

o c c e

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Company Distribution Only

DATE 2/14/73

Operator Lively Exploration		Lease Lively #8	
Location Unit N, Sec. 12, T29N, R8W		County San Juan	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7550	Tubing: Diameter 1.660	Set At: Feet 7455
Pay Zone: From 7454	To 7528	Total Depth: 7550	Shut In 1/16/73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2584	+ 12 = PSIA 2596	Days Shut-In 29	Shut-In Pressure, Tubing PSIG 2584	+ 12 = PSIA 2596	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 142		Working Pressure: P _w PSIG 1352	+ 12 = PSIA 1364	
Temperature: T = 45 °F	n = .75		F _{pv} (From Tables) 1.015	Gravity .650	F _g = .9608

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

$$Q = (12.365)(142)(1.0147)(.9608)(1.015) = \underline{1737} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6739216}{4878720} \right)^n = (1737)(1.3813)^{.75} = (1737)(1.2742)$$

$$Aof = \underline{2213} \text{ MCF/D}$$

NOTE: THE Well produced a heavy mist of distillate and water throughout the test.

TESTED BY Jim Jacobs (Dugan Prod.)WITNESSED BY H. E. McAnally (EPNG)

William D. Welch

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Well Test Engineer

