

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Well Completion

DATE 11-4-66

Operator El Paso Natural Gas Company		Lease Allison Unit No. 27 (DK) (OWWO)	
Location T. 34N, R. 30E, Sec. 30, 4-32-N, R-6-W		County San Juan	State New Mexico
Formation Bakota		Pool Basin	
Casing: Diameter 1.000	Set At: Feet 8044	Tubing: Diameter 1.900	Set At: Feet 7924
Pay Zone: From 7875	To 8008	Total Depth: 8044	Shut In 10-28-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "D" Packer Set at 5740	
Shut-In Pressure, Casing, PSIG 995 (IW)	+ 12 = PSIA 1007 (IW)	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1975 (DK)	+ 12 = PSIA 1987 (DK)
Flowing Pressure: P 81 PSIG	+ 12 = PSIA 93		Working Pressure: Pw Calc.	+ 12 = PSIA 338
Temperature: T = 63 °F	n =		Fpv (From Tables) 1.007	Gravity .605 Fg = .9958
Ft = .9971	.75			

ISIEPT (IW) 995 psig

PSIEPC (IW) 996 psig

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

$$Q = (12.365)(93)(.9971)(.9958)(1.007) = 1150 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3948169}{3833925} \right)^n = (1150)(1.0297)^{.75} = (1150)(1.0222)$$

NOTE: The well produced a very light fog of dist. and water throughout the test.

$$Aof = 1176 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY T. B. Grant

CALCULATED BY H. E. McAnally



E. L. Kendrick
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