

Initial Deliverability
Test
72925

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)

Basin Dakota Formation El Paso Natural Gas County El Paso
Pool El Paso Natural Gas Date Test Filed 7/29/61
Purchasing Pipeline El Paso Natural Gas
Operator El Paso Natural Gas Lease 11 Well No. 7502
Unit 5-1/2 Sec. 17 Twp. 7709 Pay Zone: From 2-3/8 To 4-7
Casing: OD WT. Set At X Tubing: OD WT. T. Perf. 7502
Produced Through: Casing 5/29/61 Tubing 6/6/61 Gas Gravity: Measured 9/28/60 Estimated
Date of Flow Test: From To * Date S.I.P. Measured
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 = 511 psia (g)
Square root chart average reading ()² x sp. const. = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
P_t = (h) + (f) 1964 psig + 12 = 1976 psia (i)
Wellhead casing shut-in pressure (Dwt) 1964 psig + 12 = 1976 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 1976 psia (k)
P_c = (j) or (k) whichever well flowed through 66 = 526 psia (l)
Flowing Temp. (Meter Run) °F + 460 = 988 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

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

DELIVERABILITY CALCULATION
D = Q 483 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{.8051}{.8500} = \text{ } \text{MCF/da}$

SUMM 1976
P_c = 483 psia
Q = 517 Mcf/day
P_w = 988 psia
P_d = 483 psia
D = Mcf/day

El Paso Natural Gas
Company
By Original signed by
Title H. 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
1043	0.302.	20621	6228	20321	26739	517

D at 500 = 483

