

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 (PC)	
Location 1180'S, 1650'E, Sec. 20 T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3039	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2910	To 2932	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 711	+ 12 = PSIA 723	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 72	+ 12 = PSIA 84	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 105		
Temperature: T = 60 °F	n = .85	Fpv (From Tables) 1.009	Gravity .675	Fg = .9427	

ISIPC = 930 (Chacra) PSIG

FSIPC = 931 (Chacra) PSIG

CHOKE VOLUME = $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = (12.365)(84)(1.000)(.9427)(1.009) = 988 \text{ MCF/D}$$

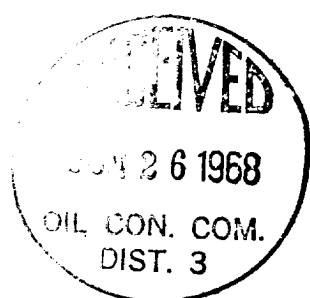
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{522729}{511704} \right)^n = (988)(1.0215)^{.85} = (988)(1.0183)$$

NOTE: This well produced a light fog of distillate throughout the test.

$$Aof = 1006 \text{ MCF/D}$$

TESTED BY Don Norton

CALCULATED
WITNESSED BY A. J. Loleit


H. L. Hendrick
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