

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

FORM O-2
 8-7-58

15-091-21744-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 1/3/89

COMPANY: OLATHE JOINT VENTURE LEASE: Baudendistel WELL NO.: #5
 R.J. Baudendistel

COUNTY: Johnson LOCATION: 3230' fsl 1660' fel SECTION: SE, SW, NE 8 TWP: 14 S. RNO: 23E. ACRES: 40

FIELD: olathe RESERVOIR: Bartlesville Sd. PIPELINE CONNECTION: Brock Exploration, Inc. (Cottonwood J.V.)

COMPLETION DATE: 3/13/86 PLUG BACK TOTAL DEPTH: _____ PACKER SET AT: 775 ft

CASING SIZE: 2 7/8" WT. _____ L.D. 2 1/2" SET AT: 775 ft PERF. TO: open hole to 815 ft.

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

TYPE COMPLETION: single TYPE FLUID PRODUCTION: dry

PRODUCING THROUGH: single RESERVOIR TEMPERATURE: _____ BAR. PRESS - P_a : 14.4 Psia

GAS GRAVITY - G_g : .5763 % CARBON DIOXIDE: .77% % NITROGEN: 3.56% API GRAVITY OF LIQUID: _____

VERTICAL DEPTH (H): 795 ft TYPE METER CONN.: flange (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN 1/2/89 19 _____ AT 1:44 (AM)(PM) TAKEN 1/3 19 89 AT 12:24 (AM)(PM)

FLOW TEST: STARTED 1/3/89 19 _____ AT 12:24 (AM)(PM) TAKEN 1/3 19 89 AT 1:13 (AM)(PM)

OBSERVED DATA DURATION OF SHUT-IN: 22.3 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 WELL-HEAD PRESS. | | TUBING WELL-HEAD PRESS. | | DURATION HOURS | LIQUID PROD. Bbls. |
|-----------------|------------------|--------------------------------|--|-----------------|-------------------|-------------------------|--|-------------------------|--|----------------|--------------------|
| | | | | | | psig | (P _w)(P _i)(P _c) psia | psig | (P _w)(P _i)(P _c) psia | | |
| SHUT-IN | 1/8 | 105 | | | | | 119.65 | | | 22.3 | |
| FLOW | 1/8 | 57 | | @60° | | | 71.65 | | | .8 | |

RATE OF FLOW CALCULATIONS

| COEFFICIENT (P _c) ² - (P _d) ² Mcfd | (METER) (PROVER) PRESSURE psia | EXTENSION $\sqrt{P_m h_w}$ | GRAVITY FACTOR F _g | FLOWING TEMP. FACTOR F _L | DEVIATION FACTOR F _{pv} | RATE OF FLOW R Mcfd | GOR | Q _m |
|--|--------------------------------|----------------------------|-------------------------------|-------------------------------------|----------------------------------|---------------------|-------|--|
| .2716 | 71.65 | | 1.318 | 1.000 | 1.006 | 25.80 | NOTE- | Table III for orifice well tester shows 30.6mc |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 14,316.1 (P_w)² = 5,133.7 P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_d)² = _____

| $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$ | (P _c) ² - (P _w) ² | $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$ | LOG [] | "n" | n x LOG [] | ANTILOG | OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd |
|---|---|---------------------------------------|---------|-----|-------------|---------|--|
| 14,101.5 | 9,182.4 | 1.5591 | | 1.0 | | 1.5591 | 40.22 |

OPEN FLOW 40.22 Mcfd @ 14.65 psia DELIVERABILITY 40.22 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 5TH day of JANUARY, 1989.
 Gary P. Glenn
 Witness (if any)
 James F. Stegawa
 For Company
 My Appt. Exp. 1-28-92
 Checked by _____

