

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-23-75

Operator El Paso Natural Gas Company		Lease Riddle A #1-A	
Location 885/N, 1460/W, Sec. 15, T30N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5790'	Tubing: Diameter 2.375	Set At: Feet 5756'
Pay Zone: From 4830'	To 5761'	Total Depth: 5790'	PBTD 5773' Shut In 9-14-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500 4" M.R.	Plate Choke Constant: C 32.64	Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 549	+ 12 = PSIA 561	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 547 + 12 = PSIA 559
Flowing Pressure: P PSIG W.H. 162 M.R. 53	+ 12 = PSIA W.H. 174 M.R. 65	Working Pressure: P <sub>w</sub> PSIG 512	+ 12 = PSIA 524
Temperature: T = 50 °F Ft = 1.010	n = .75	F <sub>p</sub> v (From Tables) 1.010	Gravity .675 F <sub>g</sub> = 1.217

CHOKE VOLUME = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>p</sub>v

Q = Calculated from orifice meter readings = 2173 MCF/D

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

$$Aof = Q \left( \frac{314721}{40145} \right)^n = 2173(7.840)^{.75} = 2173(4.685)$$



Aof = 10,181 MCF/D

Note: During test well produced 4 Bbls of 39° API gravity oil and .83 Bbls of water. Gas vented to atmosphere 271.48 MCF.

TESTED BY C. R. Wagner & Hardy

WITNESSED BY \_\_\_\_\_

*C.R. Wagner*  
Well Test Engineer