

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 16, 1978

Operator El Paso Natural Gas Company		Lease Fields #4-A	
Location SE 28-32-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5615'	Tubing: Diameter 2 3/8	Set At: Feet 5482'
Pay Zone: From 4431	To 5570	Total Depth: 5615'	Shut In 5-1-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, --	PSIG	+ 12 = PSIA --	Days Shut-In 15	Shut-In Pressure, Tubing 769	PSIG + 12 = PSIA 781
Flowing Pressure: P 263	PSIG	+ 12 = PSIA 275		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 547
Temperature: T = 68 °F	F _t = .9924	n = .75		F _{pv} (From Tables) 1.026	Gravity .650 F _g = .9608

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

$$Q = 12.365 (275) (.9924) (.9608) (1.026) = \text{---} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{609961}{310752} \right)^n = (1.9629)^{.75} = (3327) = (1.6583) (3327)$$

$$Aof = \underline{5517} \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented 342 MCF to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer