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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 EL PASO Formation EL PASO County EL PASO
Purchasing Pipeline EL PASO Date Test Filed 7-13-56
Operator El Paso Natural Gas Co. Lease 20-5 Well No. 16-27
Unit 1 Sec. 27 Twp. 20N Rge. 30E Pay Zone: From 700' To 800'
Casing: OD 7" WT. 10 Set At 500' Tubing: OD 2" WT. 4.7 T. Perf. 800'
Produced Through: Casing Tubing Gas Gravity: Measured Estimated
Date of Flow Test: From 6-22 To 6-22 * Date S.I.P. Measured 1-1-51
Meter Run Size 1" 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 ()² x sp. const. = psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

FLOW RATE CALCULATION

Q = X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

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

SUMMARY

P_c = psia
Q = Mcf/day
P_w = psia
P_d = psia
D = Mcf/day

Company El Paso Natural Gas Co.
By M. D. McKeown
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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 1)		
<u>Fr = 140</u>	<u>140</u>					

AK



