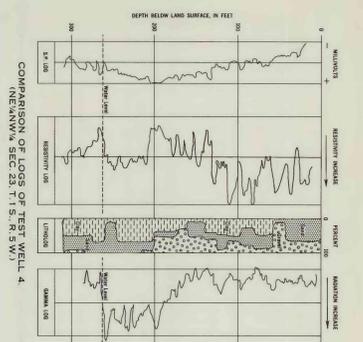


GENERALIZED GEOLOGIC MAP OF PART OF THE SOUTH COASTAL BASIN SOUTHERN CALIFORNIA



COMPARISON OF LOGS OF TEST WELL 4  
(NEWMAN, SEC 23, T. 1 S., R. 5 W.)

**INTRODUCTION**

The Santa Ana River rises in the San Bernardino Mountains in San Bernardino County and flows southwesterly across the coastal plain area of Orange County, Calif. Under present conditions, the river discharged to the ocean at Santa Ana. Reductions in the quantity of surface flow began with the construction of Orange County Reservoir, the first of a series of reservoirs in the upper Santa Ana Valley. The first of a series of reservoirs in the upper Santa Ana Valley was constructed in 1917. The first of a series of reservoirs in the upper Santa Ana Valley was constructed in 1917. The first of a series of reservoirs in the upper Santa Ana Valley was constructed in 1917.

**GENERAL PATTERN OF SUBSURFACE FLOW**

Ground water issues from the Bloomington-Colton area from the north and east. Water from the north enters the area from the east across the area by the San Bernardino Mountains. Water from the east enters the area by the San Bernardino Mountains. Water from the east enters the area by the San Bernardino Mountains. Water from the east enters the area by the San Bernardino Mountains.

**CHEMICAL QUALITY OF THE WATER**

The chemical quality of ground water in the Chino, Bloomington, and Bloomington-Colton basins is represented by the samples shown in diagrammatic form in the text. The samples are low in dissolved solids and high in calcium and bicarbonate. The dissolved solids content of the water samples from wells near the Santa Ana River have higher dissolved-solids content than the samples from the upper Santa Ana River. The dissolved-solids content of the water samples from the upper Santa Ana River is higher than the samples from the lower Santa Ana River.

**RELATION OF WATER QUALITY TO FLOW PATTERNS**

Figure 4 analyses representative of the varying water quality in the area as shown diagrammatically on the by-water are closely associated with the patterns of subsurface flow. There is a general increase in dissolved solids as the water moves from the upper Santa Ana River to the lower Santa Ana River. The dissolved-solids content of the water samples from the upper Santa Ana River is higher than the samples from the lower Santa Ana River.

**SUMMARY AND CONCLUSIONS**

The water quality in the Bloomington-Colton area has been falling steadily since 1917 and has not significantly changed since 1947. The water quality in the Bloomington-Colton area has been falling steadily since 1917 and has not significantly changed since 1947. The water quality in the Bloomington-Colton area has been falling steadily since 1917 and has not significantly changed since 1947.

**SELECTED REFERENCES**

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PATTERNS OF SUBSURFACE FLOW IN THE BLOOMINGTON-COLTON AREA, UPPER SANTA ANA VALLEY, CALIFORNIA

By  
Arthur W. Gosling

1967



HYDROLOGIC MAP  
SCALE 1:24,000

Location of wells by W. R. Meyer, Jr., prepared by Arthur W. Gosling and L. C. Schaefer

Inset map showing rest of the report