

Should be blue

Form C-122-A

Revised April 20, 1955

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 Undesignated Formation Dakota County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed January 8, 1960
Operator Pacific Northwest Lease San Juan 29-6 Well No. 33-13
Unit A Sec. 13 Twp. 29N Rge. 6W Pay Zone: From 7844 To 7948
Casing: OD 5" WT. 18.0 Set At 8078 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7892
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .684 Estimated _____
Date of Flow Test: From 12-15-59 To 12-22-59 Date S.I.P. Measured 12-29-59
Meter Run Size 4 Orifice Size 1.500 Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 517 psig + 12 = 529 psia (b)
Flowing meter pressure (Dwt) 506 psig + 12 = 518 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.22)² x spring constant 10.00 = 521 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 3 psi (e)
Friction loss, Flowing column to meter: _____ = 11 psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart): 493 psig + 12 = 505 psia (g)
Normal chart average reading _____ = _____ psia (g)
Square root chart average reading (_____)² x sp. const. _____ = 502 psia (h)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 513 psia (i)
P_t = (h) + (f) _____
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1749 psig + 12 = 1761 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1761 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 881 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{774}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{0.9942}{0.9971} = 0.9971 \right) = 772 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{772}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2324960}{2820831} \right]^n \frac{(0.8242)^{.75}}{0.8650}} = 668 \text{ MCF/day}$$

SUMMARY

P_c = 1761 psia
Q = 770 772 Mcf/day
P_w = 529 psia
P_d = 881 psia
D = 668 Mcf/day

Company EL PASO NATURAL GAS COMPANY
By George H. Papp
Title _____
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
5398	0.325	52.679	17.121	263.169	280.290	529



