

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 24, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease Huerfano Unit No. 221	
Location 1550 S - 1510 W Sec. 13-25N-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6721	Tubing: Diameter 2.375	Set At: Feet 6593
Pay Zone: From 6514	To 6642	Total Depth: 6721	Shut In 4-15-72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXX

Plate Size, Inches 4" M.R.; 2.750 Plate		Plate Constant: C 41.10		Tested through 3/4" Variable choke	
Shut-In Pressure, Casing, PSIG 1924	+ 12 = PSIA 1936	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1924	+ 12 = PSIA 1936	
Flowing Pressure: P MR 145 w/h 401	+ 12 = PSIA MR 157 w/h 413		Working Pressure: Pw 909	+ 12 = PSIA 921	
Temperature: T = 78 °F	n = Ft = .9831		Fpv (From Tables) 1.016	Gravity .710	Fg = 1.187

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

$$Q = \text{Calculated from orifice meter readings} = \underline{4088} \text{ MCF/D}$$

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

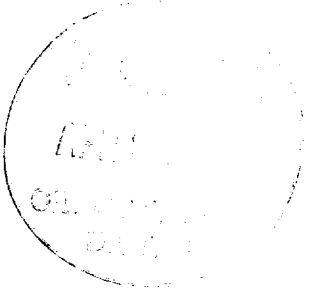
NOTE: The well produced 29.5 bbls. of 53.4 gravity oil during the test.

$$Aof = \left(\frac{3748096}{2899855} \right)^n = (1.2925)^{.75} (4088) = (1.2122) (4088)$$

$$Aof = \underline{4956} \text{ MCF/D}$$

TESTED BY Goodwin and Rhames

WITNESSED BY _____



H. E. McAnally
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