

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 1, 1967

Operator El Paso Natural Gas Company		Lease Hubbard No. 2 (OWO)	
Location 16-01N, 09-01W, Sec. 30, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5652	Tubing: Diameter 2.375	Set At: Feet 5522
Pay Zone: From 5334	To 5546	Total Depth: 5652	Shut In 5-18-67
Stimulation Method Sand Water Free		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 750	+ 12 = PSIA 770	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 760	+ 12 = PSIA 781	
Flowing Pressure: P PSIG 275	+ 12 = PSIA 287		Working Pressure: P _w PSIG 642	+ 12 = PSIA 654	
Temperature: T = 77 °F	F _t = .9840	n = .75	F _{pv} (From Tables) 1.028	Gravity .635	F _g = .9359

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

$$Q = (12.365)(287)(.9840)(.9359)(1.028) = 3360 \text{ MCF/D}$$

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

$$Aof = \left(\frac{609961}{182245} \right)^n = (3360)(3.3469)^{.75} = (3360)(2.4715)$$

NOTE: The well unloaded a slug of dist. after 2 min. then produced a light fog of dist. & water throughout the remainder of the test.

$$Aof = 8314 \text{ MCF/D}$$

TESTED BY Don NortonCHECKED BY T. B. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
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