

OPEN FLOW TEST DATA

Date: July 6, 1956

Operator: El Paso Natural Gas Company

Lease: Ludwick # 8

Location: 1650'N. 968'E. Sec. 31-30-10

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 7 5/8 " Set 4328 - 4245 - 5001'

Tubing: 2 " Set 4958'

Pay Zone: 4717 ' To: 4947 ' Total Depth: 5002 - c/o - 4330 ' Choke Size: 0.75 " Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 973 psig / 12 = 985 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 973 psig / 12 = 985 psia

Flowing Pressure: P : 378 psig / 12 = 390 psia

Working Pressure: P_w : 633 psig / 12 = 645 psia

Temperature: T : 73 °F / 460 = 533 ° Absolute

F_{pv} (from tables) : 1.041 Gravity .685 n .75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$= 14.1605 \times 390 \times .9877 \times .9359 \times \frac{5314}{1.041} = 5314 \text{ MCF/D}$$

Open Flow = Aof = Q

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

Aof = 5314

$$\left[\frac{970,225}{554,200} \right]^n$$

$$= (1.7507)^{.75} \times 5314 \times 1.521 \times 5314$$

Aof = 8,083 MCF/D

Tested By: R. A. Ullrich

Witnessed By: _____



L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	2	
DISTRIBUTION		
	NO.	
	1	
Operator		
Santa Fe		
Protraction Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File		✓