

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Mont Kuts Formation Pictured Cliffs County SJ
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 1/31/57
Operator MAC Drilling Co Lease MAC Well No. 24
Unit 1 Sec. 27 Twp. 20N Rge. 11W Pay Zone: From _____ To _____
Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 12/31/56 To 1/8/57 * Date S.I.P. Measured _____
Meter Run Size 4" Orifice Size _____ Type Chart S₁ R₂ Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.45) ² x sp. const. 5.00 _____ = 235 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 235 psia (i)
Wellhead casing shut-in pressure (Dwt) 530 _____ psig + 12 = 542 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 542 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 271 psia (n)

Q = 145 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right) =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 145 $\left[\frac{(P_c^2 - P_d^2) = 220,323}{(P_c^2 - P_w^2) = 238,539} \right]^n \cdot .9350 =$ 136 MCF/da.

SUMMARY

P_c = 542 psia
Q = 145 Mcf/day
P_w = 235 psia
P_d = 271 psia
D = 136 Mcf/day

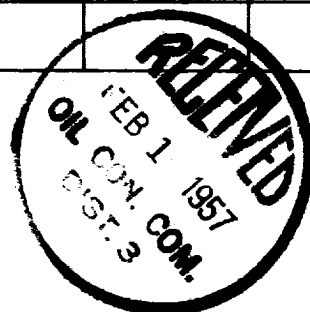
Company Geological, Inc.
By W. J. McCarthy W. J. McCarthy
Title Agent
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w

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