STATE OF SOUTH DAKOTA
Richard Kneip, Governor

SOUTH DAKOTA GEOLOGICAL SURVEY
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Information Pamphlet No. 6

SAND AND GRAVEL RESOURCES IN FAULK COUNTY, SOUTH DAKOTA

by

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the United States Geological Survey,
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and Faulk County

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INTRODUCTION

This publication is designed to aid in the exploration and development of the sand and gravel resources of Faulk County, South Dakota. Another publication entitled "Major Ground-Water Aquifers in Faulk County, South Dakota," South Dakota Geological Survey Information Pamphlet No. 9, describes the ground-water possibilities in the County. In addition, a comprehensive report on the technical aspects of the geology, hydrology, and the basic data will be published as Bulletin 26 at a later date.

The purpose of this report is two-fold: (1) to disseminate information about sand and gravel as quickly as possible, and (2) to express the technical data in a non-technical manner that will be useful to the lay reader. It must be stressed, however, that all of the pertinent geologic data used in compiling the technical reports has also been used in preparing this publication and the accompanying map.

It is recommended that the following publications be used whenever necessary as companion references to this pamphlet:

(a) Evaluation of exploration methods for coarse aggregate in eastern South Dakota: S. Dak. Geol. Survey Report of Investigations No. 95 Price $1.90

(b) Geology and water resources of McPherson, Edmunds, and Faulk Counties, South Dakota: S. Dak. Geol. Survey Bulletin 26 ..... To be published

The first of the above publications explains how sand and gravel maps are prepared from geologic maps and other data. The second publication contains all the test hole data and other information that was used in compiling this pamphlet.

GEOLOGIC TERMS

The following brief discussion of geologic terms is presented as an aid in understanding the discussion of sand and gravel deposits.

Outwash

Glacial outwash is a general term referring to any deposit of clay, silt, sand, gravel, or boulders that has been washed and sorted, and subsequently deposited by water from melting glacial ice. Depending on the amount of washing and sorting action, the material may contain an abundance of silt and clay, or in the other extreme, outwash may consist mostly of boulders. Most outwash is a mixture of material between the two extremes. That is to say an outwash deposit is usually composed primarily of sand and gravel.

Till

Till is the term used to define the unsorted and unstratified material lodged by an active glacier at the base of the ice, or let down by a glacier as the ice melted away. This material on the whole has not been subjected to the action of running water and therefore is a mixture of clay and silt-size particles containing a random mixture of sand, gravel, and boulders. This material is locally called "boulder clay" or blue clay."

The general distribution of the till is widespread throughout the County. However, within the large area of till there may exist small isolated hills or lenses of outwash material. In some cases these small areas of outwash may consist of useable sand and gravel. The size of the areas may range from a very small knob to an area the size of several acres or several tens of acres. Thickness of the lenses may vary from a thin veneer to over 50 feet; however, in general the thickness will be less than 20 feet.

Because of complexities in the mechanics of deposition from the ice these small hills and lenses of outwash have a very random occurrence. Their presence cannot generally be determined unless the outwash material is exposed or unless its location has been discovered through the use of hand auger holes, test holes, or other sampling procedures.

Alluvium

Alluvium consists of a mixture of clay, silt, sand, and gravel that has been deposited by streams since the retreat of the glaciers. The size of the deposits will depend primarily on the velocity of the stream and may vary from place to place in the stream valley. Where the deposits consist primarily of sand and gravel they may be mined for construction materials.

Bedrock Deposits

Bedrock deposits refer to the consolidated rocks underlying the glacial deposits. In Faulk County the bedrock deposits are sedimentary rocks and consist primarily of shale although they are sometimes referred to as slate by the local well drillers and other residents. There is no possibility of finding useable sand and gravel beneath the bedrock in Faulk County.

ABOUT THE MAP

The map showing sand and gravel deposits of Faulk County is designed to serve two functions: (1)

to express the possibility of finding sand and gravel in general areas within the County, and (2) to portray those areas that have been checked for sand and gravel and to relate those findings, either positive or negative, in a quick and easily understandable manner.

With regard to general information (the first function mentioned above) the map has been divided into two areas expressing the probability of discovering previously unmapped supplies of sand and gravel. The areas colored yellow refer to a relatively high probability, whereas white areas refer to a low probability.

The second function of the map, as previously stated, is to show the location of all known sand and gravel deposits in the County. This is done by using a series of symbols and two colors (red and green) to represent data of various types.

A red color pattern shows an area that was found to contain sand and gravel, whereas a green color shows an area that was found not to contain sand and gravel. Within these colored areas, spot sampling could show exactly the opposite as expected, however, this is highly unlikely.

In addition to the colors, the following symbols are used to show the results of test holes and other types of point sampling.

A (⛏) indicates the presence of a gravel pit or quarry on the map and no distinction is made between those presently being used or those abandoned. The number that is located beside the gravel pit symbol at many of the locations indicates that additional information is available from that particular pit. This information is given in table 1. Table 2 is a compilation of all known sand, gravel, and filler pits in Faulk County that are listed in the files of the South Dakota Department of Highways District Office in Aberdeen, South Dakota.

A (O) represents a test hole that does not contain any useable amount of sand and gravel in the upper 20 feet.

A (●) refers to a test hole that contains a useable amount of sand and gravel within 10 feet of the surface.

The symbol (Ø) refers to a test hole that contains sand and gravel within 10 to 20 feet of the surface.

Abbreviated logs of all of these test holes showing only the information pertaining to sand and gravel are listed in table 3 and are correspondingly by number on the map.

GENERAL HINTS FOR EXPLORATORY PURPOSES

It should be pointed out that the map is a general map to be used only as a guideline for further exploration and development of sand and gravel resources. The development of any specific site would depend upon materials specifications for the desired use, and the economics of further exploration and testing as opposed to the use of known sources of sand and gravel.

In general, further exploration for sand and gravel deposits in Faulk County should be concentrated in the red and yellow areas shown on the map. Although other areas of gravel do exist, they are widely scattered and difficult to locate.

TABLE 1. List of Sand and Gravel Pits in Faulk County, South Dakota, Having Logs on File at the District Highway Office, South Dakota Department of Highways, Aberdeen, South Dakota
(from South Dakota Department of Highways)

Pit No.	Description	Type	Average Depth in Feet	Average Depth of Stripping in Feet
1	SE¼ 1-120-68	Gravel	7.1	1.3
2	NE¼ 36-120-68	Gravel	6.7	1.5
3	NW¼ 33-120-66	Gravel	13.2	2.5
4	NW¼ 33-120-66	Sand	10.0	2.5
5	NE¼ 27-120-66	Gravel	8.4	4.3
6	NW¼ 26-120-66	Gravel	7.1	1.8
7	SW¼ 6-119-67	Gravel	5.8	2.5
8	SW¼ 6-119-67	Gravel	7.6	2.0
9	SE¼ 19-119-67	Gravel	6.5	0.0
10	SE¼ 19-119-67	Gravel	7.0	1.0
11	SE¼ 7-119-66	Sand	5.0	1.3
12	SW¼ 8-119-66	Gravel	8.0	1.0
13	NE¼ 20-119-66	Gravel	7.4	2.3
14	SE¼ 3-119-66	Gravel	7.9	1.5
15	NE¼ 10-119-66	Sand	7.0	1.7
16	NE¼ 15-119-66	Sand	6.0	4.3
17	SW¼ 34-119-66	Gravel	5.0	1.5
18	SW¼ 9-118-70	Sand	20.0	2.0
19	SE¼ 13-118-70	Gravel	3.0	2.0
20	NE¼ 24-118-70	Gravel	5.8	3.8
21	SW¼ 18-118-69	Gravel	9.0	2.0
22	SE¼ 9-118-68	Gravel	5.0	3.0
23	SW¼ 10-118-68	Gravel	5.3	3.7
24	SW¼ 10-118-68	Gravel	8.0	2.0
25	SW¼ 10-118-68	Gravel	6.6	1.8
26	SE¼ 10-118-68	Gravel	5.0	1.7

Table 1 -- continued.

Pit No.	Description	Type	Average Depth in Feet	Average Depth of Stripping in Feet
27	NW¼ 4-118-66	Sand	5.9	1.6
28	SE¼ 12-118-66	Sand	12.2	3.1
29	SE¼ 30-117-71	Gravel	7.0	1.0
30	NW¼ 17-117-71	Gravel	10.0	1.5
31	SW¼ 20-117-71	Gravel	10.0	1.8
32	NW¼ 29-117-71	Gravel	9.9	1.6
33	SW¼ 31-117-69	Gravel	12.4	1.5
34	SW¼ 22-117-69	Gravel	4.5	1.8
35	NW¼ 27-117-69	Gravel	5.6	1.7
36	NW¼ 35-117-67	Gravel	6.1	1.4
37	SE¼ 5-117-66	Sand	6.0	1.0
38	SW¼ 24-117-66	Sand	7.5	1.9

TABLE 2. List of Known Sand, Gravel, and Filler Pits in Faulk County, South Dakota, Which Are Recorded in the Files at the District Office, South Dakota Department of Highways, Aberdeen, South Dakota

Owner and Address	Description	Type
Faulkner, Stephan - Burkmere	SW 9-118-70	Filler
Bockelheide, Herman - Northville	NW 33-120-66	Filler
Goebell, A. - Faulkton	SE 11-118-68	
Faulk County	NW 33-120-66	
Bach, H. - Burkmere	NE 28-118-71	
Wilkins, R. R. - Faulkton	NE 13-120-67	
Giesen, Lyle - Faulkton	SENE 16-118-69	
Coleman, Ed - Seneca	NW 17-117-71	
Henderson, Clarence - Faulkton	SW 18-118-69	
Cowick, Herbert - Cresbard	E½ 19-119-67	
Stammer, Wayne - Miranda	NW 20-117-67	
Fisher, Tony - Cresbard	SE 36-120-68	
Taylor, Fred - Chelsea	NW 2-119-66	
Littel, Chas. E. - Zell	SW 24-117-66	
Swift, Julia - Cresbard	NE 36-120-68	
Maas, Robert Martin - Faulkton	NWNE 24-118-70 NW 24-118-70	
Faulkner, H. - Faulkton	SW 9-118-70	Sand-Filler
Ottenbacher, Arthur - Zeeland	NE 34-119-67	
Department of School & Public Lands - Pierre	NW 29-117-71	
Bower, F. H. - Faulkton	SE 12-118-69	
Bivens, Mrs. Alicia Jacobs - Salina, Kansas	NE 13-118-69	
Bastian, Hugo - Chelsea	SE 3-119-66	
Winkleman, Albert - Chelsea	SW 35-120-66	
Roseland, Estelle - Seneca	NE 30-117-71 NW 29-117-71	
Reinecke, Raymond - Athol	SE 12-118-66	
Reed, J. - Athol	SW 34-119-66	

Table 2 -- continued.

Owner and Address	Description	Type
Bastian, Hugo - Chelsea	NW 3-119-66	
Knudson, Ben - Chelsea	SW 8-119-66 SE 7-119-66	
Department of School & Public Lands - Pierre	SW 4-117-71	
Hanson, Schuler - Highmore	SE 5-117-71	
Kingsley, Floyd - Chelsea	NE 15-119-66	
Cardo, Joe - Chelsea	NW 26-120-66	
Goebel, Raymond - Faulkton	SE 11-119-68	
Leutzow, Claude - Rockham	NW 35-117-67	
Schultz, C. H. - Rockham	SE 27-117-67	
McKay, A. M. - Orient	NE 14-117-68	
Offut, Hattie B. - Cypress, California	SW 22-117-69	
Chaquist, Ernest - Orient	NW 34-117-69	
Department of School & Public Lands - Pierre	SWSW 20-117-71	
Melius, Delos - Faulkton	**A** SE 10-118-68 **B** SW 10-118-68	
Kalkman, C. J. - Faulkton	SE 9-118-68	
Newman, Ray - Rockham	NW 19-117-66	
Hutchinson, Wm. Jr. - Faulkton	SE 13-118-70	
Miller, Wendall - Cresbard	SW 18-119-67	
Melius, Lyle, Cresbard	N½SW¼ 6-119-67	
Boeklheide, Herman - Northville	NW 33-120-66	
Hanson, Tony - Chelsea	NE 27-120-66	
Hunt, Maurice	SE 6-119-66	
Gjermas, Guulick - Chelsea	NW 4-118-66	
Connell, Chas. F. - Cresbard	S½SW¼ 6-119-67	
Knudson, Harland & Ben - Chelsea	SE 7-119-66	
Knudson, Harland & Ben - Chelsea	SE 7-119-66	Gravel
Cowhick, Herbert - Cresbard	SE 19-119-67	Sand
Carda, Joseph - Redfield	NE 10-119-66	Gravel

Table 2 -- continued.

Owner and Address	Description	Type
Werner, Mrs. Mabel - Rockham	SE 5-117-66	Gravel
Meyer, Ben - Miranda	SESW 11-117-68	Gravel
Toennies, Walter A. - Cresbard	SE 1-120-68	Gravel
Huss, Raymond & Phyllis - Orient	SW 31-117-69	Gravel
Melius, Delos & Genevieve - Faulkton	SW 10-118-68	Gravel
Zimmerman, William - Pekin, Illinois	NE 20-119-66	Gravel
Christianson, Otto - Miranda	NE 8-117-66	Gravel
Fink, C. J. - Zell	NW 25-117-66	Gravel

TABLE 3. List of Test Holes Drilled in Faulk County, South Dakota, Which Have Been Found to Contain Sand and/or Gravel With Less Than Twenty Feet of Overburden

Locations have been plotted on a map of the area using symbols to indicate extent of overburden. (● - Sand and/or gravel with less than 10 feet of overburden; Ø - Sand and/or gravel with over 10 feet of overburden). Lithologic descriptions, as listed, have been condensed from data contained in driller's logs on file at the South Dakota State Geological Survey Office, Vermillion, South Dakota, and contain only such information which has been deemed most useful for this study.

Test Hole No.	Location	Geologic Unit	Lithologic Description	From-to Feet
1	SESESESE 25-120-68	Sand	Coarse, gravel included	12- 17
2	NESESENE 24-120-68	Sand	Medium to coarse	2- 25
3	NWNWNENE 13-120-68	Sand	Fine to very fine	1- 3
4	NWNWNWNE 18-120-67	Sand	Fine, very dirty, clay stringer included	1- 6
		Gravel	Coarse sand and approximately 20 percent clay included	6- 17
		Sand	Medium, approximately 30 percent clay included	17- 36
5	SWSESESW 18-120-67	Sand	Medium-grained	2- 8
6	NWNWNENE 13-120-67	Gravel	Pebble-size	0- 3
		Gravel	Impure	11- 22
7	SESENESE 30-120-66	Gravel	(Not described in driller's log)	1- 6
8	SESESENE 30-120-66	Gravel	(Not described in driller's log)	18- 20
9	SESESWSW 18-120-66	Gravel	(Not described in driller's log)	11- 14
10	NWNWSWNW 5-120-66	Gravel	(Not described in driller's log)	10- 15
11	NENWNWNE 4-120-66	Sand	Fine to medium to coarse	15- 36
12	NENWNENE 27-120-66	Gravel	Sand included	0- 15

13	SESWSESW 2-120-66	Sand	Gravel layers and some clay stringers included	18-223
14	SESESESE 2-120-66	Sand	Fine to medium	0- 2
15	NENENENE 14-120-66	Gravel	Coarse	10- 18
		Sand	(Not described in driller's log)	18- 24
16	NWNWNWNW 13-120-66	Gravel	Coarse	10- 20
		Sand & Gravel	Medium to coarse	20- 38
17	SWSWNWSW 24-120-66	Gravel	Sand included	8- 52
18	SWSWSWSW 26-120-66	Sand	Silt included	6- 10
		Sand	Coarse, gravel included	10- 14
19	SESESENE 7-119-70	Gravel	Coarse	1- 3
		Sand	Coarse to fine	3- 35
20	NWSWSWNE 16-119-68	Sand	(Not described in driller's log)	12- 15
21	SWSWSWSW 15-119-68	Sand	(Not described in driller's log)	9- 13
22	SESESESE 12-119-68	Sand	Medium to coarse, clayey	7- 9
23	NWNENENE 25-119-68	Sand	Fine to medium, clean	2- 3
		Sand	Fine	12- 15
24	NWNWNWNW 31-119-67	Sand	Medium to fine, approximately 10 percent clay included	18- 27
25	NWNWNENE 30-119-67	Sand	Fine to medium, very clean	1- 34
26	NWNENENE 30-119-67	Sand	Medium to fine, silt and clay included	11- 36
27	SESESESE 10-119-67	Sand	Coarse, pea-size gravel included	10- 26
		Sand	Fine, gravel included	26- 39
28	NENENENE 24-119-67	Sand	Silty	5- 8

Test Hole No.	Location	Geologic Unit	Lithologic Description	From-to Feet
29	NENENENE 34-119-67	Gravel	Pebble- to granular-size	12- 18
		Sand	Medium to fine, clayey	18- 26
30	NWNWNENE 6-119-66	Gravel	(Not described in driller's log)	0- 2
31	NWNWNWNE 7-119-66	Sand	Medium to coarse, very clean	0- 20
32	NWNENENE 20-119-66	Gravel	(Not described in driller's log)	0- 3
		Sand	Fine to medium to coarse	3- 8
33	NENENENE 20-119-66	Sand	Well graded	1- 11
34	SESESWSE 10-119-66	Gravel	Clayey	4- 8
		Gravel	Sandy	8- 22
35	SWSWSESE 15-119-66	Gravel	(Not described in driller's log)	7- 9
36	SWSWSESW 35-119-66	Gravel	Medium, sand included	1- 21
37	NENENENE 12-119-66	Sand	Well graded	0- 7
		Sand	(Not described in driller's log)	15- 18
38	SESESESE 13-119-66	Sand	Poorly graded	10- 18
39	NENENENE 24-119-66	Sand & Gravel	Poorly graded	10- 35
40	SWSWSESW 22-118-71	Sand	Medium to fine, silty	0- 4
41	SESWNWNW 11-118-71	Gravel	Granular- to cobble-size, with medium to coarse sand and a small amount of silt and clay included	2- 12
42	SWSWSWSE 2-118-71	Sand	Medium to fine, silty and clayey	0- 3
43	SESESESE 11-118-71	Sand	Fine, gravel included	0- 5
44	NWNWSWSE 22-118-70	Gravel	Sandy, very little silt and clay (Driller	0- 5

44 -- continued.			struck boulder at 5 feet and abandoned test hole)	
45	NWNESENE 22-118-70	Gravel	Coarse, sand and silt included	0- 5
46	SESESESE 22-118-70	Gravel	Very coarse, medium to coarse sand included	0- 6
47	SWSWNENW 23-118-70	Gravel	Coarse, sandy	2- 3
		Silt	Clayey	3- 7
		Gravel	Coarse, sandy	7- 9
48	NWNESESE 13-118-70	Gravel	Very coarse, cobbles included	0- 2
		Sand	Coarse, gravel, numerous large cobbles included	2- 10
49	NENESWSW 18-118-69	Sand	Silt included	2- 5
		Gravel	Sand included	5- 13
50	NENENENE 10-118-69	Sand & Gravel	(Not described in driller's log)	12- 16
51	SWSWSWSW 11-118-69	Sand	Fine	0- 4
		Gravel	(Not described in driller's log)	14- 19
52	SWSWNWNW 13-118-69	Sand	Fine	0- 4
		Clay	Sandy	4- 49
53	SWNWNENE 13-118-69	Sand	Coarse	9- 24
54	SESWNENE 13-118-69	Sand	Fine to coarse	0- 24
55	SWNWNWNW 16-118-68	Sand & Gravel	(Not described in driller's log)	3- 7
56	NENENENE 15-118-68	Sand & Gravel	(Not described in driller's log)	10- 15
57	NENENWNE 14-118-68	Sand	Medium to fine	0- 6
		Gravel	Pure	6- 12
		Sand	Medium to coarse, much granular-size material, grading to silts	12- 42

Test Hole No.	Location	Geologic Unit	Lithologic Description	From-to Feet
58	SWSESESE 14-118-68	Sand	Medium to coarse, some gravel stringers included	1- 72
59	SWSWNWSW 26-118-68	Sand	Medium, dry	1- 5
		Gravel	100-millimeters maximum size, sandy	5- 12
60	NENENENW 13-118-68	Sand	Medium to coarse, many granular- and pebble-size clasts	1- 5
61	SESESWSW 13-118-68	Sand	Medium to coarse	2- 6
62	SESESWSE 24-118-68	Gravel	(Not described in driller's log)	11- 15
63	SWNWSWNW 7-118-67	Sand	Coarse to fine, much gravel included	1- 7
		Sand	Medium to fine, clay stringer included	7- 10
		Gravel	Clean	10- 12
		Sand	Medium to coarse, with silts, clays, and approximately 10 percent gravel included	12- 20
		Sand	Fine	20- 28
64	NWNWNWNW 6-118-67	Sand	Coarse to medium	10- 20
65	NWNWSESE 33-118-67	Gravel	Coarse sand included	1- 7
66	SWNWSENE 36-118-67	Gravel	Pebble-size	1- 8
67	NWNWNWNW 28-118-66	Sand	Fine to medium, clean	1- 3
		Sand	Coarse, saturated, silty	3- 6
68	SESESESE 9-118-66	Sand	Including gravel and silt, poorly sorted	0- 12
69	SWSWSWSW 3-118-66	Sand	Medium, alternating with gravel	1- 24
70	SESENESE 2-118-66	Sand	Fine	0- 4
71	NWSWSWSW 1-118-66	Sand	Medium to coarse	9- 23
72	SWSWSESE 30-117-71	Sand & Gravel	(Not described in driller's log)	0- 44

73	NENENENW 31-117-71	Sand	Fine to medium, silty	0- 3
		Clay	Dry	3- 5
		Sand	Medium to fine, clayey	5- 22
74	SWSESWSE 31-117-71	Gravel	Pebble- to cobble-size	0- 3
		Sand	Coarse, to cobble-size gravel	3- 17
75	NENWNWNW 20-117-71	Gravel	Impure, small cobbles and pebbles included	5- 8
		Sand	Medium to coarse	8- 10
		Gravel	Pebble-size	10- 11
76	SWSWSWSW 32-117-71	Gravel	10- to 200 millimeters, sandy, with some clay and silt	1- 10
		Sand	Medium to coarse	10- 36
77	SESESWSW 32-117-71	Gravel	50-millimeters maximum size, rich in clays and silts	0- 5
78	NWNWNWNE 4-117-71	Sand	Medium to coarse, gravelly, dry	1- 4
79	SWSWSWSW 36-117-70	Gravel	Fine to coarse	17- 59
80	SESESESW 31-117-69	Sand	Coarse, clay included	6- 21
81	NESESWNE 8-117-69	Gravel	Sand included	1- 6
82	SENWNWNW 10-117-69	Sand	Fine, with some gravel included	1- 4
		Gravel	Clean	4- 5
83	SWNWSENW 15-117-69	Gravel	Some silt and clay included	3- 6
84	NENENESW 15-117-69	Gravel	(Not described in driller's log)	4- 6
		Gravel	Large cobbles included	10- 11
85	NWNWSESW 15-117-69	Gravel	Sand and small amount of clay included	0- 5
86	SWSWSWSW 3-117-68	Gravel	Pebble- to cobble-size	5- 7
		Sand	Fine to coarse, silty	7- 25
87	NENENWNE 10-117-68	Sand	(Not described in driller's log)	13- 16

Test Hole No.	Location	Geologic Unit	Lithologic Description	From-to Feet
88	NESESESE 2-117-68	Sand	Medium, well sorted	0- 11
		Sand	Medium to fine	11- 20
89	SWSWSWSE 11-117-68	Gravel	Cobbles included	0- 10
		Sand	Medium to coarse	10- 11
90	SWSESESE 13-117-68	Gravel	(Not described in driller's log)	18- 24
91	SWSWSWSW 24-117-68	Gravel	Water at 11 feet	10- 12
		Gravel	Below sandy clay stringer	13- 16
		Gravel	Below sandy clay stringer	19- 24
92	SWSESWSE 36-117-68	Sand	Grading to fine gravel	6- 14
		Sand	Medium to fine gravel included	14- 25
93	SWSWSWNW 17-117-67	Sand	Fine to medium, impure	1- 11
94	NWNWSWNW 17-117-67	Gravel	(Not described in driller's log)	0- 12
		Sand	Medium to coarse	12- 13
95	SWSWSWSE 20-117-67	Gravel & Sand	(Not described in driller's log)	2- 10
96	NENWNWNE 29-117-67	Gravel	Coarse to fine, sandy	0- 6
		Sand	Medium to fine, very clayey	6- 8
97	NENENENE 4-117-67	Sand & Gravel	(Not described in driller's log)	5- 20
98	NESWSWSE 15-117-67	Sand	Medium to coarse, silty, clayey	0- 7
		Gravel	Pea-size, with coarse sand	12- 23
99	NENENWNE 26-117-67	Sand	Medium to coarse	1- 4
		Gravel	(Not described in driller's log)	4- 8
		Sand & Gravel	Impure	10- 32
100	SWSWSESW 36-117-67	Sand	Medium, grading to gravel	0- 12

101	NWNENWNW 6-117-66	Sand	Medium to coarse, gravel included	2- 8
102	NENENENE 7-117-66	Sand	(Not described in driller's log)	17- 18
103	SWSWSWSW 19-117-66	Gravel	Pebbly	1- 2
		Sand	Medium-grained	2- 20
104	SESWSWSW 19-117-66	Sand	Medium-grained	1- 30
105	NWSWNWNW 17-117-66	Sand	Medium to coarse to fine	2- 7
		Sand	Medium to coarse	9- 17
106	NENESENE 34-117-66	Gravel	Pebble-size, grading to fine sand	8- 10

MAP SHOWING SAND AND GRAVEL DEPOSITS OF FAULK COUNTY

EDMUNDS COUNTY

POTTER COUNTY

SPINK COUNTY

HYDE COUNTY

HAND COUNTY

R. 72 W. R. 71 W. R. 70 W. R. 69 W. R. 68 W. R. 67 W. R. 66 W.

T. 120 N. T. 119 N. T. 118 N. T. 117 N.

ONAKA SENECA FAULKTON CRESBARD CHELSEA ORIENT ROCKHAM

EXPLANATION

Good probability of finding sand or gravel deposits

No probability of finding sand or gravel deposits

General areas which have been field checked in part by the South Dakota Dept. of Highways and are known to contain sand and/or gravel deposits within 10 feet of the surface.

General areas which have been field checked in part by the South Dakota Dept. of Highways and are known not to contain sand and/or gravel deposits in sufficient quantities to be deemed useable according to standards set by the Dept. of Highways. (This is not intended to indicate that sand and/or gravel is not present in these areas in useable amounts for other purposes.)

Data was compiled from information on file at the District Office, S.D. Dept. of Highways, Aberdeen, S.D.

- ○ Test hole — does not contain sand or gravel in upper 20 feet
- ● Test hole — contains sand or gravel with less than 10 feet of overburden
- ⌀ Test hole — contains sand or gravel with 10 to 20 feet of overburden
- Gravel pit — no distinction between those presently used or abandoned (number denotes additional information is available — see Table I)
- Meltwater channel from which sand and gravel has been wholly or partly removed.

Index map showing location of Faulk Co.

0 1 2 3 4 5 6
SCALE IN MILES

by
Cleo M. Christensen

Sectionized township