

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 27, 1973

Operator El Paso Natural Gas Company		Lease Jicarilla 183 #7	
Location 1485/N, 1775/E, Sec28, T23N, R3W		County Sandoval	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 3159'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3050'	To 3076'	Total Depth: 3159	Shut In 8-10-73
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 520	+ 12 = PSIA 532	Days Shut-In 17	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA	
Flowing Pressure: P 75 PSIG	+ 12 = PSIA 87		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA	110
Temperature: T = 65 °F	F <sub>t</sub> = .9952	n = .85	F <sub>pv</sub> (From Tables) 1.011	Gravity .705	F <sub>g</sub> = .9225

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

$$Q = (12.365) (87) (.9952) (.9225) (1.011) = 998 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{283024}{270924} \right)^n = 998 (1.0447)^{.85} = 998 (1.0318)$$

$$Aof = 1036 \text{ MCF/D}$$

Note: The well produced dry gas.



TESTED BY Norton

WITNESSED BY

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Well Test Engineer