

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-16-70

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 32-9 Unit No. 1 OWVO	
Location 1650 S, 790 W, S 18, T31N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6179	Tubing: Diameter 2.375	Set At: Feet 5972
Pay Zone: From 5122	To 5986	Total Depth: 6179	Shut In 5-14-70
Stimulation Method GAP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR 2.750 orifice	Choke Constant: C 41.9208	Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 415	+ 12 = PSIA 827	Days Shut-In 33	Shut-In Pressure, Tubing, PSIG 661
Flowing Pressure: P, PSIG 166 WH 41 MR	+ 12 = PSIA 178 WH 53 MR	Working Pressure: P _w , PSIG 585	+ 12 = PSIA 597
Temperature: t = 60 °F	n = 0.75	F _{pv} (From Tables) 1.004	Gravity .667 F _g = .9484

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 1265 \text{ MCF/D}$$

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

Note: Made 10 bbls. of 36.7° API Gravity oil.

$$Aof = \left(\frac{683929}{327520} \right)^n = 1265 (2.0882)^{.75} = 1265 (1.7371)$$

$$Aof = 2197 \text{ MCF/D}$$

TESTED BY C. R. Wagner & R. E. Fielder

WITNESSED BY _____



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