

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

2
DATE June 26, 1972

Operator El Paso Natural Gas Company		Lease Surray "E" No. 5	
Location 1850/N, 1640/W, Sec. 9 T 30N, R 10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3118	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3002	To 3030	Total Depth: 3118	Shut In 6-17-72
Stimulation Method S.W.F.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 893	+ 12 = PSIA 905	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 256	+ 12 = PSIA 268		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 339	
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.024	Gravity .635	Fg = .9721

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

$$Q = (12.365)(268)(.9962)(.9721)(1.024) = 3,286 \text{ MCF/D}$$

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

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

$$Aof = \left(\frac{819025}{704104} \right)^n = (3286)(1.1632)^{.85} = (3286)(1.1371)$$

$$Aof = 3737 \text{ MCF/D}$$

TESTED BY B.J. Broughton

WITNESSED BY

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