

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 BLANCO Formation MEGA VERDE County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed JANUARY 16, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 32-8 Well No. 7-22
Unit W Sec. 22 Twp. 31 Rge. 8 Pay Zone: From 5142 To 5138
Casing: OD 5 1/2 WT. 14 Set At 5479 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5470
Produced Through: Casing --- Tubing --- Gas Gravity: Measured --- Estimated .650
Date of Flow Test: From 11-19-56 To 11-27-56 * Date S.I.P. Measured 7-7-55
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 (---)² x sp. const. --- = 547 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) --- = --- psia (h)
P_t = (h) + (f) --- = 547 psia (i)
Wellhead casing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1043 psig + 12 = 1055 psia (k)
P_c = (j) or (k) whichever well flowed through --- = 1055 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 --- = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) --- = 528 psia (n)

FLOW RATE CALCULATION

Q = 413 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^*$ = --- MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 413 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.0294)^{.75} = 1.022 = \underline{422} MCF/da.$

SUMMARY

P_c = 1055 psia
Q = 413 Mcf/day
P_w = 550 psia
P_d = 528 psia
D = 422 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Ronald C. Adams
Title Well Test 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
3556	.228	15078	3438	29209	302647	550

3-N.M.O.C.C.-Astec
2-Phillips Petroleum (Wayne Smith)
10711

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