

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1978

Operator El Paso Natural Gas Company		Lease Case #6-A (MV)	
Location <i>S/E</i> 5-31-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5469'	Tubing: Diameter 2 3/8	Set At: Feet 5417'
Pay Zone: From 4367	To 5030'	Total Depth: 5469'	Shut In 7-7-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, --	PSIG	+ 12 = PSIA --	Days Shut-In 10	Shut-In Pressure, Tubing 646	PSIG + 12 = PSIA 658
Flowing Pressure: P 221	PSIG	+ 12 = PSIA 233		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 456
Temperature: T = 80 °F	F _t = .9813	n = .75		F _{pv} (From Tables) 1.020	Gravity .650 F _g = .9608

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

$$Q = 12.365(233)(.9813)(.9608)(1.020) = \underline{2771} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{432964}{225028} \right)^n = (1.9240)^{.75} = (2771) = (1.6337)(2771)$$

$$Aof = \underline{4527} \text{ MCF/D}$$

TESTED BY D. Wright

WITNESSED BY _____

Note: Well died for first 15 min., and then started unloading water; at 30 min. well still blowing water with low flowing pressure, flowing pressure increasing at 45 min. Well vented 269 MCF to the atmosphere during the test.

C. R. Wagner
 Well Test Engineer