

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 1, 1973

Operator El Paso Natural Gas Company		Lease Riddle C No. 4	
Location 800'S, 800'W, Section 31, T31N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool So. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 3269	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3172	To 3210	Total Depth: 3269	Shut In 5-25-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 687	+ 12 = PSIA 699	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P, PSIG 111	+ 12 = PSIA 123		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 156	
Temperature: T = 63 °F	F _t = .9971	n = .85	F _{pv} (From Tables) 1.012	Gravity .645	F _g = .9645

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

$$Q = (12.365)(123)(.9971)(.9645)(1.012) = 1480 \text{ MCF/D}$$

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

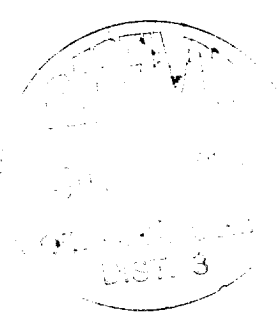
NOTE: Well blew dry gas throughout test.

$$Aof = Q \left(\frac{488601}{464265} \right)^n = (1480)(1.052)^{.85} (1480)(1.044)$$

$$Aof = 1547 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY



William D. Welch, Well Test Engineer