

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 5, 1972

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Brookhaven Com A No. 2 (OWWO)</u>	
Location <u>990/N, 1650/E, Sec. 16 T 31N, R 10W</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>5554</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>5474</u>
Pay Zone: From <u>4685</u>	To <u>5323</u>	Total Depth: <u>5554</u>	Shut In <u>6-22-72</u>
Stimulation Method <u>SWF</u>		Flow Through Casing	Flow Through Tubing <u>XX</u>

Plate <u>8588</u>		Plate <u>6588</u>		Choke Constant: C <u>41.10</u>	
Choke Size, Inches <u>2.750</u>	PSIG	+ 12 = PSIA <u>762</u>	Days Shut-In <u>13</u>	Shut-In Pressure, Tubing <u>677</u>	PSIG + 12 = PSIA <u>689</u>
Shut-In Pressure, Casing, <u>750</u>	PSIG	+ 12 = PSIA <u>762</u>		Working Pressure: P <sub>w</sub> <u>645</u>	PSIG + 12 = PSIA <u>657</u>
Flowing Pressure: P <u>MR 57 WH 261</u>	PSIG	+ 12 = PSIA <u>MR 69 WH 273</u>		F <sub>pv</sub> (From Tables) <u>1.008</u>	Gravity <u>.661</u> F <sub>g</sub> = <u>.9527</u>
Temperature: <u>T = 74 °F</u>		F <sub>t</sub> = <u>.9868</u>	<u>.75</u>		

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

$$Q = \text{Calculated from meter readings} = \underline{1846} \text{ MCF/D}$$

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

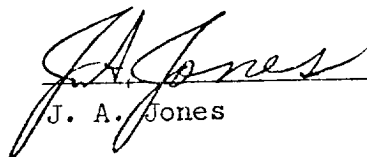
NOTE: Produced 7 Bbls. of 36.5 gravity oil in 3 hour test.

$$Aof = \left( \frac{580644}{148995} \right)^n = (3.8971)^{.75} (1846) = (2.7737)(1846) =$$

$$Aof = \underline{5121} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY \_\_\_\_\_

  
J. A. Jones
