

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 26, 1958

Operator El Paso Natural Gas		Lease San Juan 28-6 Unit 82 (M)	
Location 1650N, 1800E; 13-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pay Blanco MV	
Casing Diameter 7-5/8	Set At Feet 3339	Tubing Diameter 2"	Set At Feet 5361
Pay Zone: From 4792	To 5460	Total Depth 5554 c/o 5518	Flow Through Tubing August 15, 1958
Stimulation Method Sand Water Frac.		Flow Through Casing X	

Choke Size, Inches .75	Choke Constant 12.365	5-1/2 liner 3313 - 5554	
Shut-In Pressure, Casing 975 (PC)	PSIG 987	Shut-In Pressure, Tubing (MV) 1074	PSIG 1086
Flowing Pressure, P 200	PSIG 212	Working Pressure, P _w Calc.	PSIG 416
Temperature, T 68	F .75	Sp. Gr. From Tables 1.024	Gravity .702

Initial SIPT (PC) = 975 psig
Final SIPC (PC) = 980 psig

Packer at 3413
1-1/4" at 3210

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = (12.365)(212)(.9924)(.9258)(1.024)$$

2466 MCF/D

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

$$A_{of} = \left(\frac{1179396}{1006340} \right)^{.75} (2466) = (1.1719)^{.75} (2466) = (1.1261)(2466)$$

A_{of} = 2777 MCF/D

By **S. V. Roberts**

Witnessed By _____



Lewis D. Galloway
L. D. Galloway

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EL PASO NATURAL GAS COMPANY

Farmington, New Mexico



Date: August 26, 1958

Mr. E. C. Arnold
Oil Conservation Commission
1500 Rio Brazos Road
Aztec, New Mexico

Re: Packer Leakage Test on the El Paso Natural Gas
Company Well, San Juan 28-6 Unit 82 (M),
1650N, 1800E; 13-27-6; Rio Arriba, New Mex.
(Name - Location - County)

Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 3413 feet. The Mesa Verde zone was tested through (MV - PC) a 3/4" choke for three hours August 26, 1958 with the following data obtained: (Date)

PC SIPC 975 psig;) shut-in 11 days
PC SIFT 975 psig;)
MV SIFT 1074 psig; shut-in 11 days

Time Minutes	(MV) Flowing pressure Tubing Psig	(PC) SIP (C) Psig	(MV) Working Pressure, Psig	Temp ° F
0		975		
15	304	978		66
30	281	978		66
45	270	978		66
60	262	978		66
180	200	980	Calc. 404	68

The choke volume for the Mesa Verde was 2466 MCF/D with an ACP of 2777 MCF/D. (PC - MV)

Witnessed by: _____

Tested by: S. V. Roberts