

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

CORRECTED COPY

Dual Completion

DATE February 24, 1967

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 98 (DK) (OWWO)	
Location 1500'N, 1650' <sup>E</sup> Sec. 35, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 6885	Tubing: Diameter 2.375	Set At: Feet 6633
Pay Zone: From 6575	To 6671	Total Depth: 6885	Shut In 2-13-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model F Packer Set at 4672	
Shut-in Pressure, Casing, PSIG 990 (MV)	+ 12 = PSIA 1002 (MV)	Days Shut-in 11	Shut-in Pressure, Tubing PSIG 1960 (DK)	+ 12 = PSIA 1972 (DK)	
Flowing Pressure: P PSIG 101	+ 12 = PSIA 113		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 235	
Temperature: T = 65 °F	Ft = .9952	n = .75	Fpv (From Tables) 1.012	Gravity .700	Fg = .9258

ISIPT (MV) = 996 psig  
FSIPC (MV) = 994 psig

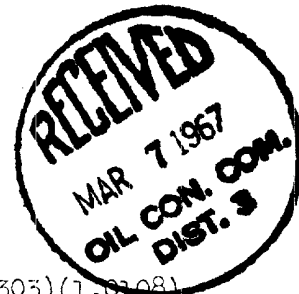
CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365)(113)(.9952)(.9258)(1.012) = 1303 MCF/D

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

Aof =  $\left( \frac{3888784}{3833088} \right)^n = (1303)(1.0145)^{.75} = (1303)(1.0108)$

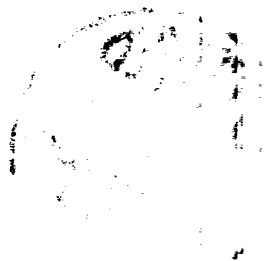
Aof = 1317 MCF/D



NOTE: The well produced a heavy fog of water and dist. for the first 5 minutes, then a medium fog of dist. & water the next hour and 45 minutes, and a light fog of dist. & water for the remainder of the test.

TESTED BY Don Norton  
CALCULATED BY H. E. McAnally  
WITNESSED BY H. E. McAnally  
CHECKED BY T. B. Grant

H. L. Kendrick  
H. L. Kendrick



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