

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 Company Lease Howell Well No. 4-K
Unit H Sec. 17 Twp. 30N Rge. 8W Pay Zone: From 4364 To 4493
Casing: OD 7 WT. 80 & 23 Set At 4975 Tubing: OD 2 WT. 4.7 T. Perf. 4870
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated 660
Date of Flow Test: From Jan. 16 To Jan. 23 * Date S.I.P. Measured 11-18-55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Root 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 (7.45)² x sp. const. 1000 = 553 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 553 psia (h)
P_t = (h) + (f) = 553 psia (i)
Wellhead casing shut-in pressure (Dwt) 1050 psig + 12 = 1062 psia (j)
Wellhead tubing shut-in pressure (Dwt) 873 psig + 12 = 885 psia (k)
P_c = (j) or (k) whichever well flowed through = 885 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = ½ P_c = ½ (l) = 443 psia (n)

FLOW RATE CALCULATION

Q = 2012 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 2012 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.4646}{1.331} =$ 2678 MCF/da.

SUMMARY

P_c = 885 psia
Q = 2012 Mcf/day
P_w = 618 psia
P_d = 443 psia
D = 2678 Mcf/day

Company El Paso Natural Gas Company

By Original Signer

Title Lewis D. Galloway

Witnessed by _____

Company _____

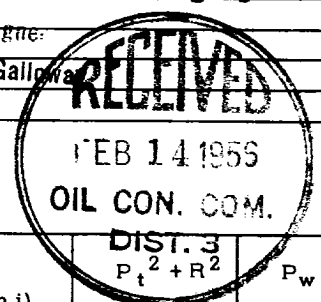
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	DIST. 3 P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3214</u>	<u>.208</u>	<u>357.853</u>	<u>74,433</u>	<u>308,025</u>	<u>382,458</u>	<u>618</u>

D @ 500 = 2156

OK



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