EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 9, 1974

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #174 (PC)	
Location: 870/S, 930/E, Sec. 21, T27N, R7W		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: So. Blanco	
Casing: Diameter: 2.875	Set At: Feet: 3093'	Tubing: Diameter: No Tubing	Set At: Feet: --
Pay Zone: From: 2940'	To: 3020'	Total Depth: PBTD 4085' 3083'	Shut In: 4-5-74
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing

Choke Size, Inches: .750	Choke Constant: C: 12.365		Tubingless Completion
Shut-In Pressure, Casing, PSIG: 916	+ 12 = PSIA: 928	Days Shut-In: 34	Shut-In Pressure, Tubing PSIG: No Tubing
Flowing Pressure: P PSIG: 106	+ 12 = PSIA: 118		Working Pressure: P_w PSIG: Calculated
Temperature: T= 58 °F Ft= 1.0019	n = .85		Fpv (From Tables): 1.0140
+ 12 = PSIA: 148			Gravity: .735 Fg = .9035

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

$Q = 12.365(118)(1.0019)(.9035)(1.0140) = 1339$ MCF/D

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

$Aof = Q \left(\frac{861184}{839280} \right)^n = 1339(1.0261)^{.85} = 1339(1.0221)$

Aof = 1369 MCF/D

Note: The well blew dry gas and a large amount of frac-sand.

RECEIVED
MAY 1 1 1974
OIL CON. COM.
DIST. 3

TESTED BY Goodwin

WITNESSED BY

Loren W. Fothergill

Loren W. Fothergill
Well Test Engineer