

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 18, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #257	
Location 1840/N, 1840/W, Sec. 36, T27N, R10W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak Ext.	
Casing: Diameter 4.500	Set At: Feet 6183'	Tubing: Diameter 2.375	Set At: Feet 5130'
Pay Zone: From 5844	To 6106	Total Depth: PBDT 6183' 6164'	Shut In 9-5-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.750	Orifice Choke Constant: C 41.10	Well tested thru a 3/4" variable choke		
Shut-In Pressure, Casing, PSIG 615	+ 12 = PSIA 627	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 440	+ 12 = PSIA 452	
Flowing Pressure: P PSIG 3	+ 12 = PSIA 15		Working Pressure: P _w PSIG 212	+ 12 = PSIA 224	
Temperature: T = 72 °F	F _t = 0.9887	n = .75	F _{pv} (From Tables) 1.004	Gravity .720	F _g = 1.179

CHOKE VOLUME = Q = C x P_f x F_f x F_g x F_{pv}

Q = Calculated from orifice meter readings = 274 MCF/D

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

$$Aof = Q \left(\frac{393129}{342953} \right)^n = 274(1.1463)^{.75} = 274(1.1078)$$

Aof = 303 MCF/D

Note: The well produced 1.50 BBLS of water and a trace of oil.

TESTED BY F. C. Johnson, Goodwin

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer