

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 28, 1965

Operator Consolidated Oil & Gas Company		Lease Sunshine No. 1	
Location 1030'N, 1190'E, Section 13, T-25-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6737	Tubing: Diameter 1.900	Set At: Feet 6679
Pay Zone: From 6706	To 6724	Total Depth: 6740	Shut In 4-21-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 14.1605		Company Distribution Only	
Shut-In Pressure, Casing, PSIG 1947	+ 12 = PSIA 1959	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1947	+ 12 = PSIA 1959
Flowing Pressure: P PSIG 376	+ 12 = PSIA 388		Working Pressure: Pw PSIG 655	+ 12 = PSIA 667
Temperature: T = 78 °F	F _t = .9831	n = .75	F _{pv} (From Tables) 1.042	Gravity .700 F _g = .9258

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

$$Q = (14.1605) (388) (.9831) (.9258) (1.042) = \underline{5211} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3837681}{3392792} \right)^n = (1.1311)^{.75} (5211) = (1.0966) (5211)$$

$$Aof = \underline{5,714} \text{ MCF/D}$$

NOTE: The well produced a very light spray of distillate and water throughout the test.

TESTED BY A. A. Prater (Consolidated)WITNESSED BY H. E. McAnally (EPNG)

Lewis D. Galloway
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