

OPEN FLOW TEST DATA

DATE 7-4-61

Operator Irving Pasternak		Lease PASTERNAK ROSA UNIT #40-11	
Location NW 11-31-5		County RIO ARRIBA	State NEW MEXICO
Formation DAKOTA		Pool Wildcat	
Casing: Diameter 5 1/2 - 4105 - 8531	Set At: Feet 8531'	Tubing: Diameter 2" EUE	Set At: Feet 8330
Pay Zone: From 8330	To 8496	Total Depth 8531-8573-8499'	Shut In
Stimulation Method acid-water free		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12,365		
Shut-In Pressure, Casing, PSIG 1479	PSIG - 12 - PSIA (MJ) 1491	Days Shut-In	Shut-In Pressure, Tubing, PSIG 2689
Flowing Pressure: P, PSIG 272	PSIG - 12 - PSIA 284	Working Pressure: P _w , PSIG CALCULATED 641	PSIG - 12 - PSIA 653
Temperature 62	.9981	F _{pv} (From Tables) 1.024	Gravity ASSUME .610
	.75		F _g .9918

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

$$Q = 12,365 \times 284 \times .9981 \times .9918 \times 1.024$$

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

$$Aof = \left(\frac{7,295,401}{6,868,992} \right)^n (3560) (1.0621)^{.75}$$

$$Aof = 3724 \text{ MCF/D}$$

B. & R. Service Co. Inc.

TESTED BY **Kenneth McBride, Pet. Eng.**

WITNESSED BY **Floyd J. Ray, Pet. Eng.**

NOTE: THIS MAY NOT BE A TRUE TEST BECAUSE OF POSSIBLE COMMUNICATION BETWEEN ZONES. THE 26 POUND PRESSURE DROP ON THE CASING COULD BE INDICATIVE OF A PACKER LEAK.

Irving Pasternak

Richard S. Hunt
Richard S. Hunt

Mgr. Leasing and Exploration

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