FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE March 6, 1975

Operator: El Paso Natural Gas Company		Lease: Howell C #2-A	
Location: 1535/S, 1550/E, Sec. 3, T29N, R8W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5521'	Tubing: Diameter: 2.375	Set At: Feet: 5457'
Pay Zone: From: 4642'	To: 5468'	Total Depth: 5521' PBTD 5504	Shut In: 2-23-75
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: Plate 2.500" 4" MR		Choke Constant: C: Plate 32.64		Well tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG: 620	+ 12 = PSIA: 632	Days Shut-In: 11	Shut-In Pressure, Tubing PSIG: 620	+ 12 = PSIA: 632	
Flowing Pressure: P PSIG: WH 238 MR 70	+ 12 = PSIA: WH 250 MR 82		Working Pressure: Pw PSIG: 571	+ 12 = PSIA: 583	
Temperature: T= 50 °F Ft=1.0098	n = .75		Fpv (From Tables): 1.0290	Gravity: .680 Fg=1.213	

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

Q = Calculated from orifice reading = 3159 MCF/D

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

$Aof = Q \left(\frac{399424}{59535} \right)^n = 3159(6.709)^{.75} = 3159(4.1687)$

Aof = 13168 MCF/D

Note: The well produced a dry flow of gas.

TESTED BY Goodwin & Johnson

WITNESSED BY _____

Jason W Estergill

Well Test Engineer