



Lease: JACARILLA ^{E-3} ~~E-3~~

County: RA State: NM

Pool: UNDERSEALED

Choke Size: 3061 3075 * Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing

Shut-in Pressure Casing: 838 psig / 12 = 850 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 833 psig / 12 = 850 psia

Flowing Pressure: P : 91 psig / 12 = 103 psia

Working Pressure: P_w : 101 psig / 12 = 113 psia

Temperature: T : 51 °F / 460 = 511 °Absolute

F_{pv} (from tables) : 1.310 Gravity Exp. 610 n 25

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$12.363 \times 100 \times 1.0083 \times 0.9913 \times 1.010$$

$$Q = \underline{1287} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q$$

$$A_{of} = \left[\frac{P_c^2 - P_w^2}{709,731} \right]^n = 1.0180 \approx 1.0152$$

Aof = 1307 MCF/D

Witnessed By: _____

GEOELECTRIC INC.