

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 1, 1973

Operator El Paso Natural Gas Company		Lease Huerfano Unit 240	
Location 890'N, 1800'W, Section 23, T26N, R9W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak	
Casing: Diameter 4.500	Set At: Feet 5932	Tubing: Diameter 2-3/8	Set At: Feet 5853
Pay Zone: From 5584	To 5872	Total Depth: 5932	Shut In 7-13-73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

MR <del>Choke Size</del> , Inches 4"	Orifice 2.500	Orifice <del>Choke Constant: C</del> 32.64	Well Tested thru 48/64 Choke			
Shut-In Pressure, Casing, 1264	PSIG	+ 12 = PSIA 1276	Days Shut-In 18	Shut-In Pressure, Tubing 1245	PSIG	+ 12 = PSIA 1257
Flowing Pressure: P WH 57	PSIG	+ 12 = PSIA WH 69	MR 24	Working Pressure: Pw 323	PSIG	+ 12 = PSIA 335
Temperature: T = 74 °F	Ft = .9868	n = .75	Fpv (From Tables) 1.004	Gravity .720	Fg = .9129	

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 = Calculated from meter readings = 709 MCF/D

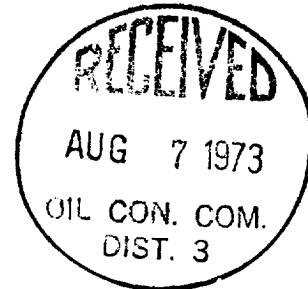
OPEN FLOW = Aof = Q  $\left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$  NOTE: Well produced 22 bbls. of 37.2 gravity oil.

Aof = Q  $\left( \frac{1628176}{1515951} \right)^n = 709 (1.0740)^{.75} = 709 (1.0550)$

Aof = 748 MCF/D

TESTED BY Bobby J. Broughton

WITNESSED BY



*William D. Welch*  
William D. Welch, Well Test Engineer