FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE February 26, 1975

Operator: El Paso Natural Gas Company		Lease: Howell K #2-A	
Location: 1800/N, 1590/W, Sec. 22, T30N, R8W		County: San Juan	State: New Mexico
Formation: ~~Dakota~~ MESAVERDE		Pool: ~~Undes~~ BLANCO	
Casing: Diameter: 4.500	Set At: Feet: 4295'	Tubing: Diameter: 2.375	Set At: Feet: 4287'
Pay Zone: From: 4275'	To: 4283'	Total Depth: PBTD: 4295' 4270	Shut In: 2-18-75
Stimulation Method: Natural		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 718	+ 12 = PSIA: 730	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 718	+ 12 = PSIA: 730	
Flowing Pressure: P PSIG: 543	+ 12 = PSIA: 555		Working Pressure: P_w PSIG: Assume 713 Meas. 718	+ 12 = PSIA: 725	
Temperature: T= 89 °F Ft=0.9732	n = .75		Fpv (From Tables): 1.050	Gravity: .650 Fg = .9608	

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

$Q = 12.365(555)(0.9732)(0.9608)(1.050) = 6738$ MCF/D

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

$Aof = Q \left(\frac{532900}{7275} \right)^n = 6738(73.2509)^{.75} = 6738(25.0386)$

Aof = 168702 MCF/D

Note: The well produced a dry gas flow. The well produced no draw down in pressure in the tubing, during the three hour test thru a 3/4" choke. Therefore it was assumed a pressure drop of 5 lbs to get a working pressure.

TESTED BY F. Johnston

WITNESSED BY L. W. Fothergill

Loren W Fothergill

Well Test Engineer

RECEIVED
MAR 6 1975
OIL CON. COM.
DIST. 3