

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 MESAVERDE Formation MESAVERDE County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 16, 1957

Operator Pacific Northwest Pipeline Corp. Lease San Juan Unit 32-8 Well No. 8-22
Unit H Sec. 22 Twp. 31 Rge. 8 Pay Zone: From 5390 To 5966
Casing: OD 5 1/2 WT. 14 Set At 5726 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5737
Produced Through: Casing Tubing x Gas Gravity: Measured Estimated .650
Date of Flow Test: From 12-3-56 To 12-11-56 * Date S.I.P. Measured 8-1-55
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. 463 = 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) 1619 psig + 12 = 1031 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1619 psig + 12 = 1031 psia (k)
P_c = (j) or (k) whichever well flowed through = 1031 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 422 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 516 psia (n)

Q = 511 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 511 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(.9578)^{.75}}{.9682} = \text{ }$ MCF/day
796703
831843

SUMMARY

P_c = 1031 psia Company Pacific Northwest Pipeline Corp.
Q = 511 Mcf/day By Donald C. Adams
P_w = 481 psia Title Well Test Engineer
P_d = 516 psia Witnessed by
D = 495 Mcf/day Company

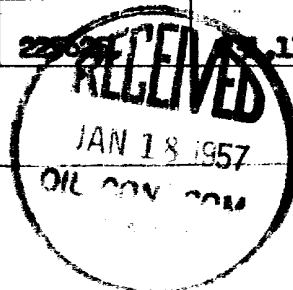
* This is date of completion test.
* Meter error correction factor

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
3729	.238	23078	5493	225625	226118	481

3-M.O.C.C. Astec
2-Phillips Petroleum (Smith)
1-File

OK



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