

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 9, 1975

Operator El Paso Natural Gas Company		Lease Shaw #1-A	
Location 955/N, 1190/W, Sec. 13, T30N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5209'	Tubing: Diameter 2.375	Set At: Feet 5156'
Pay Zone: From 4296	To 5159'	Total Depth: PBD 5209' 5180'	Shut In 3-27-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" M.R.	Plate 2.500	Plate Choke Constant: C 32.64	Well tested thru a 3/4" variable choke			
Shut-In Pressure, Casing, 602	PSIG	+ 12 = PSIA 614	Days Shut-In 13	Shut-In Pressure, Tubing 300	PSIG	+ 12 = PSIA 312
Flowing Pressure: P WH 161 M.R. 54	PSIG	+ 12 = PSIA WH 173 MR .66		Working Pressure: P _w 501	PSIG	+ 12 = PSIA 513
Temperature: T = 63°F	Ft = 0.9971	n = .75		F _{pv} (From Tables) 1.017		Gravity .668 F _g = 1.224

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

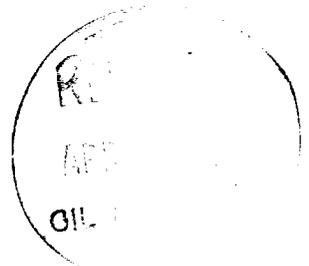
Q = Calculated from orifice meter readings = 2189 MCF/D

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

$$Aof = Q \left(\frac{376996}{113827} \right)^n = 2189(3.3120)^{.75} = 2189(2.4551)$$

Aof = 5373 MCF/D

Note: The well produced 1.04 Bbls of water and 22.88 Bbls of 40.0 API gravity oil. Gas vented to atmosphere during test- 273.97 MCF.



TESTED BY R. Hardy

WITNESSED BY _____

[Signature]
Well Test Engineer