

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 18, 1958

Operator El Paso Natural Gas		Lease Allison No.12 (M)	
Location 1825N, 1550E; 14-32-7		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At Feet 6030	Tubing Diameter 2"	Set At Feet 8129 (Dak)
Pay Zone: From 5796	To 5870	Total Depth 8320	Shut-in 7/26/58
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant, C 12.365	
Shut-in Pressure, Casing, PSIG (MV) 1550	12 PSIA 1562	Days Shut-in 23	Shut-in Pressure, Tubing, PSIG 2255 (D)
Flowing Pressure: P 488	12 PSIA 500	Working Pressure: Pw, PSIG Calc.	2267
Temperature: T 79	.75	Flow (From Tables) 1.033	Gravity .580

Final SIPT (D) = 2274 psig

Packer 5957

CHOKE VOLUME = $Q = C \times P_c \times F_c \times F_v \times F_g$

$$Q = 12.365 \times 500 \times .9822 \times 1.017 \times 1.033 = 6380 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{2439844}{2187840} \right)^n$$

$$(1.1151)^{.75} (6380) = (1.0852)(6380)$$

$$A_{of} = 6,924 \text{ MCF/D}$$

TESTED BY Richard Proctor

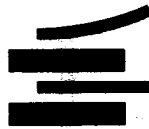
WITNESSED BY Fred Cook (N.M.O.C.C.)

Checked By M. W. Rischard

L. D. Galloway
L. D. Galloway
by J.P.K.



LTR



Job separation sheet

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 11, 1958

Operator El Paso Natural Gas		Allison No. 12 (D)	
Location 1825N, 1550E; 14-32-7		County San Juan	State New Mexico
Formation Dakota		Post N. Los Pinos Dakota	
Casing: Diameter 5"	Set At: Feet 8317	Tubing: Diameter 2"	Set At: Feet 8129
Pay Zone: From 8082	To 8166	Perforations 8320	Shut-in 7/26/58
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size, Inches .75	Choke Constant, C 12.365	5" liner 5976 - 8317	
Shut-In Pressure, Casing 1634 (MV)	PSIG - 12 - PSIA 1646	Days Shut-In 16	Shut-In Pressure, Tubing 2313 (Dak)
Flowing Pressure, P 590	PSIG - 12 - PSIA 602	Working Pressure, Pw Calc.	PSIG - 12 - PSIA 2325
Temperature, T 84	n .75	Flow From Table 1 1.048	Gravity 1376
			.619

Final SIPC (MV) = 1652 psig

Packer at 5957

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

$C = 12.365 \times 602 \times .9777 \times .9877 \times 1.048$

7533

MCF/D

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

$A_{of} = \left(\frac{5405625}{3512249} \right)^n$

$(1.5390)^{.75} (7533) = (1.3815)(7533)$

$A_{of} = 10,407$ MCF/D

TESTED BY Jesse Goodwin

WITNESSED BY Fred Cook (NMOCC)

Checked By S. V. Roberts

Lewis D. Galloway
L. D. Galloway