

NOTE: This is to correct test filed on May 2, 1961

Form C-122-A
Revised April 20, 1955

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 Pine Lake Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed June 3, 1961
(Originally filed May 2, 1961)
Operator Honolulu Oil Corporation Lease Jicovilla Apache "A" Well No. 2 - A
Unit 2 Sec. 25 Twp. 26 n Rge. 3 W Pay Zone: From 3965 To 4019
Casing: OD 3 1/2 WT. 14 Set At 4102 Tubing: OD 1 1/4 WT. T. Perf. 4031 O.S.
Produced Through: Casing Tubing X Gas Gravity: Measured .685 Estimated
Date of Flow Test: From 3-7-61 To 3-14-61 * Date S.I.P. Measured 3-21-61
Meter Run Size 4 Orifice Size 1.250 Type Chart L - 10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 482 psig + 12 = 494 psia (a)
Flowing tubing pressure (Dwt) 450 psig + 12 = 462 psia (b)
Flowing meter pressure (Dwt) 235 psig + 12 = 247 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading psig + 12 = psia (d)
Square root chart reading (6.95)² x spring constant 1 = 241 psia (d)
Meter error (c) - (d) or (d) - (c) 6 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 215 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (7.05)² x sp. const. 5 = 248 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 234 psia (h)
P_t = (h) + (f) = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) 702 psig + 12 = 714 psia (j)
Wellhead tubing shut-in pressure (Dwt) 702 psig + 12 = 714 psia (k)
P_c = (j) or (k) whichever well flowed through = 714 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 357 psia (n)

FLOW RATE CALCULATION

Q = 373 X $\left(\frac{\sqrt{(c)} = \sqrt{247} = 1.0123}{\sqrt{(d)} = \sqrt{241}} \right)^2 = \underline{377} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 377 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{500} MCF/da.
n = .85$

SUMMARY

P_c = 714 psia Company Honolulu Oil Corporation
Q = 377 Mcf/day By J. B. Ewing
P_w = 485 psia Title Division Gas Engineer
P_d = 357 psia Witnessed by
D = 500 Mcf/day Company Southern Union Gas 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
2761	.182	86.136	15.676	219,961	235,637	485

r_c = 24.62

(r_c = Q)² = (24.62 x .377)² = 86.136

OK



