

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM G-122-3

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 Manual 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 McMANUS WELL NO. 12

1/4 SECTION: SW UNIT LETTER N SEC. 29 TWP. 26N RGE. 8W

CASING: 5-1/2 " O.D. SET AT 2022 TUBING 1" " WT. 1.6* SET AT 2090

PAY ZONE: FROM 2017 TO 2105 GAS GRAVITY: IDEAS. EST. .650

TESTED THROUGH: CASING x TUBING

TEST NIPPLE 3/4" I.D. choke nipple I.D. TYPE OF GAUGE USED ☒ Deadweight Tester
(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) = 5,820

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 MOUNTAIN

#12 McManus

S.I.P. 614 psig csy
614 " tbg

S.I. 25 days

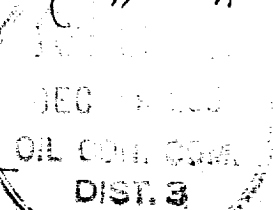
Open 3 hours through $\frac{3}{4}$ " i.d. choke nipple

Final flowing pressure 315 psig csy (A.W. Tester)
319 psig tbg ("")
" " temp. 68°F

CHOKER COEFFICIENT

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

(From monograph 7, using 165 gals gas
x 15.025 psi-pb & disregarding
supercompressibility)



FLOW RATE $Q = \frac{(310.6)(315+12)}{\sqrt{528}} = 4,430$ 17CF/day

OPEN FLOW: $= \frac{4,430}{\left[1 - \left(\frac{319}{614}\right)^2\right]^m} = 6,070$ 17CF/day
for $m = 1.0$
or
5,820 17CF/day
for $m = .85$

ack

OIL CONSERVATION COMMISSION

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