

1 Penrose
1 EPMG
1 File

Form C-122-A
Revised April 20, 1955

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed April 16, 1964
Operator Penrose Production Co. Lease Florance Well No. 4
Unit K Sec. 5 Twp. 25N Rge. 3W Pay Zone: From 3743 To 3777
Casing: OD 4 1/2" WT. Set At 3830 Tubing: OD 1 1/2" WT. T. Perf. 3733
Produced Through: Casing Tubing X Gas Gravity: Measured .652 Estimated
Date of Flow Test: From To * Date S.I.P. Measured 11-14-63
Meter Run Size 4" Orifice Size 2.750" Type Chart S.R. 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 (6.9) ² x sp. const. 5 = 238 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 238 psia (i)
Wellhead casing shut-in pressure (Dwt) 877 psig + 12 = 889 psia (j)
Wellhead tubing shut-in pressure (Dwt) 876 psig + 12 = 888 psia (k)
P_c = (j) or (k) whichever well flowed through = 889 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 80% = 711 psia (n)

FLOW RATE CALCULATION

Q = X $\left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right) = \underline{\hspace{2cm}}$ MCF/da
(integrated)

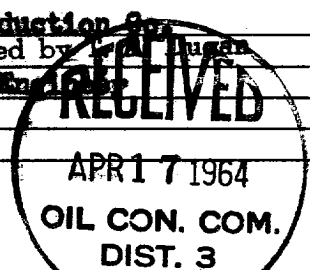
DELIVERABILITY CALCULATION

D = Q 3107 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \underline{\hspace{2cm}}$ MCF/da.
284,800 .9305
309,959 (.9188) .75

SUMMARY

P_c = 889 psia
Q = 3107 Mcf/day
P_w = 693 psia
P_d = 711 psia
D = 2891 Mcf/day

Company Penrose Production Co.
By Original signed by [Signature]
Title Consulting Engineer
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
2434	.162	2615.422	423.698	56.664	480.362	693