

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 18, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 32-7 No. 37 (MV)	
Location 790'N, 300'W, Sec. 9, T-32-N, R-7-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 7740	Tubing: Diameter 1.660	Set At: Feet 5571
Pay Zone: From 5518	To 5591	Total Depth: 7740	Shut In 12-4-63
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1021	+ 12 = PSIA 1033	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1021	+ 12 = PSIA 1033	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: P _w PSIG 177	+ 12 = PSIA 189	
Temperature: T = 63 °F	n = .75		Fpv (From Tables) 1.007	Gravity .605	Fg .958

Initial SIPT (DK) = 2215 psig

Final SIPT (DK) = 2261 psig

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

$$Q = (12.365)(99)(.9971)(.9958)(1.007)$$

1224 MCF/D

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

$$Aof = \left(\frac{1,067,089}{1,031,368} \right)^n = (1.0346)^{.75}(1224) = (1.0259)(1224)$$

NOTE: Well did not produce any visible signs of water or distillates all during test.

Aof = 1256 MCF/D

TESTED BY Dannie RobertsChecked by H. E. McAnally
WITNESSED BY

Lewis D. Galloway
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