

1. Considered: _____, 19____ Water Right No. 4950-3

2. Name of Applicant CITY OF BRUCE

3. Post Office Address Box 286, Bruce 57220

4. Amount of Water Claimed Average daily use 20,000 gpd, pump capacity 120 gpm (.27 cfs) ~~803~~ maximum acre feet _____

5. Source of Water Supply ground water ~~one~~ 36' well

6. Water to be used for MUN acres to be irrigated _____

7. County Brookings about _____ miles _____ of City Limits

8. PROOF OF PUBLICATION: Received 5-2-83 ^{BU 9/14/83} Not Received _____

APPLICATION: Approved 6-9-83 Subject to SW

Not Approved _____ Action Deferred _____

PRIORITY

3/11/83

Dated Received 3/11/83 Application complete-yes ☒ no _____ FEE 50.00

Remarks sent 150 fee back only need 50.00 fee for the amount of water requested

Corrected Application ^{Free} received 3/31/83 Period of Annual Use 1/1 - 12/31

WATER
QUALITY

Received yes _____ no _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as application-yes _____ no _____ Remarks _____

Disapproved _____ Returned _____

					x
				12	

Diversion Point _____

SE 1/4 NE 1/4 Section 12, T111-R51W

~~Land to be irrigated~~ _____

WELL LOG

Driller _____ Licensed - yes _____ no _____

Depth Ed Lacey and Sons

Remarks 36' deep Log states 35' bottom of casing

drill hole 31.6 feet deep

(BS:B Management Unit 8722)

MAP Map No. 4950-3 Map located in Water Right x Map file _____
 Type of Map aerial Prepared by County Agent
 Donald Boone

+++++

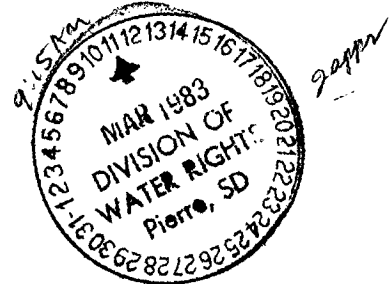
REVIEWED This Application was received within 30 days of the date received, accepted as complete, Number assigned and written up for advertisement before the Board on:
3/28/83

Betty Westlund
 (Signed)

+++++

PROTESTS Letters/Petitions in File - yes _____ no _____ Remarks _____

REMARKS Date _____
 F.F. & C. Final Decision, including F.F. & C. of Law were adopted _____
 OF LAW, Date _____
 FINAL Final Decision mailed to parties and/or parties notified that Final Decision was
 DECISIONS adopted _____
 ETC. Remarks _____



No. 4950-3
 Map No. 4950-3 Water Division No. 3 BIG SIOUX RIVER District
 Above for Office Use 10176202

APPLICATION FOR PERMIT**To Appropriate Water within the State of South Dakota**

Check one of the following:

EDA Project-1977 # 05-51-27024
 New ☒ Vested Right ☐ Future Use

Change in Diversion ☐ Additional Diversion ☐Change in Acreage ☐ Additional Acreage ☐

1. Name of Applicant City of Bruce Phone No. 605-627-5323
 Post Office Address Box 286 Bruce State S.D. 57220
 (Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract✓ 3. Name of diversion work Bruce City Municipal well✓ 4. Amount of water claimed (cubic feet per second) 0.27 cfs 20,000 gallons a day (average)5. Source of water supply City Pump

✓ 6. Location of point of diversion 600' from Corner of Jay (Main) St & Second Street - Town of Bruce
SE¹NE¹ SEC. 12-T11N-R51W County ✓ Brookings

7. Annual period or periods during which water is to be used Daily8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Municipal

9. For irrigation use, Total number of acres to be irrigated _____

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.

Land Description	No. Acres Irr.

Attach sheet if more space is needed

✓ 10. Time required to complete construction of water supply system Completed in 1978 (October) years. Additional time required to complete application of water to the proposed beneficial use _____ years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water _____

12. Principal Features of the Proposed Water Supply System.

✓ A. Works proposed to divert water from its natural source.
water supply for city residents

✓ B. Works proposed to transport water to place of use. None

✓ C. Works proposed to apply water to beneficial use. City Pump & Connectories to each residence & business place in town
Total
 Estimated Total Cost \$ 195,000.00

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map. (see instructions concerning preparation.)

STATE OF SOUTH DAKOTA)

County of Brookings) ss.

I, LaVelle H. Alter, Mayor City of Bruce the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed L. H. Alter
 Subscribed and sworn to before me this 10th day of March, 1983
John H. Nelson
 Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 4950-3

City of Bruce
(Applicant)
South Dakota
(State)

Box 286 Bruce
(Post Office Address)

With the following qualifications.

The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in wells having prior water rights.

Date of first receipt of application March 11, 1983
Date of return to applicant for correction, amendments or changes required March 14, 1983
Date of receipt of corrected application March 31, 1983
Approved June 9, 1983, Recorded in Book Page

WATER RIGHT PERMIT NO. 4950-3

The Water Management Board hereby grants and issues this Water Right Permit No. 4950-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is March 11, 1983
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before December 9, 1985
3. The whole of said work is to be completed on or before June 9, 1988
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is June 9, 1992
5. The water appropriated shall be used for the purpose of Municipal water

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 0.27 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and ~~if for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied~~

for ~~irrigation~~ on or before June 9, 1992; said water to be used during the following described annual period: January 1 - December 31

Witness my hand this 20th day of June, 1983

THE WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer, Water Rights

Certificate of Construction Issued , 19
Water License Issued February 6, 1985

D. Well Information

- (1) Drill Hole, Diameter 12", Depth 36'
- (2) Casing, Type STEEL (wood, concrete, steel, etc.), Diameter _____, Thickness _____
- (3) Screen, Type STAINLESS STEEL, Diameter _____, Length _____
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Depth to water (ground surface to water level) _____

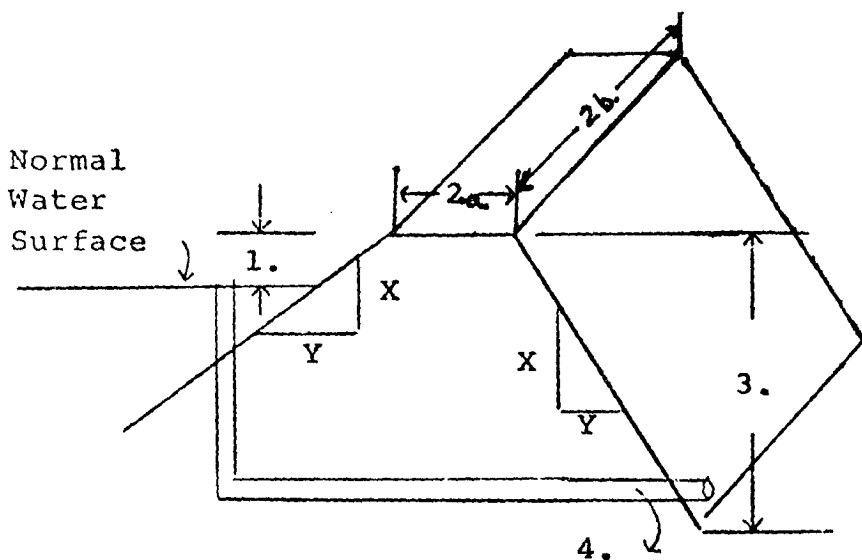
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property _____ rds.

On property owned by others _____ rds.

G. Water Storage Dams

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____
- 2a Crest width _____ b. length _____
3. Height of Dam _____
4. Outlet dimensions:
Pipe diameter _____
Spillway width _____
- X & Y slope:
Upstream _____
Downstream _____
- Surface area of impoundment _____
- Drainage area above dam _____

John Doe
Signature of Applicant
Mayor City of Brund

D. Well Information

- (1) Drill Hole, Diameter 12", Depth 36'
- (2) Casing, Type _____, Diameter _____, Thickness _____
(wood, concrete, steel, etc)
- (3) Screen, Type _____, Diameter _____, Length _____
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Depth to water (ground surface to water level) _____

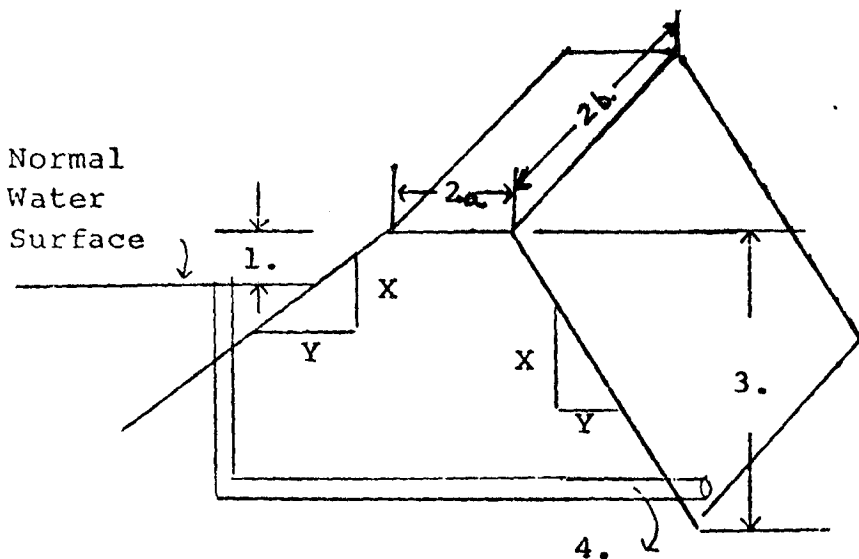
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property _____ rds.

On property owned by others _____ rds.

G. Water Storage Dams

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____
- 2a Crest width _____ b. length _____
3. Height of Dam _____
4. Outlet dimensions:
Pipe diameter _____
Spillway width _____
- X & Y slope:
Upstream _____
Downstream _____
Surface area of impoundment _____
- Drainage area above dam _____

L. H. Hutto
Signature of Applicant
Mayor, City of Brea

(1) WELL CONSTRUCTION

Location of well: 1/4 1/4 NW Section 12 Township 17-N Range 51-W
Well owner City of Boise (Name) Boise South District (Address)
Date well drilling completed 12-20-77 Purpose of well Domestic - Municipal
(domestic, irrigation, municipal, industrial, other)

WELL LOG

WELL LOG

[illegible]

(2) PUMP INSTALLATION

Company name and size of pump _____ HP 10
Type of pump Turbine Capacity of installed pump 120 G.P.M.
Depth of pump placement _____ ft., Date of pump installation Not yet

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.40B of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

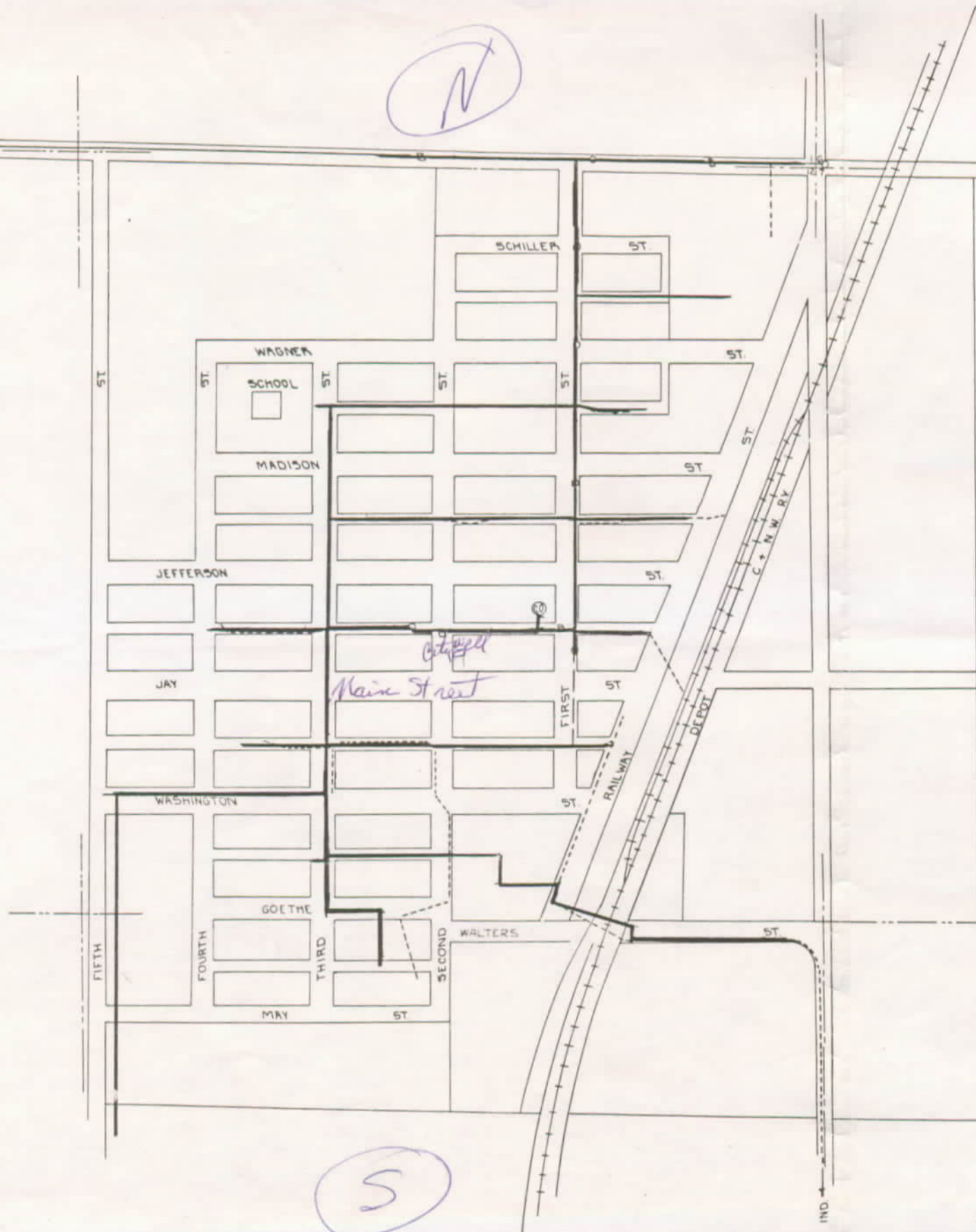
Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____ tube material _____



Ed H. Lacey & Sons
Name of Pump Installation Contractor

TOLL TO VOLGA
TOLL AND EX. CA
TO 10/11

N



S

N.W. Bell Telephone
Lines Map

SYMBOLS

UNDERGROUND CABLE
BURIED

NOT TO SCALE





City Well + Pump

SOIL INVESTIGATION
PROPOSED BUILDING AND CITY WELL
BRUCE, SOUTH DAKOTA

Built in 1977

#620-1074

SUMMARY

The following summary is provided for convenience only and we caution you to read the entire report to properly evaluate our recommendations and conclusions.

The proposed single story well building located northeast of the intersection of Second Street and Jay Street will be a masonry construction with a slab-on-grade floor support.

Basically, the soil profile encountered at the site consists of 2' of sandy clay topsoil overlying sandy clay alluvial deposits, which extended to a depth of $3\frac{1}{2}$ ' below grade. Below the sandy clay, we encountered a fine to coarse grained sand, which extended to a depth of $33\frac{1}{2}$ ' below grade where we encountered a lean clay till, which extended to the termination of the boring.

A system of spread footings proportioned for 3000 pounds per square foot maximum may be utilized on the fine to medium grained sand located $3\frac{1}{2}$ ' below grade. The slab-on-grade construction should be supported on an engineered fill placed from the level of competent mixed alluvial deposits.

INTRODUCTION

This report presents our findings and recommendations pertaining to the soil investigation and engineering analysis for the above referenced building and city well in Bruce, South Dakota. The purpose of this report is to describe the soil conditions encountered at the site, to analyze and evaluate these conditions, the laboratory test results, and based on this data, to recommend possible foundation designs and construction procedures.

On October 6, 1977, we conducted an investigation consisting of one soil boring drilled to a depth of 36' below grade at the approximate location shown on the attached sketch. The surface elevation of the soil boring was referenced to the nail in the east side of the light pole located at the northeast corner of the intersection of Second Street and Jay Street, which was taken as 100.0', an assumed elevation.

SOIL CONDITIONS

The basic soil profile at the site consists of 2' of topsoil overlying sandy clay, geologically classified as mixed alluvium, which extended to a depth of 3½' below grade. Beneath the mixed alluvium, we encountered a fine to coarse grained sand geologically classified as coarse alluvium, which extended to a depth of 33½' below grade. A lean clay till was encountered at 33½' below grade and extended to the termination of the boring.

GROUND WATER

Ground water determinations were made at the boring locations and measurement data is recorded on the log of the boring. Ground water was observed at 8' below grade. Because of the permeable characteristics of the sandy soil the ground water measurement is accurate for the time the boring was made. However, seasonal and yearly fluctuations in the ground water level can also

be expected to occur.

LABORATORY TESTS

Several soil samples were selected for laboratory tests to determine engineering and index properties. Tests consisted of the determination of moisture content, dry density and Atterberg limits (liquid and plastic limits). Hand penetrometer tests were also performed.

The tests were performed in accordance with American Society for Testing and Materials (ASTM) procedures. Test results are shown on the boring log opposite the samples upon which the tests were made.

ENGINEERING ANALYSIS AND RECOMMENDATIONS

Project Information

The proposed rectangular building will have approximate dimensions of 40' x 14' ~~60'~~ and will be of masonry construction with a slab-on-grade construction. We understand that the building will contain a fresh water well.

Foundation Analysis

A system of spread footings proportioned for 3000 pounds per square foot placed on the coarse alluvium found at 3½' below grade will serve as an adequate foundation support.

For support of slab-on-grade, we recommend removal of the sandy clay topsoil to a depth of 2' below grade. The engineered fill may be either granular (sand) or cohesive (clay) soils. Granular materials may be placed in maximum 12" loose lifts while cohesive soils should be placed in maximum 6" loose lifts. Cohesive materials should be compacted at a moisture content slightly higher than the optimum determined by ASTM:D698-70 (Standard Proctor). The fill material should be compacted to 95% of the maximum density determined by ASTM:D698-70 (Standard

Proctor). We also recommend that 6" of material just below the slab-on-grade construction consist of free draining sand and/or gravel containing not more than 15% passing the #200 sieve by weight to serve as a vapor barrier and to provide a uniform working surface for placement of concrete.

Construction Inspection

We recommend that a soils engineer/soils engineering inspector be retained to monitor the earthwork operations. He would verify soil conditions in the area of our boring location and determine when the excavation was satisfactorily completed. He would provide additional consultation and recommendations as necessary. We also recommend that an appropriate number of field density tests be taken in any fill placed.

FIELD INVESTIGATION PROCEDURES

Soil Sampling

Soil sampling was performed in accordance with ASTM:D1586-67. Using this procedure, a 2" O.D. split barrel sampler is driven into the soil by a 140 lb weight falling 30". After an initial set of 6", the number of blows required to drive the sampler an additional 12" is known as the penetration resistance or N value. The N value is an index of the relative density of cohesionless soils and the consistency of cohesive soils.

Soil Classification

As the samples were obtained in the field, they were visually and manually classified by the crew chief in accordance with ASTM:D2488-69. Representative portions of all samples were then returned to the laboratory for further examination and for verification of the field classification. In addition, selected samples were submitted to a program of laboratory tests. A log of the boring indicating the depth and identification of the various strata, the N value, the laboratory test data, water level information and pertinent

information regarding the method of maintaining and advancing the drill hole are attached. Charts illustrating the soil classification procedure, the descriptive terminology and symbols used on the boring log are also attached.

ENGINEERING LIMITATIONS

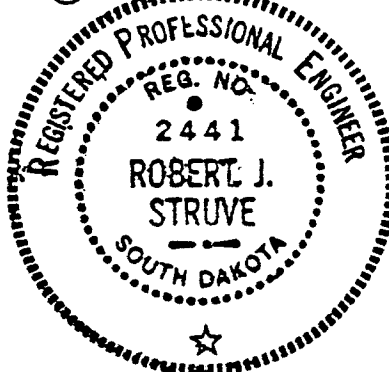
The recommendations and/or suggestions contained in this report are our opinions based on data which are assumed to be representative of the site explored; but because the area of the boring in relation to the entire area is very small, and for other reasons, we do not warrant conditions below the depth of our boring or that the strata logged from our boring are necessarily typical of the entire site.

This report was prepared by:

Marc D. Shannon
Marc D Shannon, C.E. KS
Geotechnical Engineer - Sioux Falls

This report was prepared under
the direct supervision of :

Robert J Struve
Robert J Struve, P.E.
Geotechnical Engineer - St Paul



FINE AGGREGATE TEST

Project: Proposed Building and City Well
Bruce, South Dakota

Date: October 11, 1977

Reported to: City Commission
Bruce, South Dakota

Copies: DeWild, Grant, Reckert &
Associates - Rock Rapids

Job No: 620-1074

<u>Boring Number:</u>	1	1	1
-----------------------	---	---	---

<u>Sample Number:</u>	3	5	8
-----------------------	---	---	---

MECHANICAL ANALYSIS:

Passing 3/8"	87	97	84
#4	71	86	74
#8	57	74	60
#16	48	59	42
#30	39	37	20
#50	13	13	10
#100	6.1	5.6	6
Material Finer than #200	4.5	4.2	4.7

SOIL EXPLORATION

COMPANY

JOB NO. #620-1074 VERTICAL SCALE 1"=3' LOG OF TEST BORING NO. 1
 PROJECT Proposed Building and City Well Bruce, South Dakota

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS			
					NO.	TYPE	W	D	$\frac{LL}{PL}$	Qu
	 SURFACE ELEVATION <u>-100.3' 1620.8</u>									
2	SANDY CLAY, dark brown, medium (OL)	TOPSOIL	-5		1	SS				
3½	SANDY CLAY, trace of gravel, brown, rather stiff (CL)	MIXED ALLUVIUM	-13		2	SS	14	97	$\frac{39}{19}$	Pq= 3.2
	SAND, fine to medium grained, some gravel, brown, very dense (SP)	COARSE ALLUVIUM	-44		3	SS				M.A.
7	SAND, medium to coarse grained, a little gravel to some gravel, brown, waterbearing at 8', very dense to dense (SP)		-36		4	SS				
			-23		5	SS*				M.A.
			-28		6	SS				
20	BORING CONTINUED ON NEXT PAGE * Coefficient of Uniformity = $\frac{D_{60}}{D_{10}} = \frac{2.5}{0.3} =$ $C_u = 8.3$									

SOIL EXPLORATION COMPANY

JOB NO. #620-1074 VERTICAL SCALE 1"=3' LOG OF TEST BORING NO. 1 (cont)
 PROJECT Proposed Building and City Well Bruce, South Dakota

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS			
					NO.	TYPE	W	D	L.L. P.L.	Qu
20	SAME AS PREVIOUS PAGE	COARSE ALLUVIUM	-16		7	SS				
			-23		8	SS*				M.A.
			-19		9	SS				
33½	LEAN CLAY, a little gravel, brown and gray mottled, stiff	TILL								
36	(CL)		-21		10	SS				
	END OF BORING									
	* Coefficient of Uniformity = $\frac{D_{60}}{D_{10}} = \frac{1.2}{0.22}$ $C_u = 5.5$									

WATER LEVEL MEASUREMENTS

START 10-6-77 COMPLETE 10-6-77

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD	
10-6	1:05	35'	34½'	34½'	to	8'	3½" HSA	0-34½'
10-6	1:16	36'	None	8'	to	8'		@ 1.00
10-6	1:30	36'	None	8'	to	7½'		
					to			

CREW CHIEF Hanson

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS

SYMBOL	DEFINITION
C.S.	Continuous Sampling
P.D.	2-3/8" Pipe Drill
C.O.	Cleanout Tube
3 1/4 HSA	3 1/4" I.D. Hollow Stem Auger
4 FA	4" Diameter Flight Auger
6 FA	6" Diameter Flight Auger
2 1/2 C	2 1/2" Casing
4C	4" Casing
D.M.	Drilling Mud
J. W.	Jet Water
H. A.	Hand Auger
NXC	Size NX Casing
BXC	Size BX Casing
AXC	Size AX Casing
SS	2" O.D. Split Spoon Sample
2T	2" Thin Wall Tube Sample
3T	3" Thin Wall Tube Sample

LABORATORY TEST SYMBOLS

SYMBOL	DEFINITION
W	Moisture content - percent of dry weight
D	Dry density-pounds per cubic foot
LL, PL	Liquid and plastic limits determined in accordance with ASTM D 423 and D 424
Qu	Unconfined compressive strength-pounds per square foot in accordance with ASTM D 2166-66
Additional insertions in Qu column	
Pq	Penetrometer reading-tons/square foot
Ts	Torvane reading-tons/square foot
G	Specific gravity - ASTM D 854-58
SL	Shrinkage limit - ASTM D 427-61
pH	Hydrogen ion content-meter method
O	Organic content-combustion method
M.A.*	Grain size analysis
C*	One dimensional consolidation
Qc*	Triaxial compression

*See attached data sheet and/or graph

WATER LEVEL

SYMBOL - 

Water levels shown on the boring logs are the levels measured in the borings at the time and under the conditions indicated. In sand, the indicated levels can be considered reliable ground water levels. In clay soil, it is not possible to determine the ground water level within the normal scope of a test boring investigation, except where lenses or layers of more pervious waterbearing soil are present and then a long period of time may be necessary to reach equilibrium. Therefore, the position of the water level symbol for cohesive or mixed texture soils may not indicate the true level of the ground water table. The available water level information is given at the bottom of the log sheet.

DESCRIPTIVE TERMINOLOGY

DENSITY

TERM	"N" VALUE
Very loose	0-4
Loose	5-8
Medium Dense	9-15
Dense	16-30
Very Dense	Over 30

CONSISTENCY

TERM	"N" VALUE
Soft	0-4
Medium	5-8
Rather Stiff	9-15
Stiff	16-30
Very Stiff	Over 30

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon.

RELATIVE PROPORTIONS

TERM	RANGE
Trace	0-5%
A Little	5-15%
Some	15-30%
With	30-50%

PARTICLE SIZES

Boulders	Over 3"
Gravel	
Coarse	3/4"-3"
Fine	#4-#4"
Sand	
Coarse	#4-#10
Medium	#10-#40
Fine	#40-#200
Silt and Clay	Determined by plasticity Characteristics

Note: Sieve sizes shown are U.S. Standard

CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES

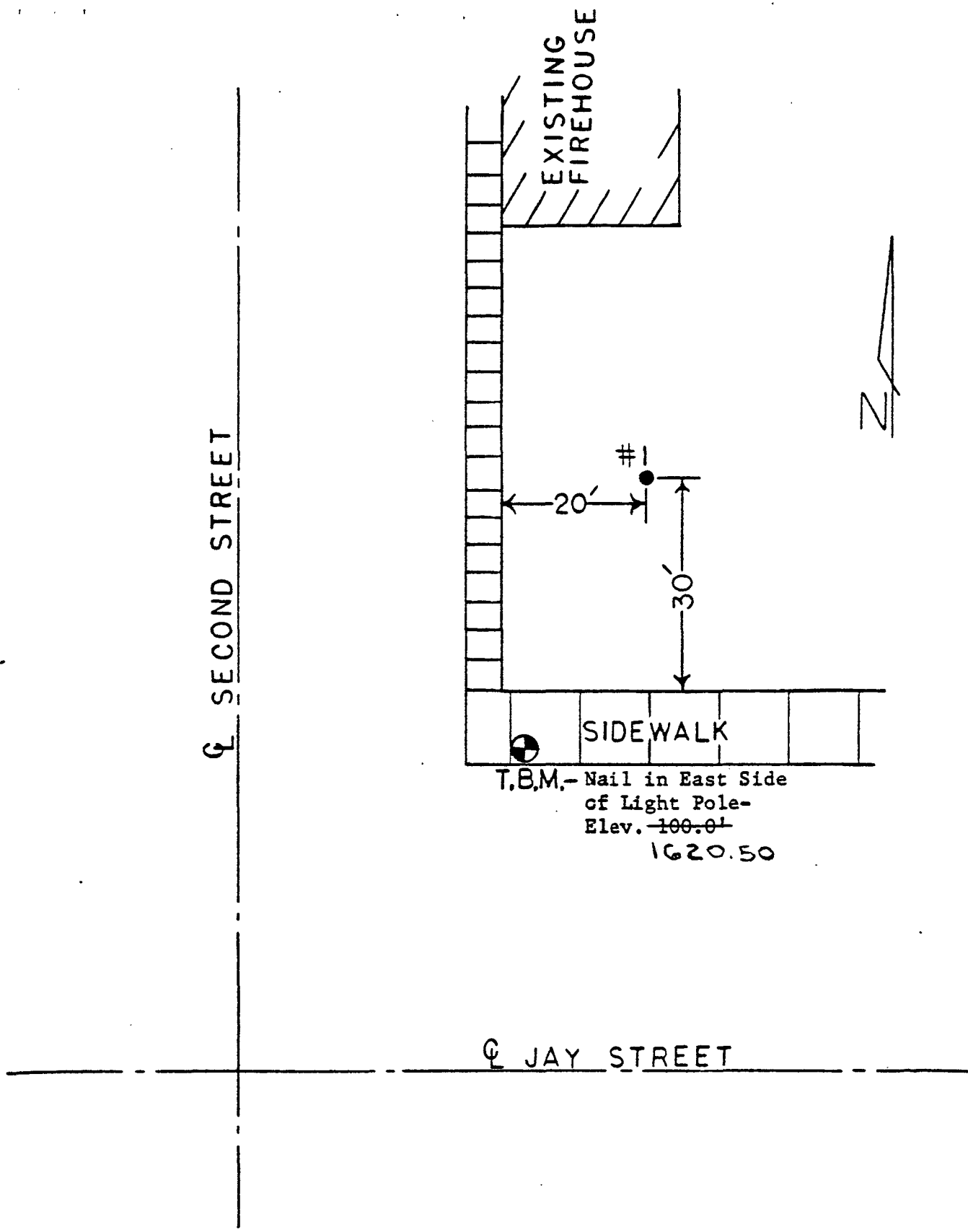
ASTM Designation: D 2487 - 69 AND D 2488 - 69

(Unified Soil Classification System)

Major divisions			Group symbols	Typical names	Classification criteria			
Coarse-grained soils More than 50% retained on No. 200 sieve*	Gravels 50% or more of coarse fraction retained on No. 4 sieve	Clean gravels	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	Classification on basis of percentage of fines Less than 5% pass No. 200 sieve GW, GP, SW, SP More than 12% pass No. 200 sieve GM, GC, SM, SC 5 to 12% pass No. 200 sieve <i>Borderline</i> classifications requiring use of dual symbols	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3		
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines		Not meeting both criteria for GW		
		Gravels with fines	GM	Silty gravels, gravel-sand-silt mixtures		Atterberg limits below "A" line or P.I. less than 4	Atterberg limits plotting in hatched area are <i>borderline</i> classifications requiring use of dual symbols	
			GC	Clayey gravels, gravel-sand-clay mixtures		Atterberg limits above "A" line with P.I. greater than 7		
	Sands More than 50% of coarse fraction passes No. 4 sieve	Clean sands	SW	Well-graded sands and gravelly sands, little or no fines		$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3		
			SP	Poorly graded sands and gravelly sands, little or no fines		Not meeting both criteria for SW		
		Sands with fines	SM	Silty sands, sand-silt mixtures		Atterberg limits below "A" line or P.I. less than 4	Atterberg limits plotting in hatched area are <i>borderline</i> classifications requiring use of dual symbols	
			SC	Clayey sands, sand-clay mixtures		Atterberg limits above "A" line with P.I. greater than 7		
	Fine-grained soils 50% or more passes No. 200 sieve*	Silts and clays Liquid limit 50% or less	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands		Plasticity Chart For classification of fine-grained soils and fine fraction of coarse-grained soils. Atterberg Limits plotting in hatched area are <i>borderline</i> classifications requiring use of dual symbols. Equation of A-line: $PI = 0.73 (LL - 20)$		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays				
OL			Organic silts and organic silty clays of low plasticity					
Silts and clays Liquid limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts					
		CH	Inorganic clays of high plasticity, fat clays					
		OH	Organic clays of medium to high plasticity					
Highly organic soils		Pt	Peat, muck and other highly organic soils					

*Based on the material passing the 3 in. (76 mm) sieve.

*Based on the material passing the 3 in. (76 mm) sieve.



SUBSURFACE INVESTIGATION
PROPOSED WASTEWATER TREATMENT FACILITIES

BRUCE, SOUTH DAKOTA

#600-863

INTRODUCTION

This report presents our findings and recommendations regarding the subsurface investigation and engineering analysis we have conducted for the proposed project. The purpose of this report is to describe the subsurface conditions encountered at the site and to analyze and evaluate those conditions relative to the proposed construction.

On the basis of the boring information and laboratory test results, we are recommending possible foundation designs and construction procedures.

Eight test borings were put down on May 25 and 26, 1976. The borings were put down at locations designated in the field by you, as shown on the attached sketches. We understand you will determine the surface elevations at borings 1 through 5. ~~The surface elevations at borings 6 through 8 in the proposed lagoon area were interpolated from the contour map of the area furnished to us by you.~~

SITE AND SOIL CONDITIONS

Site Conditions

Borings 1 through 5 were put down in existing streets in the City of Bruce.

~~Borings 6 through 8 were put down at the proposed lagoon site located 1/4 mile~~

CITY OF BRUCE

BRUCE, SOUTH DAKOTA 57220

February 4, 1982

*Settling -
Could you please
set the City of Bruce
straight? Thank you
Rob*

S.D. DEPARTMENT OF WATER
AND NATURAL RESOURCES
Joe Foss Building
Pierre, SD 57501

Gentlemen:

This letter acknowledges receipt of the report entitled
"Routine ~~Survey~~ Sanitary Survey of the Bruce Municipal Water
Supply System dated January 13, 1982 said survey having been
taken on December 15, 1981.

Recommendations--

1. The city council does not feel that the chlorination of the system is feasible at this time.
2. We know that the nitrate level is high and residents have been informed of the fact.
3. We do not understand the need for obtaining water rights as it applies to our situation. As such please inform Mr. Holter, Mayor with more information on this and send another set of application blanks if necessary.
4. Our water operator has not attended any of the training courses as ours is not a treatment system.

*La Valle Holter
Mayor
Joe Foss etc*

Sincerely,

Joan L. Nelson
Finance Officer
Box 286
Bruce, SD 57220

REC-5 100

February 9, 1982

City of Bruce
LaValle Holter, Mayor
Bruce, South Dakota 57220

Dear Mr. Holter:

Your inquiry to the Department of Water and Natural Resources as to the necessity of obtaining a water right permit for the City of Bruce, dated February 4, 1982 was referred to our Division.

The reason for obtaining a Water Permit is outlined in § 74:02:01:03.

74:02:01:03. Uses of water which require permits. Water right permits are required for all beneficial use of water except for vested rights and except for reasonable domestic use. A water permit is required for those water systems with more than one family dwelling or household unit which jointly use a common conveyor of water, or a common water source.

General Authority: SDCL 46-2-5
Law Implemented: SDCL 46-1-5, 46-1-6(4),
46-5-10, 4-6-3

Enclosed please find a set of application forms for applying for a water permit. If you have any questions or need assistance in filling out the application, please contact this office.

Sincerely,

Genny Young
Water Rights Specialist
Water Rights Division
Phone: (605) 773-3352

Enclosure

cc: [illegible]

WATER RIGHTS DIVISION
Phone (605) 773-3352

March 8, 1983

City of Bruce
LaValle Holter, Mayor
Bruce, South Dakota 57220

Dear Mr. Holter:

On February 9, 1982, as requested by your finance officer, you were notified of the necessity of obtaining a water right permit for the City of Bruce. Application forms were forwarded to your office, but to date, nothing has been heard from you on this matter.

Enclosed please find an additional set of application forms. If you have any questions or need assistance in filling out the application, please advise.

Sincerely,

Genny Young
Water Rights Specialist

GY:ms
Enc.

March 14, 1983

City of Bruce
Box 286
Bruce, SD 57220

Dear Sir:

Your application dated March 10, 1983 for a permit to appropriate water for municipal use was received March 11, 1983.

A map is required to be submitted with your application. The map must show the point of diversion. Our suggestion is that you use aerial photos which can be obtained from the ASC office. The location of the well or wells must be clearly delineated. The map must be signed by a licensed land surveyor or a South Dakota Registered professional engineer or by a governmental employee who prepares such maps as a regular part of his governmental employment.

On the map, state in rods or feet from the Section line ~~and exact~~ location of the point of diversion.

Statutes require we charge \$150 for your application. Also, please complete the application where indicated in red.

An application must have a copy of the signed well driller log for the well before the application can be advertised. If the log is not available the estimate of the depth of the well, proposed construction of the well and formations encountered based on available geologic formation shall accompany the application.

To maintain your priority date on your application for Permit to appropriate Water, in accordance with SDCL 46-5-16, you will now have 60 days from the date of this letter to correct your application and have the above information submitted to this office.

If you have any questions, please contact this office.

Sincerely,

BETTY WESTLUND
Water Rights Specialist

bw
Encl: as stated



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
(605) 773-3352

March 29, 1983

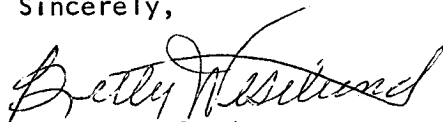
Jean H. Nelson
City of Bruce
Box 286
Bruce, South Dakota 57220



Dear Ms. Nelson:

Enclosed please find your check No. 9358 in the amount of \$150.00. This fee was originally requested because at the time the application was returned for completion the amount of water being used was unknown. With the new law change the 0.03 cfs of water being requested only requires a \$50.00 filing fee. Please resubmit the amount of \$50.00 before May 30, 1983 so your application can be brought before the Board at their July meeting.

Sincerely,


Betty Westlund
Water Rights Specialist

BW:ms
Enc.

*This government bureaucracy makes
a lot of extra bookwork for small
towns & is a little unnecessary
Jean H. Nelson*

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 9219

PIERRE, March 31, 1983

RECEIVED OF City of Bruce, Box 286, Bruce, SD 57220

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)	50	00
Fee for inspecting Construction, and issuing Cert. of Construction No.....		
Fee for inspecting Beneficial Use, and issuing Water License No.....		
Fee for issuing Location Certificate-Dry Draw, No.....		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for		
(any other work as provided by law)		
TOTAL	50	00

WATER RIGHTS COMMISSION

By *John Hatch*
Chief Engineer, Executive Officer
JOHN HATCH/ms

REPORT ON APPLICATION NO. 4950-3

CITY OF BRUCE

April 21, 1983

The City of Bruce has applied for a water permit on an existing well withdrawing 0.27 cfs from the Big Sioux Aquifer; Brookings management unit. The water will be used for municipal use.

The Big Sioux Aquifer is under water-table conditions. A review of observation well records show seasonal fluctuations and with average precipitation the aquifer is essentially full every spring.

The well is approximately $\frac{1}{2}$ mile from the Sioux River and approximately $\frac{1}{2}$ mile from existing high capacity wells.

Considering the spacing from the river and other permits and observation well records there should be no adverse affects on the aquifer or prior rights.

The staff recommends approval of application No. 4950-3.

A handwritten signature in cursive script, reading "Gale N. Selken".

GALE N. SELKEN P.E.
Hydrologist

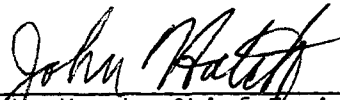
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT APPLICATION
No. 4950-3, City of Bruce, SD.

Pursuant to Section 4, House Bill 1002, 1983 Legislature, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 4950-3, City of Bruce, South Dakota.

The Chief Engineer is recommending APPROVAL of Application No. 4950-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) that the proposed diversion can be developed without unlawful impairment of existing rights, 3) that the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in wells having prior water rights.

The attached report is a part of this recommendation.



John Hatch, Chief Engineer
Water Rights Division
April 21, 1983

4956-3

4

21

4

4

5



4

03

5

7

6.1

in

1

15

—

1

—

100

1000

G

١٢٢

OTE: 7-OR5-HIDDEN

DATE

[illegible]

Instructions to Newspaper - Publish first publication of following Notice on or before
April 27, 1983 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE of HEARING on Application No. 4950-3 to Appropriate Water
~~and/or to Amend Water Permit or Water Right No. _____~~

Notice is hereby given that the City of Bruce whose mailing address is Box 286
Bruce, South Dakota has made an application pursuant to the provisions of
 SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-14, Section 13 of HB 1001 enacted by 1983 Legis-
 lature; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, Section 32 of HB 1001; 46-5-1 thru 46-5-8, 46-5-10,
 thru 46-5-16, 46-5-24, 46-5-25, 46-5-31, Sections 38, 47, 59 & 67 of HB 1001, Sections 1, 4,
 5, 6, 11, 12, 13, 16, 18, 19 & 21 of HB 1002; ~~(ground)~~ 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10,
 46-6-13, 46-6-14; ~~(future use)~~ 46-5-38 thru 46-5-40, Section 71 of HB 1001; ~~(transfer lands)~~
~~46-5-33 thru 46-5-35, (10,000 AFA) 46-5-20.1, 46-5-8.1, and Board Rules ARSD 74:02:01:01~~
~~thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:26, (10,000 AFA) 74:02:01:15:02~~
~~thru 74:02:01:15:05;~~ (several of the preceeding SDCL Sections are amended by HB 1001 & 1002
 of 1983 Legislature) for a permit to appropriate 0.27 cubic feet per second from groundwater
 (one well 35 feet deep) through the Bruce City Municipal Well, the point of diversion is
 located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 12, T11N, R51W. Said water to be used for the purpose
 of providing water supplies for municipal use.

Pursuant to Section 4 of HB 1002 the Chief Engineer of the Water Rights Division recommends
 approval of Application No. 4950-3 because 1) unappropriated water is available, 2) will
 be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in
 public interest

This application will be considered by the Water Management Board at Federal Bldg, Room 301
200 4th St SW, Huron, South Dakota upon the 9th day of June, 1983 at ~~10:00 am.~~
1:30 pm

The recommendation of the Chief Engineer is not final or binding upon the Board and the
 Board is authorized to make a determination on this application after it reaches a con-
 clusion based upon facts presented at the public hearing. Any interested person who may
 be affected by a Board decision and who intends to participate in the hearing before the
 Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a
 written petition with the Chief Engineer and the Applicant by May 30, 1983.
 The petition may be informal, but it must include a statement describing the petitioners
 interest in the application, the reason for the petitioner's opposition to or support of
 the application, and the signature and mailing address of the petitioner or his legal counsel
 if legal counsel is obtained. The applicant need not file a petition. The time of the
 hearing will be automatically extended for at least twenty days upon written request of the
 applicant or any person who has filed a petition to oppose or support the application. The
 request for extension must be filed with the Chief Engineer by May 30, 1983.

This hearing is an adversary proceeding. The applicant or any person, after filing a
 petition, has the right to be present or to be represented by a lawyer. These and other
 due process rights will be forfeited if they are not exercised. Decisions of the Board
 may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on
 this application or to assure access to the hearing by the handicapped can contact the
 Water Right Division, DWNRR, Joe Foss Bldg., Pierre SD (605 773-3352) for assistance
 prior to the hearing date.

Affidavit of Publication

Exhibit "A"

State of South Dakota

County of Brookings

ss

Douglas Anstaett

of said county being

duly sworn, on oath, says: That he is one of the editors of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that he has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year next prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed in the office maintained at said place of publication; and that the

Legal No. 245

99 lines x .339

a printed copy of which, taken from the paper in which the same was published, is hereto attached marked Exhibit "A," and is made a part

of this affidavit, was published in said newspaper for Two

successive week s., to-wit:

April 27, 1983

May 4, 1983

, 19...

, 19...

That the full amount of the fee charged for the publication of said Exhibit "A" inures to the sole benefit of the publishers of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever; that the fees charged for the publication thereof are:

Thirty-three dollars and fifty-six cents

Dollars

Douglas Anstaett

Subscribed and sworn to before me this 4th day of

May, 1983

E. Ray James

Notary Public in and for the County of Brookings, South Dakota.

My Commission expires September 6, 1985

NOTICE OF HEARING
on Application No. 4950-3
to Appropriate Water

Notice is hereby given that the City of Bruce whose mailing address is Box 286 Bruce, South Dakota has made an application pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-14, Section 13 of HB 1001 enacted by 1983 Legislature; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, Section 32 of HB 1001; 46-5-1 thru 46-5-8, 46-5-10, thru 46-5-16, 46-5-24, 46-5-25, 46-5-31, Sections 39, 47, 59 & 67 of HB 1001, Sections 1, 4, 5, 6, 11, 12, 13, 16, 18, 19 & 21 of HB 1002; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (several of the preceding SDCL Sections are amended by HB 1001 & 1002 of 1983 Legislature) for a permit to appropriate 0.27 cubic feet per second from groundwater (one well 35 feet deep) through the Bruce City Municipal Well, the point of diversion is located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 12, T11N, R51W. Said water to be used for the purpose of providing water supplies for municipal use.

Pursuant to Section 4 of HB 1001 the Chief Engineer of the Water Rights Division recommends approval of Application No. 4950-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in public interest.

This application will be considered by the Water Management Board at Federal Bldg., Room 301, 200 4th St. SW, Huron, South Dakota upon the 9th day of June, 1983 at 1:30 p.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with the Chief Engineer and the Applicant by May 30, 1983.

The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by May 30, 1983.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Right Division, DWNR, Joe Foss Bldg., Pierre SD (605-773-3352) for assistance prior to the hearing date.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
(605) 773-3352

4950-3

June 21, 1983

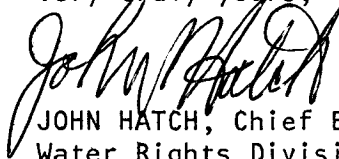
Jean H. Nelson
City of Bruce
Box 286
Bruce, South Dakota 57220

Dear Ms. Nelson:

Enclosed herewith is your Water Permit No. 4950-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 4950-3.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

WNR-809-5/83

Water District

Report Of Examination Of Works And/Or Application Of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, DWNR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by City of Bruce
(Box 286) of _____ holder of
Permit No. 4950-3, bearing the priority of March 11 1983 authorizing
the diversion of 0.27 cu. ft. per second of the waters of groundwater (Big Sioux-Brookings)
for municipal purposes, in Brookings County.

I have to report on the conditions of the same as follows:

- A. Works used to divert the water: 32 Foot well, 12 inch steel casing, 8FT x 12in. S.S. screen
4" Western Land Roller VTP Ser. # L7813 - Disch. Hd 4M
U.S. Electric Motor Frame 213TP 10 Hp ID# 68-06208-342
1428 gallon Pressure Tank
- B. Works used to transport water to place of use:
City distribution system
- C. Works used to apply water to beneficial use:

The system is in the following condition goodThe point of diversion is located SE⁴ NE⁴ section 12 T11N-R51W (1320 FT West and
1700 FT South of NE corner sec. 12)The works are capable of diverting and conveying to the place of use 0.27cu. ft. per second of water which is to be used for municipal water supplyWater has been put to beneficial use to the maximum extent as follows: as stated above~~comprising a total of _____ acres of land and~~ the license should be issued for 0.27 cfsApplicable permit qualifications have been complied with ☒ Yes ☐ NoExceptions to compliance are: _____ Date Aug. 28, 1984Kevin C. Larson
(signature)



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Division of Water Rights
605 773-3352

No. 4950-3

November 14, 1984

City of Bruce
Box 286
Bruce, South Dakota 57220

Dear Sir:

The inspection of your water use system and inspection of the extent of the application of water to beneficial use, as developed under your Water Right No. 4950-3 has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuing of the Water License. Upon receipt of the \$50.00 fee from you, your Water License will be sent to you.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until this \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Maxine Stirling
Staff Assistant

ms/

NOTE: On form of payment, please include the number of the water permit.
This insures proper handling of the fee.

SECOND NOTICE

January 29, 1985

Permit No. 4950-3

NOTICE OF WATER LICENSE INSPECTION FEE REQUIREMENT

LaValle Holter, Mayor
City of Bruce
Box 286
Bruce, SD 57220

Dear Mr. Holter:

November 14, 1984 you were notified the final inspection fee of \$50.00 is due before Water License No. 4950-3 can be issued. As of this date, the fee has not been received.

The fee is a final step in the legal process of obtaining and perfecting a water right and is required by SDCL 46-2-13(3). Upon receipt of the \$50.00 fee, your Water License will be sent to you. This is the final document for the perfection of your Water Right. A perfected water right is similar to a property right and once a water right is perfected, it cannot be lost as long as the water is used.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the License fee has been paid. Please submit the required fee immediately to avoid jeopardizing your water permit.

Very truly yours,

John Hatch, Chief Engineer
Water Rights Division
Phone: (605) 773-3352

SS08.WR

RECEIPT

Division of Water Rights

No 4 9923

South Dakota Department of Water and Natural Resources

Pierre, February 6, 1985, 19

RECEIVED OF City of Bruce, Box 286, Bruce, SD 57220

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>4950-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer JOHN HATCH/ms



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

No. 4950-3

February 7, 1985

City of Bruce
Box 286
Bruce, South Dakota 57220

Dear Sir:

Enclosed herewith is, Water License No. 4950-3. This is the final water right document completing your process of obtaining a water right.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

A handwritten signature in dark ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

Enclosures

State of South Dakota
Water License No. 4950-3

(1) City of Bruce
of Box 286, Bruce, South Dakota 57220
made Application No. 4950-3, March 11, 1983 for a water permit to appropriate
0.27 cubic feet per second of water from groundwater (one well),
Brookings County, South Dakota for municipal purposes.
Permit No. 4950-3, with a priority date of March 11, 1983
was approved June 9, 1983 and issued to applicant(s) for diversion of water with construction of the described
water supply system to be completed on or before June 9, 1988 and for the application to beneficial use of said
water on or before June 9, 1992.

and

(2) It is certified that the application has complied with the provisions of South Dakota State Law relating to completion of
the construction of the water supply system and is entitled to divert 0.27 cubic feet per second of water
for beneficial use. The location of the diversion point(s) is 1320 feet W and 1700 feet S of the
NE Corner (SE~~1~~NE~~4~~) Section 12, T111N, R51W

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to the following extent, **water is diverted through the city's distribution system.**

of Box 286, Bruce, South Dakota 57220

This license is subject to any limitations or qualifications listed in Water Permit No. 4950-3 and subject to South Dakota State Law.

JOHN HATCH

February 6, 1985

2000 South Dakota Water Use Questionnaire

To:

Address correction requested:

CITY OF BRUCE
~~ELDON EIGHTMY, PO BOX 255~~
 BRUCE SD 57220

City of Bruce,
Rinda Ribstein, Engineer
PO Box 255
Bruce, SD 57220

One questionnaire is being provided for each permitted water source. The following information is based on Water Permit/Right No. 4950-3. If you have other permits/rights in the same water source, also include water use under those permits/rights on this questionnaire.

Water Source: GROUNDWATER

County: BROOKINGS

Aquifer: BIG SIOUX

Pumping Pt. Legal: SEC 12-T111N-R51W

Management Unit: BROOKINGS

Type of Water Use: MUNICIPAL

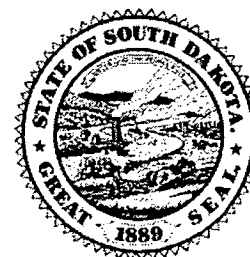
1) Please estimate your year 2000 water use from the above water source: _____ gallons

2) If no water use in 2000, please list the reason(s) why in the comments section.

Comments: Bruce is on Bkgs - Rural Water
Our old well is used only to fill fire
trucks

Contact Person: Rinda RibsteinTelephone No: 627-5323

Questions? Please call Mark Rath or Ron Duvall at 605 773-3352 for assistance.



Thank you for completing the 2000 water use questionnaire.

Water Rights on the Web: www.state.sd.us/denr/wr

