

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 Wildcat Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Schultz State Well No. 7-2
Unit L Sec. 2 Twp. 29 Rge. 10 Pay Zone: From 2322 To 2369
Casing: OD 5 1/2 WT. 14 Set At 2442 Tubing: OD 1 WT. 1.68 T. Perf. 2366
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 7-31-57 To 8-8-57 * Date S.I.P. Measured 9-27-56 (9days)
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 = _____ psia (g)
Square root chart average reading (6.60) ² x sp. const. 5 _____ = 218 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 218 psia (h)
P_t = (h) + (f) _____ = 218 psia (i)
Wellhead casing shut-in pressure (Dwt) 677 psig + 12 = 689 psia (j)
Wellhead tubing shut-in pressure (Dwt) 676 psig + 12 = 688 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 689 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 345 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(a)}}{\sqrt{(d)}} \right) = \frac{363}{1} = 363$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 363 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{355,696}{427,197} \cdot \frac{.8326}{.8558} = 311$ MCF/da.

SUMMARY

P_c = 689 psia
Q = 363 Mcf/day
P_w = 218 psia
P_d = 345 psia
D = 311 Mcf/day

Company El Paso Natural Gas Company
By J. H. Hallaway
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
			FRICION NEGLIGIBLE			

D at 250 = 348



