

3-M. A. G. U. C. ASTEC
 1-Bill Cutler
 1-L. D. Galloway
 2-File

Form C-122-A
 Revised April 20, 1955

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 Mesa Verde Formation Mesa Verde County Rio Arriba
 Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 10-2-57
 Operator PACIFIC NORTHWEST PIPELINE Lease Roma Well No. 21-23
 Unit M Sec. 23 Twp. 31N Rge. 6W Pay Zone: From 5250' To 5602'
 Casing: OD 5-1/2" WT. 14# Set At 5725' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 5665'
 Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .591 Estimated _____
 Date of Flow Test: From 10-16-57 To 10-23-57 Date S.I.P. Measured 5-2-57
 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 491 psig + 12 = 503 psia (g)
 Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
 Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = _____ psia (h)
 P_t = (h) + (f) _____ = 503 psia (i)
 Wellhead casing shut-in pressure (Dwt) 1165 psig + 12 = 1177 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 841 psig + 12 = 853 psia (k)
 P_c = (j) or (k) whichever well flowed through _____ = 1177 psia (l)
 Flowing Temp. (Meter Run) 64 °F + 460 _____ = 504 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) _____ = 588.5 psia (n)

Q = 634 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____}} \right)^* = \text{_____} \text{ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 634 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(0.9238)^{.75}}{0.9425} = \text{_____} \text{ MCF/da.}$

SUMMARY

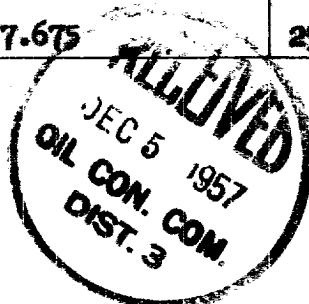
P_c = 1177 psia
 Q = 634 Mcf/day
 P_w = 510 psia
 P_d = 588.5 psia
 D = 598 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION
 By Original signed by G. H. Peppin
 Title District Promotion 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
3348	0.216	35.534	7.675	253.009	260.684	510



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