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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 3, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-4 Unit No. 34	
Location 870 S - 800 W Sec. 30-28N-4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8273	Tubing: Diameter 1.900	Set At: Feet 8197
Pay Zone: From 8034	To 8224	Total Depth: 8268	Shut In 4-23-72
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 2555	+ 12 = PSIA 2567	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 1429	+ 12 = PSIA 1441	
Flowing Pressure: P PSIG 161	+ 12 = PSIA 173		Working Pressure: P _w PSIG 450	+ 12 = PSIA 462	
Temperature: T = 63 °F F _t = .9971	n = .750		F _{pv} (From Tables) 1.014	Gravity .610 F _g = .9918	

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

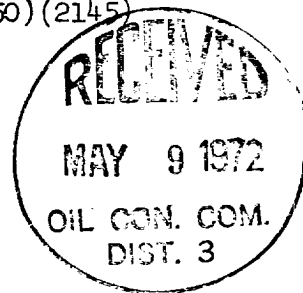
$$Q = (12.365)(173)(.9971)(.9918)(1.014) = \underline{2145} \text{ MCF/D}$$

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

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

$$Aof = \left(\frac{6589489}{6376045} \right)^n = (1.0335)^{.75} (2145) = (1.0250)(2145)$$

$$Aof = \underline{2199} \text{ MCF/D}$$

TESTED BY Norton

WITNESSED BY _____

H. E. McAnally
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