

OPEN FLOW TEST DATA

Date: February 8, 1956
 Operator: El Paso Natural Gas Company Lease: Allison Unit # 9
 Location: 1765'N, 1500'E, Sec. 13, T32N, R7W County: San Juan State: N.M.
 Formation: Dakota Pool: Wildcat
 Casing 9 5/8 "set @ 3479 Tubing 2 "set 7957
 Casing 7 "set @ 7845 Tubing 2 "set 7957
 Pay Zone: 7857 to 7986 Total Depth: 8200
 Stimulation Method: Sand Water Frac.
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Flow Through: Casing _____ Tubing X
 Shut In Pressure Casing: 2854 psig / 12 = 2866 psia (Shut in 22 days)
 Shut In Pressure Tubing: 2854 psig / 12 = 2866 psia
 Flowing Pressure: P : 279 psig / 12 = 291 psia
 Working Pressure: P_w : 874 psig / 12 = 886
 Temperature: T : 65 °F / 160 = 525 °absolute
 F_{pv} (from tables) : 1.022 Gravity .600 est. n .75

$$\text{Choke Volume} = Q = \frac{C \times L^4 \times F_t \times F_g \times F_{pv}}{\sqrt{\dots}}$$

$$Q = \frac{14.1605 \times 291 \times .9952 \times 1.022}{\sqrt{\dots}} = 4191 \text{ MCF/D}$$

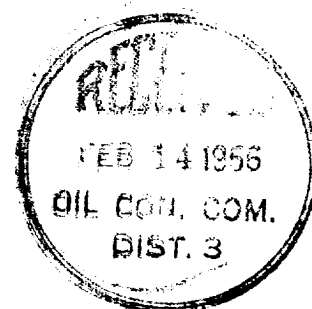
$$\text{Open Flow} = Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = 4191 \left[\frac{8,213,956}{7,428,960} \right]^{.75} = 4191 (1.1057)^{.75} = 4191 \times 1.0781$$

$$Aof = 4,518 \text{ MCF/D}$$

Tested by: D. W. Mitchell

Witnessed by: _____



L. D. Galloway

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Conservation	3	
Name of Owner		
Address		
City		
State		
County		
Section		
Township		
U. S. G. S.		
Inspector		
Date	1	✓