

OPEN FLOW TEST DATA

DATE 9/22/72

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 30-6 Unit #95-Y	
Location 800/s, 875/W, Sec. 26-T30N-R7W		County Rio Arriba	State NM
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 7317	Tubing: Diameter 2.375	Set At: Feet 6253
Pay Zone: From 5540	To 6276	Total Depth: 7317	Shut In 9/15/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 850	+ 12 = PSIA 862	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 830	+ 12 = PSIA 842	
Flowing Pressure: P PSIG 239	+ 12 = PSIA 251		Working Pressure: Pw PSIG 705	+ 12 = PSIA 717	
Temperature: T = 64 °F Ft = .9962	n = .75		Fpv (From Tables) 1.023	Gravity .635 Fg = .9721	

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

$$Q = (12.365)(251)(.9962)(.9721)(1.023) = 3075 \text{ MCF/D}$$

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

$$Aof = \left(\frac{743.044}{228.955} \right)^n = (3075)(3.2454)^{.75} = (3075)(2.4180)$$

$$Aof = 7434 \text{ MCF/D}$$

NOTE: Well produced dry gas throughout test.

TESTED BY Don Norton

WITNESSED BY

J. A. Jones
J. A. Jones
Well Test Engineer

