

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE Nov. 26, 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 Pictured Cliff		Pool S. Blanco	
Casing: Diameter Liner 4.5	Set At: Feet 3499 3347 - 5923	Tubing: Diameter 1.660	Set At: Feet 3236
Pay Zone: From 3174	To 3236	Total Depth: 5923 PBTD 5907	Shut In 11-12-79
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1024	+ 12 = PSIA 1036	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1025	+ 12 = PSIA 1037
Flowing Pressure: P PSIG 152	+ 12 = PSIA 164		Working Pressure: P _w PSIG 196	+ 12 = PSIA 208
Temperature: T = 39 °F	F _t = 1.024	n = .85	F _{pv} (From Tables) 1.022	Gravity .670 F _g = .9463

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

$$Q = (12.365)(164)(1.024)(.9463)(1.022) = 2008 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1075369}{1032105} \right)^n = (1.0419)^{.85} (2008) = (1.0355)(2008)$$

NOTE: Well Blew Dry Gas Throughout Test
and Vented 223 MCF To The Atmosphere.

$$Aof = 2079$$

TESTED BY G. Archibeque

WITNESSED BY

C.R. Hagan
Well Test Engineer

