

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 7, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 157	
Location 820'N - 1700'E, S 11, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7685	Tubing: Diameter 2.375	Set At: Feet 7633
Pay Zone: From 7440	To 7650	Total Depth: 7685	Shut In 11-2-71
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXXX

Choke Size, Inches 4"IR 2.750"Plate		Choke Constant: C 41.10		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2524	+ 12 = PSIA 2536	Days Shut-In 35	Shut-In Pressure, Tubing PSIG 2189	+ 12 = PSIA 2201	
Flowing Pressure: P PSIG 548 W.H.; 138 M.R.	+ 12 = PSIA 560 W.H.; 150 M.R.		Working Pressure: Pw PSIG 1254	+ 12 = PSIA 1266	
Temperature: T = 63 °F	Ft = 0.9971	n = 0.75	Fpv (From Tables) 1.013	Gravity 0.650	Fg = 1.2403

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 5139 \text{ MCF/D}$$

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

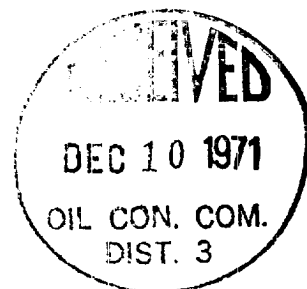
NOTE: The well produced 8 bbls. of 51.8° gravity oil during the test.

$$Aof = \left(\frac{6431296}{4828540} \right)^n = (5139)(1.3319)^{0.75} = (5139)(1.2398)$$

$$Aof = 6371 \text{ MCF/D}$$

TESTED BY BJBroughton & J.Goodwin

WITNESSED BY _____



L. E. Mabe, Jr.
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