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B & R SERVICE COMPANY
OPEN FLOW TEST DATA

DATE May 9, 1962

Operator Shar-Alan Oil Company		Lease Rosa Unit No. 43	
Location 1550/S & 1590/E Section 19-T31N-R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin Dakota	
Casing: Diameter 5 1/2"	Set At: Feet 8305	Tubing: Diameter 2-3/8"	Set At: Feet
Pay Zone: From 8164 - 8220		Total Depth: 8310	Shut In
Stimulation Method Sand-Water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12,365	
Shut-In Pressure, Casing, PSIG 2402	+ 12 = PSIA 2414	Days Shut-In	Shut-In Pressure, Tubing, PSIG 2402
Flowing Pressure: P, PSIG 178	+ 12 = PSIA 190	Working Pressure: P, PSIG 432	+ 12 = PS 444
Temperature: T: 65	n = .75	Fpv (From Tables) 1.010	Gravity .605
Fr = .9952		Fg = .9958	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = \text{_____} = \text{2352} \text{ MCF/D}$$

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

$$Aof = \left(\frac{(2414)^2}{(2414)^2 - (444)^2} \right)^n = 1.0261$$

$$Aof = \text{2413} \text{ MCF/D}$$

TESTED BY Holloway

WITNESSED BY _____

Shar-Alan Oil Company

By - Richard S. Hunt
Manager of Lands & Exploration