

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 South Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Turner State Well No. 12-2
Unit 0 Sec. 2 Twp. 27 Rge. 9 Pay Zone: From 2261 To 2310
Casing: OD 5 1/2 WT. 15.5 Set At 2378 Tubing: OD 1 WT. 1.68 T. Perf. 2285
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 4/30/57 To 5/9/57 * Date S.I.P. Measured 11/29/56 (10 days)
Meter Run Size 4 Orifice Size 1.250 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 (7.25) ² x sp. const. 5 _____ = 263 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 263 psia (h)
P_t = (h) + (f) _____ = 263 psia (i)
Wellhead casing shut-in pressure (Dwt) 788 psig + 12 = 800 psia (j)
Wellhead tubing shut-in pressure (Dwt) 788 psig + 12 = 800 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 800 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 400 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(a)} = \dots = \dots}{\sqrt{(d)} = \dots} \right)^* = \underline{997}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 997 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{480,000}{570,831} \right]^n \frac{.8408}{.8629} = \underline{860}$ MCF/da.

SUMMARY

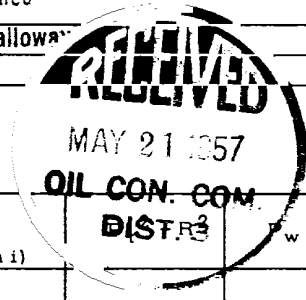
P_c = 800 psia Company El Paso Natural Gas Company
Q = 997 Mcf/day By Original Engineer
P_w = 263 psia Title _____
P_d = 400 psia Witnessed by Lewis D. Galloway
D = 860 Mcf/day Company _____

- * 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 _w
FRICTION NEGLIGIBLE					

D @ 250 = 998



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