FORM 23-75R (REV. 1-65)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 28, 1965

Operator: El Paso Natural Gas Company		Lease: Rincon Unit No. 166 (OWWO)	
Location: 1850'S, 1750'W, Section 32, T-27-N, R-6-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7567	Tubing: Diameter: 2.375	Set At: Feet: 7292
Pay Zone: From: 7300	To: 7514	Total Depth: 7567 C/O 7532	Shut In: 5-21-65
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365		Baker Model "P" Packer set at 7289 ft.	
Shut-In Pressure, Casing, PSIG: 806 (Packer)	+ 12 = PSIA: 818	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 2053 (DK)	+ 12 = PSIA: 2065	
Flowing Pressure: P PSIG: 33	+ 12 = PSIA: 45		Working Pressure: P_w PSIG: Calc.	+ 12 = PSIA: 97	
Temperature: T= 60 °F	Ft = 1.000	n = .75	Fpv (From Tables): 1.004	Gravity: .655	Fg = .9571

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

$Q = (12.365)\ (45)\ (1.000)\ (.9571)\ (1.004)$ = 535 MCF/D

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

$Aof = \left(\frac{4,264,225}{4,254,816} \right)^n = (535)\ (1.0022)^{.75} = (535)\ (1.0016)$

Aof = 536 MCF/D

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NOTE: Well unloaded heavy spray and increased to 1/4 inch stream of distillate and water by the end of the test.

TESTED BY H. E. McAnally

CHECKED BY C. R. Wagner

Lewis D. Galloway

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