

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. 25
Unit K Sec. 23 Twp. 28 Rge. 7 Pay Zone: From 4925 To 5695
Casing: OD 7 WT. 20 & 23 Set At 4925 Tubing: OD 2 WT. 4.7 T. Perf. 5000
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 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 .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:
(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 (7.35)² x sp. const. 10 _____ = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 540 psia (h)
P_t = (h) + (f) _____ = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 679 psig + 12 = 691 psia (j)
Wellhead tubing shut-in pressure (Dwt) 763 psig + 12 = 775 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 775 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 388 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{103}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 103 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{137}$ MCF/day.
 $\frac{1.4564}{1.3260}$

SUMMARY

P_c = 775 psia
Q = 103 Mcf/day
P_w = 540 psia
P_d = 388 psia
D = 137 Mcf/day

Company El Paso Natural Gas
By _____
Title Lewis D. Galloway
Witnessed by _____
Company _____

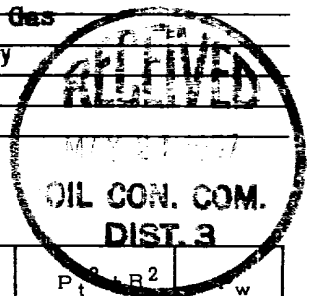
* This is date of completion test.
* Meter error correction factor

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
FRICTION NEGLIGIBLE					

D @ 500 = 110

OK



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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