

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 9, 1965

Operator El Paso Natural Gas Company		Lease Roelofs "A" No. 3 (OWWO)	
Location 990'N, 990'E, Sec. 9, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5408	Tubing: Diameter 2.375	Set At: Feet
Pay Zone: From 5270	To 5360	Total Depth: 5420 c/o 5376	Shut In 11-1-65
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 840	+ 12 = PSIA 852	Days Shut-In 8	Shut-in Pressure, Tubing PSIG 517	+ 12 = PSIA 529	
Flowing Pressure: P PSIG 280	+ 12 = PSIA 292		Working Pressure: P _w PSIG 693	+ 12 = PSIA 705	
Temperature: T = 75 °F	n = F _t = .9859		F _{pv} (From Tables) 1.026	Gravity .650	F _g = .9608

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365) (292) (.9859) (.9608) (1.026) = \underline{3509} \text{ MCF/D}$$

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

$$Aof = \left(\frac{725,904}{228,879} \right)^n = (3509) (3.1715)^{.75} = (2.3766) (3509) =$$

$$Aof = \underline{8339} \text{ MCF/D}$$

NOTE: Blew water for first 5 minutes.
Blew light fog H₂O and distillate
for remainder of test.

TESTED BY Jesse B. Goodwin.
CHECKED BY Herman E. McAnally
WITNESSED BY

RECEIVED
NOV 15 1965
OIL CON. COM.
DIST. 3
Lewis D. Galloway.
Lewis D. Galloway.