

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 21, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 156	
Location 990'/N-1750'/E, S 10, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7729	Tubing: Diameter 2.375	Set At: Feet 7643
Pay Zone: From 7436	To 7642	Total Depth: 7729	Shut In 10-11-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR 2.750 Plate		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2515	+ 12 = PSIA 2527	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2552	+ 12 = PSIA 2564	
Flowing Pressure: P LR-142 WH-483 PSIG	+ 12 = PSIA MR-154 WH-495		Working Pressure: P _w PSIG 1197	+ 12 = PSIA 1209	
Temperature: T = 71 °F	n = 0.75		Fpv (From Tables) 1.013	Gravity 0.650	F _g = 1.2403

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 4655 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n \quad \text{NOTE: Well made 8.5 barrels of 57° API oil.}$$

$$Aof = \left(\frac{6574096}{5112415} \right)^{.75} = 4655(1.2859)^{.75} = 4655(1.2076)$$

$$Aof = 5621 \text{ MCF/D}$$

TESTED BY E.J. Broughton & R. R. Hardy

WITNESSED BY _____

R. E. Fielder
R. E. Fielder

