

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 29, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #101	
Location 1795'S, 970'W, Sec. 30, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7482'	Tubing: Diameter 2.375	Set At: Feet 7428'
Pay Zone: From 7216'	To 7416'	Total Depth: PBDT 7482' 7465'	Shut In 7-18-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 4" M.R., 2.500" Plate		Plate Choke Constant: C 32.64		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2170	+ 12 = PSIA 2182	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1215	+ 12 = PSIA 1227	
Flowing Pressure: P PSIG 40 M.R., 168 W.H.	+ 12 = PSIA 52 M.R., 180 W.H.		Working Pressure: P _w PSIG 518	+ 12 = PSIA 530	
Temperature: T = 60 °F Fr = 1.0000	n = .75		F _{pv} (From Tables) 1.004	Gravity .650 F _g = 1.240	

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1904} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{4761124}{4480224} \right)^n = (1904)(1.0627)^{.75} = (1904)(1.0467) = 1993 \text{ MCF/D}$$

$$Aof = \underline{1993} \text{ MCF/D}$$

Note: Well produced 57.15 Bbls of 54.7 API gravity oil and 364 MCF of gas during test.

TESTED BY Rhames & Wagner

WITNESSED BY _____

C.R. Wagner
Well Test Engineer

