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 KA-DES-PAH WELL NO. 1

1/4 SECTION: SW UNIT LETTER K SEC. 18 TWP. 26N RGE. 8W

CASING: 5-1/2 " O.D. SET AT 1918 TUBING 1" . " WT. 1.6# SET AT 1980

PAY ZONE: FROM 1913 TO 1990 GAS GRAVITY: MEAS. EST. .650

TESTED THROUGH: CASING x TUBING

TEST NIPPLE 3/4" I.D. choke nipple I.D. TYPE OF GAUGE USED ☐ (Spring) Deadweight Tester (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) = 1,775

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

#1 Ka-cles-pah

S.I.P. 629 psig csg S.I. 20 days
629 psig tbg

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

Final flowing pressure 114 psig csg (DW tester)
" " 115 " tbg " "
" " temperature 57°F upstream of choke

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

(From monograph 7, using .65 sp gr gas
& 15.025 psi pb & disregarding
supercompressibility)

FLOW RATE $Q = \frac{(310.6)(114+12)}{\sqrt{517}} = 1720$ MCF/day

OPEN FLOW = $\frac{1720}{\left[1-\left(\frac{115}{629}\right)^2\right]^n}$ = 1780 MCF/day ($n = 1.0$)

or

1775 MCF/day ($n = .85$)

acg

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