RHO-BWI-ST-4

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PLATE III-4a TOP OF BASALT CONTOUR MAP
PLATE III-4b TOP OF WANAPUM BASALT STRUCTURE CONTOUR MAP

# Geologic Studies of the
# COLUMBIA PLATEAU
## A Status Report

# TOP OF BASALT CONTOUR MAP

# TOP OF THE WANAPUM BASALT STRUCTURE CONTOUR MAP

CONTOURS DEPICTED ON THIS MAP ARE DERIVED FROM STRATIGRAPHIC INTERPRETATIONS BASED UPON CORE HOLES, ROTARY DRILL HOLES, MEASURED STRATIGRAPHIC FIELD SECTIONS, GEOLOGIC MAPS, AND GEOPHYSICAL DATA.
THESE CONTOURS ARE NECESSARILY SUBJECTIVE AND INTERPRETIVE IN NATURE! SOLID LINES REPRESENT AREAS WHERE CONTROL IS GOOD AND THE POSITION IS THOUGHT TO BE WITHIN ONE CONTOUR INTERVAL. DASHED LINES REPRESENT AREAWHERE CONTROL IS BASED UPON INDIRECT EVIDENCE AND THE UNCERTAINTY OF THE POSITION IS GREATER THAN ONE CONTOUR INTERVAL. LONG DASHES BEING MORE CERTAIN THAN SHORT DASHES.
INTERPRETIVE CONTOURING WAS USED OVER MOST OF THE MAP. CONTOUR LINES WERE DRAWN TO INDICATE INTERPRETED STRUCTURES CONSISTANT WITH STRUCTURAL STYLE ELSEWHERE IN THE PASCO BASIN, AND CONSISTANT WITH DATA POINTS.
FAULT TRACES RECOGNIZED BY SURFACE MAPPING ARE SHOWN ON THE MAP. SOME OF THESE FAULTS CONTINUE INTO THE CENTRAL PASCO BASIN WHERE THEY ARE COVERED BY LATE CENOZOIC SEDIMENTS. THE SUBSURFACE CONTINUATIONS OF THESE FAULTS IS NOT SHOWN BECAUSE THEY HAVE NOT BEEN LOCATED WITH SUFFICIENT ACCURACY. THE APPROXIMATE LOCATIONS OF SOME SUBSURFACE FAULTS CAN BE INFERRED BY AN ABRUPT CHANGE IN STRIKE DIRECTION, DIP RATE, OR BY ZONES OF HIGH DIP. FAULT TRACES IN THE CENTRAL PASCO BASIN SUBSURFACE WILL BE SHOWN ON FUTURE VERSIONS OF THIS MAP AFTER GEOPHYSICAL SURVEY WORK HAS BEEN COMPLETED.

SCALE 1:62500

0 1 2 3 MILES

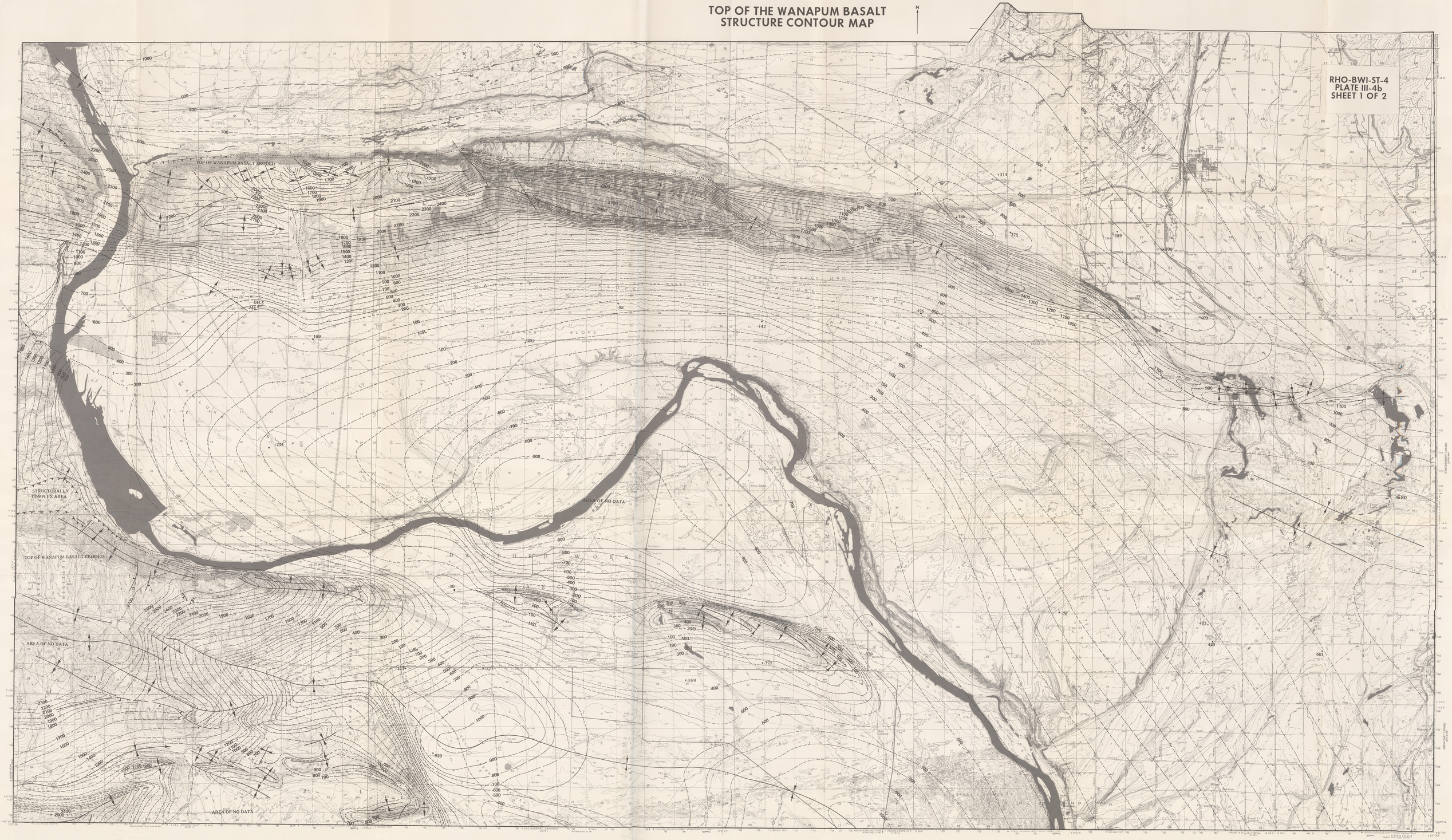
0 1 2 3 4 KILOMETERS

N

CONTOUR INTERVAL = 100 FEET

RHO-BWI-ST-4
PLATE III -4b
SHEET 2 OF 2

# TOP OF THE WANAPUM BASALT STRUCTURE CONTOUR MAP



# TOP OF BASALT CONTOUR MAP

DATA FOR THIS CONTOUR MAP IS TAKEN FROM GEOLOGIC MAPS AND FROM SUBSURFACE BOREHOLES.
INTERPRETIVE CONTOURING WAS USED OVER MOST OF THE MAP. CONTOUR LINES WERE DRAWN TO INDICATE INTERPRETED STRUCTURES CONSISTANT WITH STRUCTURAL STYLE ELSEWHERE IN THE PASCO BASIN, AND CONSISTANT WITH DATA POINTS. IN SOME SMALL AREAS( SUCH AS BENEATH THE 200 AREAS, CONTROL FROM CLOSELY SPACED BOREHOLES IS SUFFICIENT THAT CONTOURING OF THE TOP-OF-BASALT WAS BY MECHANICAL SPACING METHOD.
FAULT TRACES RECOGNIZED BY SURFACE MAPPING ARE SHOWN ON THE MAP. SOME OF THESE FAULTS CONTINUE INTO THE CENTRAL PASCO BASIN WHERE THEY ARE COVERED BY LATE CENOZOIC SEDIMENTS. THE SUBSURFACE CONTINUATION OF THESE FAULTS ARE NOT SHOWN BECAUSE THEY HAVE NOT BEEN LOCATED WITH SUFFICIENT ACCURACY. THE APPROXIMATE LOCATIONS OF SOME FAULT TRACES CAN BE INFERRED BY AN ABRUPT CHANGE IN STRIKE DIRECTION, DIP RATE, OR BY ZONES OF HIGH DIP. FAULT TRACES IN THE CENTRAL PASCO BASIN SUBSURFACE WILL BE SHOWN ON FUTURE VERSIONS OF THIS MAP AFTER GEOPHYSICAL SURVEY WORK HAS BEEN COMPLETED.

N

AREAS OF BASALT OUTCROP

ERODED AREAS

SCALE 1:62500

0 1 2 3 MILES

0 1 2 3 KILOMETERS

CONTOUR INTERVAL = 100 FEET

RHO-BWI-ST-4
PLATE III-4a
SHEET 2 OF 2