

Considered: _____

WATER PERMIT NO. 5347-3

HAP No. Same

Name of Applicant Amoro Oil Company

Post Office Address 5001 W. 80th St. Suite 890 Minneapolis MN 55437

Amount of Water Claimed 0.20 gpm .00045 cfs Total Acres NA

Source of Water Supply groundwater - 1 well

Water to be used for groundwater cleanup County Minnehaha

About _____ miles city of Sioux Falls

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received Aug 17, 1989 Fee \$50⁰⁰ Remarks Applied for
2 wells - 1 well is a monitoring well

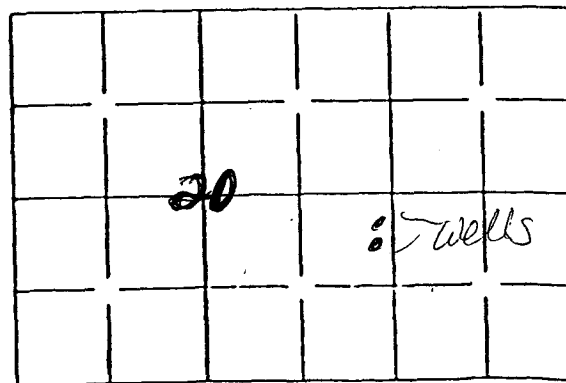
Corrected Application Received _____ Period of Annual Use Jan 1 - Dec 31

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

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

Diversion Point NE 1/4 Sec 4 Section 20 T10N-R4W

Land to be Irrigated NA



Well Log: Driller Twin City Testing Licensed YES X NO _____

Depth of Well ≈ 50' REMARKS _____

Type of Map topo PREPARED BY Bruce Card Reviewed and the Number

signed on Aug 21, 1989 By Susan Bowler

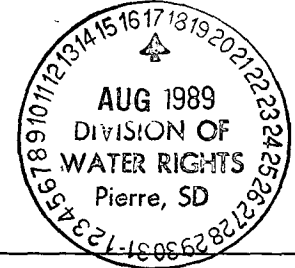
Mail to: Water Rights Div.
523 E. Capitol
Pierre, SD 57501
(605) 773-3352

No. <u>5347-3</u>	Hydrologic Unit <u>10170203</u>
Map No. <u>Same</u>	Basin <u>Big Sioux</u>
Newspaper <u>Argus Leader</u>	<u>Box 5034</u>
<u>Sioux Falls, S.D.</u>	

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 Oil Company, Twin Cities District Phone No. (612) 831-1384

Post Office Address 5001 W. 80th Street, Suite 890, Minneapolis, State MN Zip Code 55437
(Street, RR or Box) (City)

2. Amount of water claimed (c.f.s.) 12 gallons per hour (0.10 cfs)

3. Source of water supply Two existing wells at the site (one is a monitoring well)

4. Location of point of diversion NE 1/4 SE 1/4 Section 20, T101N, R49W

_____ County Minnehaha

5. Counties where water will be used N/A Minnehaha

6. Annual period during which water is to be used January 1 - December 31
The wells 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)

Two wells (one 2" monitoring well and one 4" extraction well) will be used in groundwater remediation at the site. Hydrocarbon contaminated water will be withdrawn from the bottom of the wells 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)

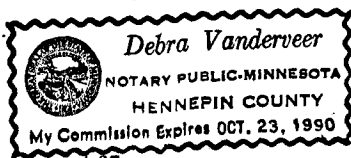
STATE OF ~~SOUTH DAKOTA~~ MINNESOTA
County of HENNEPIN ^{SS}

I, KIRK M. STEINLE, FOR AMOCO OIL Co. 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 Kirk M. Steinle

Subscribed and sworn to before me this 8th day of AUGUST 1989

Debra Vanderveer
Notary Public



SOUTH DAKOTA
WATER PERMIT No. 5347-3

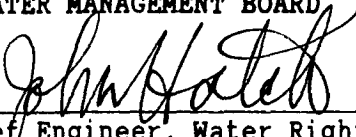
Date of first receipt of application August 17, 1989.

The Water Management Board approved Water Permit Application No. 5347-3 on March 7, 1990 for Amoco Oil Company, Twin Cities District, 5001 W 80th Street, Suite 890, Minneapolis MN 55437 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. 5347-3 appropriates 0.10 cubic feet of water per second from one well located in the NE1/4 SE1/4 section 20-T101N-R49W.
2. The water appropriated shall be used for the purpose of recovery of petroleum products 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 - December 31.
4. The date from which applicant may claim right is August 17, 1989.
5. One-fifth of the construction is to be completed on or before September 7, 1992.
6. All construction is to be completed on or before March 7, 1995.
7. Water is to be put to beneficial use on or before March 7, 1999.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

WATER MANAGEMENT BOARD

By: _____

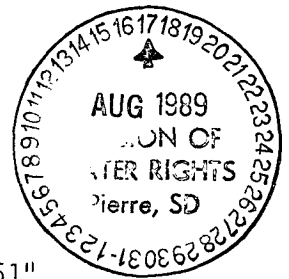

Chief Engineer, Water Rights Division
Department of Water and Natural Resources

APR 25 1990

(date)

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction EW-2

- a) Drill Hole Diameter 9 5/8" Depth 55'
- b) Casing Type 40 Sched PVC Diameter 4" Thickness 0.251"
- c) Screen Type 40 Sched PVC Diameter 4" Thickness 0.251"
(#1630 sand)
- d) Gravel Pack Thickness 3" Length of Gravel Pack 27'
- e) Depth to Top of Water Bearing Material no obvious aquifer present
- f) Depth to Water (ground surface to water level) 35'
- g) Distance to nearest existing domestic well:
On applicants property Not Applicable On property owned by others Approximately 3 miles

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) 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.

- a) 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 _____

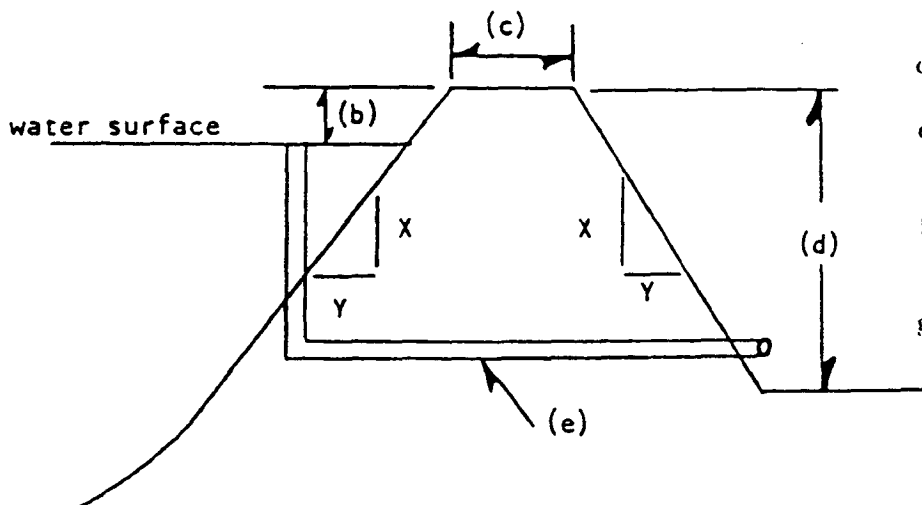
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

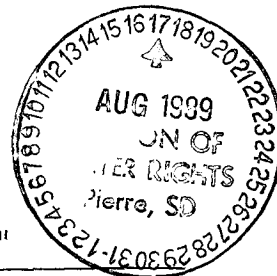
Drainage area above dam _____



Kirk H. Steiner - Amoco Oil Company
Signature of Applicant

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction MW-13

- a) Drill Hole Diameter 7 1/4" Depth 42'
- b) Casing Type 40 Sched PVC Diameter 2" Thickness 0.164"
- c) Screen Type 40 Sched PVC Diameter 2" Thickness 0.164"
(#1630 sand)
- d) Gravel Pack Thickness 2 1/2" Length of Gravel Pack 17'
- e) Depth to Top of Water Bearing Material no obvious aquifer present
- f) Depth to Water (ground surface to water level) 35'
- g) Distance to nearest existing domestic well:
On applicants property Not Applicable On property owned by others Approximately 3 miles

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) 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.

- a) 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 _____

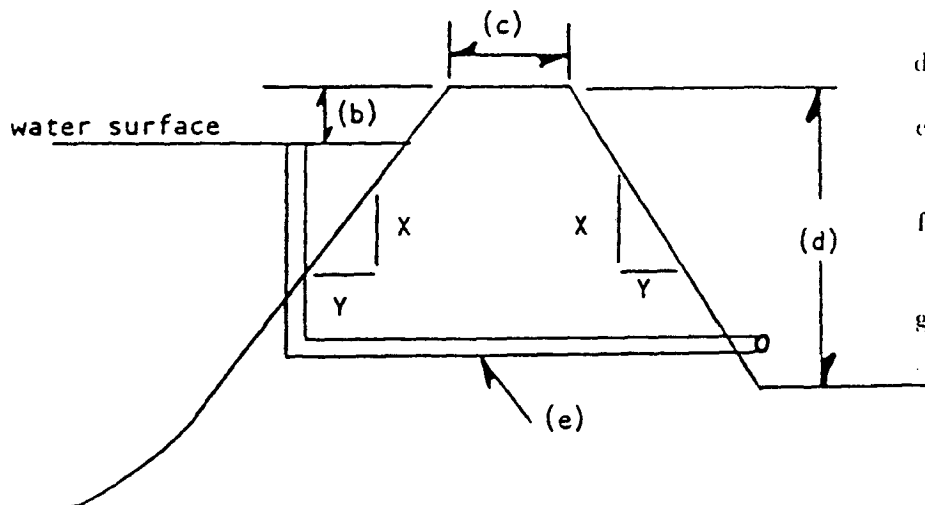
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Keith M. Stenile - AMCO Oil Company
Signature of Applicant



twin city testing
corporation

601 EAST 48th STREET NORTH
SIOUX FALLS, SD 57104
PHONE 605/332-5371

August 16, 1989

Water Rights Division, DWRN
Joe Foss Building
523 East Capitol
Pierre, SD 57501

Subj: Application for a Water Right Permit
Cy's Amoco, Station #8772
1301 South Minnesota
Sioux Falls, South Dakota
#6600 89-160



Dear Sirs:

Enclosed you will find the application for a water right permit for the groundwater remediation associated with the above-referenced site. The application is being made by Twin City Testing (TCT) on behalf of Amoco Oil Company. Any questions about the information contained in the application should be directed to me at TCT. You may contact me at the address on the letterhead or at (605) 332-5371. Thank You.

Very truly yours,

TWIN CITY TESTING CORPORATION

Diane M. Lickfelt, EIT
Chemical Engineer

DML/KK
cyswrp.let

Encs



twin city testing
corporation

601 EAST 48th STREET NORTH
SIOUX FALLS, SD 57104
PHONE 605/332-5371

December 6, 1989

SD Department of Water and Natural Resources
Water Rights Division
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

Attn: Mr. Ron Duvall

Subj: Water Right Permit Application #5347-3
Cy's Amoco Station, SS #8772
1301 South Minnesota Avenue
Sioux Falls, South Dakota
#6600 89-160

Dear Mr. Duvall:

The purpose of this letter is to request a change to the above referenced application for a water right permit. As discussed in our phone conversation of December 5, 1989, we are requesting that the amount of water claimed (item #2 on the Application For Permit To Appropriate Water Within The State Of South Dakota) be changed from 0.2 gallons per minute (gpm) to 45 gpm. It is our understanding that this change can be made at this time without any additional fees.

If you require any additional information or have any questions, please contact us at (605) 332-5371.

Sincerely,

TWIN CITY TESTING CORPORATION

Diane M. Lickfelt, EIT
Chemical Engineer

DML/kk
p5347-3.let



RECEIPT

411885

Division of Water Rights

South Dakota Department of Water and Natural Resources

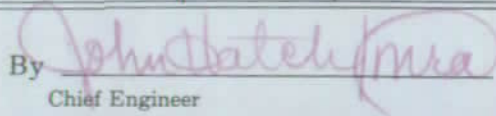
Pierre, August 21, 19 89RECEIVED OF Amoco Oil Company, 5001 W. 8th St., Suite 890, Minneapolis, MN 55437

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

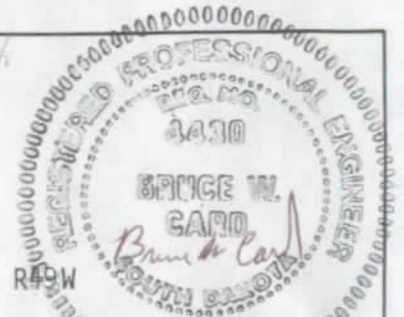
Fee for Application for Permit No. <u>5347-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for 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	50 00

By

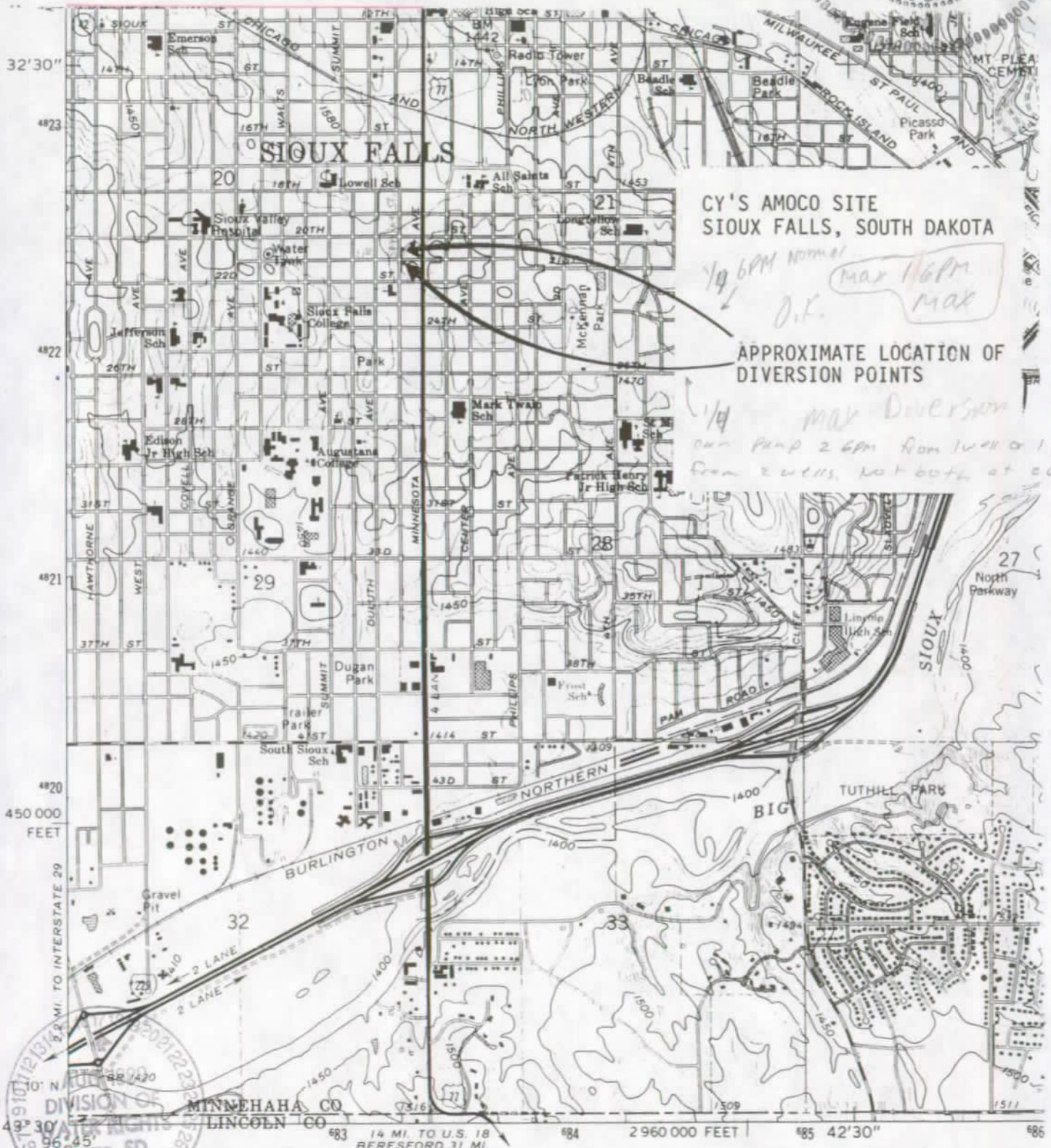
Chief Engineer



North well - 1 Block W of Minnesota on 21st St
 South 3/4 Block West
 CY'S AMOCO STATION #8772
 1301 SOUTH MINNESOTA AVENUE
 SIOUX FALLS, SOUTH DAKOTA
 #6600 89-106



LEGAL LOCATION: NE 1/4 SE 1/4 Section 20, T101N, R49W



CY'S AMOCO SITE
 SIOUX FALLS, SOUTH DAKOTA

1/4 6PM Normal
 max 116PM
 max
 D.F.

APPROXIMATE LOCATION OF
 DIVERSION POINTS

1/4 max Diversion
 own pump 2 6PM from 1 well or 1 6PM
 from 2 wells, not both at 6 PM



Mapped, edited, and published by the Geological Survey

Appl. No. 5347-3



SOUTH DAKOTA WATER WELL COMPLETION REPORT

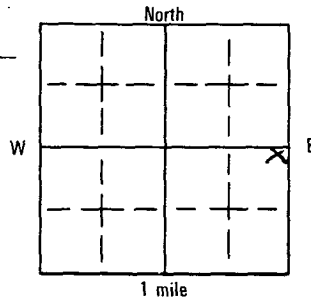
10-85

Location NE 1/4 SE 1/4 Sec 20 Twp 101 N Rg 50 W

County

Minnehaha

Please mark well location with an "X"

Well Completion Date 12-13-88PROPOSED USE: Extraction well
☐ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

6 1/4" H.S.A.

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT <u>4</u>	IN <u>-0.3</u>	FT <u>29 1/2</u>	FT <u>10</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? -0.3 - 20 1/2 FEETWhat is grouting material? Cement groutIf cement, number of sacks? 10Describe grouting procedure Tremie

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 4 IN Length 20 FEETMaterial P.V.C.Slot Size .010 Set From 30 Feet To 50 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 Corp.Address 7201 E. 38th St. Tulsa, OK

Well Log:

Depth

Formation

From

To

Silty sand08clayey silt824 1/2Sand24 1/227Fat clay2732Silty clay3234 1/2Fat clay34 1/237Lean clay3746Silty sand4647Lean clay4755STATIC WATER LEVEL 34.6 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

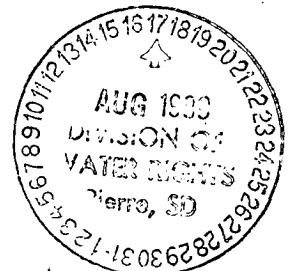
Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

EW-2This well was drilled under license # 530

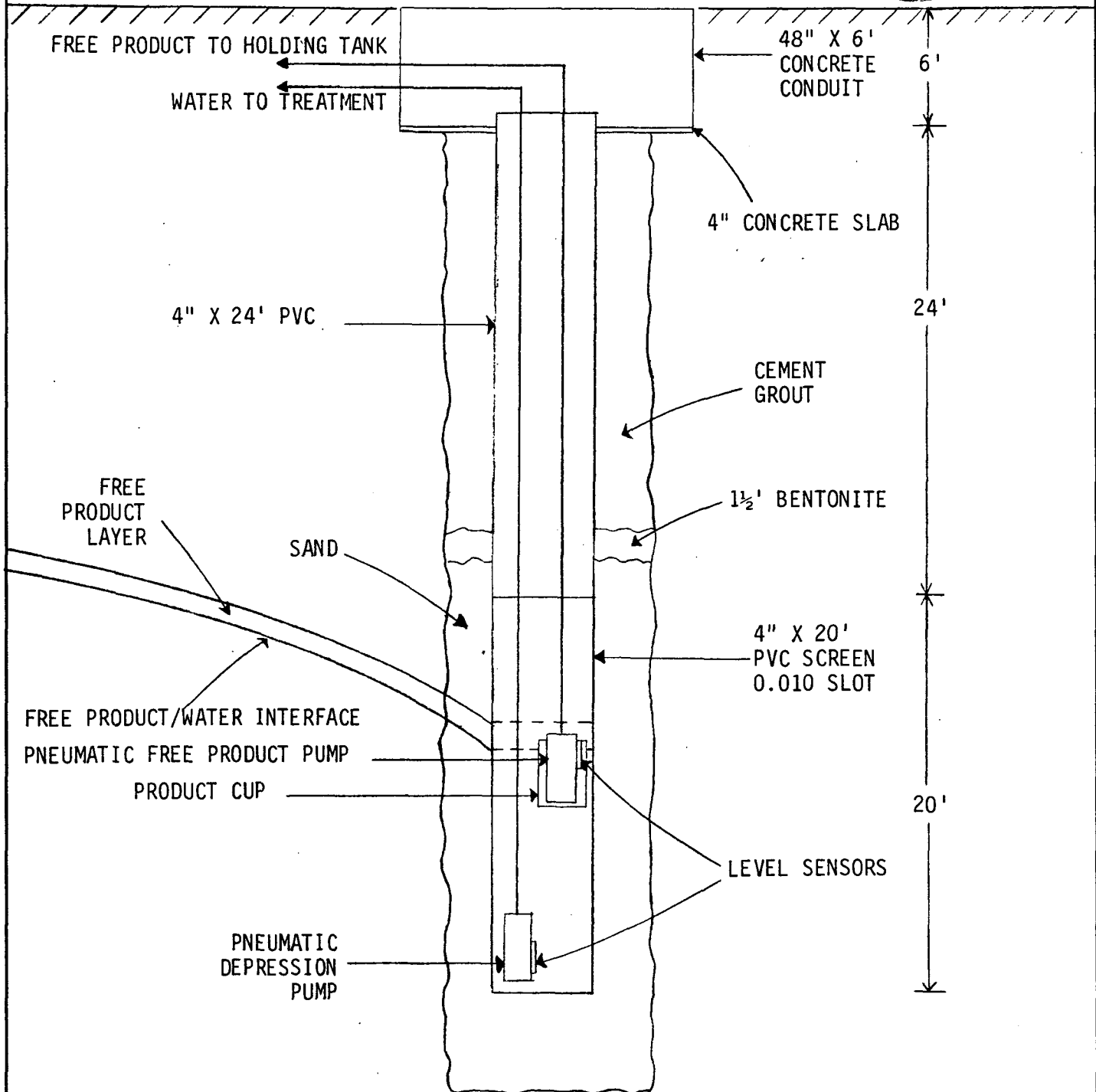
And this report is true and accurate.

Drilling firm Twin City Testing Corp.

Signature of License Representative: _____

Signature of Well Owner: _____

Date _____



Report on Application No. 5347-3
Amoco Oil Company
October 2, 1989

This application proposes to appropriate 0.0004 cfs from one recovery well (four inches in diameter) 55 feet deep located in the NE1/4 SE1/4 of Section 20, T101N R49W, Sioux Falls, South Dakota. A 2-inch diameter monitoring well, 42 feet deep, is also part of this permit application. The recovery well is to be used for groundwater remediation of hydrocarbons.

Aquifer

The recovery and monitoring well logs submitted by Amoco Oil Company indicate that no aquifer is present at the proposed remediation site. The well logs indicate the presence of Pleistocene glacial till as the water bearing host material. Water movement within the glacial till is expected to be minimal. No well inference of domestic wells is expected from pumping the remediation well.

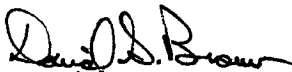
The purpose of the remediation well is to recover contaminated water. The recovered contaminated water will be treated and disposed of into the Sioux Falls municipal sewer system.

Review of Existing Water Rights

There are no existing Water Rights on file with the Division within the glacial till near where the remediation well is located.

Conclusions

1. Well interference with existing Water Rights will not be a problem. Drawdowns caused by pumping the remediation well 0.0004 cfs will be negligible.
2. Amoco Oil Company has installed one monitoring well and one recovery well for groundwater/hydrocarbon remediation purposes.
3. The two constructed wells meet South Dakota Well Construction Standards 74:02:04.
4. Pumping the recovery well will not be effective in recovering commercial quantities of hydrocarbons, but will be effective in obtaining groundwater samples for testing purposes.



David S. Brown
Natural Resources Engineer
DWNR, Water Rights Division

Bibliography

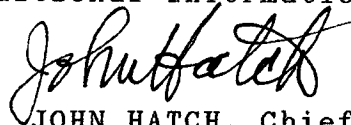
Water Rights Division, 1989, Domestic Well Logs and Permit Files,
DWR, Division of Water Rights, Joe Foss Building, Pierre,
SD 57501.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5347-3, Amoco Oil Company

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. 5347-3, Amoco Oil Company, 5001 West 80th Street, Suite 890, Minneapolis MN.

The Chief Engineer is recommending APPROVAL of Application No. 5347-3 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.

See the attached report for additional information.

A handwritten signature in cursive script, appearing to read "John Hatch", written in dark ink.

JOHN HATCH, Chief Engineer
October 3, 1989



Department of Water & Natural Resources

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

October 30, 1989

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

Kirk M. Steinle
Amoco Oil Company
5001 W 80th St, Suite 890
Minneapolis, MN 55437

Dear Mr. Steinle:

Water Permit Application No. 5347-3 for groundwater cleanup 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 are also enclosed. 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,

A handwritten signature in black ink, appearing to read "Ron Duvall". The signature is fluid and cursive.

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

October 30, 1989

Argus Leader
Box 5034
Sioux Falls, SD 57117

ATTN: Legal Department

Enclosed is a Notice of Hearing on Application No. 5347-3 to be published twice. Please publish the first notice on or before November 3, 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 Oil Company, 5001 W 80th St. Suite 890, Minneapolis, MN 55437.

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 November 3, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5347-3 to Appropriate Water

Notice is given that Amoco Oil Company, 5001 W 80th St. Suite 890, Minneapolis, MN 55437 has filed an application for a water permit to appropriate 0.20 gallons of water per minute (0.00045 cubic feet of water per second) from one well located in the NE1/4 SE1/4 Section 20-T101N-R49W. The well is used for groundwater remediation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5347-3 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 in Room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on December 6, 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 November 24, 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 November 24, 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; 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.

Revised Report on Application No. 5347-3
Amoco Oil Company
January 9, 1990

This application proposes to appropriate up to 0.10 cfs from one recovery well (four inches in diameter) 55 feet deep located in the NE1/4 SE1/4 of Section 20, T101N R49W, Sioux Falls, South Dakota. A 2-inch diameter monitoring well, 42 feet deep, is also part of this permit application. The recovery well is to be used for groundwater remediation of hydrocarbons.

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The purpose of the remediation well is to recover contaminated water. The recovered contaminated water will be treated and disposed of into the Sioux Falls municipal sewer system.

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1. Well interference with existing Water Rights will not be a problem. Drawdowns caused by pumping the remediation well 0.10 cfs will be negligible.
2. Amoco Oil Company has installed one monitoring well and one recovery well for groundwater/hydrocarbon remediation purposes.
3. The two constructed wells meet South Dakota Well Construction Standards 74:02:04.
4. Pumping the recovery well will not be effective in recovering commercial quantities of hydrocarbons, but will be effective in obtaining groundwater samples for testing purposes.



David S. Brown
Natural Resources Engineer
DWNR, Water Rights Division

Bibliography

Water Rights Division, 1989, Domestic Well Logs and Permit Files,
DWNR, Division of Water Rights, Joe Foss Building, Pierre,
SD 57501.



Department of Water & Natural Resources

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

January 10, 1990

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

Kirk M. Steinle
Amoco Oil Company
5001 W 80th St, Suite 890
Minneapolis, MN 55437

Dear Mr. Steinle:

Water Permit Application No. 5347-3 for groundwater cleanup 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. 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 Hearing 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

cc: Dianne Lichfelt, Twin City Testing
601 E. 48th St N., Sioux Falls, SD 57104-0698



 **Department of
Water & Natural Resources**

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

January 10, 1990

Argus Leader
Box 5034
Sioux Falls, SD 57117-5034

ATTN: Legal Publications:

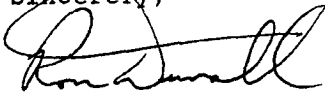
Enclosed is a Notice of Hearing on Application No. 5347-3 to be published twice. Please publish the first notice on or before January 17, 1990 with the second publication 7 days later.

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 Oil Company, 5001 W 80th St, Suite 890, Minneapolis, MN 55437.

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 January 17, 1990 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5347-3 to Appropriate Water

Notice is given that Amoco Oil Company, 5001 W. 80th St, Suite 890, Minneapolis, MN 55437 has filed an application for a water permit to appropriate up to 0.10 cubic feet of water per second from one well located in the NE1/4 SE1/4 Section 20-T101N-R49W. The well is used for groundwater remediation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5347-3 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 in the Roosevelt - Jefferson Room, Howard Johnson, 2211 LaCrosse, Rapid City, SD on March 7, 1990 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 February 23, 1990. 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 February 23, 1990.

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.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
 County Minnehaha)

I, Mary J. Devish
 certify that the attached printed Notice 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:

Wednesday, January 17, 1990

Wednesday, January 24, 1990

Mary J. Devish
 (Signature)

Controller
 (Title)

1/24/90
 (Date Signed)

Cost of Printing: \$77.08



NOTICE OF HEARING On Application No. 5347-3 to Appropriate Water

Notice is given that Amoco Oil Company, 5001 W. 80th St., Suite 890, Minneapolis, MN 55437, has filed an application for a water permit to appropriate up to 0.10 cubic feet of water per second from one well located in the NE 1/4 SE 1/4 Section 20-T101N-R44W. The well is used for groundwater remediation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends **APPROVAL** of Application No. 5347-3 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 in the Roosevelt - Jefferson Room, Howard Johnson, 2211 LaCrosse, Rapid City, SD on March 7, 1990 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 February 23, 1990. The Chief Engineer's address is "Water Rights Division, Joe 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 February 23, 1990.

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.

393 Jan. 17, 24, 1990



Department of Water & Natural Resources

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

APR 25 1990

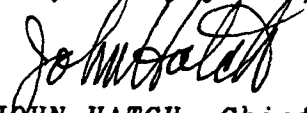
Kirk M Steinle
Amoco Oil Company
5001 W 80th St
Suite 890
Minneapolis MN 55437

Dear Mr. Steinle:

Enclosed is Water Permit No. 5347-4 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

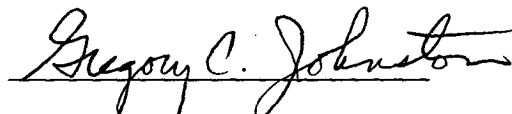
DATE:5/21/92 TELEPHONE:Diane Lickfeldt (TCT - 332-5371)

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

Permit No. 5347-3
Big Sioux - Water District

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

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **June 27, 1995**, made a thorough examination of the water use system constructed by **Amoco Oil Company of 3721 South Grange Avenue, Sioux Falls, SD 57105 & 5001 West 80TH Street, Suite 890, Minneapolis, MN 53437** holder of Permit No. **5347-3**, bearing the priority of **August 17, 1989** authorizing the diversion of **0.10** cu. ft. of water per second from **groundwater** for **remediation** purposes, in **Minnehaha** County.

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

A. Works used to divert the water:

A 2 GPM pneumatic pump in each well.

B. Works used to transport water to place of use:

2" pvc pipe

The system is in the following condition **excellent**. The point of diversion is located : **North well: 1815 feet N and 320 feet W; South Well: 1650 feet N and 200 feet W; both from the SE corner of Section 20; T101N R49W (NE1/4 SE1/4).** The works are capable of diverting and conveying to the place of use **.004** cu. ft. of water per second which is to be used for **groundwater remediation** and the license should be issued for **.004** cfs.

Applicable permit qualifications have been complied with: Yes **X** No

Exceptions to compliance are: **None** Date Report Completed: **November 21, 1995**



Barry A. McLaury
Natural Resources Scientist
DENR, Water Rights Program

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
WATER RIGHTS PROGRAM

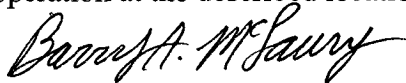
DATE: **February 7, 1996**

RE: **Additional diversion point for Amoco Oil Company, Water Permit No. 5347-3.**

An inspection of Permit No. **5347-3** found an additional diversion point not authorized by the permit. SDCL 46-5-13.1 provides that a point of diversion may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the addition does not increase the potential for interference with existing diversions.

Water Permit No. **5347-3**, approved in **March 7, 1990**, appropriates **0.10** cubic feet of water per second (cfs) from **ground water** for ground water recovery of hydrocarbon contaminated water. The additional diversion point is located in the NE1/4 SE1/4 of Section **20**; T101N R49W. An inspection of Water Permit No. **5347-3** found the works capable of diverting **.004** cfs from two wells (**Pleistocene Glacial Till ground water**) at the same location.

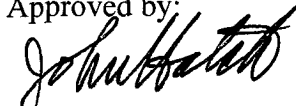
A review of existing diversions within a one mile radius of Section **20** was conducted based on Water Rights Program records. This review indicates that this additional point of diversion does not change the impact potential to existing diversions from the **Pleistocene Glacial Till ground waters**. The diversion point has been in operation at the described location for several years with no known complaint.



Barry A. McLaury
Environmental Scientist
Water Rights Program

The Chief Engineer makes a finding that this additional point of diversion does not increase the potential for interference with existing diversions. In making the finding "does not increase the potential for interference" is interpreted to mean potential for adverse interference. Water Permit No. **5347-3** may be licensed without requiring an application or publication of a notice of hearing pursuant to SDCL 46-2A-4 for an additional point of diversion.

Approved by:



John Hatch, Chief Engineer
Water Rights Program

REPORT ON INSPECTION OF PERMIT NO. 5347-3

Other permit(s) associated with the project: None

DATE OF INSPECTION: June 27, 1995

NAME & ADDRESS OF INSPECTION CONTACT/

RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE: Mitch Kannenberg, Remediation Technician

NAME & ADDRESS OF PERMIT HOLDER: Amoco Corporation and Oil Company, 3721 South Grange Avenue, Sioux Falls, SD 57105. Also: 5001 West 80TH Street, Suite 890, Minneapolis, MN 53437.

DIVERSION POINT LEGAL LOCATIONS: North well: 1815 feet N and 320 feet W; South Well: 1650 feet N and 200 feet W; both from the SE corner of Section 20; T101N R49W (NE1/4 SE1/4).

WELL INFORMATION:

- 1) Well Drilling Firm: Twin City Testing
- 2) No. of Wells 2
- 3) Depth(s) 42 & 55 feet
- 4) Well log is available Y
- 5) Comment: Wells are identical.

Casings:

- 1) Diameter 4 inches
- 2) Length 22 & 24 feet
- 3) Type PVC

(NorthWell)

Screens:

- 1) Type PVC
- 2) Length 15 & 20 feet
- 3) Static water level 35 feet

Pumps: (North Well)

- 1) Make QED
- 2) Model LP1401 neumatic
- 3) Capacity 2 GPM

(South Well)

Motors: (North Well)

- 1) Make Ingersoll-Rand type 30
- 2) Model No. 71T2-10D
- 3) Horsepower rating 10 hp

- 1) Make Submersible
- 2) Model LP1401 neumatic
- 3) Capacity 2 GPM

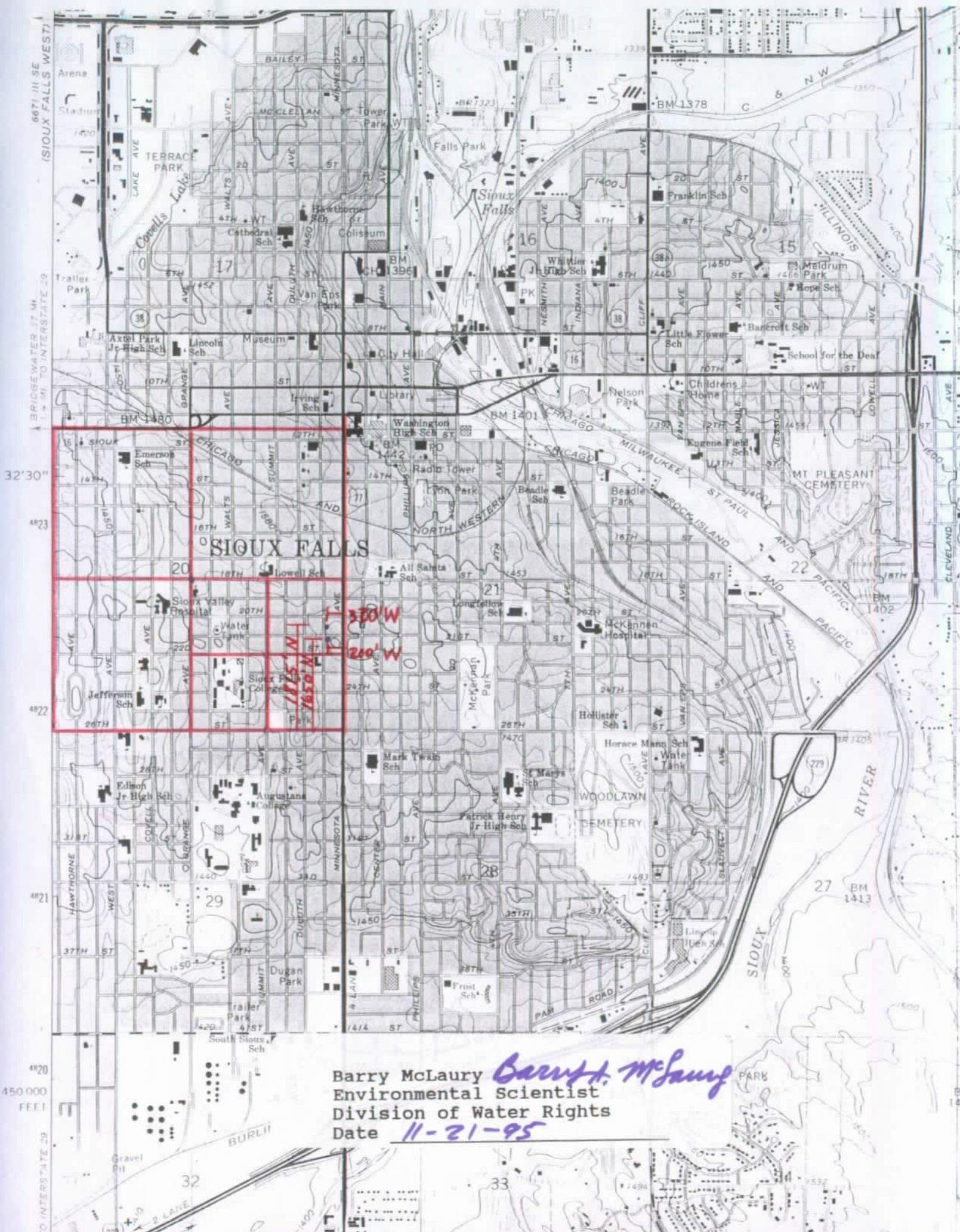
- 1) Make Ingersoll-Rand type 30
- 2) Model No. 71T2-10D
- 3) Horsepower rating 10 hp

***NOTE: The North well is located 1 block West of Minnesota Avenue on 21ST Street and the South well is located 3/4 of a block west of Minnesota Avenue. Each well can produce 2 GPM. Only 1 well can be pumped at a time @ 2GPM or they can pump both wells @ 1 GPM. Maximum diversion is 2 GPM. These two wells are used for the purpose of remediation for hydrocarbon spills.**

All correspondence should be sent to Mitch Kannenberg at the Sioux Falls address.

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Special qualifications to permit being abided by Y
- 2) All structures, wells and lands on map Y
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA



Barry McLaury *Barry H. McLaury*
Environmental Scientist
Division of Water Rights
Date 11-21-95

450 000
FEET



**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.

RECEIPT

415084

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ September 9, 19 96

RECEIVED OF Delta Environmental Consultants, Inc., 3900 Northwoods Dr., Ste. 200, St. Paul,
the following amount in fees for services rendered as provided for by law: MN 55112

Fee for Application for Permit No. _____ to Appropriate Water, to construct 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>5347-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer



3900 Northwoods Drive
Suite 200
St. Paul, MN 55112
612/486-8022
FAX: 612/486-8021

September 6, 1996

Ms. Cheryl Frost
Department of Environment and Natural Resources
Water Rights Program
523 East Capitol
Pierre, SD 57501-3181

Subject: Water License Inspection Fees
Water Appropriation Permit No. 5347-3
Amoco Service Station No. 8772
1301 South Minnesota Avenue
Sioux Falls, South Dakota
PRCF No. 270, DENR No. 87.119
Delta Project No. A096-283

Dear Ms. Frost:

Enclosed is a check for the amount of \$50.00 to cover the water license inspection fees associated with the above referenced permit. Please note that Amoco Corporation has transferred environmental consulting duties for this site from Maxim Technologies, Inc. of Sioux Falls, South Dakota to Delta Environmental Consultants, Inc. of Saint Paul, Minnesota. If you have any questions regarding this site, please do not hesitate to contact me direct at (612) 486-5795 or by voice mail at (612) 223-9804.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Bethann K. Mahle
Bethann K. Mahle
Project Manager

BKM/bjc

Enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 26, 1996

SECOND NOTICE

Permit Nos. 5347-3
5591-3
5755-3

NOTICE OF WATER LICENSE INSPECTION FEE REQUIREMENT

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

Dear Mr. Kannenberg:

On February 13, 1996, you were notified the final inspection fee of \$50.00 per license (\$150.00 total) is due before Water License Nos. 5347-3, 5591-3 and 5755-3 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 per license (\$150.00 total), your Water Licenses will be sent to you. This is the final document for the perfection of your Water Rights. 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.

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

According to South Dakota Water Law 46-5-30.1, you may not divert water until the License fees are paid. Please submit the required fee immediately to avoid jeopardizing your water permit.

Very truly yours,

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

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

5347-3
5591-3
5755-3

4a. Article Number

P 378 081 288

4b. Service Type

☒ Registered

☒ Certified

☐ Express Mail

☐ Insured

☐ Return Receipt for Merchandise

☐ COD

7. Date of Delivery

8/27/96

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X Regina Schurbach

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

STATE OF SOUTH DAKOTA

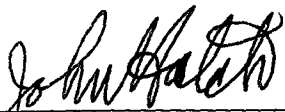
WATER LICENSE NO. 5347-3

(1) Amoco Oil Company, 3721 S Grange Ave, Sioux Falls SD 57105 made Application No. 5347-3, August 17, 1989 for a water permit to divert 0.10 cubic feet of water per second from groundwater, Minnehaha County, South Dakota for groundwater remediation purposes. Permit No. 5347-3, with a priority date of August 17, 1989 was approved March 7, 1990 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 7, 1995 and for the application to beneficial use of said water on or before March 7, 1999.

(2) It is certified that the applicant 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 0.004 cubic feet of water per second for beneficial use. The location of the diversion points are North well: 1,815 feet north and 320 feet west; South well: 1,650 feet north and 200 feet west; both from the southeast corner of Section 20-T101N-R49W (NE 1/4 SE 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

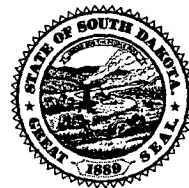
(4) Pursuant to South Dakota Water Law 46-5-30.1 Amoco Oil Company, 3721 S Grange Ave, Sioux Falls SD 57105 the holder and/or owner of Water Permit No. 5347-3 is issued a license to appropriate water, the right to use 0.004 cubic feet of water per second from groundwater (two wells) with a priority date of August 17, 1989 from the location specified in (2) of this license, for groundwater remediation purposes. This license is subject to any limitations or qualifications listed in Water Permit No. 5347-3 and subject to South Dakota State Law.

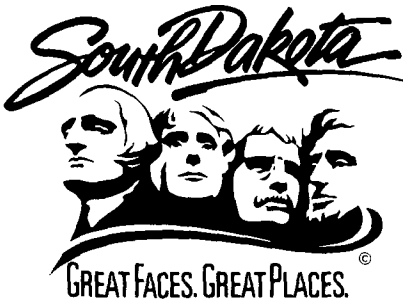


JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

OCT 17 1996

date





**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

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enclosures

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