

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 3, 1967

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 166	
Location 990'N, 990'W, Sec. 31, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6653	Tubing: Diameter 2.375	Set At: Feet 6590
Pay Zone: From 6513	To 6619	Total Depth: 6653	Shut In 3-30-67
Stimulation Method Sand/water frac		Flow Through Casing	Flow Through Tubing X

Choke Size: Inches 2 1/2" plate; 4" M. R.		meter Choke Constant: C 33.293		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, 1961	PSIG + 12 = PSIA 1973	Days Shut-In 34	Shut-In Pressure, Tubing 1988	PSIG + 12 = PSIA 2000	
Flowing Pressure: P meter 101; 465 W. H.	PSIG + 12 = PSIA 113 meter; 477 W. H.		Working Pressure: P _w 1058	PSIG + 12 = PSIA 1070	
Temperature: T = 66 °F	F _t = .9943	n = .75	F _{pv} (From Tables) 1.012	Gravity .700	F _g = 1.1952

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = Calculated from orifice meter reading = 3420 MCF/D

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

Aof = $\left(\frac{4000000}{2855100} \right)^n = (3420)(1.4010)^{.75} = (3420)(1.2880)$

NOTE: The well produced 42.4 bbls. of 48 gravity oil.

Aof = 4405 MCF/D

TESTED BY Jess Goodwin

Checked
WITNESSED BY T. B. Grant

CALCULATED BY H. E. McAnally

H. L. Kondrick
H. L. Kondrick

