

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 3-20-70

Operator El Paso Natural Gas Co.		Lease Scott No. 7 OMWO	
Location SE, 825N, 1700E, T31N, R10W,		County San Juan	State New Mexico
Formation AN		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5365	Tubing: Diameter 2.375	Set At: Feet 5291
Pay Zone: From 4382	To 5288	Total Depth: 5365	Shut In 3-13-70
Stimulation Method SIDP		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,365			
Shut-In Pressure, Casing, PSIG 742	+ 12 = PSIA 724	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 435	+ 12 = PSIA 467	
Flowing Pressure: P PSIG 240	+ 12 = PSIA 252		Working Pressure: Pw PSIG 650	+ 12 = PSIA 672	
Temperature: T = 73 °F	n = .75		Fpv (From Tables) 1.028	Gravity .666	Fg = .9470

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

$$Q = 12,365 \times 252 \times .9877 \times .9470 \times 1.028 = 2996 \text{ MCF/D}$$

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

Note: unloaded large volume of oil after 5 min.. Blew very heavy fog of oil for remainder of test.

$$Aof = \left(\frac{568516}{119616} \right)^n = 2996 \times (4.7528)^{.75} = 2996 \times 3.2189$$

$$Aof = 9644 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



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