

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 17, 1964

Operator Southern Union Production Company		Lease Starr No. 3 (MV)	
Location 1560'N, 1850'E, Section 5, T-26-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 6799	Tubing: Diameter 1.660	Set At: Feet 4442
Pay Zone: From 4410	To 4450	Total Depth: 6800	Shut In 11-28-64
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365		Company Distribution Only	
Shut-In Pressure, Casing, PSIG (MV) 1049	+ 12 = PSIA 1061	Days Shut-In 18	Shut-In Pressure, Tubing PSIG (MV) 1050	+ 12 = PSIA 1062
Flowing Pressure: P 225 PSIG	+ 12 = PSIA 237		Working Pressure: Pw 413 PSIG	+ 12 = PSIA 425
Temperature: T = 73 °F F _t = .9877	n = .75		Fpv (From Tables) 1.028	Gravity .730 F _g = .9066

Initial SIPT (DK) = 2002

Final SIPC (DK) = 2028

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

$$Q = (12.365) (237) (.9877) (.9066) (1.029) = 2698 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,127,844}{947,219} \right)^n = (1.1906) (2698)^{.75} = (1.1396) (2698)$$

$$Aof = 3075 \text{ MCF/D}$$

NOTE: Heavy fog of distillate, water and oil throughout test.

TESTED BY Verne Rockhold (SUPC)

WITNESSED BY C. R. Wagner (EPNG)

RECEIVED
DEC 18 1964
OIL CON. COM.
DIST. 3

Lewis D. Galloway
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