

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 Mesquite Formation Mesquite County El Paso
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 8, 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 30-5 Well No. 15-19
Unit 1 Sec. 19 Twp. 30 Rge. 5 Pay Zone: From 536 To 974
Casing: OD 5" WT. 15 Set At 967 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 974
Produced Through: Casing Tubing x Gas Gravity: Measured .67 Estimated
Date of Flow Test: From 11-11-56 To 11-19-56 * Date S.I.P. Measured 5-11-56
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. = psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = psia (h)
P_i = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) 1187 psig + 12 = 1199 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1190 psig + 12 = 1202 psia (k)
P_c = (j) or (k) whichever well flowed through = 1202 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 = 547 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 601 psia (n)

Q = 535 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \text{MCF/da}$

DELIVERABILITY CALCULATION

D = Q 535 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(0.9789)^{T_s - 500}}{T_s} = \text{MCF/da.}$

SUMMARY

P_c = 1202 psia
Q = 535 Mcf/day
P_w = 974 psia
P_d = 601 psia
D = 916 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Walter C. Jones
Title Field Test Engineer
Witnessed by
Company

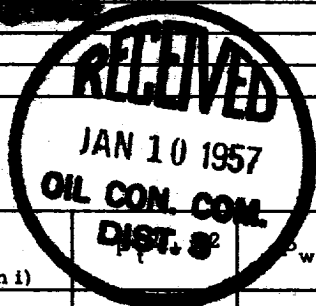
* This is date of completion test.
* Meter error correction factor

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)	DIST. S ²	P _w
3872	.045	25302	6199	96102	307600	974

3-J.H.S.S.C. - Jones
2-Phillips Petroleum Company - Phillips
1-L.S. Taylor
1-File

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