

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE December 4, 1957

Operator El Paso Natural Gas		Lease San Juan 27-4 Unit No. 14-X (D)	
Location 1160'S, 1190'W, Sec. 18-27-4		County Rio Arriba	State New Mexico
Formation Dakota		Pool Wildcat	
Casing: Diameter 7-5/8	Set At: Feet 7567	Tubing: Diameter 2"	Set At: Feet 7889
Pay Zone: From 7651	To 7931	Total Depth: 7964 - e/o 7935	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		5-1/2" liner - 7504 - 7944	
Shut-In Pressure, Casing, PSIG 1067 MV	- 12 = PSIA 1079	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1922 Dak.	+ 12 = PSIA 1934
Flowing Pressure: P PSIG 70	- 12 = PSIA 82		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 181
Temperature: T °F 65	n - .750		Fpv (From Tables) 1.009	Gravity .670

Final SIPC (MV) = 1072 psig. Packer at 7485. Sleeve at 5753.CHOKE VOLUME = $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 82 \times .9952 \times .9463 \times 1.009 = \underline{\quad 963 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,740,356}{3,707,595} \right)^n = 1.0088^{.75} \times 963 = 1.0066 \times 963$$

$$Aof = \underline{\quad 969 \quad} \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____

cc: E. S. Oberly (6)

Spray of water for 5 minutes after opening, then very heavy fog for remainder of test.

L. D. Galloway

SOIL CONSERVATION
DIVISION

ATLANTA, GA.

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