

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 30, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 155	
Location 1650'/S - 1650'/W, S 22, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7575	Tubing: Diameter 2.375	Set At: Feet 7528
Pay Zone: From 7292	To 7528	Total Depth: 7576	Shut In 10-25-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

METER Choke Size, Inches 4" MR 2.750" Plate		METER Choke Constant: C 41.9208		Well Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2508	+ 12 = PSIA 2520	Days Shut-In 36	Shut-In Pressure, Tubing PSIG 2534	+ 12 = PSIA 2546	
Flowing Pressure: P PSIG 310 W.H. 71 MTV	+ 12 = PSIA 322 W.H. 83 MTV		Working Pressure: Pw PSIG 669	+ 12 = PSIA 681	
Temperature: T = 75°F	Ft = .9859	n = .75	Fpv (From Tables) 1.008	Gravity 0.650	Fg = 1.2403

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

$$Q = \text{Calculated from orifice meter readings} = 2584 \text{ MCF/D}$$

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

NOTE: The well produced 13 bbls. of oil during the test.
Oil is 50.1° API gravity.

$$Aof = \left(\frac{6482116}{6018355} \right)^n = (1.0771)^{.75} (2584) = (1.0573) (2584) =$$

$$Aof = 2732 \text{ MCF/D}$$

TESTED BY DRR-RRH

WITNESSED BY

L. E. Mabe Jr.
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