

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-21-71

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 213	
Location 800'S, 1750'E, S 36, T27N, R10W		County San Juan	State New Mexico
Formation Bakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6936	Tubing: Diameter 2.375	Set At: Feet 6844
Pay Zone: From 6840	To 6840	Total Depth: 6936	Shut In 5-10-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches 4" NR. 2.750" o.d.		Choke Constant: C 41.9208		well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1981	+ 12 = PSIA 2003	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1437	+ 12 = PSIA 1449	
Flowing Pressure: P PSIG 139 WH 26 Mtr.	+ 12 = PSIA 151 WH 38 Mtr.		Working Pressure: P _w PSIG 467	+ 12 = PSIA 479	
Temperature: T = 80 °F	n =		Fpv (From Tables) 1.003	Gravity .700	Fg = 1.1957

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{calculated from orifice meter readings} = 1311 \text{ MCF/D}$$

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

Note: Well produced 12.48 bbls.44.9 gravity oil

$$Aof = \left(\frac{4012009}{3782568} \right)^n = (1.0607)(1311)^{.75} = (1.0451)(1311)$$

$$Aof = 1370 \text{ MCF/D}$$

TESTED BY D. R. E. & J. R. G.

WITNESSED BY

H. L. Kendrick
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