DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
WYOMING STATE ENGINEER

WATER-RESOURCES INVESTIGATIONS 82-4007
PLATE 2

Base from U.S. Geological Survey
7-1/2 minute quadrangles.

Hydrology by M. E. Cooley, 1976.

EXPLANATION

● WATER WELL

FLOWING ARTESIAN WELL

SPRING

●40 WELL SHOWING THICKNESS IN FEET OF ALLUVIAL DEPOSITS OBTAINED FROM DRILLER'S LOG.--A (+) sign indicates that the well did not penetrate the entire thickness of the alluvial deposits. A plus or minus (±) sign indicates that thickness is approximate

●<58 WELL COMPLETED IN SEDIMENTARY ROCKS UNDERLYING ALLUVIAL DEPOSITS WHERE ONLY TOTAL DEPTH OF WELL IS KNOWN.--Number indicates depth of well in feet. The symbol (<) indicates thickness of alluvial deposits are less than depth of well

▲06262300 STREAM-FLOW GAGING STATION.--Number is station number

▼7 LOCATION OF SPECIFIC CONDUCTANCE MEASUREMENT LISTED IN TABLE 3 AND SELECTED CHEMICAL ANALYSIS LISTED IN TABLE 2.--Numeral indicates station number

18 LOCATION OF SURFACE-RESISTIVITY MEASUREMENT.--Numeral indicates depth in feet of geoelectric horizon interpreted to be base of alluvial deposits

AREA WHERE WATER-YIELDING SANDSTONE BEDS OF FRONTIER FORMATION ARE PRESENT AT SHALLOW DEPTHS IN BOTTOM LAND ALONG OWL CREEK

AREA WHERE FOLDED BEDS ARE EXTENSIVELY FRACTURED AND HAVE A SIGNIFICANT SECONDARY (FRACTURE) PERMEABILITY

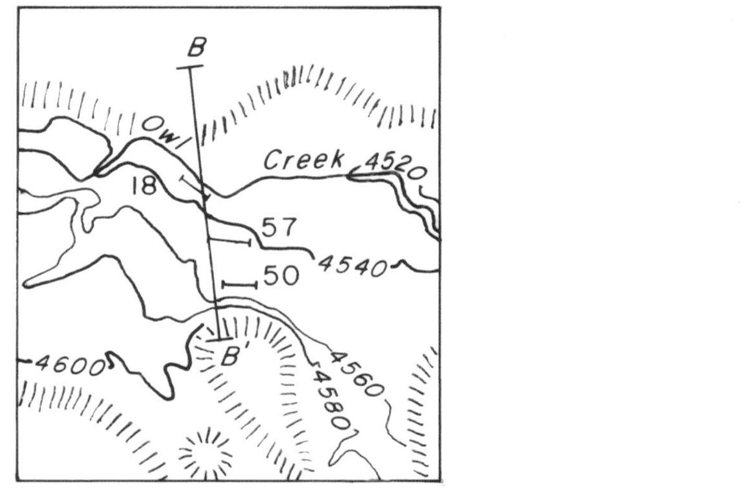
APPROXIMATE LOCATION OF AXIAL PLANE OF AN ANTICLINE

MARGIN OF BOTTOM LAND

× LOCATION OF SMALL INTERNALLY DRAINED DEPRESSIONS IN THE VICINITY OF ANCHOR RESERVOIR AND BASIN RANCH

BURIED CHANNEL FILLED BY ARAPAHOE RANCH TERRACE DEPOSITS

Inset 1



MAP SHOWING THICKNESS DATA, LOCATION OF WELLS AND SPRINGS, SURFACE-RESISTIVITY MEASUREMENTS, AND STREAM-SAMPLING STATIONS IN OWL CREEK VALLEY, BIGHORN BASIN, WYOMING.