

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 16, 1964

Operator Southern Union Production Company		Lease Newsom No. 14	
Location 1850'N, 1890'E, Sec. 29, T-26-N, R-8-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6872	Tubing: Diameter 1.900	Set At: Feet 6745
Pay Zone: From 6556	To 6842	Total Depth: 6875	Shut In 11-26-64
Stimulation Method		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2092	+ 12 = PSIA 2104	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 2091	+ 12 = PSIA 2103	
Flowing Pressure: P PSIG 162	+ 12 = PSIA 174		Working Pressure: P _w PSIG 1067	+ 12 = PSIA 1079	
Temperature: T = 73 °F	F _t = .9877	n = .75	F _{pv} (From Tables) 1.020	Gravity .735	F _g = .9035

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

$$Q = (12.365)(174)(.9877)(.9035)(1.020) = \underline{1958} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,426,816}{3,262,575} \right)^n = (1.3568)(1958)^{.75} = (1.2571)(1958)$$

NOTE: Light fog of distillate and oil throughout test.

$$Aof = \underline{2461} \text{ MCF/D}$$

NOTE: This test was conducted through the tubing by SUPC. NMOCC Order R-333-C and D states "Any well completed with tubing smaller than two inch nominal shall be tested through the casing."

TESTED BY Verne Rockhold (SUPC)WITNESSED BY C. R. Wagner (EPNG)

Lewis D. Galloway
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