

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)

72-299

Pool Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 29-7 Well No. 70
Unit M Sec. 35 Twp. 29 Rge. 7 Pay Zone: From 5108 To 5702
Casing: OD 5-1/2 WT. 15.5 Set At 5767 Tubing: OD 1-1/4 WT. 2.6 T. Perf. 5675
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 670 Estimated _____
Date of Flow Test: From 11/29/58 To 12/7/58 * Date S.I.P. Measured 8/1/58 (7)
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 (7.30)² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 533 psia (h)
P_t = (h) + (f) _____ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1093 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1093 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1105 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 553 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{1414} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1414 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{915216}{643645} \right]^n \frac{1.4219}{1.3020} = \underline{1841} \text{ MCF/da.}$

SUMMARY

P_c = 1105 psia
Q = 1414 Mcf/day
P_w = 760 psia
P_d = 553 psia
D = 1841 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____ Harold L. Kendrick
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
3802	.242	1,211.945	293,291	284,089	577,380	760

D at 500 = 1439

OK

