

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE June 17, 1968

Operator El Paso Natural Gas Company		Lease Sanchez A No. 3 (CH)	
Location 1180'S, 1650'E, Sec. 20 - T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Chacara		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3908	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 3770	To 3872	Total Depth: 3915	Shut In 6-10-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Dual Tubingless Completion	
Shut-In Pressure, Casing, PSIG 929	+ 12 = PSIA 941	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: F PSIG 50	+ 12 = PSIA 62		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA	81
Temperature: T = 60 °F F _t = 1.000	n = .75		F _{pv} (From Tables) 1.009	Gravity .665	F _g = .9498

ICSIP (PC) = 680 psig

FCSIP (PC) = 681 psig

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365)(62)(1.000)(.9498)(1.009) = 735 \text{ MCF/D}$$

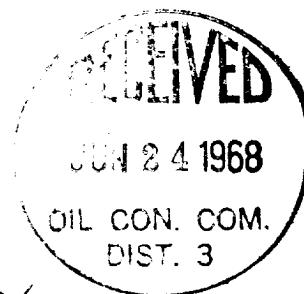
$$\text{OPEN FLOW} = A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{885481}{878920} \right)^n = (735)(1.0074)^{.75} = (735)(1.0055)$$

NOTE: The well produced a slug of water after 2 minutes, then a light fog for 3 minutes, and dry gas for the remainder of the test.

$$A_{of} = 739 \text{ MCF/D}$$

TESTED BY Don Norton

CALCULATED
WITNESSED BY H. E. McAnally

T. B. Grant
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