

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE April 30, 1979

Operator El Paso Natural Gas Company		Lease Hughes A #5-A (MV)	
Location SE 28- <sup>29</sup> <del>28</del> -08		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5630'	Tubing: Diameter 2 3/8	Set At: Feet 5530'
Pay Zone: From 4574'	To 5560'	Total Depth: 5630'	Shut In 4-23-79
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, --	PSIG --	+ 12 = PSIA --	Days Shut-In 7	Shut-In Pressure, Tubing 898	PSIG + 12 = PSIA 910
Flowing Pressure: P 132	PSIG --	+ 12 = PSIA 144		Working Pressure: P <sub>w</sub> Calc.	PSIG + 12 = PSIA 286
Temperature: T = 61 °F	F <sub>t</sub> = .9990	n = .75		F <sub>p</sub> v (From Tables) 1.013	Gravity .650 F <sub>g</sub> = .9608

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

$$Q = 12.365(144)(.9990)(.9608)(1.013) = 1731 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{828100}{746304} \right)^n = (1.1096)^{.75} (1731) = (1.0811)(1731)$$

$$Aof = 1871 \text{ MCF/D}$$

Note: Well blew a very light fog of water throughout and vented 165 MCF to the atmosphere.

TESTED BY N. Wagner

WITNESSED BY \_\_\_\_\_

*C.R. Wagner*  
Well Test Engineer

