

3 - MISC Artes
1 - Outler
1 - Calloway
1 - Smith
2 - Figs

Initial Delivered
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 Alamo Formation Mesa Verde County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 1-9-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 30-5 Well No. 19-18
Unit 6 Sec 18 Twp. 30 Rge. 5 Pay Zone: From 5028' To 5790'
Casing: OD 5-1/2" WT. Set At 5800' Tubing: OD 1-1/4" WT. 2.4 T. Perf. 2775'
Produced Through: Casing Tubing Gas Gravity: Measured .985 Estimated
Date of Flow Test: From 11-23-57 To 11-30-57 * Date S.I.P. Measured 6-17-57
Meter Run Size Orifice Size Type Chart Type Taps

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 (6.65)² x sp. const. 1500 = 663 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 663 psia (i)
Wellhead casing shut-in pressure (Dwt) 1137 psig + 12 = 1149 psia (j)
Wellhead tubing shut-in pressure (Dwt) 885 psig + 12 = 897 psia (k)
P_c = (j) or (k) whichever well flowed through = 1149 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 574.5 psia (n)

FLOW RATE CALCULATION

Q = 586 X $\left(\frac{\sqrt{(a)}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 586 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.1854) .75 = \text{MCF/da.}$
990.151 835.258 1.1360

SUMMARY

P_c = 1149 psia
Q = 586 Mcf/day
P_w = 696 psia
P_d = 574.5 psia
D = 666 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
By Original signed by G. H. Peppin
Title District Production 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
3378	0.218	208.138	45.374	439.569	484.943	696



OK