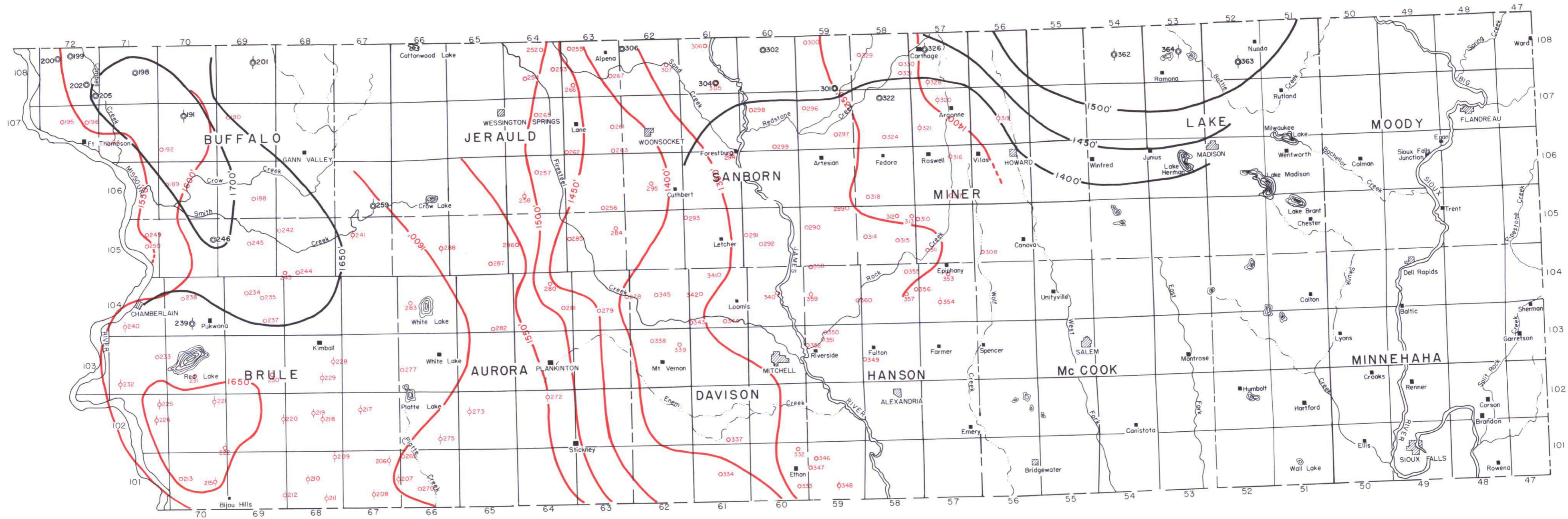


# PIEZOMETRIC MAP

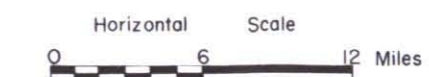
## OF THE AREA SURROUNDING SIOUX QUARTZITE RIDGE



### EXPLANATION

- Height of Static Column of Water in the Lakota Formation Datum Sea Level Contour Interval 50 feet
- Pumped Artesian Well from the Lakota Formation
- Artesian Flowing Well from the Lakota Formation
- Number of Well refers to Table in Text

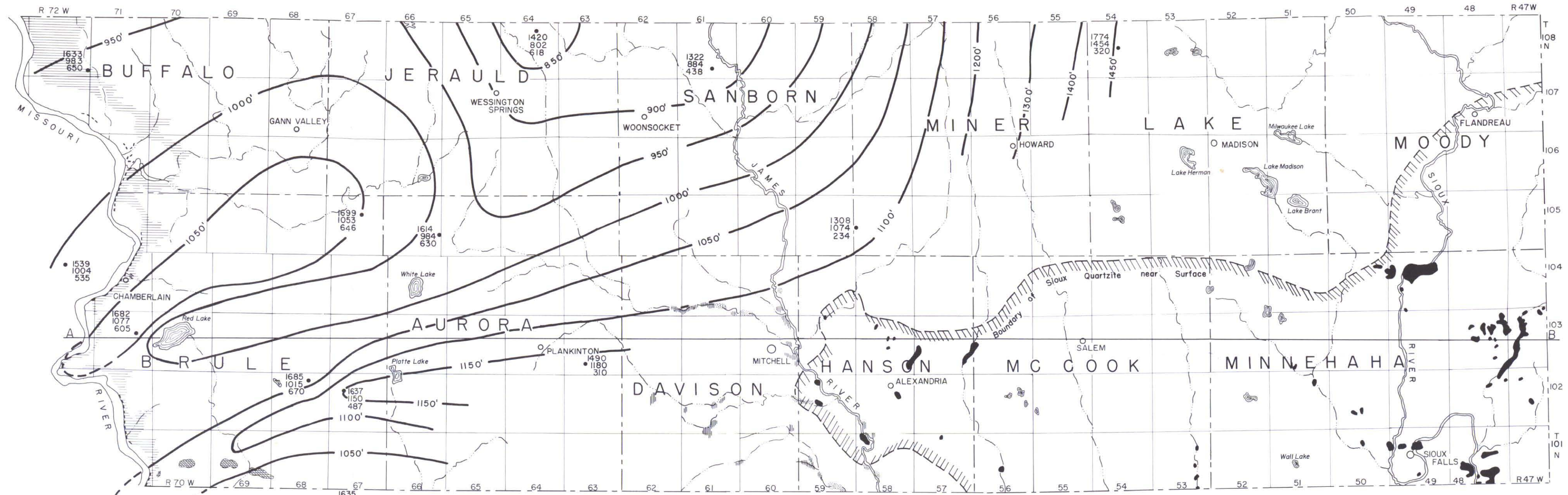
- Height of Static Column of Water in the Dakota Formation Datum Sea Level Contour Interval 50 feet
- Pumped Artesian Well from the Dakota Formation
- Artesian Flowing Well from the Dakota Formation
- Number of Well refers to Table in Text



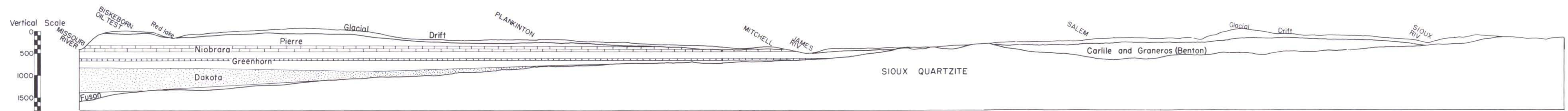
STATE GEOLOGICAL SURVEY  
Vermillion, South Dakota  
1952







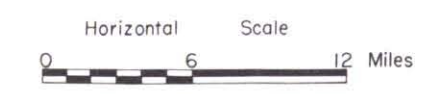
Niobrara chalk
  Pierre shale
  Glacial deposits
  Niobrara and Benton shale
  Benton sand (Codell)
  Bijou Formation
  Sioux quartzite



PROFILE ALONG LINE A-B

**Geologic Map showing bedrock outcrops.**

Contours show the altitude above sealevel of the top of the Greenhorn limestone formation  
 ● Water wells for location see Panel Diagram  
 ● 1699 Altitude top of well  
 ● 1053 Greenhorn  
 ● 646 Depth to Greenhorn  
 Data taken from sample studies and electric logs.



STATE GEOLOGICAL SURVEY  
 Vermillion, South Dakota  
 1952

Wells drilled by  
 Huron Drilling Co.  
 Carl Meier  
 Jake Deisch  
 A.F. Kuborn  
 E.B. Kucera

Huron, S.D.  
 White Lake, S.D.  
 Woonsocket, S.D.  
 Vermillion, S.D.

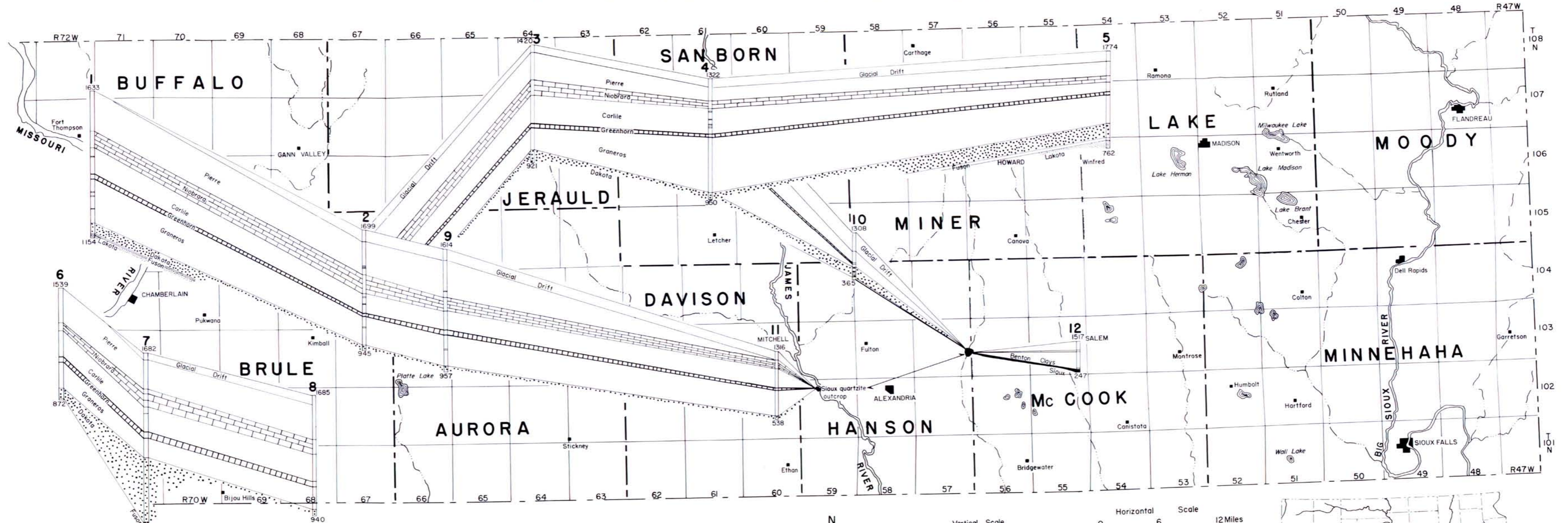


# PANEL DIAGRAM

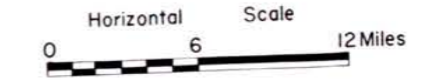
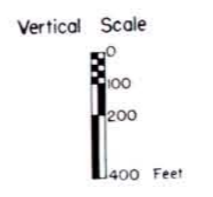
SUBSURFACE FORMATIONS

OF THE

AREA SURROUNDING SIOUX QUARTZITE RIDGE



No.	WELL	COUNTY	LOCATION	ALTITUDE	DEPTH
1	Knipping	Buffalo	ne 36 108 72	1633'	1154'
2	Gould	Brule	se 10 105 67	1699	945
3	Neumeyer	Jerauld	se 3 108 64	1420	921
4	Loring	Sanborn	se 27 108 61	1322	950
5	Carmody	Lake	sw 15 108 54	1774	762
6	Mn Plant	Lyman	9 104 72	1539	872
7	Biskeborn	Brule	ne 14 103 71	1682	1365
8	Eckstrum	Brule	se 3 102 68	1685	940
9	Knigge	Aurora	se 24 105 66	1614	957
10	Shave	Miner	ne 19 105 58	1308	365
11	Mitchell	Davison	103 60	1316	538
12	Salem	McCook	103 55	1517	247



STATE GEOLOGICAL SURVEY  
Vermillion South Dakota  
1952

