

3 NMCCC
1 Penrose
1 EPNG
1 File

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed April 16, 1964
Operator Penrose Production Co. Lease Florance Well No. 5
Unit D Sec. 5 Twp. 25N Rge. 3W Pay Zone: From 3930 To 3963
Casing: OD 4 1/2" WT. Set At 4009 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3910
Produced Through: Casing Tubing X Gas Gravity: Measured .645 Estimated
Date of Flow Test: From To * Date S.I.P. Measured
Meter Run Size 4" Orifice Size 2.500" 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 (8.3)² x sp. const. 5 = 346 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 346 psia (i)
Wellhead casing shut-in pressure (Dwt) 855 psig + 12 = 867 psia (j)
Wellhead tubing shut-in pressure (Dwt) 856 psig + 12 = 868 psia (k)
P_c = (j) or (k) whichever well flowed through = 868 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 80% = 694 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 4346 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.85} = \text{MCF/da.}$
 $\frac{271,788}{354,591} \cdot .7977 \cdot .85 = 3467$

SUMMARY

P_c = 868 psia
Q = 4346 Mcf/day
P_w = 632 psia
P_d = 694 psia
D = 3467 Mcf/day

Company Penrose Production Co.
By Original signed by
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
2522	.168	1669.625	280.497	118.336	398.833	632

RECEIVED
APR 17 1964
OIL CON. COM.
DIST. 3