FORM 2-75 (12-65)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

RE-TEST

DATE December 12, 1973

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit #239	
Location: 890/N, 1750/W, Sec. 18, T26N, R9W		County: San Juan	State: New Mexico
Formation: Gallup Ext.		Pool: Angles Peak	
Casing: Diameter: 4.500	Set At: Feet: 6031'	Tubing: Diameter: 2.875	Set At: Feet: 5981'
Pay Zone: From: 5626	To: 5978	Total Depth: 6031	Shut In: 12-4-73
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: X

~~MR~~ Orifice Size, Inches: 4" Orifice 2.750	~~Choke~~ Constant: C: 41.10		Well Tested thru 48/64 choke
Shut-In Pressure, Casing, PSIG: 796	+ 12 = PSIA: 808	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 618 / + 12 = PSIA: 630
Flowing Pressure: P PSIG: WH 48 MR 12	+ 12 = PSIA: WH 60 MR 24		Working Pressure: Pw PSIG: 229 / + 12 = PSIA: 241
Temperature: T= 83 °F Ft= .9786	n = .75		Fpv (From Tables): 1.003 / Gravity: .720 Fg = .9129

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

Q = Calculated from meter readings = 395 MCF/D

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

$Aof = Q \left(\frac{652864}{594783} \right)^n = 395(1.0976)^{.75} = 395(1.0724)$

Aof = 423 MCF/D

Note: Well produced 18 bbls. of 33 gravity oil.

RECEIVED
DEC 17 1973
OIL CON. COM.
DIST. 3

TESTED BY S.S. & BJB

WITNESSED BY

William D. Welch

William D. Welch
Well Test Engineer