UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

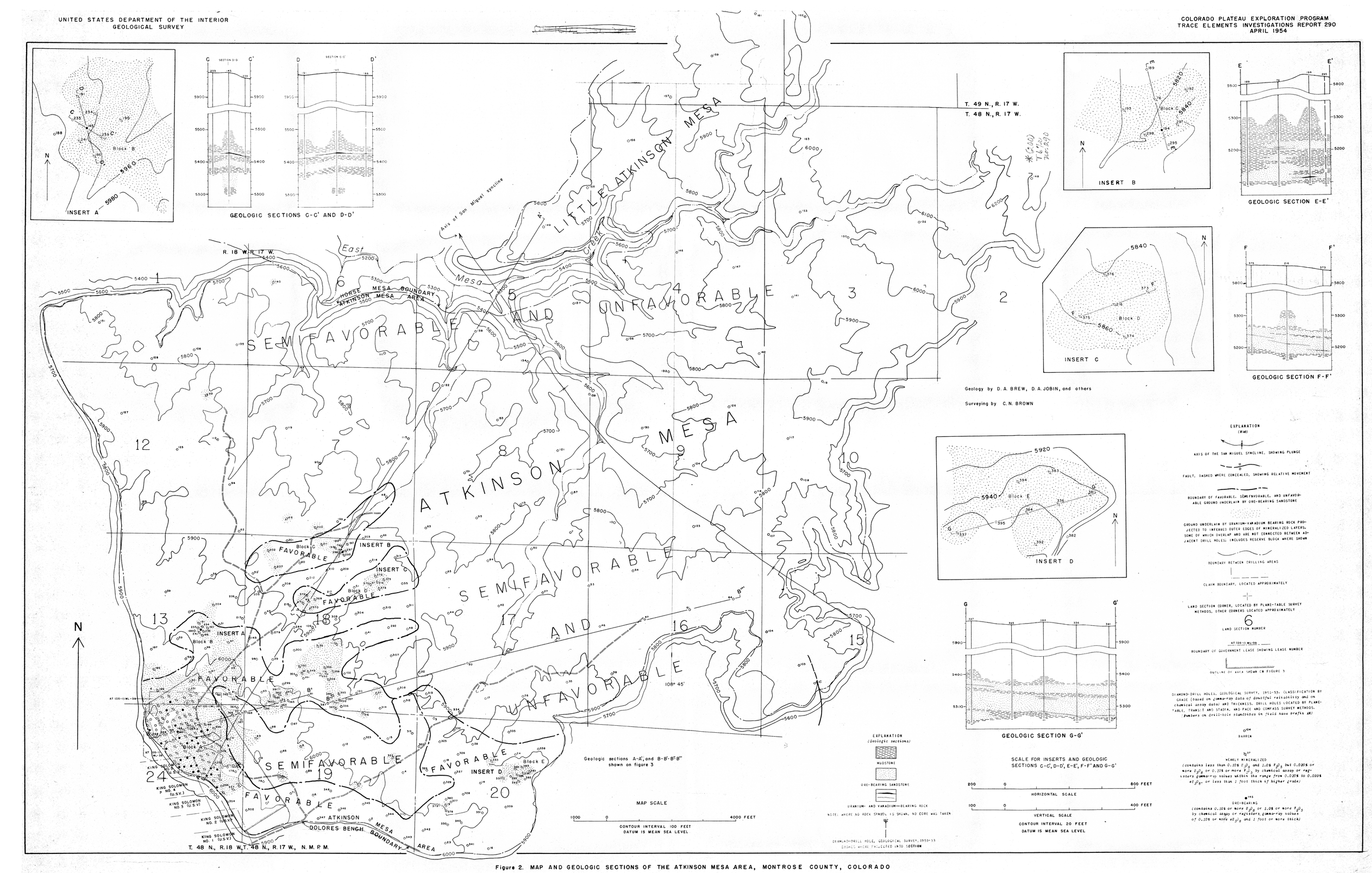
COLORADO PLATEAU EXPLORATION PROGRAM
TRACE ELEMENTS INVESTIGATIONS REPORT 290
APRIL 1954

GEOLOGIC SECTIONS C-C' AND D-D'

GEOLOGIC SECTION E-E'

GEOLOGIC SECTION F-F'

GEOLOGIC SECTION G-G'



Geology by D. A. BREW, D. A. JOBIN, and others

Surveying by C. N. BROWN

Geologic sections A-A', and B-B'-B"-B"' shown on figure 3

MAP SCALE

1000 0 4000 FEET

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

EXPLANATION
(Geologic sections)

MUDSTONE

ORE-BEARING SANDSTONE

URANIUM- AND VANADIUM-BEARING ROCK

NOTE: WHERE NO ROCK SYMBOL IS SHOWN, NO CORE WAS TAKEN

DIAMOND-DRILL HOLE, GEOLOGICAL SURVEY, 1953-53
DRAWN WHERE PROJECTED INTO SECTION

SCALE FOR INSERTS AND GEOLOGIC SECTIONS C-C', D-D', E-E', F-F' AND G-G'

200 0 800 FEET
HORIZONTAL SCALE

100 0 400 FEET
VERTICAL SCALE

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

EXPLANATION
(Key)

AXIS OF THE SAN MIGUEL SYNCLINE, SHOWING PLUNGE

FAULT, DASHED WHERE CONCEALED, SHOWING RELATIVE MOVEMENT

BOUNDARY OF FAVORABLE, SEMIFAVORABLE, AND UNFAVORABLE GROUND UNDERLAIN BY ORE-BEARING SANDSTONE

GROUND UNDERLAIN BY URANIUM-VANADIUM BEARING ROCK PROJECTED TO INFERRED OUTER EDGES OF MINERALIZED LAYERS; SOME OF WHICH OVERLAP AND ARE NOT CONNECTED BETWEEN ADJACENT DRILL HOLES; INCLUDES RESERVE BLOCK WHERE SHOWN

BOUNDARY BETWEEN DRILLING AREAS

CLAIM BOUNDARY, LOCATED APPROXIMATELY

LAND SECTION CORNER, LOCATED BY PLANE-TABLE SURVEY METHODS, OTHER CORNERS LOCATED APPROXIMATELY

6
LAND SECTION NUMBER

AT (105-1) ML-39
BOUNDARY OF GOVERNMENT LEASE SHOWING LEASE NUMBER

OUTLINE OF AREA SHOWN ON FIGURE 3

DIAMOND-DRILL HOLES, GEOLOGICAL SURVEY, 1953-53. CLASSIFICATION BY GRADE (based on summary data of doubtful reliability and on chemical assay data) AND THICKNESS. DRILL HOLES LOCATED BY PLANE-TABLE, TRANSIT AND STADIA, AND PACE AND COMPASS SURVEY METHODS. (Numbers on drill-hole symbols in field have prefix AM)

0104
BARREN

037
WEAKLY MINERALIZED
(contains less than 0.10% P_2O_5 and 1.0% V_2O_5 but 0.020% or more eU_3O_8 or 0.10% or more P_2O_5 by chemical assay or registers gamma-ray values within the range from 0.020% to 0.099% eU_3O_8 or less than 1 foot thick if higher grade)

●145
ORE-BEARING
(contains 0.10% or more P_2O_5 or 1.0% or more V_2O_5 by chemical assay or registers gamma-ray values of 0.10% or more eU_3O_8 and 1 foot or more thick)

Figure 2. MAP AND GEOLOGIC SECTIONS OF THE ATKINSON MESA AREA, MONTROSE COUNTY, COLORADO

~~OFFICIAL USE ONLY~~