

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 20, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 139	
Location 1840 S & W Sec. 20-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7871	Tubing: Diameter 1.990	Set At: Feet 7806
Pay Zone: From 7624	To 7830	Total Depth: 7871	Shut In 4-13-72
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 2562	+ 12 = PSIA 2574	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2550	+ 12 = PSIA 2562	
Flowing Pressure: P PSIG 169	+ 12 = PSIA 181		Working Pressure: P _w PSIG 540	+ 12 = PSIA 552	
Temperature: T = 71 °F	n = Ft = .9896		Fpv (From Tables) 1.015	Gravity .655	Fg = .9571

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

$$Q = (12.365)(181)(.9896)(.9571)(1.015) = \underline{2151} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n \quad \text{NOTE: Med. to heavy fog of distillate and H}_2\text{O t/o test.}$$

$$Aof = \left(\frac{6625476}{6320772} \right)^n = (1.0482)^{.75} (2151) = (1.0359)(2151)$$

$$Aof = \underline{2229} \text{ MCF/D}$$

TESTED BY Norton

WITNESSED BY



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