

3 - MUSE - Artes
1 - L.G. Truby
2 - El Paso Nat. Gas (Galloway)
2 - Phillips Petr.
1 - File

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 Mesaverde Formation Mesaverde County Rio Arriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 17 1957

Operator EL PASO NATURAL GAS Lease PHILLIPS STATE Well No. 61
Unit L Sec. 16 Twp. 30 Rge. 6 Pay Zone: From 5205 To 5290
Casing: OD 7" WT. 23# Set At 2335 Tubing: OD 2-3/8 WT. 4.75 T. Perf. 570
Produced Through: Casing Tubing X Gas Gravity: Measured .605 Estimated
Date of Flow Test: From 12-18-56 To 12-26-56 * Date S.I.P. Measured 12-20-56
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. 463 = 475 psia (g)
Corrected seven day avge. meter press. (p_g) (g) + (e) = psia (h)
P_t = (h) + (f) = 475 psia (i)
Wellhead casing shut-in pressure (Dwt) 1106 psig + 12 = 1118 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1106 psig + 12 = 1118 psia (k)
P_c = (j) or (k) whichever well flowed through = 1118 psia (l)
Flowing Temp. (Meter Run) 52 °F + 460 = 518 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 559 psia (n)

Q = 680 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 680 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.9835} = \text{MCF/day}$
1,015,144 .9402

SUMMARY

P_c = 1118 psia
Q = 680 Mcf/day
P_w = 485 psia
P_d = 559 psia
D = 641 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION
By Donald G. 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
3487	.884	40070	9155	234700	485	



