

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 9, 1964

Operator Southern Union Production Company		Lease Starr No. 3 (DK)	
Location 1560'N, 1850'E, Section 5, T-26-N, R-8-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 6799	Tubing: Diameter 1.900	Set At: Feet 6643
Pay Zone: From 6477	To 6734	Total Depth: 6800	Shut In 11-24-64
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Packer set at 6272	
Shut-In Pressure, Casing, PSIG 1028 (MV)	+ 12 = PSIA 1040	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1976 (DK)	+ 12 = PSIA 1988	
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA	
Temperature: T = 66 °F	n = .75		F _{pv} (From Tables) 1.021	Gravity .735	F _g = .9035

Initial SIPC (MV) = 1028 psig

Final SIPC (MV) = 1035 psig

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

$$Q = (12.365) (190) (.9943) (.9035) (1.021) = 2155 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,952,144}{3,539,980} \right)^n = (1.1164)^{.75} (2155) = (1.0861) (2155)$$

$$Aof = 2341 \text{ MCF/D}$$

NOTE: Blew very little vapors throughout test

TESTED BY Verne Rockhold (SUPC)

WITNESSED BY Jesse B. Goodwin (EPNG)

CALCULATED BY C. R. Wagner

RECEIVED
DEC 15 1964
OIL CON. COM.
DIST. 3

Lewis D. Galloway
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