

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE May 15, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 135	
Location 1500 E, 850 S Sec. 26-27N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3523	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3390	To 3420	Total Depth: 3523	Shut In 5-2-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 473	+ 12 = PSIA 495	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 171	+ 12 = PSIA 183	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 236		
Temperature: T = 64 °F	F _t = .9962	n = .85	F _{pv} (From Tables) 1.017	Gravity .655	F _g = .9571

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

$$Q = (12.365)(183)(.9962)(.9571)(1.017) = \underline{2194} \text{ MCF/D}$$

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

NOTE: The well blew dry gas.

$$Aof = \left(\frac{245025}{189329} \right)^n = (2194)(1.2942)^{.85} = (2194)(1.2451)$$

$$Aof = \underline{2732} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

John A. Jones
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