# STATE OF KANSAS – CORPORATION COMMISSION

FORM C-2
8-7-58

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-103-20986-0000 5-22-89

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: April 20, 1989

| COMPANY | LEASE | WELL NO. |
|---|---|---|
| Fairway Petroleum, Inc. | Stuckey | 2-1 |

| COUNTY | LOCATION | SECTION | TWP | RNG | ACRES |
|---|---|---|---|---|---|
| Leavenworth | SW SW SW | 29 | 9S | 23E | 40 |

| FIELD | RESERVOIR | PIPELINE CONNECTION |
|---|---|---|
| | McLouth | None |

| COMPLETION DATE | PLUG BACK TOTAL DEPTH | PACKER SET AT |
|---|---|---|
| 3/30/88 | 1210 | |

| CASING SIZE | WT. | I.D. | SET AT | PERF. | TO |
|---|---|---|---|---|---|
| | | 4½" | 1210 | 1132 | 1133 |

| TUBING SIZE | WT. | I.D. | SET AT | PERF. | TO |
|---|---|---|---|---|---|
| | | | | | |

| TYPE COMPLETION (Describe) | TYPE FLUID PRODUCTION | |
|---|---|---|
| Perforation | None | |

| PRODUCING THRU | RESERVOIR TEMPERATURE F | BAR. PRESS – $P_a$ |
|---|---|---|
| 4½" Casing | 72° | 14.4 Psia |

| GAS GRAVITY – $G_g$ | % CARBON DIOXIDE | % NITROGEN | API GRAVITY OF LIQUID |
|---|---|---|---|
| 0.593 | 0 | 1.9 | |

| VERTICAL DEPTH (H) | TYPE METER CONN. | (METER RUN)(PROVER) SIZE |
|---|---|---|
| 1210 | none | 2" |

SHUT-IN PRESSURE: SHUT IN April 12, 1989 19___ AT ___ (AM)(PM) TAKEN ___ 19___ AT ___ (AM)(PM)

FLOW TEST: STARTED April 18, 1989 19___ AT ___ (AM)(PM) TAKEN ___ 19___ AT ___ (AM)(PM)

### OBSERVED DATA

DURATION OF SHUT-IN 24 HR.

| SHUT-IN OR FLOW | ORIFICE SIZE in. | (METER) (PROVER) PRESSURE psig | DIFF. in. $(h_w)(h_d)$ | FLOWING TEMP. t | WELL-HEAD TEMP. t | CASING WELLHEAD PRESS. psig | CASING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia | TUBING WELLHEAD PRESS. psig | TUBING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia | DURATION HOURS | LIQUID PROD. Bbls. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SHUT-IN | | | | | | 394 | 408.4 | | | 24 | |
| FLOW | .50 | 326 | -- | 72 | 72 | 326 | 340.4 | | | 1 | |

### RATE OF FLOW CALCULATIONS

| COEFFICIENT $(F_b)(F_p)$ Mcfd | (METER) (PROVER) PRESSURE psia | EXTENSION $\sqrt{P_m x h_w}$ | GRAVITY FACTOR $F_g$ | FLOWING TEMP. FACTOR $F_t$ | DEVIATION FACTOR $F_{pv}$ | RATE OF FLOW R Mcfd | GOR | $G_m$ |
|---|---|---|---|---|---|---|---|---|
| 4.388 | 340.4 | -- | 1.299 | 0.9887 | 1.015 | 1,947 | | |

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STATE CORPORATION COMMISSION
MAY 22 1989
05-22-89
Wichita, Kansas

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 166.8 ; $(P_w)^2$ = 115.9 ; $P_d$ = ___ % ; $(P_c - 14.4) + 14.4$ = ___ ; $(P_d)^2$ = 0.207

| $(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$ | $(P_c)^2-(P_w)^2$ | $\left[\frac{P_c^2-P_a^2}{P_c^2-P_d^2}\right]$ / $\left[\frac{P_c^2-P_d^2}{P_c^2-P_w^2}\right]$ | LOG [ ] | "n" | n x LOG [ ] | ANTILOG | OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd |
|---|---|---|---|---|---|---|---|
| | 50.9 | | | 0.85 | | | 6,253 |
| | | | | | | | |

OPEN FLOW 6,253 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 20 day of April, 1989.

Witness (if any)

For Company

Checked by