DUAL COMPLETION

OPEN FLOW TEST DATA

Date: July 16, 1956

Operator: El Paso Natural Gas Company Lease: Heaton # 6

Location: 840'N, 1630'E, Sec. 33-31-11 County: San Juan State: N.M.

Formation: Pictured Cliff Pool: Wildcat - Pictured Cliff

Casing: 7 " Set 4532 ' (5½" liner 4434 - 4944) Tubing: 2 " Set 4755 '

Pay Zone: 2386 ' To: 2428 ' Total Depth: Packer at 2501 '

Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing X Tubing ____

Shut-In Pressure Casing: 639 psig + 12 = 651 psia (Shut-in 9 days)

Shut-In Pressure Tubing: ____ psig + 12 = ____ psia

Flowing Pressure: P_t : 216 psig + 12 = 228 psia

Working Pressure: P_w : Calculated psig + 12 = 229 psia

Temperature: T : 85 °F + 460 = 545 ° Absolute

F_{pv} (from tables) : 1.020 Gravity .665 n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

Q = 14.1605 x 228 x .9768 x .9498 x 1.020 = 3055 MCF/D

Open Flow = Aof = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$

Aof = 3055 $\left[\frac{423,801}{371,360}\right]^n$ = $(1.1412)^{.86}$ x 3055 = 1.119 Q x 3055

Aof = 3419 MCF/D

Tested By: K. C. McBride

Witnessed By: A. R. Kendrick, New Mexico Oil Conservation Commission

L. L. Galloway