

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 14, 1961

Operator J. Glenn Turner	Lease Ballard No. 11-15 (DK)
Location 790'N, 990'W, Sec. 15-26-9	County San Juan State New Mexico
Formation Dakota	Pool Basin
Casing: Diameter 5-1/2 Set At: Feet 6800	Tubing: Diameter 2-1/16 Set At: Feet 6356
Pay Zone: From 6412 To 6548	Total Depth: 6800 c/o 6753 Shut In 11-1-61
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	Days Shut-In 15	Shut-In Pressure, Tubing 1746	PSIG - 12 - PSIA 1758
Shut-In Pressure, Casing Gallup Producing	PSIG - 12 - PSIA 186	Working Pressure: P _w (Calc.)	PSIG - 12 - PSIA 503	
Flowing Pressure: P _f 174	Temperature 80	F _{pv} (From Tables) 1.019	Gravity .700	F _g .9258
T 80	F _r .9813			

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(186)(.9813)(.9258)(1.019)$$

2129

MCF/D

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

$$Aof = \left(\frac{3,090,564}{2,837,555} \right)^n$$

$$(2129)(1.0891)^{.75} = (2129)(1.0661)$$

Aof

2270

MCF/D

NOTE: No data was recorded for communication test due to Gallup Zone flowing to tanks. Dakota blew heavy spray of oil during entire test.

TESTER

W. D. Dawson

WITNESSES

Al Johnson & Walt Kilgo

H. L. Hendrick
H. L. Hendrick

