

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

WELL IDENTIFICATION

DATE June 19, 1964

Operator El Paso Natural Gas Company		Lease Sunny 2-E (OILCO) (M)	
Location 2650'S, 950'W, Sec. 9, T-30-N, R-10-W		County San Juan	State New Mexico
Formation M. N. Verde		Pool El Paso	
Casing Diameter 8.570	Set At Feet 5426	Tubing Diameter 2.375	Set At Feet 5303
Pay Zone: From 4505	To 5304	Total Depth 5436	Shut in 6-11-64
Stimulation Method Sand Wash Plug.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches 0.750		Choke Constant: C 12.365		Packer Model "D" Packer set at 3100'	
Shut-In Pressure, Casing, (10)	PSIG 107	+ 12 = PSIA 599	Days Shut-in 8	Shut-In Pressure, Tubing (107)	PSIG 654
Flowing Pressure: P _w		PSIG 193	+ 12 = PSIA	Working Pressure: P _w (Calc)	PSIG 377
Temperature: T = 63 °F	n = .9924	.75	F _{pv} (From Tables) 1.020	Gravity .633	F _g = .9393

ISIP (P₀) 507 PSIGPSIP (P₀) 507 PSIG

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365) (193) (.9924) (.9393) (1.020) = 2269 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^{.75}$$

$$Aof = \left(\frac{443556}{301427} \right)^{.75} = (2269) (1.4715)^{.75} = (2269) (1.3360)$$

NOTE: Blew a very light fog of water and distillate throughout test.

$$Aof = 3031 \text{ MCF/D}$$

TESTED BY O. R. Agnew
 CALCULATED
 WITNESSED BY W. D. Dawson

Lewis D. Galloway
 Lewis D. Galloway

