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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Company Distribution Only

DATE February 9, 1973

Operator Rodney P. Calvin		Lease Wright #1	
Location Unit 0, Sec. 19, T30N, R11W		County San Juan	State NM
Formation PC		Pool Aztec	
Casing: Diameter 4.500	Set At: Feet 2125	Tubing: Diameter 1.660	Set At: Feet 1992
Pay Zone: From 1960	To 1974	Total Depth: 2125	Shut In 1/25/73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .625		Choke Constant: C 8.5417			
Shut-In Pressure, Casing, PSIG 568	+ 12 = PSIA 580	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 510	+ 12 = PSIA 522	
Flowing Pressure: P PSIG 59	+ 12 = PSIA 71		Working Pressure: P _w PSIG 253	+ 12 = PSIA 265	
Temperature: T = 59 °F	F _t = 1.001	n = .85	F _{pv} (From Tables) 1.007	Gravity .620	F _g = .9837

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = (8.5417)(71)(1.0010)(.9837)(1.007) = \underline{601} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{336400}{266175} \right)^n = (601)(1.2638)^{.85} = (601)(1.2202)$$

$$Aof = \underline{733} \text{ MCF/D}$$

NOTE: The well produced a heavy fog of water throughout the test.

TESTED BY Jim Jacobs (Dugan Prod)WITNESSED BY H. E. McAnally

William D Welch

William D. Welch
Well Test Engineer



