

OPEN FLOW TEST DATA

COMPANY DISTRIBUTION ONLY

DATE April 23, 1975

Operator Eck Industries		Lease Land #2-A	
Location 1190' E, 1485' N, Sec. 20, 31N, 10W		County San Juan	State New Mexico
Location Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 2.375	Set At: Feet 3500'	Tubing Diameter 2.375	Set At: Feet 4154'
Pay Zone From 1750	To 5200	Total Depth 5445	Shot In 4-13-75
Simulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing XX

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 712	+ 12 = PSIA 724	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 712	+ 12 = PSIA 724
Flowing Pressure: P, PSIG 287	+ 12 = PSIA 299		Working Pressure: Pw, PSIG 623	+ 12 = PSIA 635
Temperatures: T = 70 °F	n = .9905		Fpv (From Tables) 1.027	Gravity .665
				Fg .9498

$$CHOKED VOLUME = Q \cdot C \times P_i \times F_g \times F_{pv}$$

$$Q = 12.365(287)(.9905)(.9498)(1.027) = 3429 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{524176}{120951} \right)^n = 3429(4.3338)^{.75} = 3429(3.0036)$$

$$Aof = 10298 \text{ MCF/D}$$

Note: Dry throughout test.

TESTED BY Jesse B. Goodwin

ENGINEERED BY

[Signature]
Well Test Engineer

