

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 32-9 Well No. 47
Unit M Sec. 4 Twp. 31 Rge. 9 Pay Zone: From 5367 To 5851
Casing: OD 5½ WT. 15.5 Set At 5970 Tubing: OD 2 WT. 4.7 T. Perf. 5884
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 4/30 To 5/8/57 * Date S.I.P. Measured 11/14/56
Meter Run Size 4 Orifice Size 1.500 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: _____ = _____ 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 (7.25)² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1008 psig + 12 = 1020 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1001 psig + 12 = 1013 psia (k)
P_c = (j) or (k) whichever well flowed through = 1013 psia (l)
Flowing Temp. (Meter Run) 92 °F + 460 = 552 °Abs (m)
P_d = ½ P_c = ½ (l) = 507 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1795}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1795 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1968}$ MCF/da.
 $\frac{769,120}{680,279}$ $\frac{1.1305}{1.0962}$

SUMMARY

P_c = 1013 psia
Q = 1795 Mcf/day
P_w = 588 psia
P_d = 507 psia
D = 1968 Mcf/day

Company El Paso Natural Gas Company
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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
3825	243	284,833	69,214	276,676	345,890	588

D @ 500 = 1821



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