NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM C-122-B

This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manuel of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL BALLARD FORMATION PICTURED CLIFFS

COUNTY SAN JUAN DATE WELL TESTED 12-20-55

OPERATOR BENSON-MONTIN LEASE STATE WELL NO. 2

1/4 SECTION: NE UNIT LETTER G SEC. 32 TWP. 26N RGE. 8W

CASING: 5-1/2 " O.D. SET AT 2128 TUBING 1" . " WT. 1.6# SET AT 2160

PAY ZONE: FROM 2123 TO 2200 GAS GRAVITY: MEAS. EST. .650

TESTED THROUGH: CASING x TUBING

TEST NIPPLE 3/4" I.D. choke nipple I.D. TYPE OF GAUGE USED ☐ Deadweight Tester (Spring) (Manometer)

OBSERVED DATA SEE ATTACHED SHEET

SHUT IN PRESSURE: CASING TUBING: S. I. PERIOD

TIME WELL OPENED: TIME WELL GAUGED:

IMPACT PRESSURE:

VOLUME (Table I) .. .. (a)

MULTIPLIER FOR PIPE OR CASING (Table II) . .. . (b)

MULTIPLIER FOR FLOWING TEMP. (Table III) . .. . (c)

MULTIPLIER FOR SP. GRAVITY (Table IV) .. .. (d)

AVE. BAROMETER PRESSURE AT WELLHEAD (Table V) .. .. ..

MULTIPLIER FOR BAROMETRIC PRESSURE (Table VI) .. .. .. (e)

INITIAL POTENTIAL, MCF/24 Hrs. (a) x (b) x (c) x (d) x (e) = 2,190

WITNESSED BY: H. L. KENDRICK TESTED BY: VIRGIL L. STOABS

COMPANY: EL PASO NATURAL GAS COMPANY COMPANY: BENSON-MONTIN

TITLE: GAS ENGINEER TITLE: ENGINEER

INITIAL POTENTIAL
FROM
ONE-POINT BACK PRESSURE TEST

BENSON-MONTIN

#2 State

S.I.P. 609 psig csg   S.I. 11 days
609 psig tbg

Open 3 hours through 3/4" i.d. choke nipple

Final flowing pressure 138 psig csg (D.W. Tester)
167 psig tbg (" ")
" " temp. 58°F

CHOKE COEFFICIENT $C = \frac{310.6}{\sqrt{T}}$

(From monograph 7, using .65 gty gas & 15.025 psia & disregarding supercompressibility)

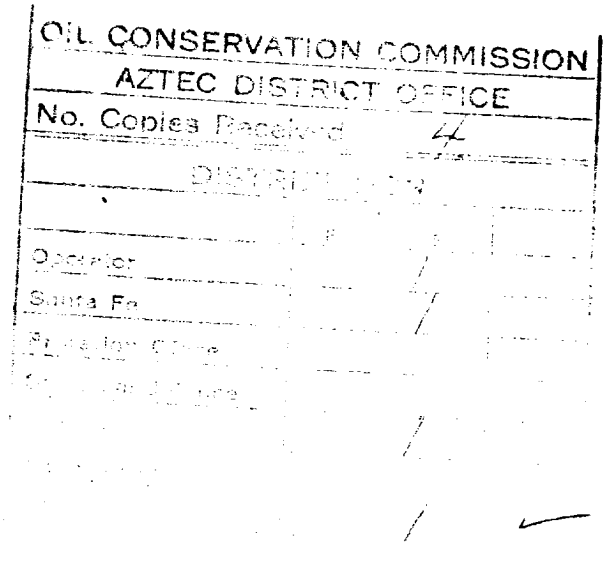
FLOW RATE $Q = \frac{(310.6)(138+12)}{\sqrt{518}} = 2050$ MCF/day

OPEN FLOW $= \frac{2050}{\left[1 - \left(\frac{167}{609}\right)^2\right]^n} =$ 2220 MCF/day for n = 1.00

~

2190 MCF/day for n = .85

alg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