

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. 146	
Location 840 W, 890 S Sec. 36-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8469	Tubing: Diameter 1.900	Set At: Feet 8390
Pay Zone: From 8200	To 8416	Total Depth: 8469	Shut In 5-5-72
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2458	+ 12 = PSIA 2470	Days Shut-In	Shut-In Pressure, Tubing PSIG 1250	+ 12 = PSIA 1262	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144		Working Pressure: P _w PSIG 1176	+ 12 = PSIA 1188	
Temperature: T = 65°F	F _t = .9952	n = .75	F _{pv} (From Tables) 1.013	Gravity .655	F _g = .9571

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = (12.365)(144)(.9952)(.9571)(1.013) = \underline{1718} \text{ MCF/D}$$

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

NOTE: There was a very heavy fog of water for entire test.

$$Aof = \left(\frac{6100900}{4689556} \right)^n = 1718 (1.3010)^{.75} = (1718)(1.2181)$$

$$Aof = \underline{2092} \text{ MCF/D}$$

TESTED BY _____

WITNESSED BY _____



John A. Jones
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