

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE Nov. 19, 1979

Operator El Paso Natural Gas Company		Lease Rincon Unit #135A (PM)	
Location NW/4 Sec. 29-27-06		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter Liner 7 4.5	Set At: Feet 3499 3347-5923	Tubing: Diameter 2.375	Set At: Feet 5821
Pay Zone: From 4930	To 5804	Total Depth: 5923 PBD 5907	Shut In 11-12-79 11-12-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X X X

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG -----	+ 12 = PSIA -----	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 908	+ 12 = PSIA 920
Flowing Pressure: P PSIG 188	+ 12 = PSIA 200		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 293
Temperature: T = 38 °F F _t = 1.023	n = .75		F _{pv} (From Tables) 1.022	Gravity .650 F _g = .9608

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

$$Q = (12.365)(200)(1.023)(.9608)(1.022) = 2484 \text{ MCF/D}$$

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

$$Aof = \left(\frac{846400}{760551} \right)^n = (1.1129)^{.75} (2484) = (1.0835)(2484)$$

NOTE: Well Blew Heavy Fog of Water and Oil Throughout Test & Vented 257 MCF/D to the Atmosphere.

$$Aof = 2691 \text{ MCF/D}$$

TESTED BY G. Archebeque

WITNESSED BY H. McAnally

C.R. Wagner
Well Test Engineer