

Operator El Paso Natural Gas Company	Lease San Juan 29-6 No. 65-19
Location 990N, 940E; 19-29N-6W	County Rio Arriba State New Mexico
Formation Messaverde	Pool Blanco MV
Casing: Diameter 7-5/8 Set At: Feet 3555	Tubing: Diameter 2" Set At: Feet 5588
Pay Zone: From 5118 To 5590	Total Depth: 5674 c/o 5638 Shut In 6/27/60
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, inches .75	Choke Constant: C 12.365	5-1/2" liner from 3484 to 5684
Shut-In Pressure, Casing: PSIG 1023	PSIA 1035	Days Since 10
Shut-In Pressure, Tubing: PSIG 1010	PSIA 1022	
Flowing Pressure: P _s PSIG 356	PSIA 368	Working Pressure: P _w PSIG 863
Temperature: T 69		PSIA 875
Ft = .9915	.75	Flow (From Tables) 1.038
		Gravity .670 F_g = .9463

CHOKE VOLUME $Q = C \times P_s \times F_g \times F_F$

$$C \quad 12.365 \times 368 \times .9915 \times .9463 \times 1.038 = 4432 \text{ MCF/D}$$

OPEN FLOW $Q_{of} = \left(\frac{P_s^2 - P_w^2}{P_s^2} \right)^n$

$$Q_{of} = \left(\frac{1071225 - 305600}{1071225} \right)^n$$

$$3.5053^{.75} \times 4432 = 2.562 \times 4432$$

$$Q_{of} \quad 11355 \text{ MCF/D}$$

TESTED BY Frank M. Clark

WITNESSED BY _____

Checked By Bob Nickell



Lewis D. Galloway
L. D. Galloway