

Considered: _____

WATER PERMIT NO. 5281-3

HAP No. Same 336-31

Name of Applicant Amoco Corporation

Post Office Address 3721 S. Grange Ave, Sioux Falls, SD 57105

Amount of Water Claimed 80 gpm (0.17 cfs) Total Acres NA

Source of Water Supply groundwater - recovery well

Water to be used for groundwater remediation County Minnehaha

About _____ miles S. side of Sioux Falls

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received Jan. 25, 1989 Fee \$225⁰⁰ Remarks _____

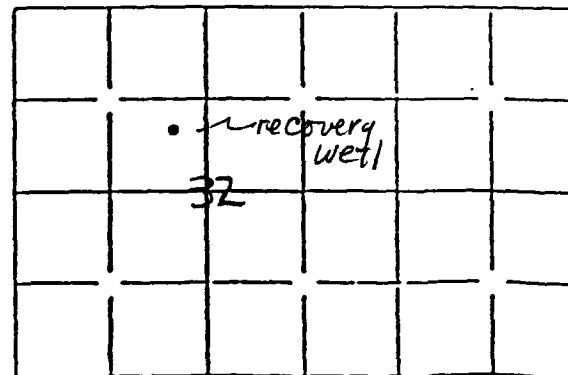
Corrected Application Received February 13, 1989 Period of Annual Use Jan 1 - Dec 31

WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point SE 1/4 NW 1/4 Section 32, T10N, R49W

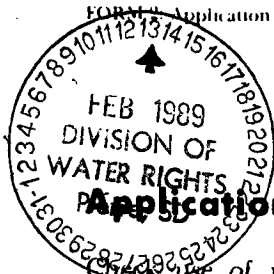
Land to be Irrigated NA



Well Log: Driller Sioux Well Drilling Licensed YES X NO _____

Depth of Well 40' REMARKS recovery

Type of Map topo PREPARED BY Bruce W. Card Reviewed and the Number assigned on February 13, 1989 By Susan A. Bourne



Application for uses other than irrigation (type or print)

No. 5281-3 Hydrologic Unit 10170203
 Map No. same Basin Big Sioux
 Newspaper Argus Leader Box 5034 SE, SD 57117
also legal dept

Mail to: Water Rights Div. 40
 523 E. Capitol
 Pierre, SD 57501
 (605) 773-3352

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use of water: Industrial ☐ Commercial ☐ Municipal ☐ Other Common Distribution System ☐
 Rural Water System ☐ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☒



Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐
☐ Amend Permit No. _____ with old priority date retained
 Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____
☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____
☐ Construction to use water reserved by Future Use Permit No. _____

1. Name of Applicant Amoco Corporation Phone No. 605/336-3158
 Post Office Address 3721 S. Grange Avenue, Sioux Falls, State SD 57105
(Street, RR or Box) (City) Zip Code
 2. Amount of water claimed (c.f.s.) 80 gpm (0.17 cfs)
 3. Source of water supply Big Sioux Aquifer R49W
 4. Location of point of diversion SE 1/4, NW 1/4, Section 32, T101N, R49W

County Minnehaha

5. Counties where water will be used N/A
 6. Annual period during which water is to be used January 1 to December 31
The well will be pumped continuously throughout the year.
 7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
The well(recovery well) will be used in the groundwater remediation at the site. Hydrocarbon contaminated water will be withdrawn from the bottom of the well and discharged into the Sioux Falls Municipal Sewer System. This remediation is being done at the request of the South Dakota Department of Water and Natural Resources.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)
 STATE OF SOUTH DAKOTA
 County of Minnehaha ss

I, RICHARD B. FITZGERALD the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Signed Richard B. Fitzgerald
24th day of January 19 89
Lori Pins
 Notary Public

LORI PINS
 NOTARY PUBLIC
 SOUTH DAKOTA
 My Commission Expires 4-26-91

**SOUTH DAKOTA
WATER PERMIT No. 5281-3**

Date of first receipt of application January 25, 1989.

Date of return to applicant for required corrections, amendments or changes February 2, 1989.

Date of receipt of corrected application February 13, 1989.

The Water Management Board approved Water Permit Application No. 5281-3 on May 10, 1989 for Amoco Corporation, c/o Richard B. Fitzgerald, 3721 S. Grange Avenue, Sioux Falls, SD 57105 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5281-3 appropriates 0.17 cubic feet of water per second from one well (Big Sioux South Aquifer) 40 feet deep located in the SE1/4 NW1/4 Section 32, T101N, R49W.
2. The water appropriated shall be used for the purpose of groundwater remediation and may not exceed the amount of water needed for beneficial use for industrial purposes.
3. The water is to be used during the following described annual period: January 1 to December 31.
4. The date from which applicant may claim right is January 25, 1989.
5. One-fifth of the construction is to be completed on or before November 10, 1991.
6. All construction is to be completed on or before May 10, 1994.
7. Water is to be put to beneficial use on or before May 10, 1998.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

- 1) Approval of Permit No. 5281-3 grant approval of a well construction variance to Board Rules 74:02:04:28.
- 2) 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 adequate wells having prior water rights.

WATER MANAGEMENT BOARD

By: _____

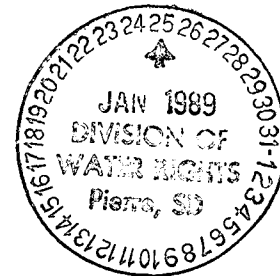
John H. H. H.
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

JUN 13 1989

(date)

Supplemental information

(type or print in ink)



1. Well Information - Proposed construction

- Drill Hole Diameter 17" Depth 40'
- Casing Type Black Steel Diameter 12" Thickness 3/8"
- Screen Type Galvanized (v-slot) Diameter 12" Thickness 3/8"
- Gravel Pack Thickness 8" Length of Gravel Pack 32'
- Depth to Top of Water Bearing Material 7'
- Depth to Water (ground surface to water level) 12'
- Distance to nearest existing domestic well:

On applicants property 400 feet (this well presently not in use) On property owned by others Approximately 2½ miles

2. Dugout Information Estimates

- Surface Dimensions _____ Depth _____
- Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- If a private engineering firm or government agency was involved in the design of this dam please give their name and address

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

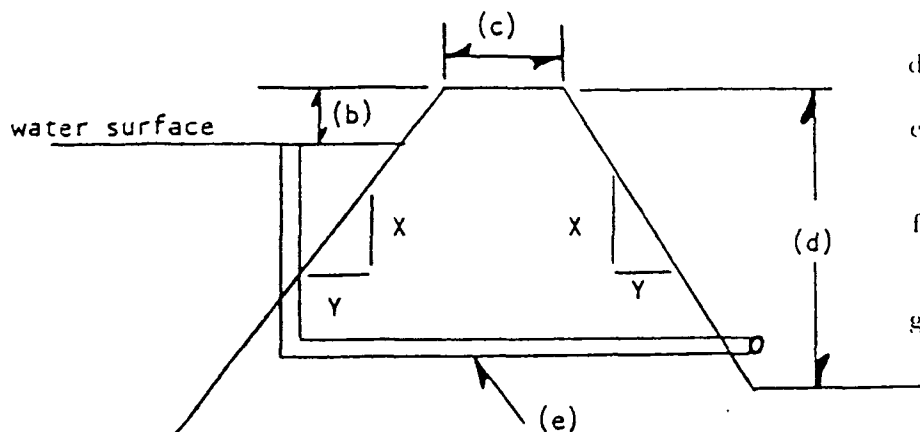
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Rudman B. H. H. H.
Signature of Applicant



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 2, 1989

Richard B. Fitzgerald
Amoco Corporation
3721 S. Grange Avenue
Sioux Falls, SD 57105

Dear Mr. Fitzgerald:

This is in response to the water permit application received from you on January 25, 1989.

The permit application is incomplete for the following reason(s):

- (1) The legal location of the well needs to be clarified. The location indicated on the well log submitted is the SW 1/4 NE 1/4 Section 32, T101N, R50W. The location indicated on the application is the NW 1/4 SE 1/4 Section 32, T101N, R50W. The location indicated on the map is the SE 1/4 NW 1/4 Section 32, T101N, R49W.
- (2) The enclosed topographic map showing the location of the well needs to be signed by either a South Dakota Registered Professional Engineer, a South Dakota Licensed Land Surveyor, or by a government employee who normally prepares maps as part of his duties. A government section corner or quarter-corner needs to be marked on the second enclosed map showing the location of the recovery well and the monitoring wells.

The Water Management Board cannot consider a water permit application until it is complete. Please indicate the correct location of the recovery well and make any changes necessary on the application form and/or maps, and return it along with a signed map showing the location of the well with respect to a government section corner or quarter corner to begin processing of your water permit application.

Please contact us if you have any questions.

Sincerely,

Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605) 773-3352

enclosure

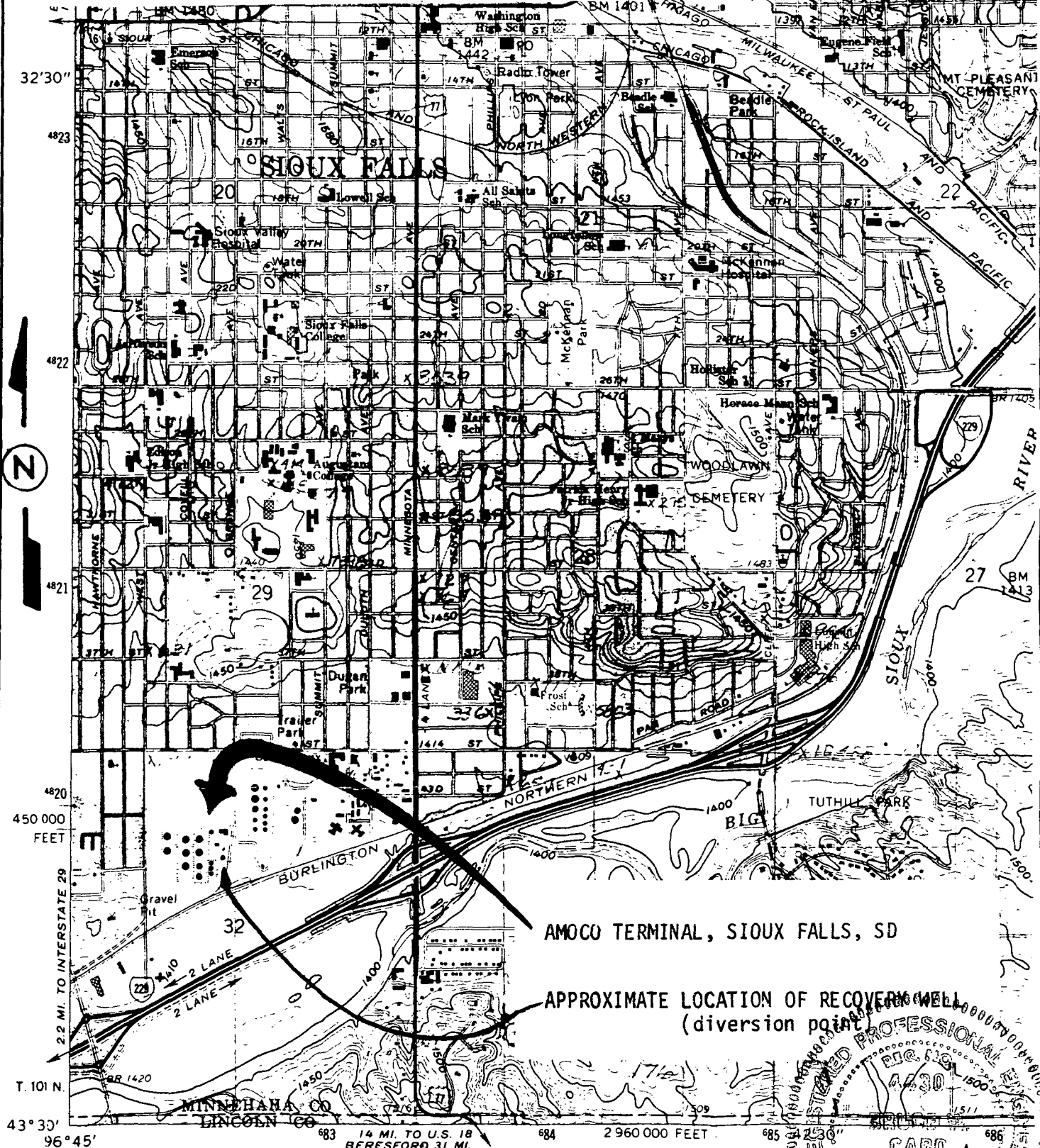


FEB 1989
DIVISION OF
WATER RIGHTS
Pierre, SD

AMOCO TERMINAL
3721 SOUTH GRANGE AVENUE
SIOUX FALLS, SOUTH DAKOTA
#6600 89-0035

JAN 1989
DIVISION OF
WATER RIGHTS
Pierre, SD

LEGAL LOCATION: SE 1/4, NW 1/4, Section 32, T101N, R50W



Mapped, edited, and published by the Geological Survey

twin city testing corporation

PROFESSIONAL ENGINEER
4430
GARD
Burr M. Carl
SOUTH DAKOTA

SOUTH DAKOTA WATER WELL COMPLETION REPORT

1/4 NE 1/4 Sec 32 Twp 101 N Rg 41 W

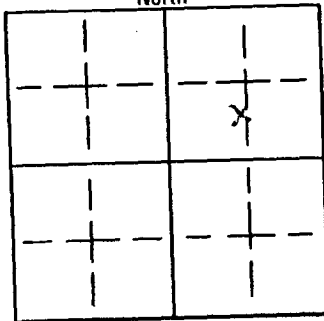
North

W

E

1 mile

Please mark well location with an "X"

Well Completion Date June 88

PROPOSED USE:

- ☐ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☒ Industrial ☐ Stock

Method of Drilling:

Forward rotary

CASING DATA:

- ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>47.56</u> LB/FT	<u>12</u> IN	<u>0</u> FT	<u>10</u> FT	<u>17</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 0 to 8 FEETWhat is grouting material? bentonite + cementIf cement, number of sacks? 7Describe grouting procedure gravity feed with tremmie pipe

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 30 FEETMaterial Armco ironSlot Size .030 Set From 10' Feet To 40 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☐ YES ☒ NO

Explain _____

Bacteriological analysis ☐ YES ☐ NO

Laboratory sent to _____

Well Owner:

Name

Amoco Oil Co

Address

1313 W 44th Ave

Well Log:

Depth

Formation

From

To

top soil02clay27sand F-M712sand M1236sand M=C3640STATIC WATER LEVEL 10-6 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface

12-4 ft. After 8 Hrs. pumped 150 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

product recovery wellThis well was drilled under license # 129

And this report is true and accurate.

Drilling firm

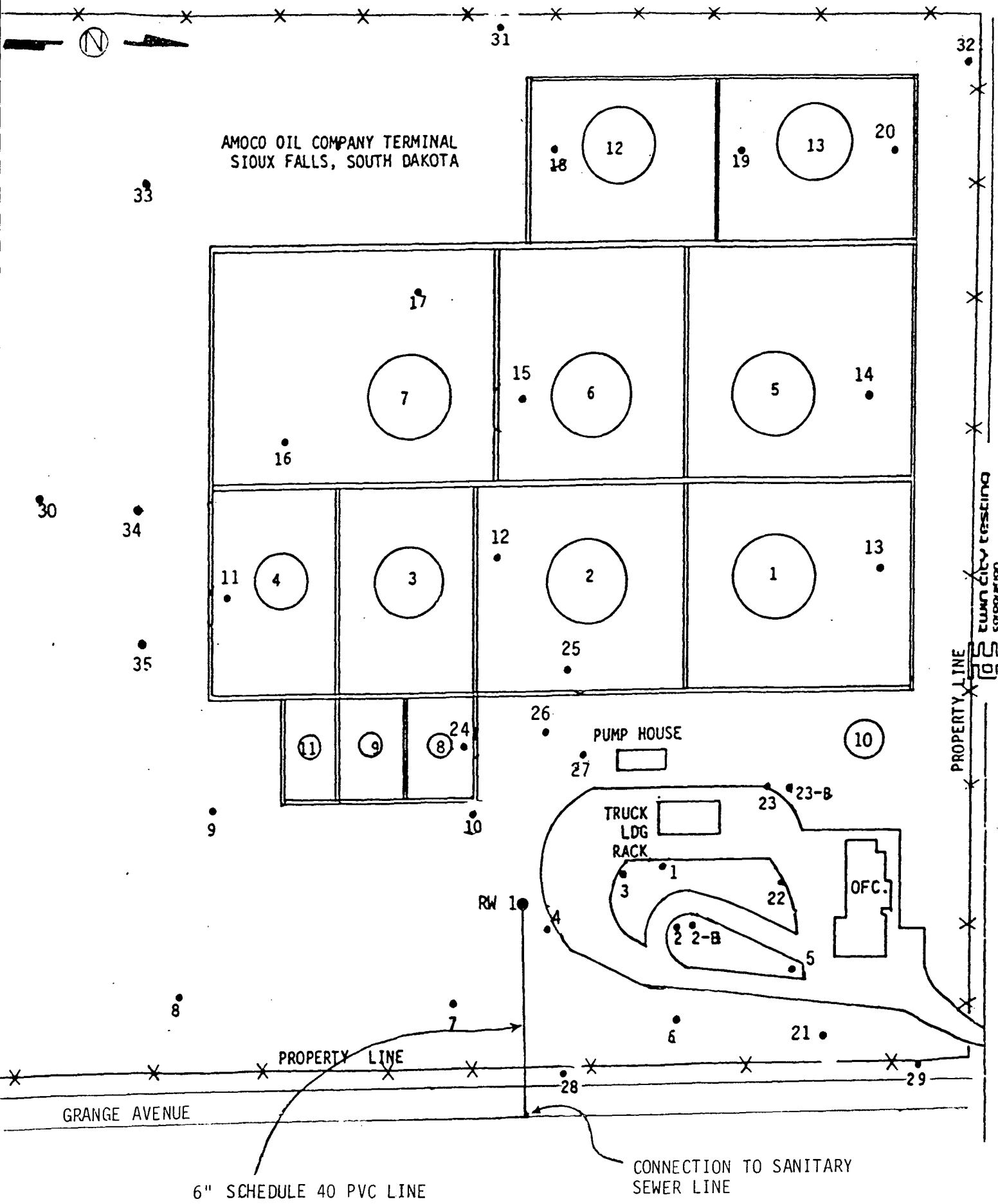
Drone Well Drilling

Signature of License Representative:

Wayne H. Wagner

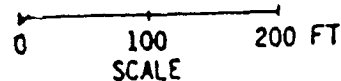
Signature of Well Owner:

Date



- MONITORING WELL
- RW = RECOVERY WELL

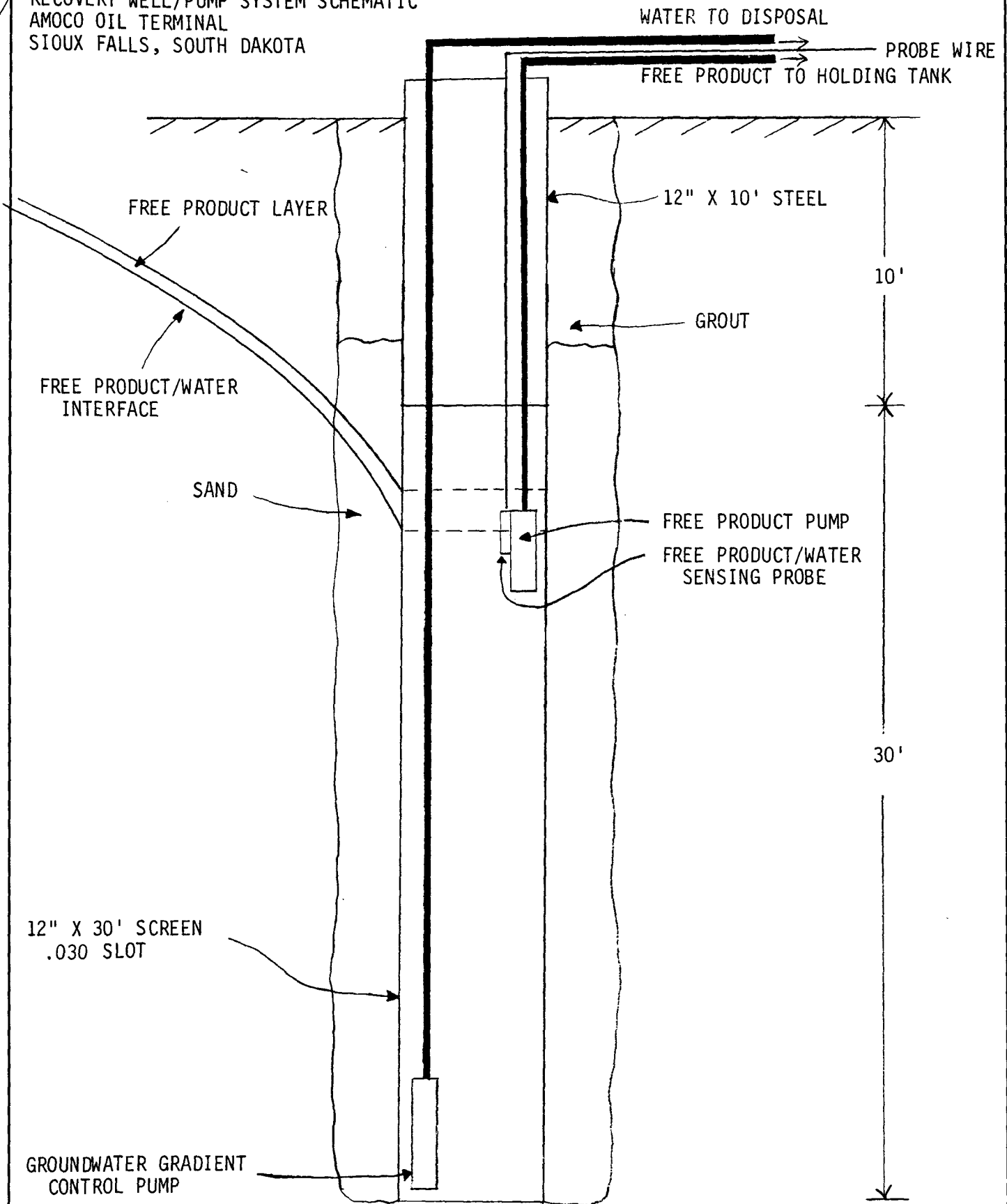
Reviewed by: Bruce W. Card
 Bruce W. Card, PE





twin city testing
corporation

RECOVERY WELL/PUMP SYSTEM SCHEMATIC
AMOCO OIL TERMINAL
SIOUX FALLS, SOUTH DAKOTA



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411607

Pierre, January 25, 1, 1989

RECEIVED OF Amoco Oil Company, 3721 S Grange Ave., Sioux Falls, SD 57105

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 _____	225	00
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. _____		
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	225 00

By

John H. Litch / msa
Chief Engineer

Report on Application No. 5281-3
Amoco Corporation
March 23, 1989

This application proposes to appropriate 0.17 cfs from one well 40 feet deep located in the SE1/4 NE1/4 of Section 32, T101N, R49W in Minnehaha county. The well is to be used as recovery well for the purposes of groundwater remediation (Hydrocarbons).

Aquifer - Big Sioux-South (BS-S)

The Big Sioux-South is an alluvium mantled surficial outwash (sand and gravel) which is under water table conditions in this area. The Aquifer is hydraulically connected to the Big Sioux River and the Big Sioux-Southern Skunk Creek Aquifer. The well log submitted with the application indicates sand from 7 feet to 40 feet below land surface and the well was capable of pumping 150 gpm with less than 2 feet of drawdown (specific capacity of 82 gpm/ft drawdown). The static water level was 10.5 feet below land surface.

The Big Sioux-South Aquifer underlies 17,200 acres and contains an estimated 20,640 acre feet of recoverable water in storage (Hedges, 1982). In general, the water table slopes towards the south-southeast in this area. Water Rights monitors 9 observation wells completed into the Big Sioux-South Aquifer in Minnehaha County. Water levels in these wells respond seasonally to climatic changes and also show effects of wet and dry years. Pumping effects are not apparent in looking at the water level records for the BS-S Aquifer (Water Rights, 1989).

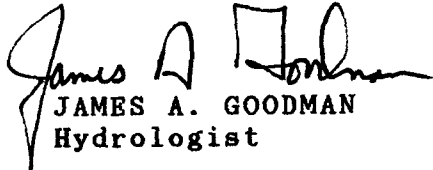
Review of Existing Water Permits

There are no existing water permits for groundwater from the BS-S Aquifer. Interference will not be a problem because drawdowns will not be significant. The well is in a prolific aquifer which is under water table conditions and drawdowns caused by pumping will not extend very far from the production well.

Conclusions

1. Water is available from the BS-S Aquifer.
2. Interference will not be a problem.
3. This is a known hydrocarbon contamination site. The purpose of pumping is to clean up the site. The BS-S Aquifer is a dependable source of good quality ground water and clean up of the site is imperative.
4. Contaminated water will be discharged into the sanitary sewer for the City of Sioux Falls.

5. This is a completed production well and the construction does not comply with SD Well Construction Standards. However, the "as built" completion would be acceptable for this site if a variance had been requested.


JAMES A. GOODMAN
Hydrologist

Bibliography

Hedges, L.S., 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD 57069.

Water Rights, 1989, Observation Well Records for the BS-S Aquifer in Minnehaha County, SD DWR, Division of Water Rights, Joe Foss Bldg, Pierre, SD 57501.

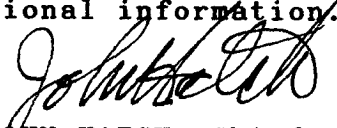
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5281-3, Amoco Corporation

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5281-3, Amoco Corporation, 3721 South Grange Avenue, Sioux Falls SD.

The Chief Engineer is recommending APPROVAL of Application No. 5281-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. Approval of Permit No. 5281-3 grants approval of a well construction variance to Board Rules 74:02:04:28.
2. 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 adequate wells having prior water rights.

See the attached report for additional information.


JOHN HATCH, Chief Engineer
March 24, 1989

**Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 6, 1989

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.**

Richard Fitzgerald
Amoco Corporation
3721 S. Grange Avenue
Sioux Falls, SD 57105

Dear Mr Fitzgerald:

Water Permit Application No. 5281-3 for groundwater remediation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls SD. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation will be sent to you at a later date. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Intent to Appropriate Water and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,



Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 6, 1989

Legal Department
Argus Leader
P.O. Box 5034
Sioux Falls, SD 57117

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 5281-3 to be published twice. Please publish the first notice on or before April 12, 1989 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Amoco Corporation, 3721 S. Grange Avenue, Sioux Falls, SD 57105.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE

TO: Ron Duvall
Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to
Appropriate Water by Application No. _____ which was first published in our issue
of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name _____

Newspaper _____



Instruction to Newspaper - Publish first Notice on or before April 12, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5281-3 to Appropriate Water

Notice is given that Amoco Corporation, 3721 S. Grange Ave., Sioux Falls, SD 57105 has filed an application for a water permit to appropriate 0.17 cubic feet of water per second from one well (Big Sioux South Aquifer) 40 feet deep located in the SE1/4 NW1/4 Section 32, T101N, R49W. The well is a recovery well for groundwater remediation.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5281-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board at 523 E. Capitol, Joe Foss Building, Room 216, Pierre, SD on May 10, 1989 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by April 28, 1989. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application and the signature and mailing address of the petitioner or legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by April 28, 1989.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

No. _____



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Minnehaha)

I, Mary J. Devish hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Argus Leader

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 Sioux Falls

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

Wed., April 12, 1989

Wed., April 19, 1989

Mary J. Devish
(Signature)

Controller
(Title)

4/19/89
(Date Signed)

Cost of Printing: \$72.53

NOTICE OF HEARING
on Application No. 5281-3
to Appropriate Water

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Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5281-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board at 523 E. Capitol, Joe Foss Building, Room 216, Pierre, SD on May 10, 1989 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

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This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 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.

119 Apr. 12, 19, 1989

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 26, 1989

Richard Fitzgerald
Amoco Corporation
3721 S Grange Ave
Sioux Falls SD 57105

Dear Mr. Fitzgerald:

Enclosed is the Report and the Recommendation of the Chief Engineer for Water Permit Application No. 5281-3 which will be considered at the May 10, 1989 Water Management Board Meeting.

Sincerely,

Karen Schlaak

KAREN SCHLAAK
Senior Secretary
605 773-3352

enclosures



 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

JUN 13 1989

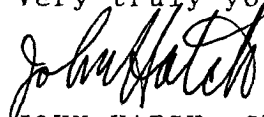
Amoco Corporation
c/o Richard B. Fitzgerald
3721 S. Grange Ave.
Sioux Falls, SD 57105

Dear Mr. Fitzgerald:

Enclosed is Water Permit No. 5281-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

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 the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures

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.



File No. 5591, 5281 and 5347-3

Water Rights Division -DENR

Conversation or File Documentation

NAME OF PERSON OR FILE: Amoco Corporation and Oil Company

ADDRESS: 3721 S. Grange Sioux Falls, SD/5001 W. 80th St. Suite

890 Minneapolis, MN 53437 COUNTY:Minnehaha

DATE:5/21/92 TELEPHONE:Diane Lickfeldt (TCT - 332-5371)

RE: Status of three Water Permits

COMMENTS:

Inspected two permits (5281-3 and 5591-3) for Amoco Corporation and one permit (5347-3) for Amoco Oil Company in Sioux Falls on May 12, 1992 with Diane Lickfeldt of Twin Cities Testing. Diane is the consulting engineer working on all three projects. All three permits are involved in water usage for remediation of hydrocarbon spills at the Amoco storage facility and an Amoco Gas Station in Sioux Falls. Sent Completion of Works forms with Diane and will await their arrival before licensing the permits.

Called Diane on 7/28/92 and asked about whether she would send Completion of Works forms. She indicated that part of the system using two of the wells (Permit Nos. 5281-3 and 5591-3) is not presently being used and that changes to the remediation systems at both the storage facility and gas station may take place in the near future. I asked her to send me a letter or give me a call if the status of the systems and/or water usage for any of the permits changes in the future.



Gregory C. Johnston

Natural Resources Engineer

DENR, Water Rights Division

File No. 5281-3

Water Rights Division -DENR

Conversation or File Documentation

NAME OF PERSON OR FILE: Amoco Corp. c/o Diane Lickfeldt TCT

ADDRESS: Sioux Falls, SD COUNTY: Minnehaha

DATE: 2/11/93

TELEPHONE: 332-5371

RE: Replacement well and temporary permit for water

COMMENTS:

Diane called and stated that the recovery well covered under Permit No 5281-3 had problems and that the screen had collapsed. Amoco Corp. is going to drill a replacement well approximately five feet from the original to the same depth as the original, but complete the well with different casing. Permit No. 5281-3 appropriates 77 gpm from a 40' deep well located in the SE1/4 NW1/4 of Section 32-T101N-R49W in Sioux Falls, SD. Diane also inquired about obtaining a temporary permit for an additional 70 gpm (0.155 cfs) from the replacement well until a permanent permit application can be brought before the Water Management Board. Diane will send a map of the location of the replacement well and Genny McMath, Water Rights Analyst, will fill out a temporary water permit application and send it to Diane immediately. In addition, I will send all the necessary application information for a permanent water permit for the additional 70 gpm.

Also, Diane asked about leaving the original well capped to be abandoned and plugged at a later date. I sent a copy of 74:02:04:70.01 Requirements for temporary abandonment of wells.



Gregory C. Johnston

Natural Resources Engineer

DENR, Water Rights Division

TWIN CITY TESTING CORPORATION
601 EAST 48TH STREET NORTH
SIOUX FALLS, SD 57104
(605)332-5371

This is a facsimile message from
Twin City Testing Corporation
Sioux Falls, South Dakota USA

Our facsimile (FAX) telephone number is: (605)332-8488

Receiving Facsimile (FAX) telephone number: 773-6035

This message is for the attention of: Greg Johnston

Company/Branch: SDDENR Water Rights

This message is from: Diane Lickfelt

Date: 2-11-93

This message includes this cover sheet and 2 additional pages.

If you receive less than this, please contact us at (605)332-5371.

SPECIAL INSTRUCTIONS/COMMENTS:

Greg,
attached is the map you requested with
regard to the temporary permit to appropriate
another 70 gpm under permit # 5281-3.
Since its hard to tell the distances on the
topo, we also included a Cadd drawing. Thanks
for your help. *Diane*

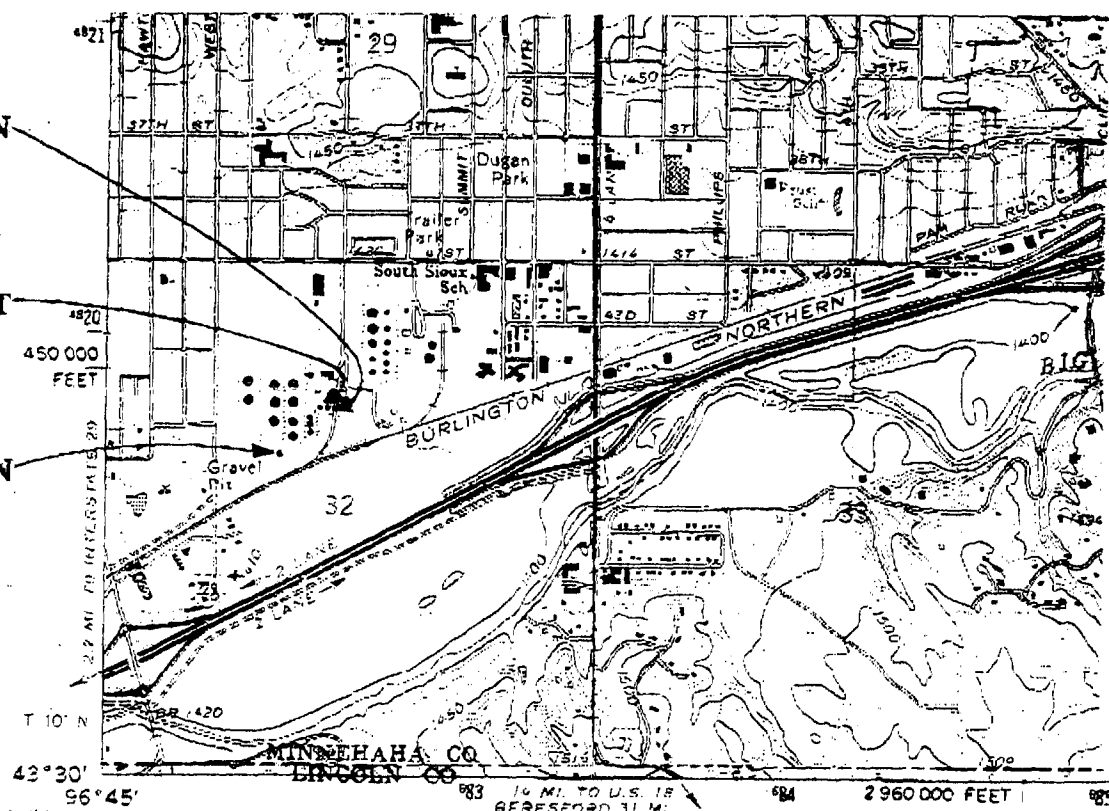
AMOCO TERMINAL
3721 SOUTH GRANGE AVENUE
SIOUX FALLS, SOUTH DAKOTA
TCT #6600 89-35

LEGAL LOCATION: SE ¼, NW ¼, Section 32, T101N, R49W

APPROXIMATE LOCATION
OR RECOVERY WELL-1
(PERMIT #5281-3)

PROPOSED REPLACEMENT
LOCATION
RECOVERY WELL-93-1R

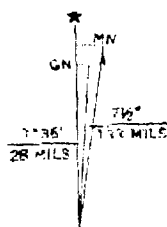
APPROXIMATE LOCATION
OF RECOVERY WELL-2
(PERMIT #5591-3)



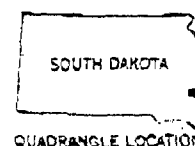
SCALE 1:24 000

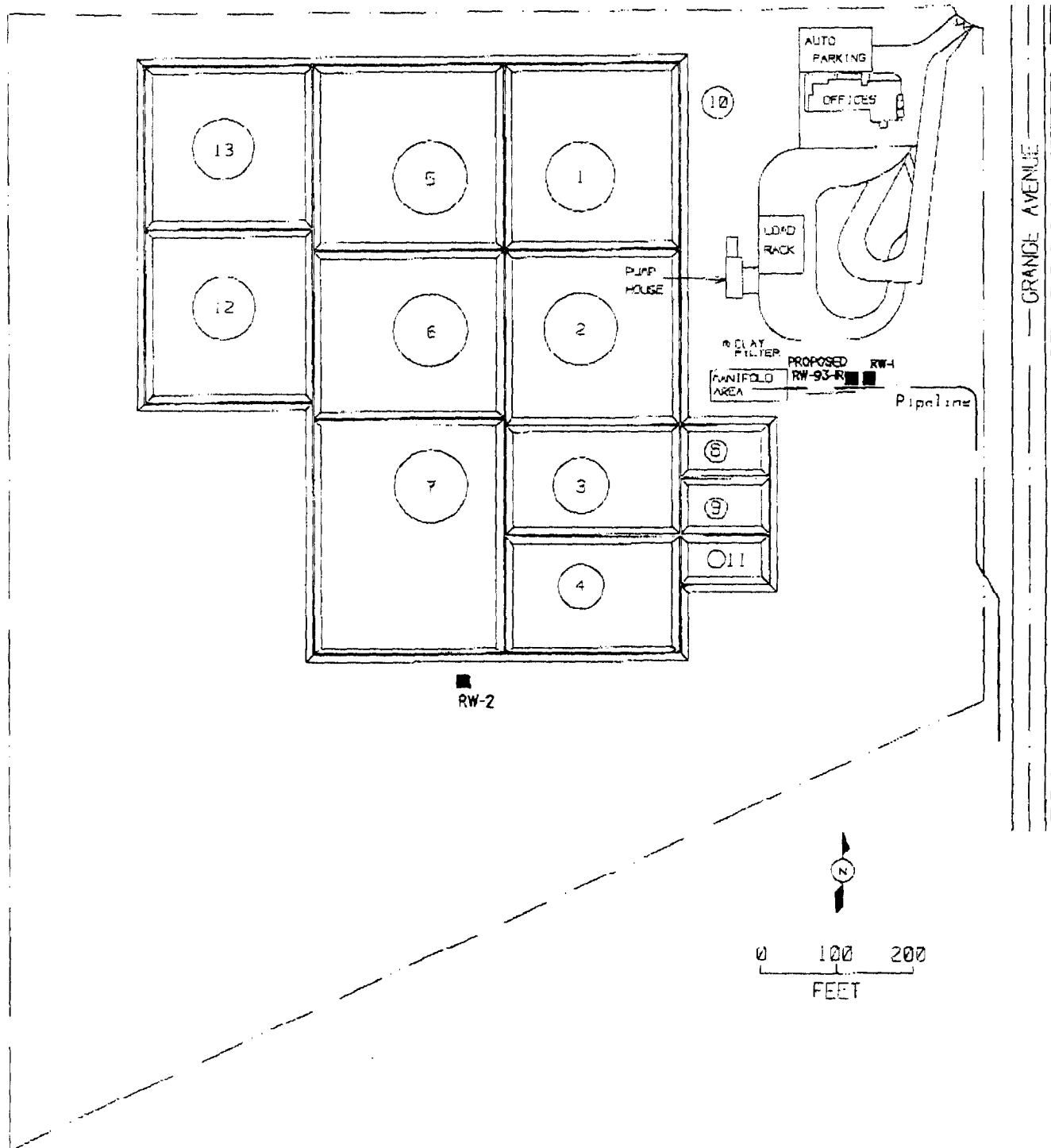
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER



SIOUX FALLS EAST, S. DAK.
N4330 — W9637.5/7.5





TITLE: PERMIT #5281-3
SITE SKETCH
AMOCO TERMINAL
SIOUX FALLS, SOUTH DAKOTA

PROJECT #: 6600 89-35

SCALE: 1 INCH = 200 FEET

DRAWN BY: BPB

CHECKED BY: DML

DRAWING NAME: TERMINAL

DATE: 02/11/93



SIoux EQUIPMENT
1310 EAST 39TH ST. NORTH
SIOUX FALLS, SOUTH DAKOTA 57104
PHONE 605-334-1653

WATER DISCHARGE
1990 Sanitary Sewer

1990 Sanitary Sewer #

JAN	3,411, 310	4844.06
FEB	3,046, 285	4326.00
MAR	3,097, 365	4398.24
APRIL	3,132, 300	4447.57
MAY	3,305, 670	4694.05
JUNE	3,406, 710	4837.53
JULY	2,552, 192	3853.51
AUG	181, 128	273.57
SEPT	2,646, 280	3995.84
OCT	3,987, 439	6021.03
NOV	3,728, 485	4724.01
DEC	3,135, 70	4764.91
		<u>5,118 0.88</u>

SERVICE AFTER SALES

	1991	S.F. H2O	Calcs	T.C.T	#2 WELL	TK#1
JAN		4764.91	3,155,570	7282.02		
FEB		2027.01	1,342,394		1653.60	477.00
MAR				5085.53		
APRIL				3509.15		
MAY				3393.84		13,018.46
JUNE				13,070.50		461.23
JULY		3218.44	2,036,360	13,096.69		8675.10
AUG		5325.17	3,370,360			3840.00
SEPT		4876.53	3,086,412	9692.15		8878.35
OCT		4016.58	2,842,140	12,164.00		154.57
NOV		5066.74		1905.51		957.08
DEC				669.42		
				8127.61		11591.13
				7697.38		127.54
				85,024.04		48,163.28
				15,533.236		
				15,983.5		
				# 170,592.81		

Radisson
PLAZA HOTEL MINNEAPOLIS



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

February 13, 1996

5347-3
5591-3
5755-3

Mitch Kannenberg
Remediation Technician
Amoco Oil Company
3721 South Grange Ave.
Sioux Falls, SD 57105

Dear Mr. Kannenberg:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit Nos. 5347-3, 5591-3 and 5755-3, has been completed. Your final water right documents, the Water Licenses, can now be issued.

Statutes require that we charge a \$50.00 fee per Water License for the inspection and issuance of the Water Licenses (\$150.00 total). Upon receipt of the \$150.00 fee from you, we will begin processing your Water Licenses.

Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit numbers. This will insure proper handling of the fee.

5281-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

OCT 17 1996

5347-3
5591-3
5755-3

Richard L. Haraldson
Amoco Oil Company
3721 South Grange Ave.
Sioux Falls, SD 57105

Dear Mr. Haraldson:

Enclosed are Water License Nos. 5347-3, 5591-3 and 5755-3. These are the final water right documents completing your process of obtaining a Water Right. Enclosed are Receipt Nos. 415065, 415066 and 415084 in the amount of \$50.00 each which you paid for the investigation and issuance of the Water Licenses.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right Nos. 5347-3, 5591-3 and 5755-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

ks
enclosures

NOTE: The applicable portions of Water Permit No. 5281-3 have been incorporated into Water License No. 5755-3.