

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 27, 1965

Operator El Paso Natural Gas Company		Lease Hughes "A" No. 6 (OWO)	
Location 1140'S, 1800'W, Sec. 33, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5176	Tubing: Diameter 2.375	Set At: Feet 5099
Pay Zone: From 4506	To 5142	Total Depth: 5210	Shut In 10-19-65
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 867	PSIA 879	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG 867
Flowing Pressure: P, PSIG 277	PSIA 289	Working Pressure: Pw, PSIG 620	PSIA 632
Temperature: T = 69 F	F = .9915	Fpv (From Tables) 1.027	Gravity Fg = .9608

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

$$Q = 12.365 \times 289 \times .9915 \times .9608 \times 1.027$$

3496

MCF/D

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

$$Aof = \left(\frac{772,641}{373,217} \right)^n \cdot 3496 \times 2.0702^{.75} = 1.7260 \times 3496$$

NOTE: Blew dry gas throughout test.

Aof = 6034

MCF/D

TESTED BY Jesse B. GoodwinCHECKED BY Hermon E. McNally

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