

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 9, 1967

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Canyon Creek Unit No. 137 (OH)</u>	
Location <u>1699'N, 1550'E, Sec. 5, T-23-N, R-6-W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Chaco</u>		Pool <u>Undesignated</u>	
Casing: Diameter <u>1.500</u>	Set At: Feet <u>3570</u>	Tubing: Diameter <u>1.500</u>	Set At: Feet <u>3460</u>
Pay Zone: From <u>106</u>	To <u>3520</u>	Total Depth: <u>3570</u>	Shut In <u>10-1-67</u>
Stimulation Method <u>Sand Water Free</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Baker Model H-1 Production Packer set at <u>2560</u>	
Shut-In Pressure, Casing, PSIG <u>355 (PC)</u>	+ 12 = PSIA <u>371 (PC)</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>520 (CT)</u>	+ 12 = PSIA <u>542 (CT)</u>	
Flowing Pressure: P PSIG <u>18</u>	+ 12 = PSIA <u>30</u>		Working Pressure: P _w PSIG <u>670</u>	+ 12 = PSIA <u>78</u>	
Temperature: T = <u>60</u> °F	n = <u>.9915</u>		F _{pv} (From Tables) <u>1.004</u>	Gravity <u>.650</u>	F _g = <u>.9608</u>

Initial SIFP (PC) = 355 psig

Final SIFP (PC) = 355 psig

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365)(30)(.9915)(.9608)(1.004) = \underline{355} \text{ MCF/D}$$

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

$$Aof = \left(\frac{233764}{237680} \right)^n = (355)(1.0211)^{.75} = (355)(1.0158)$$

NOTE: Blew down in 1 min., after 5 min. unloaded large quantity of water, then blew very heavy fog of water and gas for remainder of test.

$$Aof = \underline{361} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY H. E. McAnelly

WITNESSED BY



H. L. Kendrick