

MOCC Astec
-Bill Cutler
2-Jalloway
1-Smith
2-File

Final 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 Rio Arriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 10-21-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 42-25
Unit H Sec. 25 Twp. 29N Rge. 6W Pay Zone: From 5354' To 5924'
Casing: OD 5 1/2" WT. Set At 5950' Tubing: OD 1 1/4" WT. 2.44 T. Perf. 5883'
Produced Through: Casing Tubing xx Gas Gravity: Measured .679 Estimated
Date of Flow Test: From 9-7-58 To 9-15-58 Date S.I.P. Measured 6-25-58
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): 449
Normal chart average reading psig + 12 = 461 psia (g)
Square root chart average reading () ² x sp. const. = 461 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 461 psia (h)
P_t = (h) + (f) = 461 psia (i)
Wellhead casing shut-in pressure (Dwt) 1089 psig + 12 = 1101 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1087 psig + 12 = 1099 psia (k)
P_c = (j) or (k) whichever well flowed through = 1101 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 550.5 psia (n)

Q = 826 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/da
(integrated)

D = Q 826 $\left[\frac{(P_c^2 - P_d^2) = \frac{909,151}{895,465}}{(P_c^2 - P_w^2) = \text{ }} \right]^n \frac{(1.015)^{.75}}{1.011} = \text{835}$ MCF/da.

SUMMARY
P_c = 1101 psia Company PACIFIC NORTHWEST PIPELINE CORP.
Q = 826 Mcf/day By Original signed by G. H. Peppin
P_w = 563 psia Title District Production Engineer
P_d = 550.5 psia Witnessed by
D = 835 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
3995	0.252	413.553	104.215	212.521	316.736	563



