

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)

100-004

Pool Alamo NV Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-4 Well No. 19 (M)
Unit A Sec. 5 Twp. 27 Rge. 4 Pay Zone: From 6230 To 6388
Casing: OD 5-1/2 WT. 15.50 Set At 6450 Tubing: OD 2" WT. 4.7 T. Perf. 6305
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .671 Estimated _____
Date of Flow Test: From 1/22/59 To 1/30/59 * Date S.I.P. Measured 8/26/58 (15 days)
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 (7.19) ² x sp. const. 10 _____ = 517 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 517 psia (h)
P_t = (h) + (f) _____ = 517 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1009 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 505 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{351}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 351 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{356}$ MCF/day.
763,056 1.0202
747,906 1.0151

SUMMARY

P_c = 1009 psia Company El Paso Natural Gas
Q = 351 Mcf/day By _____
P_w = 520 psia Title _____
P_d = 505 psia Witnessed by Harold L. Kendrick
D = 356 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
<u>4231</u>	<u>.265</u>	<u>10.890</u>	<u>2,886</u>	<u>267,289</u>	<u>270,175</u>	<u>520</u>

D at 500 = 353



OK