

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 4, 1965

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Hughes No. 2 (OWWO)</b>	
Location <b>990'N, 800'E, Section 19, T-29-N, R-8-W</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>4.500</b>	Set At: Feet <b>5510</b>	Tubing: Diameter <b>2.375</b>	Set At: Feet <b>5395</b>
Pay Zone: From <b>4736</b>	To <b>5436</b>	Total Depth: <b>5515</b>	Shut In <b>4-25-65</b>
Stimulation Method <b>Sand Water Frac.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>.750</b>	Choke Constant: C <b>12.365</b>		
Shut-In Pressure, Casing, PSIG <b>894</b>	+ 12 = PSIA <b>906</b>	Days Shut-In <b>9</b>	Shut-In Pressure, Tubing PSIG <b>892</b> + 12 = PSIA <b>904</b>
Flowing Pressure: P PSIG <b>300</b>	+ 12 = PSIA <b>312</b>		Working Pressure: P <sub>w</sub> PSIG <b>802</b> + 12 = PSIA <b>814</b>
Temperature: T = <b>76 °F</b> F <sub>t</sub> = <b>.9850</b>	n = <b>.750</b>	F <sub>pv</sub> (From Tables) <b>1.033</b>	Gravity <b>.700</b> F <sub>g</sub> = <b>.9258</b>

CHOKE VOLUME = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365) (312) (.9850) (.9258) (1.033) = 3634 MCF/D

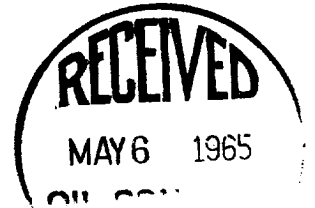
OPEN FLOW = Aof = Q  $\left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof =  $\left( \frac{820,836}{158,240} \right)^n = (5.1872)^{.75} (3634) = (3.4380) (3634)$

Aof = 12,494 MCF/D

NOTE: Medium spray of water and distillate throughout test.

TESTED BY D. R. Roberts  
CALCULATED BY T. B. Grant  
~~BOOKED BY~~



Lewis D. Galloway  
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