

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed July 12, 1960
Operator PUBCO PETROLEUM CORPORATION Lease Delhi State Well No. 1
Unit I Sec. 36 Twp. 30N Rge. 9W Pay Zone: From 2524 To 2546
Casing: OD 1 1/2" WT. 9.5 Set At 2641 Tubing: OD 1.9 WT. 2 1/2 T. Perf. 2425
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .662 Estimated _____
Date of Flow Test: From 6-21-60 To 6-29-60* Date S.I.P. Measured 8-18-59
Meter Run Size 4" Orifice Size 1.5" Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 259 psig + 12 = 271 psia (a)
Flowing tubing pressure (Dwt) 230 psig + 12 = 242 psia (b)
Flowing meter pressure (Dwt) 230 psig + 12 = 242 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.92)² x spring constant 5 = 239 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 3 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 0 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. 5 = 242 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 245 psia (h)
P_t = (h) + (f) = 245 psia (i)
Wellhead casing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (k)
P_c = (j) or (k) whichever well flowed through = 1088 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 544 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{646}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} \ 242 = 15.55635}{\sqrt{(d)} \ 239 \ 15.45962} \right)^* = \frac{(1.00626)}{1} = 650 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{650}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85}} = \frac{650}{\left[\frac{1088^2 - 544^2}{1088^2 - 269^2} \right]^{.85}} = \frac{650}{(0.79902)^{.85} \cdot 0.8263} = 537 \text{ MCF/da.}$$

SUMMARY

"D" at 262 - 652

P_c = 1088 psia
Q = 650 Mcf/day
P_w = 269 psia
P_d = 544 psia
D = 537 Mcf/day

Company PUBCO PETROLEUM CORP.
By B. H. Weyhoff, Jr.
Title Production Engineer
Witnessed by Jack Dunning
Company Pubco Petroleum Corp.

* 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
1605	0.110	114,469	12,592	60,025	72,617	269



