

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 Mesa Verde County San Juan
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 7-21-58

Operator PACIFIC NORTHWEST PIPELINE Lease Blanco 31-8 Well No. 3-35
Unit A Sec. 35 Twp. 31 North Rge. 8 West Pay Zone: From 5592' To 5092'
Casing: OD 5 1/2" WT. Set At 5715' Tubing: OD 1 1/4" WT. 2.3 T. Perf. 5582'
Produced Through: Casing Tubing X X Gas Gravity: Measured .686 Estimated
Date of Flow Test: From 6-15-58 To 6-22-58 * Date S.I.P. Measured 3-31-58
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 (7.40)² x sp. const. 10.00 = 548 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 548 psia (h)
P_t = (h) + (f) = 1043 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = 1055 psia (j)
Wellhead tubing shut-in pressure (Dwt) 979 psig + 12 = 979 psia (k)
P_c = (j) or (k) whichever well flowed through = 1055 psia (l)
Flowing Temp. (Meter Run) 72°F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 527.5 psia (n)

Q = 1,294 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 1,294 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{834,769}{585,376} \right]^n \frac{1.426}{1.305} = \underline{1,689}$ MCF/da.

SUMMARY
P_c = 1055 psia Company Pacific Northwest Pipeline
Q = 1,294 Mcf/day By Original signed by G. H. Peppin
P_w = 725 psia Title District Promotion Engineer
P_d = 527.5 psia Witnessed by
D = 1,689 Mcf/day 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
3494	0.224	1,014.932	227.345	300.304	527.649	726



