

15-181-20096-00-00  
 STATE OF KANSAS - CORPORATION COMMISSION  
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

P 5 v 2  
 3.2.82  
 FORM G-2  
 8-7-58

TYPE TEST:  Deliverability  Open Flow TEST DATE: 2-5-83

COMPANY: Centennial LEASE: Wiggins WELL NO.: 1

COUNTY: Sherman LOCATION: NW 1/4 SECTION: 8 TWP: 8 RNG: 29 ACRES:

FIELD: Hickman RESERVOIR: Half Breed PIPELINE CONNECTION:

COMPLETION DATE: PLUG BACK TOTAL DEPTH: PACKER SET AT:

CASING SIZE: WT. I.D. SET AT PERF. TO

TUBING SIZE: WT. I.D. SET AT PERF. TO

TYPE COMPLETION (Describe): Simple gas TYPE FLUID PRODUCTION:

PRODUCING THRU: Casing RESERVOIR TEMPERATURE F BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .585 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN 2-5 1983 AT (AM)(PM) TAKEN 2-8 1983 AT (AM)(PM)

FLOW TEST: STARTED 2-8 1983 AT (AM)(PM) TAKEN 2-9 1983 AT (AM)(PM)

OBSERVED DATA DURATION OF SHUT-IN HR.

| SHUT-IN OR FLOW | ORIFICE SIZE in. | (METER) (PROVER) PRESSURE psig | DIFF. In. (h <sub>w</sub> )(h <sub>d</sub> ) | FLOWING TEMP. t | WELL-HEAD TEMP. t | CASED WELLHEAD PRESS. |  | TUBING WELLHEAD PRESS. |  | DURATION HOURS | LIQUID PROD. Bbls. |
|-----------------|------------------|--------------------------------|--|-----------------|-------------------|-----------------------|--|------------------------|--|----------------|--------------------|
|                 |                  |                                |  |                 |                   | psig                  | (P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia | psig                   | (P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia |                |                    |
| SHUT-IN         |                  |                                |  |                 |                   | 23.1                  | 37.5   |                        |  |                |                    |
| FLOW            | .750             | 14.6                           | 4.0  |                 |                   | 14.8                  | 29.2   |                        |  |                |                    |

RATE OF FLOW CALCULATIONS

| COEFFICIENT (F <sub>o</sub> )(F <sub>d</sub> ) Mcfd | (METER) (PROVER) PRESSURE psia | EXTENSION $\sqrt{P_m \times h_w}$ | GRAVITY FACTOR F <sub>g</sub> | FLOWING TEMP. FACTOR F <sub>t</sub> | DEVIATION FACTOR F <sub>pv</sub> | RATE OF FLOW R Mcfd | GOR | G <sub>m</sub> |
|---|--------------------------------|-----------------------------------|-------------------------------|-------------------------------------|----------------------------------|---------------------|-----|----------------|
| 2.779   | 29.0                           | 10.770                            | 1.307                         | 1.000                               | 1.000                            | 39.0                |     |                |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 141 ; (P<sub>w</sub>)<sup>2</sup> = .853 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>a</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

| $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ | $(P_c)^2 - (P_w)^2$ | $\frac{[P_c^2 - P_a^2]}{[P_c^2 - P_w^2]}$ | LOG [ ] | "n"  | "n" x LOG [ ] | ANTILOG | OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd |
|---|---------------------|---|---------|------|---------------|---------|--|
| 1.21  | 5.57                | 2.1724                                    | .3369   | .718 | .2419         | 1.7455  | 68   |

OPEN FLOW 68 Mcfd @ 14.65 psia DELIVERABILITY

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 \_\_\_\_\_, 19\_\_\_\_.

\* ASSUMED "n"

Witness (if any): Glynn Wiley For Commission

Checked by: \_\_\_\_\_

STATE CORPORATION COMMISSION  
 FEB 28 1983  
 CONSERVATION DIVISION  
 WICHITA, KANSAS  
 For Company \_\_\_\_\_