

15-181-20259-00-00

STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
8-7-58

TYPE TEST: Deliverability Open Flow TEST DATE: 6-2-86

COMPANY: GOODLAND GAS COMPANY LEASE: Schwendener WELL NO.: 1-26

COUNTY: Sherman LOCATION: SW 1/4 SW 26 SECTION: 26 TWP: 7S RNG: 39W ACRES:

FIELD: Goodland RESERVOIR: Niobrara PIPELINE CONNECTION: KN Energy

COMPLETION DATE: 10-13-83 PLUG BACK TOTAL DEPTH: 1217 PACKER SET AT:

CASING SIZE: 4 3/8" WT. L.D. SET AT 1253 PERF. TO 1045

TUBING SIZE: None WT. L.D. SET AT PERF. TO

TYPE COMPLETION (Describe): Frac 100,000# Sd. 937 Bbls H₂O TYPE FLUID PRODUCTION: Gas

PRODUCING THRU: Casing RESERVOIR TEMPERATURE F: 13.2 BAR. PRESS - P_a: XXXX Psia

GAS GRAVITY - G_r: 0.5837 % CARBON DIOXIDE: 1.98 % NITROGEN: 2.79 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: Orifice (METER RUN) (ORIFICE) SIZE: 2.067

SHUT-IN PRESSURE: SHUT IN 5-25 19 86 AT (AM)(PM) TAKEN 5-30 19 86 AT (AM)(PM)

FLOW TEST: STARTED 5-30 19 86 AT (AM)(PM) TAKEN 6-2 19 86 AT (AM)(PM)

OBSERVED DATA DURATION OF SHUT-IN 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 | | TUBING WELLHEAD PRESS | | DURATION HOURS | LIQUID PROD. Bbls. |
|-----------------|------------------|--------------------------------|--|-----------------|-------------------|-----------------------|--|-----------------------|--|----------------|--------------------|
| | | | | | | psig | (P _w)(P _i)(P _c) psia | psig | (P _w)(P _i)(P _c) psia | | |
| SHUT-IN | -- | -- | -- | -- | -- | 26 | 39.2 | -- | -- | 72+ | -- |
| FLOW | 0.375 | -- | -- | 58 | -- | 14.8 | 28 | -- | -- | 72 | -- |

RATE OF FLOW CALCULATIONS

| COEFFICIENT (F _w)(X) Mc/d | (METER) (PROVER) PRESSURE psia | EXTENSION $\sqrt{P_{mshw}}$ | GRAVITY FACTOR F _g | FLOWING TEMP. F _L | DEVIATION FACTOR F _{pv} | RATE OF FLOW R Mc/d | GOR | O _m |
|---------------------------------------|--------------------------------|-----------------------------|-------------------------------|------------------------------|----------------------------------|---------------------|-----|----------------|
| 28.4 | -- | -- | 1.3089 | 1.0019 | 1.0009 | 16 | -- | -- |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

| $(P_c)^2 - (P_w)^2$ or $(P_c)^2 - (P_d)^2$ | $(P_c)^2 - (P_w)^2$ | $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$ | LOG [] | n* | n x LOG [] | ANTILOG | OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mc/d |
|--|---------------------|---------------------------------------|---------|--------|-------------|---------|--|
| 1.362 | 0.753 | 1.810 | 0.258 | 0.8732 | 0.225 | 1.679 | 27 |

OPEN FLOW 27 Mc/d @ 14.65 psia DELIVERABILITY Mc/d @ 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 25th day of NOV, 1986

Witness (if any) For Commission
 Robert M. Richards For Company
 DEC 5 1986
 Checked by DEC 1 1986