

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 _____
Operator El Paso Natural Gas Company Lease Wilson Well No. 6
Unit N Sec. 35 Twp. 30 Rge. 7 Pay Zone: From 5532 To 6004
Casing: OD 5 1/2 WT. 15.5 Set At 6033 Tubing: OD 2 WT. 4.7 T. Perf. 5920
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 680 Estimated _____
Date of Flow Test: From 4-22 To 4-30 * Date S.I.P. Measured 12-19-55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Root 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.20)² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 518 psia (h)
P_t = (h) + (f) = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1067 psig + 12 = 1079 psia (k)
P_c = (j) or (k) whichever well flowed through = 1079 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 540 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = \underline{1668} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q - \underline{1668} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{\underline{872,641}}{\underline{833,444}} \right]^n \frac{\underline{1.0470}}{\underline{1.0351}} = \underline{1727} \text{ MCF/da.}$$

SUMMARY

P_c = 1079 psia
Q = 1668 Mcf/day
P_w = 575 psia
P_d = 540 psia
D = 1727 Mcf/day

Company El Paso Natural Gas Company
By Original
Title Lewis D. Galloway
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 |
|-------------|----------------------|---------------------------------|--|---|--|----------------|
| <u>4026</u> | <u>.254</u> | <u>245.956</u> | <u>62,473</u> | <u>268,324</u> | <u>330,797</u> | <u>575</u> |

D @ 500 = 1677



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