

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 Himco Formation Mesa Verde County Mc Arlin
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-12-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 60-19
Unit X Sec. 18 Twp. 29N Rge. 6W Pay Zone: From 5496' To 4960'
Casing: OD 5 1/2" WT. 14 1/2 Set At 5575' Tubing: OD 1 1/2" WT. 2.44 T. Perf. 5495'
Produced Through: Casing Tubing XX Gas Gravity: Measured .680 Estimated
Date of Flow Test: From 11-29-58 To 12-7-58 * Date S.I.P. Measured 8-6-58
Meter Run Size Orifice Size 1.500 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 (7.45) ² x sp. const. 10.00 = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 555 psia (h)
P_t = (h) + (f) = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1111 psig + 12 = 1123 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1106 psig + 12 = 1118 psia (k)
P_c = (j) or (k) whichever well flowed through = 1123 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 561.5 psia (n)

Q = 1,029 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \underline{1,029}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 1,029 $\left[\frac{(P_c^2 - P_d^2) = 945,847}{(P_c^2 - P_w^2) = 850,353} \right]^n \frac{(1.182)^{.75}}{1.134} = \underline{1,167}$ MCF/da.

SUMMARY
P_c = 1123 psia
Q = 1029 Mcf/day
P_w = 679 psia
P_d = 561.5 psia
D = 1167 Mcf/day
Company PACIFIC NORTHWEST PIPELINE
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
3737	0.236	641.812	152.751	308.025	460.776	679



