

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATACorrected CopyDATE October 15, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 151	
Location 1090'/N-1450'/E, Sec 21, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7587	Tubing: Diameter 2.375	Set At: Feet 7511
Pay Zone: From 7322	To 7502	Total Depth: 7587	Shut In 9-30-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Orifice Size, Inches 4" -MR 2.750" plate		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2375	+ 12 = PSIA 2387	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1322	+ 12 = PSIA 1334	
Flowing Pressure: P 42-MR 209-WH PSIG	+ 12 = PSIA 54-MR 221-WH		Working Pressure: P _w 568 PSIG	+ 12 = PSIA 580	
Temperature: T = 77°F	Ft = .9840	n = 0.75	F _{pv} (From Tables) 1.004	Gravity 0.650	F _g = 1.2403

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1607} \text{ MCF/D}$$

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

NOTE: Well made 18 barrels of water.

$$Aof = \left(\frac{5697769}{5361369} \right)^n = 1607(1.0627)^{.75} = 1607(1.0467)$$

$$Aof = \underline{1682} \text{ MCF/D}$$

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

WITNESSED BY _____



R. E. Fielder
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