

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 Formation Mesa Verde County Rio Arriba
 Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/14/55
 Operator El Paso Natural Gas Co. Lease San Juan 28-7 Well No. 33
 Unit A Sec. 13 Twp. 28 Rge. 7 Pay Zone: From 5293 To 5888
 Casing: OD 5 1/2 WT. 15.5 Set At 5930 Tubing: OD 2 WT. 4.7 T. Perf. 5790
 Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .670
 Date of Flow Test: From 11/22 To 11/30 * Date S.I.P. Measured 10/14/55
 Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (7.15)² x sp. const. 10 = 511 psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
 P_t = (h) + (f) = 511 psia (i)
 Wellhead casing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (k)
 P_c = (j) or (k) whichever well flowed through = 1064 psia (l)
 Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) = 532 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1972}$ MCF/day
 (integrated)

DELIVERABILITY CALCULATION

D = Q 1972 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.0797}{1.0592} = \underline{2089}$ MCF/day

SUMMARY

P_c = 1064 psia Company El Paso Natural Gas Company
 Q = 1972 Mcf/day By Original Signed
 P_w = 588 psia Title Lewis D. Galloway
 P_d = 532 psia Witnessed by _____
 D = 2089 Mcf/day Company _____

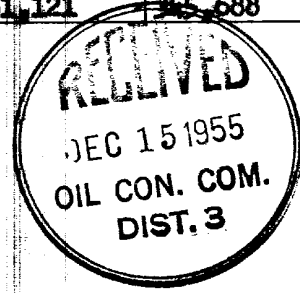
* This is date of completion test.
 * Meter error correction factor

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>3879</u>	<u>.246</u>	<u>343,769</u>	<u>84,567</u>	<u>261,121</u>	<u>345,688</u>	<u>588</u>

D @ 500 = 1970

OK



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