

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 18, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 91	
Location 990'N, 1800'E, Sec. 12, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6699	Tubing: Diameter 2.375	Set At: Feet 6553
Pay Zone: From 6410	To 6583	Total Depth: 6717	Shut In 8-10-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2047	+ 12 = PSIA 2059	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2062	+ 12 = PSIA 2074	
Flowing Pressure: P PSIG 281	+ 12 = PSIA 293		Working Pressure: P _w PSIG 685	+ 12 = PSIA 697	
Temperature: T = 85 °F	F _t = .9768	n = .750	F _{pv} (From Tables) 1.036	Gravity .775	F _g = .8798

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

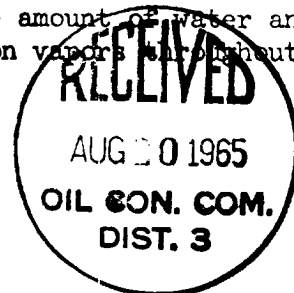
$$Q = (12.365) (293) (.9768) (.8798) (1.036) = \underline{3,226} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,301,476}{3,815,667} \right)^n = (1.1273) (3,226)^{.75} = (1.0941) (3,226)$$

$$Aof = \underline{3,530} \text{ MCF/D}$$

NOTE: Blew large amount of water and Hydrocarbon vapors throughout test.



TESTED BY Jesse B. Goodwin
 CHECKED BY:
 WITNESSED BY W. D. Dawson

Lewis D. Galloway
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