

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 7, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Hubbell #14 (CH)</u>	
Location <u>1790/N, 1453/E, Sec. 18, T29N, R10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u>Undes</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3075'</u>	Tubing: Diameter <u>NO Tubing</u>	Set At: Feet <u>---</u>
Pay Zone: From <u>3020</u>	To <u>3032'</u>	Total Depth: <u>PBTD</u> <u>3075'</u> <u>3065'</u>	Shut In <u>4-27-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>1083</u>	+ 12 = PSIA <u>1095</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>49</u>	+ 12 = PSIA <u>61</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>77</u>	
Temperature: T = <u>65 °F</u>	n = <u>.75</u>		F _p (From Tables) <u>1.004</u>	Gravity <u>.655</u>	F _g = <u>.9571</u>

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

$$Q = 12.365(61)(.9952)(.9571)(1.004) = \underline{\quad 721 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1199025}{1193096} \right)^n = 721(1.0050)^{.75} = 721(1.0037)$$

$$Aof = \underline{\quad 724 \quad} \text{ MCF/D}$$

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MAY 10 1974

OIL CON. COM.
DIST.

Note: The well produced a light fog of water and distillate throughout the test.

TESTED BY C. R. Wagner

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer