

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 10, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-7 U. No. 165	
Location 1040/N, 1180/E, Sec. 16 T 27N, R 7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7971	Tubing: Diameter 1.900	Set At: Feet 7879
Pay Zone: From 7668	To 7916	Total Depth: 7971	Shut In 7-29-72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches 2.750" Plate; 4" M.R.		Choke Constant: C 41.10		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2405	+ 12 = PSIA 2417	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1733	+ 12 = PSIA 1745	
Flowing Pressure: P PSIG 109 M.R.; 370 W.H.	+ 12 = PSIA 121 M.R.; 382 W.H.		Working Pressure: P _w PSIG 930	+ 12 = PSIA 942	
Temperature: T = 67 °F F _t = 9933	n = .75		F _{pv} (From Tables) 1.010	Gravity .650 F _g = 1.2403	

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

$$Q = \text{Calculated from orifice meter readings} = \underline{4108} \text{ MCF/D}$$

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

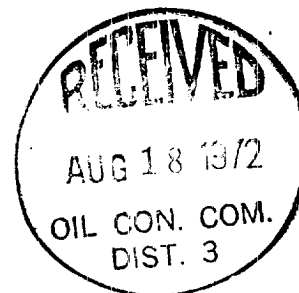
NOTE: The well produced 35.80 Bbls. of 55.8° API Gravity oil during the test.

$$Aof = \left(\frac{5841889}{4954525} \right)^{.75} = (4108)(1.1791)^{.75} = (4108)(1.1315)$$

$$Aof = \underline{4648} \text{ MCF/D}$$

TESTED BY H.E. McAnally & J. A. Jones

WITNESSED BY _____



J. A. Jones
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