

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 4, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 1 (M) OWWO	
Location 660N, 660E; Sec. 33-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7"	Set At: Feet 4884	Tubing: Diameter 2"	Set At: Feet 4924
Pay Zone: From 4886	To 4958	Total Depth: 5210 c/o 4980	Shut In: 7/25/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Liner at 4203 - 5019	
Shut-In Pressure, Casing: PSIG 1033 (PC)	+ 12 = PSIA 1045	Days Shut-In 41	Shut-In Pressure, Tubing: PSIG 791 (MV)	+ 12 = PSIA 803	
Flowing Pressure: P PSIG 90	+ 12 = PSIA 102		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 194	
Temperature: T °F 60			F _{pv} (From Tables) 1.011	Gravity .715	

Initial SIPC (PC) = 1033 psig

Final SIPC (PC) = 1035 psig

Packer at 3322

CHOKE VOLUME = Q = C × P_c × F_v × F_g × F_{pv}

$$Q = 12.365 \times 102 \times 1.000 \times .9161 \times 1.011 = 1168 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{644809}{607173} \right)^n = 1.0619^{.75} \times 1168 = 1.0460 \times 1168$$

A_{of} = 1222 MCF/DTESTED BY S. V. RobertsWITNESSED BY Tom Smith (MOCC)

L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	1	
Probation Office		
State Land Office		
U. S. G. S.	1	
Transporter		
FHS	1	✓