

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 20, 1965

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 107 (GL) (OWWO)	
Location 1460'N, 1180'W, Section 35, T-27-N, R-10-W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak	
Casing: Diameter 7.625	Set At: Feet 6424	Tubing: Diameter 2.375	Set At: Feet 6278
Pay Zone: From 5990	To 6290	Total Depth: 7020	Shut In 5-6-65
Stimulation Method Sand Oil Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "P" Packer at 6325 ft.	
Shut-In Pressure, Casing, (GL) 511 PSIG	+ 12 = PSIA 523	Days Shut-In 14	Shut-In Pressure, Tubing (GL) 407 PSIG	+ 12 = PSIA 419
Flowing Pressure: P 20 PSIG	+ 12 = PSIA 32		Working Pressure: P <sub>w</sub> (Calc) PSIG	+ 12 = PSIA 32
Temperature: T = 65 °F F <sub>t</sub> = .9952	n = .75		F <sub>pv</sub> (From Tables) 1.004	Gravity .700 F <sub>g</sub> = .9258

ISIPT (DK) = 1017 psig

FSIPT (DK) = 1020 psig

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

$$Q = (12.365) (32) (.9952) (.9258) (1.004) = 366 \text{ MCF/D}$$

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

$$Aof = \left( \frac{273,529}{272,505} \right)^n = (366) (1.0037)^{.75} = (366) (1.0028)$$

$$Aof = 367 \text{ MCF/D}$$

NOTE: This well has 1.315" tubing run inside the 2.375" Gallup tubing with gas lift valves installed.

Well was flared during test. May have made a very slight amount of oil, but very hard to tell for sure.

TESTED BY R. F. Headrick  
W. D. Dawson  
CHECKED BY Don Norton  
WITNESSED BY T. B. Grant



Louis D. Galloway  
L. D. Galloway