

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 16, 1978

Operator El Paso Natural Gas Company		Lease Neil #2-A	
Location SE 15-31-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5207'	Tubing: Diameter 2 3/8	Set At: Feet 5137'
Pay Zone: From 4790	To 5160	Total Depth: 5207'	Shut In 3-5-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 577
Flowing Pressure: P PSIG 268	+ 12 = PSIA 280	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 546
Temperature: T = 66 °F	F _t = .9943	F _{pv} (From Tables) 1.026	Gravity .650 F _g = .9608

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

$$Q = 12.3650(280)(.9943)(.9608)(1.026) = \underline{3394} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{346921}{48805} \right)^n = 3394(7.1083)^{.75} = (4.3534)(3394)$$

$$Aof = \underline{14775} \text{ MCF/D}$$

Note: Well blew light fog of distillate and water first 30 min., dry rest of test. Well vented 333 MCF to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer