

Initial Deliverability
Test

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 San Juan County San Juan
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 1-12-59
Operator PACIFIC INDEPENDENT PIPELINE Lease San Juan 38-5 Well No. 23-7
Unit 11 Sec. 7 Twp. 38N Rge. 7W Pay Zone: From 5350' To 5670'
Casing: OD 5 1/2" WT. 24 Set At 5730' Tubing: OD 1 1/2" WT. 2.44 T. Perf. 5670'
Produced Through: Casing --- Tubing --- Gas Gravity: Measured .777 Estimated ---
Date of Flow Test: From 11-23-58 To 12-7-58 * Date S.I.P. Measured 8-8-58
Meter Run Size --- Orifice Size 1.250 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 (6.95)² x sp. const. 14.00 = 143 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) --- = --- psia (h)
P_t = (h) + (f) --- = --- psia (i)
Wellhead casing shut-in pressure (Dwt) 1193 psig + 12 = 1205 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1160 psig + 12 = 1172 psia (k)
P_c = (j) or (k) whichever well flowed through --- = 1205 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 --- = 521 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) --- = 602.5 psia (n)

Q = 842 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{---}}{\sqrt{(d)}} = \text{---}} \right)^* = \text{---}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 842 $\left[\frac{(P_c^2 - P_d^2) = 1,009,019}{(P_c^2 - P_w^2) = 1,127,633} \right]^n \frac{(0.9698)^{.75}}{0.9742} = \text{---}$ MCF/da.

SUMMARY

P_c = 1205 psia
Q = 842 Mcf/day
P_w = 570 psia
P_d = 602.5 psia
D = 842 Mcf/day

Company PACIFIC INDEPENDENT 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>3872</u>	<u>0.212</u>	<u>449.733</u>	<u>92.103</u>	<u>233.259</u>	<u>325.362</u>	<u>570</u>



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