

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 9, 1971

Operator El Paso Natural Gas company		Lease San Juan 28-7 Unit No. 129	
Location 1678' N - 1670' E, S 2, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7736	Tubing: Diameter 2.375	Set At: Feet 7668
Pay Zone: From 7460	To 7670	Total Depth: 7736	Shut In 11-27-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" M.R. 2.750" Plate		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, 2535	PSIG	+ 12 = PSIA 2547	Days Shut-In 12	Shut-In Pressure, Tubing 2490	PSIG
Flowing Pressure: P 499 W.H.; 119 M.R.	PSIG	+ 12 = PSIA 511 W.H.; 131 M.R.		Working Pressure: P _w 1235	PSIG
Temperature: T = 69 °F		n = 0.75		F _{pv} (From Tables) 1.011	Gravity 0.650 F _g = 1.2403

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

$$Q = \text{Calculated from orifice meter readings} = 4327 \text{ MCF/D}$$

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

NOTE: The well produced 10 barrels of 54.7° gravity oil during the test.

$$Aof = \left(\frac{6487209}{4932200} \right)^n = (4327)(1.3153)^{.75} = (4327)(1.2281)$$

$$Aof = 5314 \text{ MCF/D}$$

TESTED BY Roberts - Hardy

WITNESSED BY



L. E. Mabe, Jr.
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