

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 21, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 138	
Location 1800 N - 1600 E Sec. 19-27-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7622	Tubing: Diameter 1.900	Set At: Feet 7564
Pay Zone: From 7386	To 7590	Total Depth: 7622	Shut In 4-11-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2685	+ 12 = PSIA 2697	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2215	+ 12 = PSIA 2227	
Flowing Pressure: P PSIG 158	+ 12 = PSIA 170		Working Pressure: P _w PSIG 505	+ 12 = PSIA 517	
Temperature: T = 69 °F	F _i = .9915	n = .750	F _{pv} (From Tables) 1.015	Gravity .655	F _g = .9571

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

$$Q = (12.365)(170)(.9915)(.9571)(1.015) = \frac{2025}{\text{MCF/D}}$$

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

NOTE: The well produced heavy fog of distillate and water throughout the test.

$$Aof = \left(\frac{7273809}{7006520} \right)^n = (1.0381)^{.75} (2025) = (1.0285)(2025) =$$

$$Aof = 2082 \text{ MCF/D}$$

TESTED BY Norton

WITNESSED BY _____

H. E. McAnally
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