

Water Right Number 3271-3

1. Considered 1-26, 1977
2. Name of Applicant LEONARD SHEFFIELD & SONS
3. Post Office Address ALPENA
4. Amount of water claimed 510
5. Source of water supply 100' WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 160
7. Water to be diverted and used in JERARD County
about 2.5 Miles of ALPENA
8. Proc of Publication
Received 1-13-77
Not received _____
9. Application
Approved _____
Subject _____
Not approved _____
Action deferred _____
10. Remarks:

No. 3271-3Map No. 2558-3 Water Division No. 3 JAMES RIVER District _____
(Blanks to be filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE: Draw a line through items not applicable)

1. Name of Applicant Leonard Sheffield & Sons
 Postoffice address Alpena State South Dakota 57312
 If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct Labor3. Name of diversion work Leonard Sheffield & Sons - Unit #24. Amount of water claimed (cubic feet per second) 2.05. Source of water supply Ground Water6. Location of point of diversion CENTER OF NW 1/4 SECTION 27, T108N, R263WCounty Jerald7. Annual period or periods during which water is to be used March - November8. Use to be made of water (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation9. For irrigation use, Total number of acres to be irrigated 160

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.
NW 1/4 of 27-108-63	160		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 2 years.11. Choice of newspaper for Notice of Intent to Appropriately Water publication Alpena Journal, Alpena, So. Dak.

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Pump Bowl

B. Works proposed to transport water to place of use.

Main Line

C. Works proposed to apply water to beneficial use

Center Pivot

Estimated Total Cost \$ -----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 Jerald) ss.I, Leonard Sheffield & Sons 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 constructionSigned Leonard Sheffield & SonsSubscribed and sworn to before me this 16 day of June, 1971

Notary Public (or other qualified officer)

Commission Expires June 16, 1974

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3271-3
LEONARD SHEFFIELD & SONS ALPENA
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57312 With the following modifications:
 (State)

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

Date of first receipt of application OCTOBER 22, 19 76
 Date of return to applicant for correction, amendments or changes required _____, 19 ____
 Date of receipt of corrected application NOVEMBER 3, 19 76
 Approved JANUARY 27, 19 77, Recorded in Book 17 Page 71

WATER RIGHT PERMIT NO 3271-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3271-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is OCTOBER 22, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 27, 19 79
3. The whole of said work is to be completed on or before JANUARY 27, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 27, 19 84
5. The water appropriated shall be used for the purpose of IRRIGATION
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 2.0 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 the irrigation purposes said appropriation must be limited to not more than 3 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 JANUARY 27, 19 84; said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 17th day of APRIL, 19 77

WATER RIGHTS COMMISSION

By

John Hatch
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

PAGE NO.

19

Steve Kuehl

JOB NAME

LOCATION

DATE _____

RIG NO.

FOREMAN

[illegible]

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

12 Principal Features of the Proposed Water Supply System (continue)

D. Well Information or Estimates

(1) Drill Hole, Diameter _____, Depth _____

(2) Casing, Type _____ Diameter _____ Thickness _____
(wood, concrete, steel, etc)

(3) Perforated 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.

*Log will be provided by driller

(1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property 160 rds. On property owned by others 320 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, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

James S. Hoffert
Signature of Applicant

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)

NAME Leonard Sheffield & Sons

ADDRESS Alpena, South Dakota 57312

COUNTY Jerald

LEGAL DESCRIPTION

1. WELL LOCATION Center of the NW $\frac{1}{4}$ of 27-108-63
2. LOCATION OF AREA TO BE IRRIGATED NW $\frac{1}{4}$ of 27-108-63

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUT _____
4. CROPS TO BE IRRIGATED Corn, Alfalfa, Small Grain

WATER QUALITY

5. SAMPLE NUMBER 76-1695
6. SALINITY (EC X 10⁶) 13.45 (high)
7. SODIUM (SAR) 8.24 (medium)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 1.16

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and:
the soils information has been acquired from Jerald Conservation District,
County Extension office or Soil Conservation Service.

and:

that the legal description for the location of the well and land to be irrigated is true and correct.

SUBSCRIBED AND SWORN BEFORE ME THIS
16 DAY OF October 1976.

Donna D. Oakes
(TITLE OR SEAL)

(SOILS INFORMATION ON REVERSE SIDE)

Leonard Sheffield & Sons
APPLICANT'S SIGNATURE

Approval does not imply that this project can be carried out successfully in all circumstances. Individual management will, to a large degree, determine the relative success of this venture.

Albert J. Griffith
APPROVED/DISAPPROVED

REPORT OF ANALYSIS
Water Quality Laboratory
Water Resources Research Institute
South Dakota State University
Brookings, South Dakota 57006

Submitted by: Leonard Chaffield & Sons
 Address: 126th, SD 57312
co: Huron Milling, Inc.
P.O. Box 1422
Huron, SD 57350

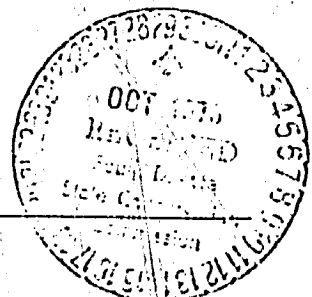
Date Rec'd: October 22, 1976
 Sample No.: 7641695
 Identification: 1 211-
100, Dec. 22, T 1000, R 63

WATER ANALYSIS

Calcium (Ca)	107	ppm*	5.35	mc/l**
Magnesium (Mg)	26	ppm	2.13	mc/l
Sodium (Na)	136	ppm	8.09	mc/l
Potassium (K)	14	ppm	0.36	mc/l
Sulfate (SO ₄)	300	ppm	6.24	mc/l
Nitrate (as N)		ppm		mc/l
Chloride (Cl)	20	ppm	0.56	mc/l
Bicarbonate (HCO ₃)	527	ppm	8.64	mc/l
Carbonate (CO ₃)		ppm		mc/l
Iron (Fe)		ppm		mc/l
Fluoride (F)		ppm		mc/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	432	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1348	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	8.34			
Sodium	50.78	% of cations		
Residual sodium carbonate	1.16	mc/l		
pH	7.59			
Others:				

*ppm=parts per million
 **mc/l=millequivalents per liter
 ***g.p.g.=grains per gallon

COMMENTS: Total cations 15.93 mc/l
 Total anions 15.44 mc/l



By: Shirley Litten

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

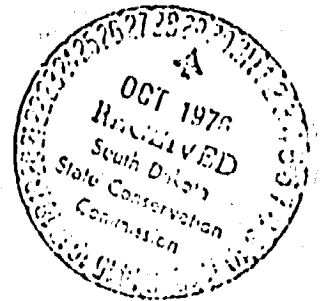
Cut along dotted line and return the lower portion with payment:

Sample No. 76-1695

Amount Enclosed \$

Signed

October 28, 1976



Mr. Leonard Sheffield & Sons
Alpena, SD 57312

Dear Mr. Sheffield:

Your water sample (Lab. No. 76-1695) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

This water is marginal for use on the soils you intend to irrigate and should be considered for use only under the following conditions:

(1) It will be used no more than 3 times (preferably less) in any growing season.

(2) The soil will be completely filled with water so natural leaching can occur, by irrigating in the late fall just before freeze-up, at least one year out of 3.

(3) Water applications will be made each irrigation to completely re-wet the entire depleted soil within the rooting zone of the crop being grown. This may require 3-5 inches of water each irrigation with fine soils.

(4) If a salt problem or soil dispersion occurs, contact extension personnel or this office for management recommendations.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures
cc: State Conservation Commission

Form 6 - Notice of Intent to Appropriate Water

No. 3271-3

Publish first publication, on or before January 11, 19 77

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

December 21, 19 76

Notice is hereby given that Leonard Sheffield & Sons
whose post office address is Pierre, South Dakota, has made an application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
20 cubic feet of water per second of time from the ground water through the
Sheffield # 1, the point of diversion of which is to be located in the

Center of the NW 1/4

of Section 27, Twp. 108N, Range 63W. Said water to be used for the purpose
of providing irrigation on portions of the following described land:

NW 1/4, Section 27-108N-R63W

This application No. 3271-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 26th day of January, 19 77, at 10:00 A. .M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw
cc:

Leonard Sheffield & Sons, Alpena, South Dakota 57312

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. 3271-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County Jerauld) ss.

I, A. L. Webb hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Alpena Journal

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the

city of Missington Springs

County of Jerauld and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

5th January 1977
12th January 1977

A. L. Webb
(Signature)

publisher
(Title)

1-12-77
(Date Signed)

NOTICE
INTENT TO APPROPRIATE
WATER

Pierre, S. Dak. 57501
December 21, 1976

Notice is hereby given that
Leonard Sheffield & Sons
whose post office address is
Alpena, South Dakota, has
made an application in accord-
ance with the provisions of the
water laws of South Dakota for
a permit to appropriate for
beneficial use 2.0 cubic feet of
water per second of time from
ground water through the
Sheffield #1, the point of
diversion of which is to be
located in the Center of the
NW 1/4 of Section 27, Twp.
108N, Range 63W. Said water
to be used for the purpose of
providing irrigation on por-
tions of the following de-
scribed land:

NW 1/4, Section 27, T108N-
R63W.

This application No. 3271-3
will be considered by the
Water Rights Commission at
their office at Pierre upon the
28th day of January, 1977, at
10:00 a.m. All interested per-
sons may appear and be heard.
—Water Rights Commission.
By: —BURTON F. JONES,
Water Rights Specialist, c-15-16



Form 10.

No. 3271-3A and 2558-3

NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE



Post Office Alpena

Date 7/6/79

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 3271-3A and 2558-3

Water Right Permit No. 3271-3A and 2558-3 states that the diversion system is to be constructed by April, 1979 and that the water is to be put to beneficial use by April, 1979.

The diversion system was completed on May, 1976.
Applying the water to beneficial use was completed on May, 1976.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Robert H. Hill, Jr.
(Signature)

No. 3271-3A
3271-3

SOUTH DAKOTA
Department of
Water & Natural Resources

Joe Foss Building Water Rights Division
Pierre, South Dakota 57501 (605) 773-3352

July 26, 1982

Leonard Sheffield & Sons
Alpena, South Dakota 57312

Gentlemen:

Enclosed herewith are, Water License No. 3271-3A and Certificate of Construction.

Water License No. 3271-3A 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,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

enclosures

The applicable portions of Permit No. 3271-3 have been incorporated into this Water License.

NOT TO SCALE



*James
Water Rights Commission*

108-6 2558-3
MAP NOS. 3602-3 APR. 3271-3A

NOT TO SCALE



HURON DRILLING INC.
WELL LOCATION MAP

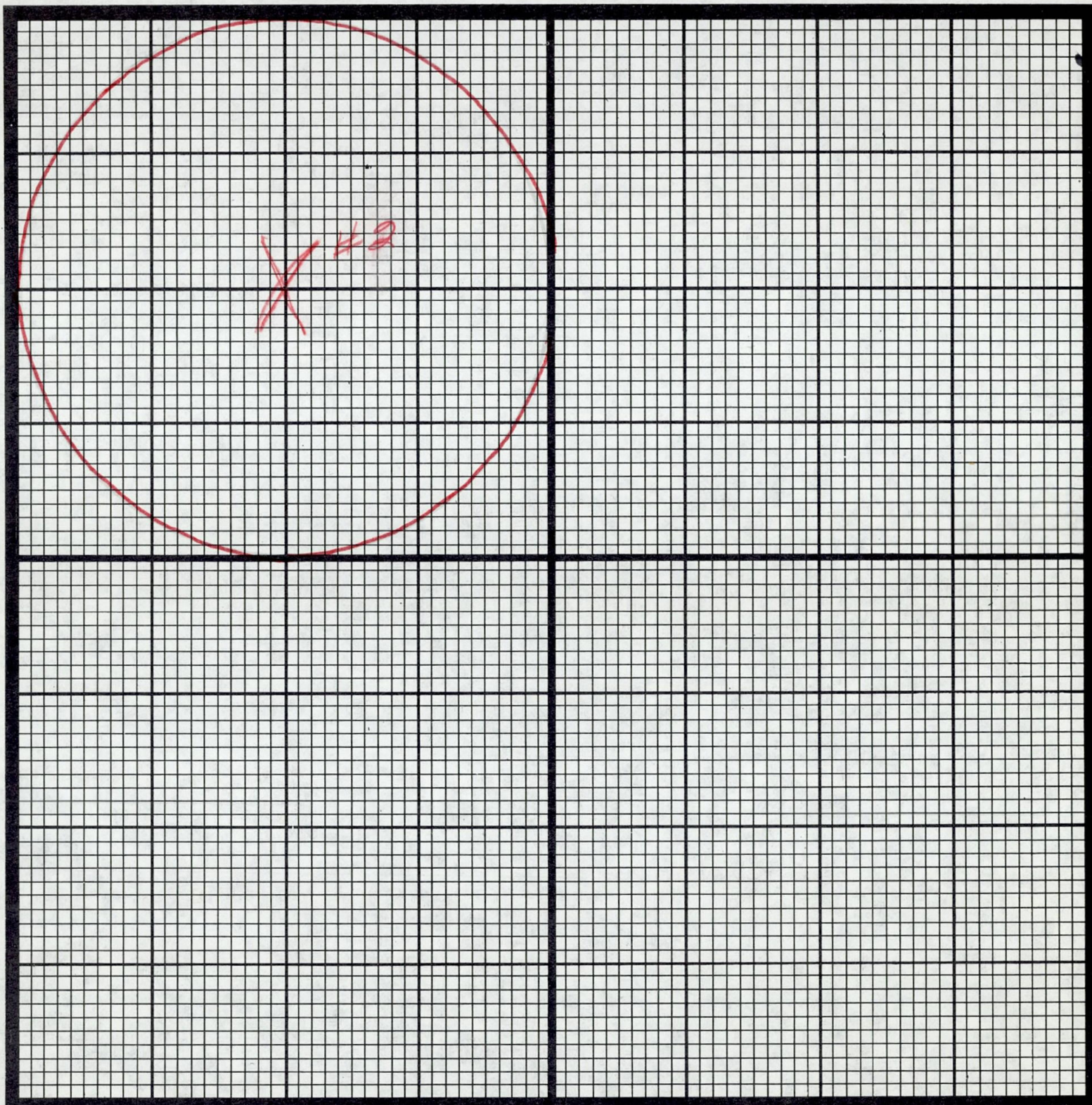
NAME Leonard Sheffield & Sons

DATE October 16 1976

WELL NO. #1

NW QUARTER, SECTION 27

TWP. 108 RANGE 63 IN Jerauld COUNTY



Prepared By Dick Fadgen

X — PROPOSED LOCATION

Dick Fadgen
Beadle County Extension Agent

MAP NO 2558-3 APPR NO 3271-3