

2 Penrose Prod.
1 El Paso
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 GasCo. Date Test Filed May 26, 1964

Operator Penrose Production Co. Lease Flores Well No. 3
Unit A Sec. 4 Twp. 25N Rge. 3N Pay Zone: From 3902 To 3930
Casing: OD 4 1/2" WT. 9.54 Set At 3947 Tubing: OD 1 1/2" WT. 2.754 T. Perf. 3887
Produced Through: Casing Tubing X Gas Gravity: Measured .676 Estimated
Date of Flow Test: From 5-3-64 To 5-11-64 Date S.I.P. Measured 10-25-63
Meter Run Size 4" Orifice Size 1.750 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 (7.2)² x sp. const. 5 = 259 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 259 psia (i)
Wellhead casing shut-in pressure (Dwt) 835 psig + 12 = 847 psia (j)
Wellhead tubing shut-in pressure (Dwt) 837 psig + 12 = 849 psia (k)
P_c = (j) or (k) whichever well flowed through = 849 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 80% = 679 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }}{\text{ }} = \text{ } \right)^* = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1231 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \frac{259,760}{582,283}^{.85} \cdot \frac{.5035}{(.4461)^{.85}} = 620$ MCF/da.

SUMMARY

P_c = 849 psia
Q = 1231 Mcf/day
P_w = 372 psia
P_d = 679 psia
D = 620 Mcf/day

Company Penrose Production Co.
By Original signed by T. A. Dugan
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 _i ² - P _w ²	P _w
2628	.174	410.559	71.437	67.081	138.518	372

