

OPEN FLOW TEST DATA

DATE 10-14-70

Operator El Paso Natural Gas Company		Lease Beaver Lodge Com No. 1 (OWWO)	
Location 1650' S, 990' W, S 32, T30N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4990	Tubing: Diameter 2.375	Set At: Feet 4945
Pay Zone: From 4726	To 4938	Total Depth: 4990	Shut In 9-30-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR, 2.750 orifice		Choke Constant: C 41.9208		tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 820	+ 12 = PSIA 832	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 733	+ 12 = PSIA 745	
Flowing Pressure: P PSIG MR-102 WH-386	+ 12 = PSIA MR-114 WH-398		Working Pressure: P _w PSIG 721	+ 12 = PSIA 733	
Temperature: T = 69 °F	F _t = .9915	n = .75	F _p (From Tables) 1.011	Gravity .675	F _g = 1.2172

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_p

Q = Calculated from orifice meter readings = 3484 MCF/D

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

Note: well made 11.93 bbls. of 45.5 API gravity oil during test.

$$A_{of} = \left(\frac{692224}{154935} \right)^n = (4.4678)^{.75} (3484) = (3.0730)(3484)$$

A_{of} = 10,706 MCF/D

TESTED BY T. D. Norton, D. R. Roberts, J. B. Goodwin

WITNESSED BY _____



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