

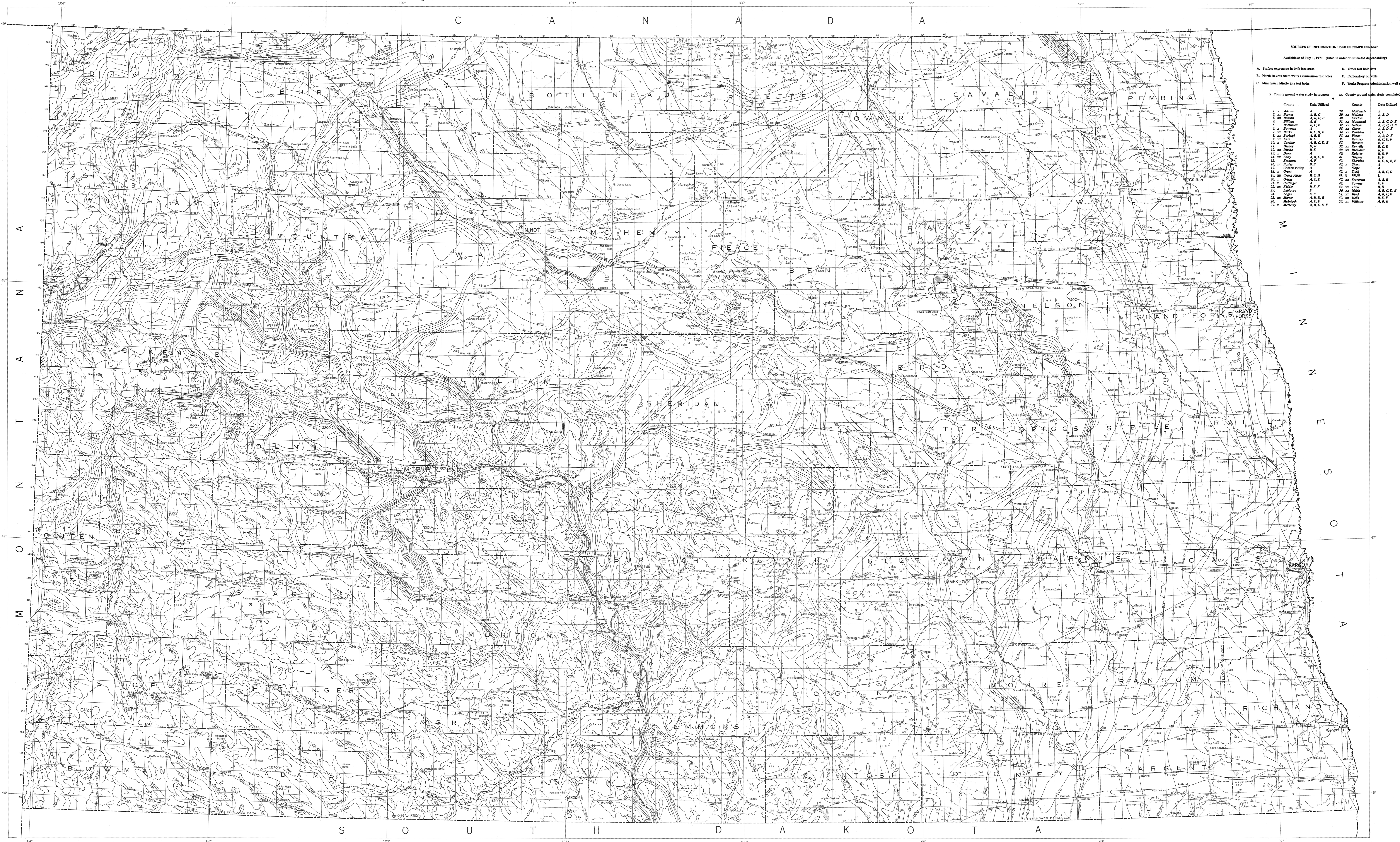
TOPOGRAPHIC MAP OF BEDROCK SURFACE OF NORTH DAKOTA

COMPILED BY JOHN P. BLUEMLE

NORTH DAKOTA GEOLOGICAL SURVEY, MISC. MAP NO. 12

Preliminary Map, July 1971

E. A. NOBLE, STATE GEOLOGIST



SOURCES OF INFORMATION USED IN COMPILING MAP
Available as of July 1, 1971. (Listed in order of estimated dependability)

- A. Surface expression in drift-free areas
- B. North Dakota State Water Commission test holes
- C. Minnesota Missile Site test holes
- D. Other test hole data
- E. Explosions of wells
- F. Works Progress Administration well schedules

x County ground water study in progress xx County ground water study completed

County	Data Utilized	County	Data Utilized
1. x Adams	A	26. McLean	A
2. xx Barnes	A, B, C, E	27. xx Minn.	A, B, C, D, E
3. xx Benson	A, B, D, E	30. Morton	A
4. Billings	A	31. xx Moun.	A, B, C, D, E
5. Bottineau	A, C, E	32. xx Nelson	A, B, C, D, E
6. xx Bowman	A, B, C, D, E	33. xx Otter	A, B, C, D, E
7. xx Burleigh	A, B, C, E	34. xx Pennington	A, B, C, D, E
8. xx Cass	A, B, C, D, E	35. xx Pierce	A, B, C, D, E
9. xx Cavalier	A, B, C, D, E	36. xx Ramsey	A, B, C, D, E
10. x Cavalier	A, B, C, D, E	37. xx Richland	A, B, C, D, E
11. xx Deuel	A, B, C, D, E	38. xx Sargent	A, B, C, D, E
12. xx Dickey	A, B, C, D, E	39. xx Steele	A, B, C, D, E
13. x Dickey	A, B, C, D, E	40. xx Towner	A, B, C, D, E
14. xx Eddy	A, B, C, D, E	41. Sully	A, B, C, D, E
15. x Emmons	A, B, C, E	42. xx Traill	A, B, C, D, E
16. xx Foster	A, B, C, E	43. xx Union	A, B, C, D, E
17. Golden Valley	A, B, C, D, E	44. xx Walsh	A, B, C, D, E
18. x Grand Forks	A, B, C, D, E	45. xx Ward	A, B, C, D, E
19. xx Grand Forks	A, B, C, D, E	46. xx Wells	A, B, C, D, E
20. x Grand Forks	A, B, C, D, E	47. xx Williams	A, B, C, D, E
21. x Hettinger	A, B, C, D, E		
22. xx Hettinger	A, B, C, D, E		
23. x Hettinger	A, B, C, D, E		
24. Hettinger	A, B, C, D, E		
25. Hettinger	A, B, C, D, E		
26. Hettinger	A, B, C, D, E		
27. x Hettinger	A, B, C, D, E		

Scale 1:500,000
1 inch equals approximately 8 miles
Lambert conformal conic projection
Standard parallels 47° and 50°

BASE MAP SUPPLIED COURTESY OF UNITED STATES GEOLOGICAL SURVEY