

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 4, 1966

Operator El Paso Natural Gas Company		Lease Southern Petroleum State No. 3 (OWDD) (CH)	
Location 990'N, 1650'W, Sec. 32, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3342	Tubing: Diameter 1.660	Set At: Feet 3208
Pay Zone: From 3207	To 3312	Total Depth: 3343	Shut In 7-21-66
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model "D" Packer set at 2396'	
Shut-In Pressure, Casing, PSIG 360 (PC)	+ 12 = PSIA 372 (PC)	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 908 (CH)	+ 12 = PSIA 920 (CH)	
Flowing Pressure: P PSIG 135	+ 12 = PSIA 147		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 536	
Temperature: T = 63 °F	F _t = .9971	n = .75	F _p (From Tables) 1.015	Gravity .685	F _g = .9359

Initial SIPT (PC) = 360 psig

Final SIPC (PC) = 362 psig

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_p

$$Q = (12.365)(147)(.9971)(.9359)(1.015) = 1722 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{846,400}{559,104} \right)^n = (1722)(1.5138)^{.75} = (1722)(1.3640)$$

NOTE: Well produced a medium spray of water throughout the test.

$$A_{of} = 2349 \text{ MCF/D}$$

TESTED BY Hermon E. McAnally

CHECKED BY Tom B. Grant

WITNESSED BY

Tom B. Grant

Tom B. Grant

