

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE February 12, 1964

Operator El Paso Natural Gas Company		Lease Turner Hughes No. 15 (17)	
Location 1199'N, 300'E, Sec. 3, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Hess Woods		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 4919	Tubing: Diameter 1.660	Set At: Feet 4534
Pay Zone: From 4605	To 4644	Total Depth: 6021	Shut In 1-25-64
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Set Baker Model "D" Packer at 4875'	
Shut-In Pressure, Casing, PSIG 903 (MW)	+ 12 = PSIA 915	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG 903 (MW)	+ 12 = PSIA 915	
Flowing Pressure: P, PSIG 169	+ 12 = PSIA 181		Working Pressure: P _w , PSIG 236	+ 12 = PSIA 248	
Temperature: T = 66 °F	n = 0.75		Fpv (From Tables) 1.018	Gravity .695	Fg = .9292

Initial SIPT (DK) = 2198 psig

Final SIPT (DK) = 2214 psig

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

$$Q = (12.365)(181)(.9943)(.9292)(1.018) = 2105 \text{ MCF/D}$$

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

$$Aof = \left(\frac{837,225}{775,721} \right)^n = (2105)(1.0792)^{.75} = (2105)(1.0588)$$

NOTE: The well produced a very heavy mist of distillate throughout the test.

$$Aof = 2229 \text{ MCF/D}$$

TESTED BY H. E. McAnally

WITNESSED BY

RECEIVED
FEB 12 1964
Lewis D. Galloway
Lewis D. Galloway