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Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Elmora Formation Mesa Verde County Rio Arriba
Purchasing Pipeline ELMORA DISTRICT PIPELINE Date Test Filed 5-26-58
Operator ELMORA DISTRICT Lease San Juan 20-5 Well No. 20-22
Unit H Sec. 32 Twp. 29N Rge. 5W Pay Zone: From 5734' To 5190'
Casing: OD 5 1/2" WT. 11.0 Set At 5800' Tubing: OD 1-1/4" WT. 2.3 T. Perf. 5630'
Produced Through: Casing Tubing X Gas Gravity: Measured .683 Estimated
Date of Flow Test: From 3-16 To 3-25 * Date S.I.P. Measured 12-7-57
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 580 psig + 12 = 592 psia (g)
Square root chart average reading ()² x sp. const. = 592 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 592 psia (h)
P_t = (h) + (f) = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 1110 psig + 12 = 1122 psia (j)
Wellhead tubing shut-in pressure (Dwt) 908 psig + 12 = 920 psia (k)
P_c = (j) or (k) whichever well flowed through = 1122 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 561 psia (n)

Q = 235 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^n = \underline{235} MCF/da
(integrated)$

DELIVERABILITY CALCULATION
D = Q 235 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{244} MCF/da.
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{944,163}{980,452}$ $\frac{.75}{1.037}$$

SUMMARY

P_c = 1122 psia
Q = 235 Mcf/day
P_w = 599 psia
P_d = 561 psia
D = 244 Mcf/day

Company ELMORA DISTRICT PIPELINE
By Original signed by G. H. Peppin
Title District Production Engineer
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
<u>3045</u>	<u>0.298</u>	<u>33,478</u>	<u>7,968</u>	<u>350,100</u>	<u>358,068</u>	<u>599</u>

OK

