

Operator EL PASO NATURAL GAS COMPANY		Lease Hardie No. 5 (OWWO)	
Location 990'S, 1650'W, Sec. 23, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5552	Tubing: Diameter 2.375	Set At: Feet 5418
Pay Zone: From 4716	To 5464	Total Depth: 5561	Shut In 12-22-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 823	+ 12 = PSIA 835	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 692	+ 12 = PSIA 704	
Flowing Pressure: P PSIG 254	+ 12 = PSIA 266		Working Pressure: Pw PSIG 709	+ 12 = PSIA 721	
Temperature: T = 69 °F	Ft = .9915	n = .75	Fpv (From Tables) 1.030	Gravity .700	Fg = .9258

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

Q = (12.365)(266)(.9915)(.9258)(1.030) = 3110 MCF/D

OPEN FLOW = Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof = $\left(\frac{697225}{177384} \right)^n = (3110)(3.9305)^{.75} = (3110)(2.7915)$



NOTE: The well unloaded a large slug of dist. and water after 5 minutes, then produced a very heavy spray of s dist. and water throughout the remainder of the test.

Aof = 8682 MCF/D

TESTED BY H. E. McAnally

CHECKED BY T. B. Grant

WITNESSED BY

H. L. Kendrick

H. L. Kendrick

WORKED OVER WELL NOTICE

Form 23-202 (8-60)

The attached Initial Potential Test was made on this well after workover. This test signifies the completion of the workover, and the well is now ready for reconnection and production into the gathering system.

H. L. Kendrick

Sr. Gas Engineer