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EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-1-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 133	
Location 1150' S, 1150' W, S 19, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7552	Tubing: Diameter 1.990	Set At: Feet 7474
Pay Zone: From 7274	To 7474	Total Depth: 7552	Shut In 8-18-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2715	+ 12 = PSIA 2727	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 2715	+ 12 = PSIA 2727	
Flowing Pressure: P PSIG 419	+ 12 = PSIA 431		Working Pressure: P <sub>w</sub> PSIG 616	+ 12 = PSIA 628	
Temperature: T = 75 °F	F <sub>t</sub> = .9859	n = .75	F <sub>pv</sub> (From Tables) 1.038	Gravity .655	F <sub>g</sub> = .9571

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = 12.365 x 431 x .9859 x .9571 x 1.038 = 5220 MCF/D

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

Note: Blew heavy fog of water for 3 hrs.

Aof =  $\left( \frac{7436529}{7042145} \right)^n = 5220(1.0560)^{.75} = 5220(1.0417)$

Aof = 5438 MCF/D

TESTED BY Jesse B. Goodwin

WITNESSED BY

*L. E. Mabe, Jr.*  
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