

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 13, 1959

Operator El Paso Natural Gas		Lease Huerfano No. 106 (G)	
Location 1562S, 1830E; 33-27-10		County San Juan	State New Mexico
Field Gallup		Pool Angel Peak	
Casing, Inlet 7-5/8	Set At Feet 5873	Tubing, Inlet 2"	Set At Feet 5653
Perforations From 5720	To 5756	Total Depth 6587 c/o 6520	Shut in 3/5/59
Completion Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

choke Size, in. in.		Choke Constant		5-1/2 liner 5822-6586	
Shut-In Pressure, Casing, PSIG (G) 1114	12 - PSIA 1126	Days Shut-In 8	Shut-In Pressure, Tubing, PSIG (G) 1114	12 - PSIA 1126	
Flowing Pressure, P, PSIG 365	12 - PSIA 377		Working Pressure, P _w , PSIG 888	12 - PSIA 900	
Temperature, F 78	F .75		F _{pv} From Tubing 1.044	Gravity .720	

Initial SIPT (D) = 1937 psig
Final SIPT (D) = 1951 psig

Packer at 5795

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

$$Q = 12.365 \times 377 \times .9831 \times .9129 \times 1.044 = 4368 \text{ MCF/D}$$

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

Well unloaded solid stream of heavy yellow oil in 3 minutes. Diminished to medium dense yellow fog and finally to a light yellow fog in 15 minutes.

$$Aof = \left(\frac{1267876}{457876} \right)^n \quad 2.7690^{.75} \times 4368 = 2.1490 \times 4368$$

Aof 9,387 MCF/D

S. V. Roberts

Wayne Baxter



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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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