

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 11, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 81	
Location 800'N, 790'E, Section 11, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6607	Tubing: Diameter 2.375	Set At: Feet 6430
Pay Zone: From 6366	To 6458	Total Depth: 6615	Shut In 7-31-65
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, 2123	PSIG	+ 12 = PSIA 2135	Days Shut-In 11	Shut-In Pressure, Tubing 2044	PSIG
				+ 12 = PSIA 2056	
Flowing Pressure: P 337	PSIG	+ 12 = PSIA 349		Working Pressure: Pw 798	PSIG
				+ 12 = PSIA 810	
Temperature: T = 86 °F		n = .75		Fpv (From Tables) 1.029	Gravity .650
Ft = .9759					Fg = .9608

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

$$Q = (12.365) (349) (.9759) (.9608) (1.029) = 4,164 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,558,225}{3,902,125} \right)^n = (4,164) (1.1681)^{.75} = (4,164) (1.1237)$$

$$Aof = 4,679 \text{ MCF/D}$$

NOTE: Approximately two minutes after opening well unloaded a heavy slug of oil, then blew a light spray of oil for remainder of test.

TESTED BY R. F. Headrick
 CHECKED BY W. D. Dawson
~~W. D. Dawson~~

Lewis D. Galloway
 Lewis D. Galloway

