

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 24, 1972

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 32-9 Unit No. 32-Y</u>	
Location <u>990/S, 850/W. Sec. 31 T 32N, R 9W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>6311</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>6169</u>
Pay Zone: From <u>5502</u>	To <u>6180</u>	Total Depth: <u>6311</u>	Shut In <u>7-13-72</u>
Stimulation Method <u>SWP</u>		Flow Through Casing	Flow Through Tubing <u>XXX</u>

Orifice Choke Size, Inches <u>2.750</u>		Orifice Choke Constant: C <u>41.10</u>			
Shut-In Pressure, Casing, PSIG <u>864</u>	+ 12 = PSIA <u>876</u>	Days Shut-In <u>11</u>	Shut-In Pressure, Tubing PSIG <u>531</u>	+ 12 = PSIA <u>543</u>	
Flowing Pressure: P PSIG <u>295</u>	+ 12 = PSIA <u>307</u>		Working Pressure: P _w PSIG <u>722</u>	+ 12 = PSIA <u>734</u>	
Temperature: T = <u>73</u> °F	Ft = <u>.9877</u>	n = <u>.75</u>	F _{pv} (From Tables) <u>1.022</u>	Gravity <u>.595</u>	F _g = <u>1.296</u>

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

$$Q = \text{Calculated from orifice meter readings} = \underline{4166} \text{ MCF/D}$$

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

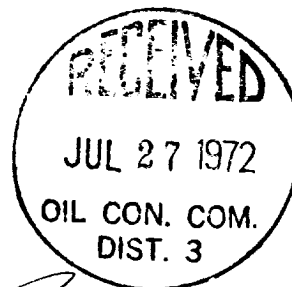
NOTE: Well produced 5 1/2 Bbls. Real muddy water during the test, no oil.

$$Aof = \left(\frac{767376}{228620} \right)^n = (4166)(3.3566)^{.75} = (4166)(2.4798) =$$

$$Aof = \underline{10,331} \text{ MCF/D}$$

TESTED BY R. Hardy

WITNESSED BY _____



J. A. Jones
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