

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 6, 1974

Operator El Paso Natural Gas Company		Lease Nageezi #4	
Location 1090/N, 800/W, Sec. 1, T25N, R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6701'	Tubing: Diameter 2.375	Set At: Feet 6610'
Pay Zone: From 6384'	To 6580'	Total Depth: PBD 6701' 6685'	Shut In 7-28-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.750	Choke Constant: C 41.10	Well tested thru a 3/4" variable choke.		
Shut-In Pressure, Casing, 2010	PSIG	+ 12 = PSIA 2022	Days Shut-In 9	Shut-In Pressure, Tubing 1527	PSIG + 12 = PSIA 1539
Flowing Pressure: P 125	PSIG	+ 12 = PSIA 137		Working Pressure: P _w 383	PSIG + 12 = PSIA 394
Temperature: T = 67 °F	F _t = .9933	n = .75		F _{pv} (From Tables) 1.015	Gravity .710 F _g = 1.1870

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1382} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{4088484}{3933248} \right)^n = 1382(1.0395)^{.75} = 1382(1.0295)$$

$$Aof = \underline{1423} \text{ MCF/D}$$

Note: The well produced 14.72 bbls of
38.8 API gravity oil.

TESTED BY J. Goodwin & D. Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

