

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETION

DATE / September 27, 1957

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 10-A	
Location 1180'S, 475'W, Sec. 31-28-8		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7-5/8	Set At: Feet 2287	Tubing: Diameter 1-1/4	Set At: Feet 2316
Pay Zone: From 2116	To 2170	Total Depth: 4606 - c/o 4576	
Stimulant on Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365		5-1/2" liner. 2238 - 4605	
Shut-In Pressure, Casing, PSIG 798	- 12 = PSIA 810	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 798	- 12 = PSIA 810
Flowing Pressure: P, PSIG 309	- 12 = PSIA 321		Working Pressure: P _w , PSIG 324	- 12 = PSIA 336
Temperature: T, °F 68			F _{pv} (From Tables) 1.029	Gravity 0.646

Initial SIPT (MV) - 1057 psig; final - 1060 psig. 2" at 444 Packer at 2327 - Sleeve at 2167

CHOKE VOLUME = $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 321 \times .9924 \times .9645 \times 1.029 = 3909 \text{ MCF/D}$$

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

$$Aof \left(\frac{656,100}{543,204} \right)^n = 1.2078^{.85} \times 3909 = 1.1740 \times 3909$$

$$Aof = 4589 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
L. D. Galloway



OIL CONSERVATION COMMISSION

REGULATORY BOARD

2010-2011

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