

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-23-70

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit No. 81 OWWO	
Location 1650 N, 1450 E, S 18, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5880	Tubing: Diameter 2.375	Set At: Feet 5770
Pay Zone: From 5176	To 5787	Total Depth: 5880	Shut In 5-29-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 812	+ 12 = PSIA 824	Days Shut-In 25	Shut-In Pressure, Tubing PSIG 680	+ 12 = PSIA 692	
Flowing Pressure: P PSIG 269	+ 12 = PSIA 281		Working Pressure: Pw PSIG 715	+ 12 = PSIA 727	
Temperature: T = 66 °F	n =		Fpv (From Tables) 1.030	Gravity .695	Fg = .9292
Ft = .9943		.75			

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

$$Q = 12.365 \times 281 \times .9943 \times .9292 \times 1.030 = 3306 \text{ MCF/D}$$

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

Note: the well unloaded a 30 second slug of dist. and water after 3 minutes then produced a light fog of dist. and water throughout the remainder of the test.

$$Aof = \left(\frac{678976}{150447} \right)^n = 3306 \times 4.5130^{.75} = 3306 \times 3.0963$$

$$Aof = 10,237 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



H. L. Kendrick