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 12-27-55

OPERATOR BENSON-MONTIN LEASE McMANUS WELL NO. 5

1/4 SECTION: SE UNIT LETTER O SEC. 4 TWP. 25N RGE. 8W

CASING: 5-1/2 " O.D. SET AT 2173 TUBING 1 " WT. 1.6# SET AT 2196

PAY ZONE: FROM 2168 TO 2213 GAS GRAVITY: MEAS. EST. .650

TESTED THROUGH: CASING x TUBING

TEST NIPPLE I.D. TYPE OF GAUGE USED ☐ (Spring) ☐ (Monometer)

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) .. .. ..

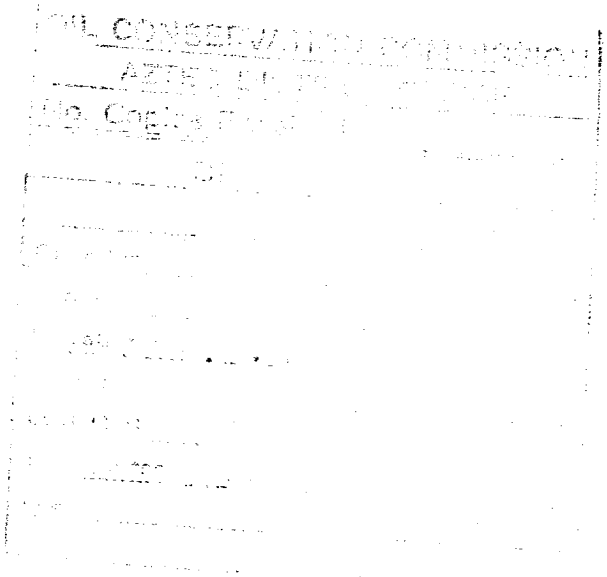
MULTIPLIER FOR BAROMETRIC PRESSURE (Table VI) .. .. .. (e)

INITIAL POTENTIAL, MCF/24 Hrs. (a) x (b) x (c) x (d) x (e) = 2,595

WITNESSED BY: D. M. MITCHELL 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

MS MANUS #5

SIP: 635 PSIA Csg S.I. 11 days
635 PSIA tbg

OPEN 3 HOURS THROUGH 3/4" I.D. CHOKE NIPPLE

FINAL FLOWING PRESSURE 166 PSIA-Csg-DWT
171 " - tbg - "

" " Temp. 56° F

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

FLOW RATE: $Q = \frac{310.6\,(166+12)}{\sqrt{516}} = 2,434$ MCF/da.

OPEN FLOW $= \frac{2,434}{\left[1-\left(\frac{171}{635}\right)^2\right]^n} =$ 2,624 MCF/day for $n = 1.0$

or

2,595 MCF/day for $n = 0.85$