

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 9, 1978

Operator El Paso Natural Gas Company		Lease Fields #7-A	
Location NW 34-32-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5513'	Tubing: Diameter 2 3/8	Set At: Feet 5393'
Pay Zone: From 4313	To 5456	Total Depth: 5513	Shut In 12-30-77
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 10	Shut-In Pressure, Tubing 706	PSIG + 12 = PSIA 718
Flowing Pressure: P 238	PSIG	+ 12 = PSIA 250		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 494
Temperature: T = 67°F	F _t = .9933	n = .75		F _{pv} (From Tables) 1.025	Gravity .670 F _g = .9463

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

$$Q = 12.365(250)(.9933)(.9463)(1.025) = \underline{2978} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{515524}{271488} \right)^n = 2978(1.8989)^{.75} = 2978(1.6176)$$

$$Aof = \underline{4817} \text{ MCF/D}$$

Note: Well blew very light fog of distillate and water throughout test. Well vented 307 MCF of gas to atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer