

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 January 7, 1956
Operator Pacific Northwest Pipeline Lease San Juan Unit 31-6 Well No. 10-32
Unit H Sec. 32 Twp. 31 Rge. 6 Pay Zone: From 5350 To 5838
Casing: OD 5" WT. 11.5 Set At 5854 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5774
Produced Through: Casing ? Tubing x Gas Gravity: Measured 650 Estimated
Date of Flow Test: From 11-18-56 To 11-26-56 Date S.I.P. Measured 8-27-56
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. = 475 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 475 psia (i)
Wellhead casing shut-in pressure (Dwt) 1024 psig + 12 = 1036 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (k)
P_c = (j) or (k) whichever well flowed through = 1053 psia (l)
Flowing Temp. (Meter Run) 44 °F + 460 = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 527 psia (n)

Q = 572 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right)^* = \text{ }$ MCF/da
(Integrated) $\sqrt{(d)} = \text{ }$

DELIVERABILITY CALCULATION

D = Q 572 $\left[\frac{(P_c^2 - P_d^2) = 831,000}{(P_c^2 - P_w^2) = 876,272} \right]^n \frac{(.9484)^{.75} = .9612}{\text{ }} = \text{550}$ MCF/da.

SUMMARY

P_c = 1053 psia
Q = 572 Mcf/day
P_w = 483 482 psia
P_d = 527 psia
D = 550 Mcf/day

Company Pacific Northwest Pipeline Corporation
By Donald C. 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _w
3753	.239	28923	6912		225625	483
					232537	

3-N.M.O.C.C. - Antec
2-Phillips Petroleum - Wayne Smith
1-L. S. Tredy
10File

OK

