

COMPANY DISTRIBUTION ONLY

DATE August 12, 1975

Operator Koch Industries		Lease Walker #1-A (MV)	
Location 990/S, 940/E, Sec. 13, T31N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 5949'	Tubing: Diameter 2.375	Set At: Feet 5931'
Pay Zone: From 4940'	To 5944'	Total Depth: 5948'	Shut In 7-9-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 782	PSIG	+ 12 = PSIA 794	Days Shut-In 34	Shut-In Pressure, Tubing 782	PSIG + 12 = PSIA 794
Flowing Pressure: P 308	PSIG	+ 12 = PSIA 320		Working Pressure: P _w 730	PSIG + 12 = PSIA 742
Temperature: T = 71 °F		n = 0.75		F _{pv} (From Tables) 1.034	Gravity 0.682 F _g = .9380

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

Q = (12.365) (320) (.9896) (.9380) (1.034) = 3,798 MCF/D

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

Aof = Q $\left(\frac{630436}{79872} \right)^n = (3798) (7.8931)^{.75} = (3798) (4.7091)$

Aof = 17,885 MCF/D

TESTED BY Norton

WITNESSED BY



Charles W. Kern
Well Test Engineer