev. 7/03)

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 Frank J. Black Oil Operations, 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 Hale #2 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: 3-20-13

Signature: James D. Black

Title: Pres., Frank J. Black Oil Operations, Inc.

**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.

# FRANK J. BLACK

OIL OPERATIONS, INC.

11105 W. 119th Terrace
Overland Park,
Kansas 66213

(913) 685-0959
OR
(913) 851-4336


March 20, 2013

Mr. Jim Hemmen
KANSAS CORPORATION COMMISSION
Conservation Division
130 S. Market, Room 2078
Wichita, KS 67202-3802

Re: Gas Test Exemption

Mr. Hemmen:

I have enclosed a G-2 Form for each of the 2 wells on our Hale Lease in Harper County. Pressure readings were taken on March 15, 2013. Both wells still qualify for exemption: total production on the lease (both wells) averaged only about 76 Mcf/day in 2012.

Sincerely,

Susan Black

Susan Black