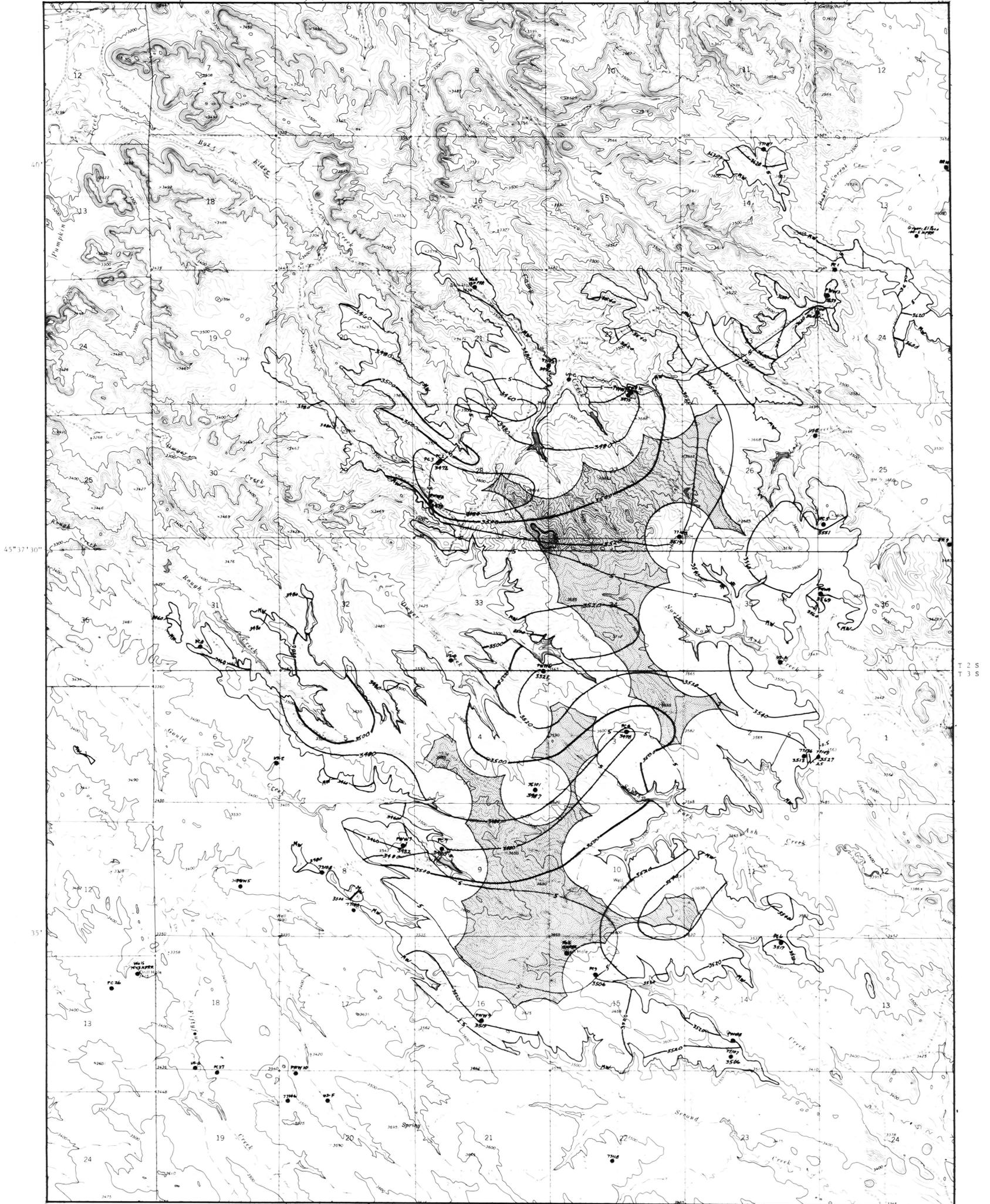


R 48 E R 49 E

R 49 E R 50 E



105°45'

42°30'

40'

105°37'30"

BASE FROM U.S. GEOLOGICAL SURVEY BOX ELDER CREEK, LESLIE CREEK, COALWOOD, AND OLIVE QUADRANGLES

CONTOUR INTERVAL 20 FEET

Geology mapped 1976, 77  
SCALE 1:24,000

0 1.0 MILE

0 5000 FEET

0 1.0 KILOMETER



STRUCTURE MAP ON BASE OF THE MACKIN-WALKER COAL BED IN THE PUMPKIN CREEK EMRIA STUDY SITE,  
SHOWING THE CATEGORIES OF COAL RESOURCES LISTED ON TABLES 1 AND 2,  
BOX ELDER CREEK, LESLIE CREEK, COALWOOD, AND OLIVE QUADRANGLES,  
POWDER RIVER COUNTY, MONTANA

By  
MARGUERITE GLENN  
1978

EXPLANATION

- MW— OUTCROP OF MACKIN-WALKER COAL BED OF THE TONGUE RIVER MEMBER, FORT UNION FORMATION (PALEOCENE)—Drawn on base of coal
- 3580— STRUCTURE CONTOUR—Drawn on base of Mackin-Walker coal bed. Contour interval 20 feet
- / — RESOURCE AREA CONTACT
- 2.5— RESOURCE AREA CONTACT WHERE MACKIN-WALKER COAL BED IS 2.5 FEET (0.76 m) THICK--No resources were calculated where coal bed is less than 2.5 feet (0.76 m) thick
- 5— RESOURCE AREA CONTACT WHERE MACKIN-WALKER COAL BED IS 5 FEET (1.5 m) THICK
- 200— RESOURCE AREA CONTACT WHERE OVERBURDEN EXCEEDS 200 FEET (61 m)
- AREA OF MEASURED RESOURCES--Area that is within 0.25 mile (0.40 km) of a point of observation on the coal bed
- AREA OF INDICATED RESOURCES--Area that is between 0.25 mile (0.40 km) and 0.75 mile (1.21 km) of a point of observation on the coal bed
- PW2 3600  
● DRILL HOLE--Number shown above  
Altitude of base of Mackin-Walker coal bed shown in feet above mean sea level  
Holes drilled for the EMRIA study are shown as follows:  
PW1--PW10, Holes drilled by U.S. Geological Survey  
76101, 77102, 77103, 77106--77110, Holes drilled by the U.S. Bureau of Reclamation  
77118, 77134, 77136, and 77137, Holes drilled by Montana Bureau of Mines and Geology and U.S. Geological Survey  
Previously drilled holes from which data (Matson, Blumer, and Wegelin, 1973, pls. 15, 17; geophysical and drillers' logs) were used are shown as follows:  
US-A--US-G, Holes drilled by U.S. Geological Survey  
BR9, BR10, PCI--PC8, PC26 and PC27, Holes drilled by Northern Pacific Railroad and Montana Bureau of Mines and Geology  
Greer--El Paso 100-5 NRR, Wolf 13, 15, and 14-13 NRR, Abandoned holes drilled in exploration for oil and gas
- ✕ ABANDONED COAL MINE

REFERENCE

Matson, R. E., Blumer, J. W., and Wegelin, L. A., 1973. Quality and reserves of strippable coal, selected deposits, southeastern Montana: Montana Bur. Mines and Geology Bull. 91, 135 p.

LOCALITY AND STRUCTURE CONTOUR MAPS OF THE PUMPKIN CREEK EMRIA STUDY SITE, POWDER RIVER COUNTY, MONTANA

By  
Marguerite Glenn  
1978