

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA DUAL COMPLETION

DATE February 25, 1958

Operator El Paso Natural Gas Company		Lease Sunray No. 1-J (P)	
Location 1090S, 990W; 7-30-10		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 7-5/8"	Set At: Feet 4534	Tubing: Diameter 1-1/4"	Set At: Feet 2732
Pay Zone: From 2682	To 2742	Total Depth: 5218	
Stimulation Method Sand-Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		5-1/2" liner 4492-5213	
Shut-In Pressure, Casing, PSIG (PC) 682	12 = PSIA 694	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG (PC) 682	12 = PSIA 694
Flowing Pressure P, PSIG (PC) 103	12 = PSIA 115		Working Pressure: P _w , PSIG (PC) 108	12 = PSIA 120
Temperature: T, °F 56			F _{pv} (From Tables) 1.010	Gravity .640

Initial SIPT (MV) 916 PSIG

PKR. at 4503

Final SIPT (MV) 918 PSIG

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = (12.365)(115)(1.0039)(.9682)(1.010) = 1,396 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{481636}{467236} \right)^n = (1.0308).85 (1396) = (1.0261)(1396)$$

$$A_{of} = 1,432 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

CC: E. S. Oberly (6)

L. D. Galloway
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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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