

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 23, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #168 (CH)	
Location 1150/N, 910/E, Sec. 6, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacara		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3731'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3640'	To 3650	Total Depth: PBD 3731' 3720'	Shut In 4-22-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1100	+ 12 = PSIA 1112	Days Shut-In 31	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 18	+ 12 = PSIA 30		Working Pressure: Fw PSIG Calculated	+ 12 = PSIA 39	
Temperature: T= 60 °F F _t =1.0000	n = .750		F _{pv} (From Tables) 1.0040	Gravity .655	F _g = .9571

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

$$Q = 12.365(30)(1.0000)(.9571)(1.0040) = 356 \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{1236544}{1235023} \right)^n = 356(1.0012)^{.75} = 356(1.0009)$$

$$A_{of} = 357 \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

WITNESSED BY

Loren W Fothergill
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Well Test Engineer