

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Indwick Well No. 11-M
Unit B Sec. 19 Twp. 30N Rge. 10W Pay Zone: From 4780 To 5226
Casing: OD 7 WT. 20 & 23 Set At 4716 Tubing: OD 2 WT. 4.7 T. Perf. 5166
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 2/20/57 To 2/28/57 * Date S.I.P. Measured 9/25/56
Meter Run Size 4 Orifice Size _____ 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 (6.45) ² x sp. const. 10 _____ = 416 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 416 psia (h)
P_t = (h) + (f) _____ = 416 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ PC psig + 12 = PC psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1098 psig + 12 = 1110 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1110 psia (l)
Flowing Temp. (Meter Run) _____ 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 555 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{458} \text{ MCF/da}$

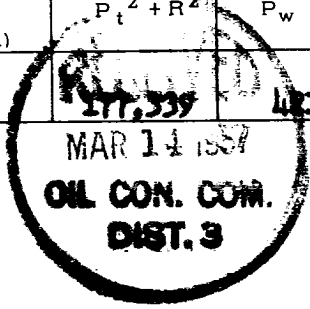
DELIVERABILITY CALCULATION
D = Q 458 $\left[\frac{(P_c^2 - P_d^2) = \text{924,075}}{(P_c^2 - P_w^2) = \text{1,054,761}} \right]^n \frac{.8760}{.9055} = \text{415} \text{ MCF/da.}$

SUMMARY
P_c = 1110 psia
Q = 458 Mcf/day
P_w = 421 psia
P_d = 555 psia
D = 415 Mcf/day
Company El Paso Natural Gas Company
By Richard A. Williams
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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3616	0.231	18,542	4283	173,056	177,339	421



D @ 500 = 429