

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

287.10

DATE April 26, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 141	
Location 1460 S - 1190 W Sec. 30-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7578	Tubing: Diameter 1.90	Set At: Feet 7490
Pay Zone: From 7260	To 7492	Total Depth: 7578	Shut In 4-19-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2700	+ 12 = PSIA 2712	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1987	+ 12 = PSIA 1999
Flowing Pressure: P PSIG 345	+ 12 = PSIA 357		Working Pressure: P <sub>w</sub> PSIG 647	+ 12 = PSIA 659
Temperature: T = 73 °F Ft = .9877	n = .750		F <sub>pv</sub> (From Tables) 1.033	Gravity .655 F <sub>g</sub> = .9571

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12 365)(357)(.9877)(.9571)(1.033) = 4311 MCF/D

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

NOTE: The well unloaded a heavy fog of distillate and water in approximately 8 minutes.

Aof =  $\left( \frac{7354944}{6920663} \right)^n = (1.0628)^{.75}(4311) = (1.0467)(4311)$

Aof = 4512 MCF/D

TESTED BY Norton

WITNESSED BY \_\_\_\_\_

H. E. McAnally  
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