

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 3, 1975

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #255	
Location 1550/S, 1530/W, Sec. 13, T25N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7338'	Tubing: Diameter 2.375	Set At: Feet 7150'
Pay Zone: From 7018'	To 7148'	Total Depth: PBT 7340' 7323	Shut In 10-15-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500 4" M.R.		Plate Choke Constant: C 32.64		Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1697	+ 12 = PSIA 1709	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 888	+ 12 = PSIA 900	
Flowing Pressure: P M.R. 12 W.H. 51 PSIG	+ 12 = PSIA M.R. 24 W.H. 63		Working Pressure: P _w 330 PSIG	+ 12 = PSIA 342	
Temperature: T = 52 °F F _t = 1.008	n = .750		F _{pv} (From Tables) 1.004	Gravity .690 F _g = 1.204	

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

Q = Calculated from orifice meter readings = 487 MCF/D

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

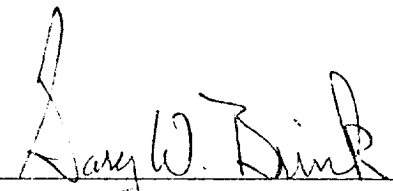
$$Aof = Q \left(\frac{2920681}{2803717} \right)^n = 487(1.0417)^{.75} = 487(1.0311)$$

Aof = 502 MCF/D

Note: This well produced 30.5 Bbl. of 54° API gravity oil, 1.5 Bbl of water, and 163.88 MCF of gas during the test.

TESTED BY C. Rhames

WITNESSED BY


Well Test Engineer