

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 27
Unit N Sec. 26 Twp. 28 Rge. 7 Pay Zone: From 4880 To 5625
Casing: OD 7 WT. 20 & 23 Set At 4880 Tubing: OD 2 WT. 4.7 T. Perf. 4950
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 5/1/57 To 5/9/57 * Date S.I.P. Measured 8/24/56
Meter Run Size 4 Orifice Size .750 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 (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1079 psig + 12 = 1091 psia (j)
Wellhead tubing shut-in pressure (Dwt) 875 psig + 12 = 887 psia (k)
P_c = (j) or (k) whichever well flowed through = 887 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)
P_d = ½ P_c = ½ (l) = 444 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \frac{366}{1} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 366 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.2621}{1.1910} = \frac{436}{1} \text{ MCF/da.}$
 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{589,633}{467,148}$

SUMMARY

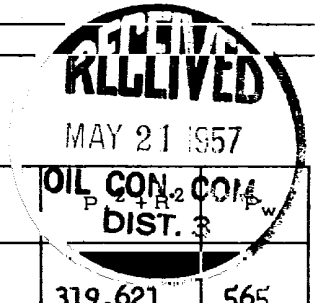
P_c = 887 psia
Q = 366 Mcf/day
P_w = 565 psia
P_d = 444 psia
D = 436 Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
Title _____
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})	P _t ²	P ₂ ² + P ₁ ² COM	P _w
			R ₂	(Column i)	DIST. 3	
3490	0.224	11.840	2652	316,969	319,621	565



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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