

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 26, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 141	
Location 1460 S - 1190 W Sec. 30-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7578	Tubing: Diameter 1.90	Set At: Feet 7490
Pay Zone: From 7260	To 7492	Total Depth: 7578	Shut In 4-19-72
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 2700	+ 12 = PSIA 2712	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1987	+ 12 = PSIA 1999	
Flowing Pressure: P PSIG 345	+ 12 = PSIA 357		Working Pressure: P _w PSIG 647	+ 12 = PSIA 659	
Temperature: T = 73 °F	n = Ft = .9877		F _{pv} (From Tables) 1.033	Gravity .655	F _g = .9571

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

$$Q = (12.365)(357)(.9877)(.9571)(1.033) = \underline{4311} \text{ MCF/D}$$

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

NOTE: The well unloaded a heavy fog of distillate and water in approximately 8 minutes.

$$Aof = \left(\frac{7354944}{6920663} \right)^n = (1.0628)^{.75}(4311) = (1.0467)(4311)$$

$$Aof = \underline{4512} \text{ MCF/D}$$

TESTED BY Norton

WITNESSED BY _____


H. E. McAnally