DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Open File Report 80-213
Plate 1 of 12

STRUCTURE CONTOURS DRAWN ON TOP OF THE BRUEGGER AND D BEDS
GIRARD AREA, RICHLAND AND ROOSEVELT COUNTIES, MONTANA

EXPLANATION

- COAL OUTCROP--Dashed where approximately located, short dashed where concealed; triangle indicates outcrop measurement showing coal thickness; symbol IC represents impure coal; symbol A represents a measurement made by augering the bed; + represents incomplete coal thickness; letter indicates bed name[1]
- BAKED AND FUSED ROCK--Dotted line shows inferred extent of burned coal
- BAKED AND FUSED ROCK OF LIMITED LATERAL EXTENT
- ABANDONED ADIT--Showing thickness of coal bed
- ABANDONED STRIP MINE--Showing thickness of coal bed
- 1800 — STRUCTURE CONTOUR--Bruegger bed; dashed where approximately located; contour interval 20 feet
- 2100 — STRUCTURE CONTOUR--D bed; isopach interval 20 feet

SUBSURFACE DATA

- US-7575 — U.S. GEOLOGICAL SURVEY-MONTANA BUREAU OF MINES AND GEOLOGY DRILL HOLE
- OIL AND GAS TEST WELL
  - ✱ OW-27 — Producing oil and gas well
  - ● — Producing oil well
  - ◇ — Dry hole
- DRILL-HOLE DATA--Showing surface elevation, thickness of rock and coal, and total hole depth[1]
- DI — DEPTH TO WHICH OIL-WELL LOG INTERPRETED
- NR — NO RECORD
- QGM — QUATERNARY GROUND MORAINE
- TG — TERRACE GRAVEL
- Q — UNDIVIDED QUATERNARY DEPOSITS

[1]Letter along coal outcrop or to the right of rock coal interval of drill-hole data indicates name of bed (Prt, Pritteguri; B, Bruegger; Elv, Elvirio; E, E bed; D, D bed, L, Local)

All measurements in feet (to convert to meters, multiply by 0.3048)

SCALE 1:63 360

1 1/2 0 1 2 3 4 MILES

1 5 0 1 2 3 4 KILOMETERS

DATUM IS MEAN SEA LEVEL

THIS REPORT HAS NOT BEEN EDITED FOR CONFORMITY WITH GEOLOGICAL SURVEY EDITORIAL STANDARDS OR STRATIGRAPHIC NOMENCLATURE.