

Considered: _____

WATER PERMIT NO. 5529-3

Phone: 472-1568

Name of Applicant: Daryle Starr

Post Office Address: RR 1, Box 42, Frankfort SD 57440

Amount of Water Claimed: no add'l (2.22) Total Acres: 28

Source of Water Supply: groundwater

Water to be used for: irrigation County: Spink

About 6 miles E of Doland

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY Date Received: 11-8-88 Fee: \$50 Remarks Add'l acreage

to Water Right No. 134-3 & 4699-3

Corrected Application Received _____ Period of Annual Use April 1 - Oct 31

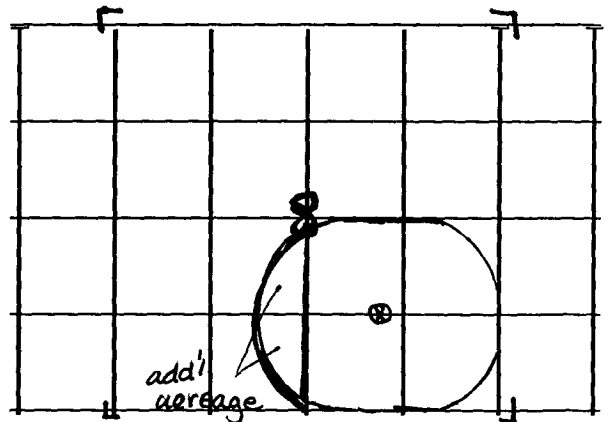
WATER QUALITY APPROVAL RECEIVED _____ APPROVED/CONDITIONAL (Circle one)

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

Diversion Point: SW 1/4 SE 1/4 8-116-61

Land to be Irrigated: NW 1/4 SW 1/4 &

SE 1/4 SW 1/4 8-116-61



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

Depth of Well: 95' REMARKS _____

Type of Map: aerial PREPARED BY: Jim Wendte Reviewed and the Number

Assigned on 3-25-91 By Karen Schlaak

No. 5529.3 Hydrologic Unit 10160006
Basin James River
Newspaper Doland Times-Record, Box 387 (Thurs)

12-05 (See instructions) 24-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-12345678910111213141516171819202122232425262728293031

Application For

UNION OF

TYPE of Application:

Pierre, SD

Type of Application: ☒ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☒ Add Acreage ☐ Increase diversion rate ☐ Other See Nos. 134-3 & 4699-3

1. Name of Applicant Daryle Starr Phone No. 472-1568

Post Office Address RR 1, Box 42 Frankfort, South Dakota State 57440
(Street, RR or Box) (City) Zip Code

2. Amount of water claimed (c.f.s) No Add'l Total acres irrigated 28

3. Source of Water supply groundwater (1 well)

4. Location of point of diversion SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 8 T116N, R61W about 300' W of the center of the SE $\frac{1}{4}$

County Spink

5. Counties where water will be used Spink

6. Annual period during which water is to be used April 1 - October 31

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

Land Description	No. Acres Irr.
NF $\frac{1}{2}$ SW $\frac{1}{4}$ Section 8 T116 R61	14
SF $\frac{1}{2}$ SW $\frac{1}{4}$ Section 8 T116 R61	14

Land Description	No. Acres Irr.

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: X Gun: _____ Other: _____
(Specify) _____

9. Crops to be Irrigated: Corn soybeans alfalfa

10. Give a description of proposed project. (Attach sheet if more-space is needed)

This application proposes to add 28 acres not covered by Water Right No. 134-3 or Water Permit No. 4699-3.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)
County of Spink) ss

Darryle Starr, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed Margie Starr
 this 4th day of November 1988
Debra Ann Starr
 Notary Public

**SOUTH DAKOTA
WATER PERMIT No. 5529-3 FOR IRRIGATION**

Date of first receipt of application November 8, 1988.

Date Soil/Water Compatibility Permit received April 22, 1991.

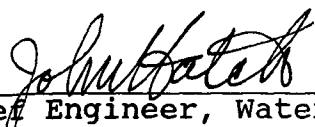
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5529-3 to Daryle Starr, RR 1, Box 42, Frankfort SD 57440 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5529-3 authorizes irrigation of 28 additional acres. Water Right No. 134-3 and Water Permit No. 4699-3 appropriates 2.22 cubic feet of water per second from one well 95 feet deep (Tulare East James Aquifer) located near the center of the SE 1/4 Section 8 to irrigate 160 acres located in the SE 1/4 Section 8; all in T116N-T61W. This permit is to irrigate 28 additional acres located in the NE 1/4 SW 1/4, SE 1/4 SW 1/4 Section 8-T116N-R61W from the existing well. This permit does not authorize any increase in the diversion rate.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 - October 31.
3. The date from which applicant may claim right is April 22, 1991.
4. The date of approval of Permit No. 5529-3 is July 17, 1991.
5. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. 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.
2. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
3. Approval of Permit No. 5529-3 does not authorize any increase in the 2.22 cfs diversion rate.

WATER MANAGEMENT BOARD

By: 
Chief Engineer, Water Rights Division
Department of Environment and Natural Resources

SEP 16 1991
date

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 28" Depth 95 FT
- b) Casing Type P.V.C PLASTIC Diameter 15" Thickness _____
- c) Screen Type JOHNSON STAINLESS Diameter 16" Thickness _____
- d) Gravel Pack Thickness 12" ~~1~~ Length of Gravel Pack 95 FT
- e) Depth to Top of Water Bearing Material 21 FT
- f) Depth to Water (ground surface to water level) 24 FT
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others 2 Miles

X Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) ~~24 FT~~

X 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 _____

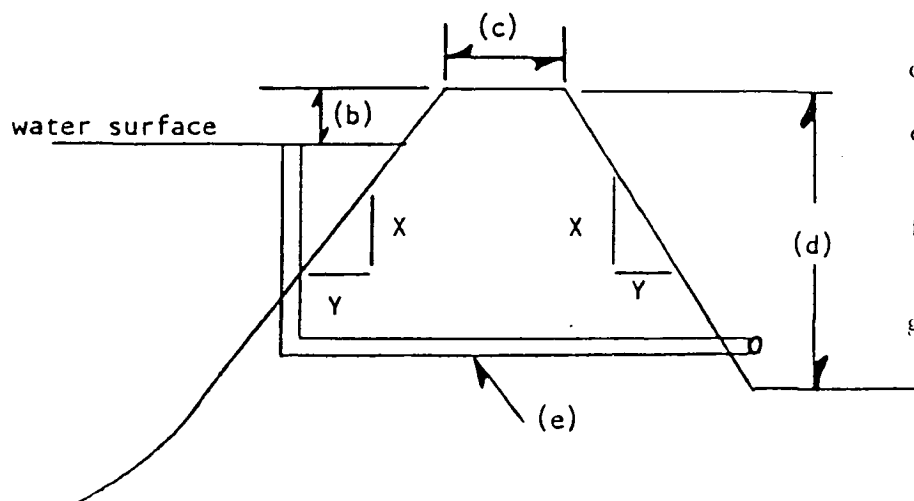
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

301

Doland, South Dakota

WELL REPORTHURON
DRILLING CO.
Huron, S. D.

Norland Hofer

OWNER

8-116-61-Spink County

DESCRIPTION

May 18, 1981

DATE

CASING LOG

Depth 95 ft.

Flows 75 ft. 15" PVC Plastic pipe to 75 ft.

Pumps 20 ft. 16" Johnson Stainless Steel Screen 70 slot pipe to 95 ft.

Head ft. pipe to ft.

20 Ft. 16" Johnson Stainless Steel Screen

Perforations 70 slot ft. pipe to ft.

Pressure

REMARKS

75-95 Ft.

Drilling Time

Rig No. 18

Dennis Duvall

Foreman

DM

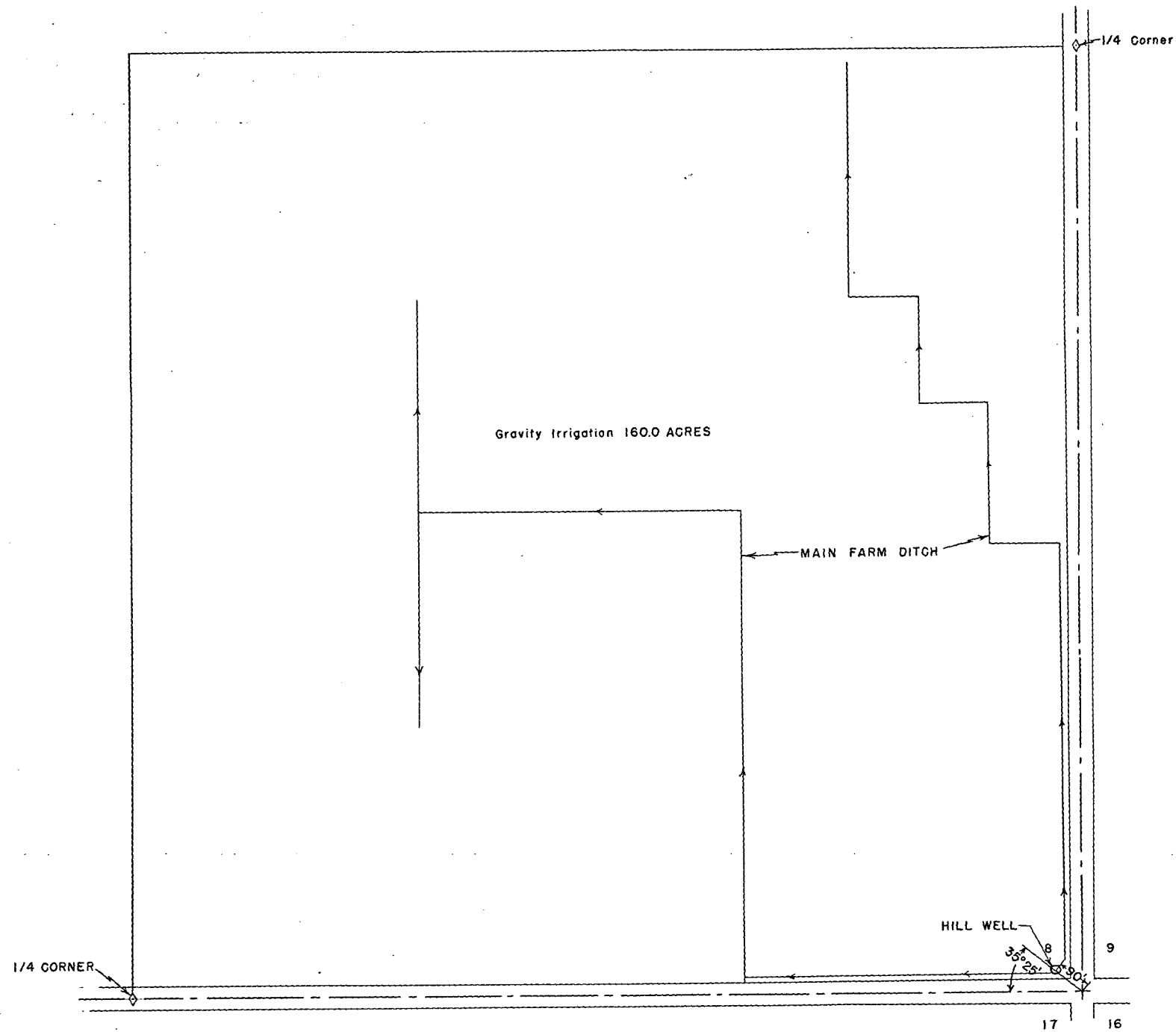


HURON DRILLING INC. DRILLERS LOG

PAGE NO.

[illegible]

MAP SHOWING LOCATION OF HILL WELL (POINT OF DIVERSION)
AND LANDS TO BE IRRIGATED WITH WATER DIVERTED FROM THIS WELL.
MAURICE G. HILL, OWNER



LEGAL SUBDIVISION AREA TO BE IRRIGATED:
S.E. 1/4 SECTION 8 T116N R 61 W 160.0 ACRES
TOTAL 160.0 ACRES

LENGTH OF MAIN FARM DITCH 7340 FEET
SCALE: 1 INCH = 200 FEET

Certified Correct M. E. Von Sagen
Chief, Projects Development Division
Bureau of Reclamation, Department of Interior
Huron, South Dakota.

Subscribed and sworn to before me
this 21st day of November 1955
Anthony H. Costica
Notary Public for the State of South Dakota
Residing at Huron, South Dakota
My Commission expires February 9, 1956

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, November 9, 1988

RECEIVED OF Daryle Starr, RR 1, Box 42, Frankfort, SD 57440

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

Fee for Application for Permit No. <u>5529-3</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 John Hatch
Chief Engineer

JOHN HATCH



Department of Water & Natural Resources

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

Oct. 21, 1988

Daryle Starr
RR 1, Box 42
Frankfort, SD 57440

Dear Mr. Starr:

On Oct. 14, 1988, I made an inspection of your irrigation development in Section 8, T116N, R61W. Upon completion of the inspection and reviewing the files in our office, I discovered a discrepancy which needs to be cleared up with a new permit application.

Water Right No. 134-3 and Water Permit No. 4699-3 allow you to irrigate 160 acres in the SE1/4 of Section 8. However, you are also irrigating 28 acres in the SW1/4 which is not covered by 134-3 or 4699-3. I have partially completed a permit application for you. You must indicate the types of crops to be irrigated and make sure that both copies of the application are signed and notarized. You should also complete as much of Form 2A (Supplemental Information) as possible. A water sample needs to be collected as described on the instruction sheet. The soils information also needs to be submitted. I have also enclosed a map for your review. There is a \$50.00 fee associated with this permit.

Water Permit No. 4699-3 has already been transferred to your name. However, it appears that we failed to transfer Water Right No. 134-3 to your name. I have enclosed a partially completed transfer form for No. 134-3. Please complete this form also. There is a \$2.50 fee associated with this form.

After completing and reviewing the forms, please return the transfer form, map, Form 2A, soils information, fees, and both copies of the application to our office. The water sample should be sent to Brookings. We can then continue with the process of obtaining this permit and eventually incorporating these permits into one license for your final water right. If you have any questions, please contact our office.

Sincerely,

James L. Wendte
Natural Resources Engineer
(605) 773-3352

enc



5529-3

Department of Agriculture
WI#1
5/87

SOIL/WATER COMPATIBILITY PERMIT
Division of Conservation



Office Use Only

4577

WR#

OWNERS NAME: STARR, DARYLE

OWNERS ADDRESS: RR 1, BOX 42

FRANKFORT SD 57440

COUNTY LAND LOCATED IN: SPINK

PHONE: 472-1568

LEGAL DESCRIPTION:

☒ Well☐ Surface1. LOCATION: SW $\frac{1}{4}$ SE $\frac{1}{4}$ 8-T116N-R61W (about 300'W of the center of the SE $\frac{1}{4}$)

Depth:

Legal Description	Acres	Legal Description	Acres
NE $\frac{1}{4}$ SW $\frac{1}{4}$ 8-T116N-R61W	14		
SE $\frac{1}{4}$ SW $\frac{1}{4}$ 8-T116N-R61W	14		

2. TYPE OF IRRIGATION: GRAVITY: TOWLINE: CENTER PIVOT: XXX GUN: OTHER: (Specify)

3. CROPS TO BE IRRIGATED: CORN, SOYBEANS, ALFALFA

WATER QUALITY:

4. WATER SAMPLE NUMBER: 79-431

7. ADJUSTED (SAR): 2.70

5. SALINITY (EC X 10⁶): 827

8. PERCENT SODIUM: 20.15

6. SODIUM (SAR): 1.05

Requirements:

The maximum allowable limits of salt and sodium buildup in the profile at the root zone (upper 12 inches of the soil profile) at the beginning of the growing season apply. They become applicable upon the issuing of a Soil and Water Compatibility Permit by the Division, or the Commission.

[Signature]
Director, Division of Conservation

APRIL 18, 1991

Date

XXX APPROVED

DISAPPROVED

WAIVER

XXX REQUIREMENTS

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

REPORT ON APPLICATION NO. 5529-3
for Daryle Starr
May 29, 1991

Application No. 5529-3 proposes to irrigate 28 additional acres. Water Right No. 134-3 and Water Right No. 4699-3 appropriate 2.22 cfs from one well 95 feet deep located near the center of the SE 1/4 of section 8 to irrigate 160 acres located in the SE 1/4 of section 8; all in T116N R61W in Spink County. This application is to irrigate 28 additional acres located in the NW 1/4 SW 1/4 and SE 1/4 SW 1/4 of section 8, T116N R61W from the existing well. This application, if approved, does not authorize any increase in the diversion rate.

AQUIFER - TULARE EAST JAMES (T-EJ)

The Tulare East James is a glacial outwash (sand and gravel) under water table conditions in this area. The aquifer can also be confined and under artesian conditions. Well information supplied with the application indicates the well is 95 feet deep with sand beginning about 10 feet below land surface to the bottom and a static water level about 24 feet below land surface. The Tulare East James underlies 102,400 acres and contains an estimated 630,000 acre feet of recoverable water in storage in Spink County (Goodman 1984). This estimate is slightly higher than the SDGS estimate of 476,000 acre feet of recoverable water (Hedges, 1982) due to a better defined aquifer map.

The Division of Water Rights monitors 33 observation wells completed into the Tulare East James aquifer in Spink County. Records are available from 1963 to present for some of sites. In general ground water levels declined from 1973 to 1984. During 1986, significant water level rises were noted over the entire aquifer. In many areas, this recharge caused water levels to rise above the highest levels ever recorded; however, the wells with long term records still indicate that historically the water levels were higher. There is one observation well SP-66D which is located about 1/4 mile from the diversion point for this application. Records for this well do respond to climatic conditions, that is rising during wet years (recharge) and declining during dry years due to pumping and lack of recharge. Hydrographs for this well and for four other wells (SP-80K, SP-66E, SP-79D and SP-77J) are included with this report. At the present time water levels have been gradually declining since the high readings of 1986 and 1987. The effects of pumping can be seen on SP-66E (aquifer is under artesian conditions at this site) but are not obvious from the other hydrographs. Interference is not a concern (Water Rights, 1991).

Recharge to the Tulare East James is by direct infiltration of rainfall and snowmelt into the aquifer especially where the aquifer is near the land surface and by runoff flowing in creeks and drainages which are in hydraulic connection with the aquifer. Recharge rates were estimated to be approximately 0.83 inches per year (6800 acre feet per year) for the Tulare East James (Kuiper, 1983) and range from 0.38 to 1.52 inches per year with a best fit of 0.76 inches per year by the SDGS (Hedges, 1983). Other ground water contributions to the

Tulare East James are a possible hydraulic connection to an unmapped portion of the aquifer in northern Spink County, a possible connection to the Altamont aquifer to the east, the Niobrara aquifer which directly underlies the Tulare East James in some area and the James River which acts as a discharge zone for the aquifer.

The Tulare East James is a prolific aquifer and specific capacities for irrigation wells range from 20 to 100 gpm/ft of drawdown (Permit Files, 1991). Actual drawdown caused by pumping is not significant even though there are numerous irrigation wells obtaining water from the Tulare East James aquifer.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are 75 existing water permits/rights obtaining water from the Tulare East James aquifer in Spink County (Irrigation Reports, 1989). Water use as reported for 1989 was 11,282 acre feet. The water use average since 1979 (11 years) has been 7477 acre feet per year. This average use is above the estimated average annual recharge. The actual appropriation from the Tulare East James aquifer is 40,813 acre feet per year, but the maximum water use in a given year was 12,866 acre feet in 1981.

There is one other existing irrigation diversion within 1 mile of this diversion (Water Right No. 1050-3). Interference is not expected to be a problem. Both diversions have been used for many years with no apparent problems.

CONCLUSIONS

1. Water is available from the Tulare East James, however, the water use data and the estimates available for the average annual recharge indicate the aquifer is fully appropriated based upon use. This is confirmed by the observation well records for the aquifer which show declining water levels for most of the period of record.
2. Interference is not a problem. This is an existing well and has been in use with no apparent problems.
3. There are two deferred permit applications nos. 3325-3 and 3391-3 for water from the Tulare East James aquifer.
4. The Tulare East James aquifer is under water table conditions in this area. This accounts for the relatively small fluctuations in water levels in the observation wells in this area.
5. The staff has recommended in previous reports that no additional permits be granted from the Tulare East James aquifer. Data collected since, reinforces those conclusions. The Water Management Board has denied a new Application, No. 5396-3 for water from the Tulare East James aquifer.
6. This system is constructed and was found to irrigate 28 more acres than permitted during a routine field inspection to license the permit.

7. The Vested Right 134-3 can be validated and incorporated into 4699-3.
8. Because of the nature of irrigation development and use, changes will occur. Some of these changes will be minor in nature and would reflect a completed system. It may be necessary to consider additional permits to recognize those changes. The goal should be to maintain the annual water used to near the present level. Also, water may become available as permits are abandoned or cancelled.

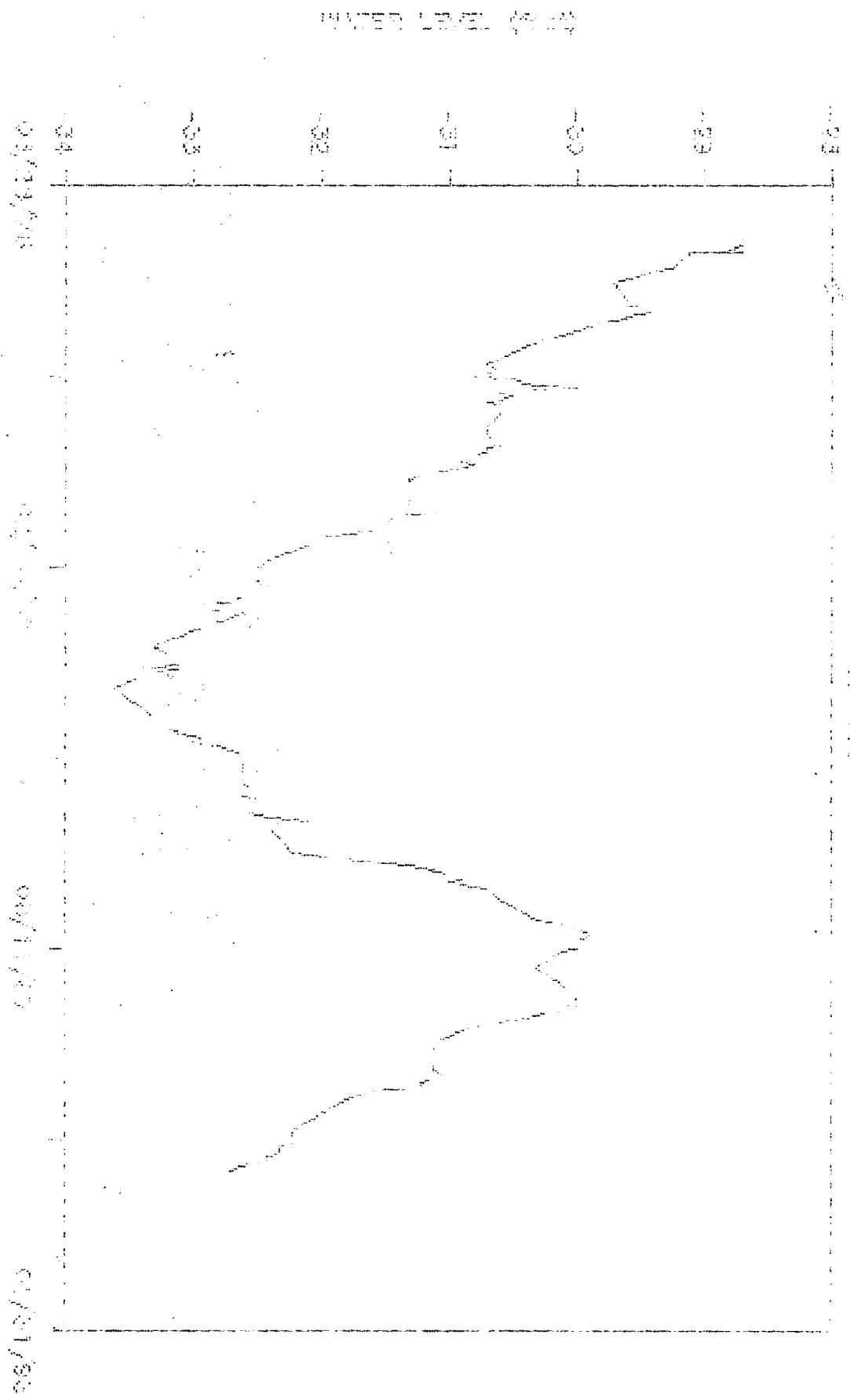

James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Goodman, J.A., 1984, Report on Applications No. 5009-3 Duane Muxon, No. 3178-3 MJT Inc. and No. 2235A-3 Gary D Wipf, SD DENR, Div. of Water Rights, Pierre, SD, 57501.
- 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 DENR, SDGS, Vermillion, SD, 57069.
- Hedges, L.S., 1983, Same, Ground Water Recharge, SD DENR, SDGS, Vermillion, SD, 57069.
- Irrigation Reports, 1989, Irrigation Water Use Summaries for Years 1979 to 1989, SD DENR, Division of Water Rights, Pierre, SD, 57501.
- Kuiper, L.K., 1984, Appraisal of Water Resources of Eastern Part of the Tulare Aquifer, Beadle, Hand and Spink Counties, SD, USGS WRI 84-4078, USGS, Huron, SD, 57350.
- Permit Files, 1991, Water Permit/Right Files for the Tulare East James Aquifer in Spink County, SD DENR, Division of Water Rights, Pierre, SD, 57501.
- Water Rights, 1991, Observation Well Records for the Tulare East James Aquifer in Spink County, SD DENR, Division of Water Rights, Pierre, SD, 57501.

WATER LEVELS OBSERVATION WELLS

8-77



[illegible]

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side.]

30/01/77
 31/01/77
 01/02/77
 02/02/77
 03/02/77
 04/02/77
 05/02/77
 06/02/77
 07/02/77
 08/02/77
 09/02/77
 10/02/77
 11/02/77
 12/02/77
 13/02/77
 14/02/77
 15/02/77
 16/02/77
 17/02/77
 18/02/77
 19/02/77
 20/02/77
 21/02/77
 22/02/77
 23/02/77
 24/02/77
 25/02/77
 26/02/77
 27/02/77
 28/02/77
 01/03/77
 02/03/77
 03/03/77
 04/03/77
 05/03/77
 06/03/77
 07/03/77
 08/03/77
 09/03/77
 10/03/77
 11/03/77
 12/03/77
 13/03/77
 14/03/77
 15/03/77
 16/03/77
 17/03/77
 18/03/77
 19/03/77
 20/03/77
 21/03/77
 22/03/77
 23/03/77
 24/03/77
 25/03/77
 26/03/77
 27/03/77
 28/03/77
 29/03/77
 30/03/77
 31/03/77
 01/04/77
 02/04/77
 03/04/77
 04/04/77
 05/04/77
 06/04/77
 07/04/77
 08/04/77
 09/04/77
 10/04/77
 11/04/77
 12/04/77
 13/04/77
 14/04/77
 15/04/77
 16/04/77
 17/04/77
 18/04/77
 19/04/77
 20/04/77
 21/04/77
 22/04/77
 23/04/77
 24/04/77
 25/04/77
 26/04/77
 27/04/77
 28/04/77
 29/04/77
 30/04/77
 01/05/77
 02/05/77
 03/05/77
 04/05/77
 05/05/77
 06/05/77
 07/05/77
 08/05/77
 09/05/77
 10/05/77
 11/05/77
 12/05/77
 13/05/77
 14/05/77
 15/05/77
 16/05/77
 17/05/77
 18/05/77
 19/05/77
 20/05/77
 21/05/77
 22/05/77
 23/05/77
 24/05/77
 25/05/77
 26/05/77
 27/05/77
 28/05/77
 29/05/77
 30/05/77
 31/05/77
 01/06/77
 02/06/77
 03/06/77
 04/06/77
 05/06/77
 06/06/77
 07/06/77
 08/06/77
 09/06/77
 10/06/77
 11/06/77
 12/06/77
 13/06/77
 14/06/77
 15/06/77
 16/06/77
 17/06/77
 18/06/77
 19/06/77
 20/06/77
 21/06/77
 22/06/77
 23/06/77
 24/06/77
 25/06/77
 26/06/77
 27/06/77
 28/06/77
 29/06/77
 30/06/77
 01/07/77
 02/07/77
 03/07/77
 04/07/77
 05/07/77
 06/07/77
 07/07/77
 08/07/77
 09/07/77
 10/07/77
 11/07/77
 12/07/77
 13/07/77
 14/07/77
 15/07/77
 16/07/77
 17/07/77
 18/07/77
 19/07/77
 20/07/77
 21/07/77
 22/07/77
 23/07/77
 24/07/77
 25/07/77
 26/07/77
 27/07/77
 28/07/77
 29/07/77
 30/07/77
 31/07/77
 01/08/77
 02/08/77
 03/08/77
 04/08/77
 05/08/77
 06/08/77
 07/08/77
 08/08/77
 09/08/77
 10/08/77
 11/08/77
 12/08/77
 13/08/77
 14/08/77
 15/08/77
 16/08/77
 17/08/77
 18/08/77
 19/08/77
 20/08/77
 21/08/77
 22/08/77
 23/08/77
 24/08/77
 25/08/77
 26/08/77
 27/08/77
 28/08/77
 29/08/77
 30/08/77
 31/08/77
 01/09/77
 02/09/77
 03/09/77
 04/09/77
 05/09/77
 06/09/77
 07/09/77
 08/09/77
 09/09/77
 10/09/77
 11/09/77
 12/09/77
 13/09/77
 14/09/77
 15/09/77
 16/09/77
 17/09/77
 18/09/77
 19/09/77
 20/09/77
 21/09/77
 22/09/77
 23/09/77
 24/09/77
 25/09/77
 26/09/77
 27/09/77
 28/09/77
 29/09/77
 30/09/77
 01/10/77
 02/10/77
 03/10/77
 04/10/77
 05/10/77
 06/10/77
 07/10/77
 08/10/77
 09/10/77
 10/10/77
 11/10/77
 12/10/77
 13/10/77
 14/10/77
 15/10/77
 16/10/77
 17/10/77
 18/10/77
 19/10/77
 20/10/77
 21/10/77
 22/10/77
 23/10/77
 24/10/77
 25/10/77
 26/10/77
 27/10/77
 28/10/77
 29/10/77
 30/10/77
 31/10/77
 01/11/77
 02/11/77
 03/11/77
 04/11/77
 05/11/77
 06/11/77
 07/11/77
 08/11/77
 09/11/77
 10/11/77
 11/11/77
 12/11/77
 13/11/77
 14/11/77
 15/11/77
 16/11/77
 17/11/77
 18/11/77
 19/11/77
 20/11/77
 21/11/77
 22/11/77
 23/11/77
 24/11/77
 25/11/77
 26/11/77
 27/11/77
 28/11/77
 29/11/77
 30/11/77
 01/12/77
 02/12/77
 03/12/77
 04/12/77
 05/12/77
 06/12/77
 07/12/77
 08/12/77
 09/12/77
 10/12/77

INTELLECTUAL PROPERTY RIGHTS OFFICE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

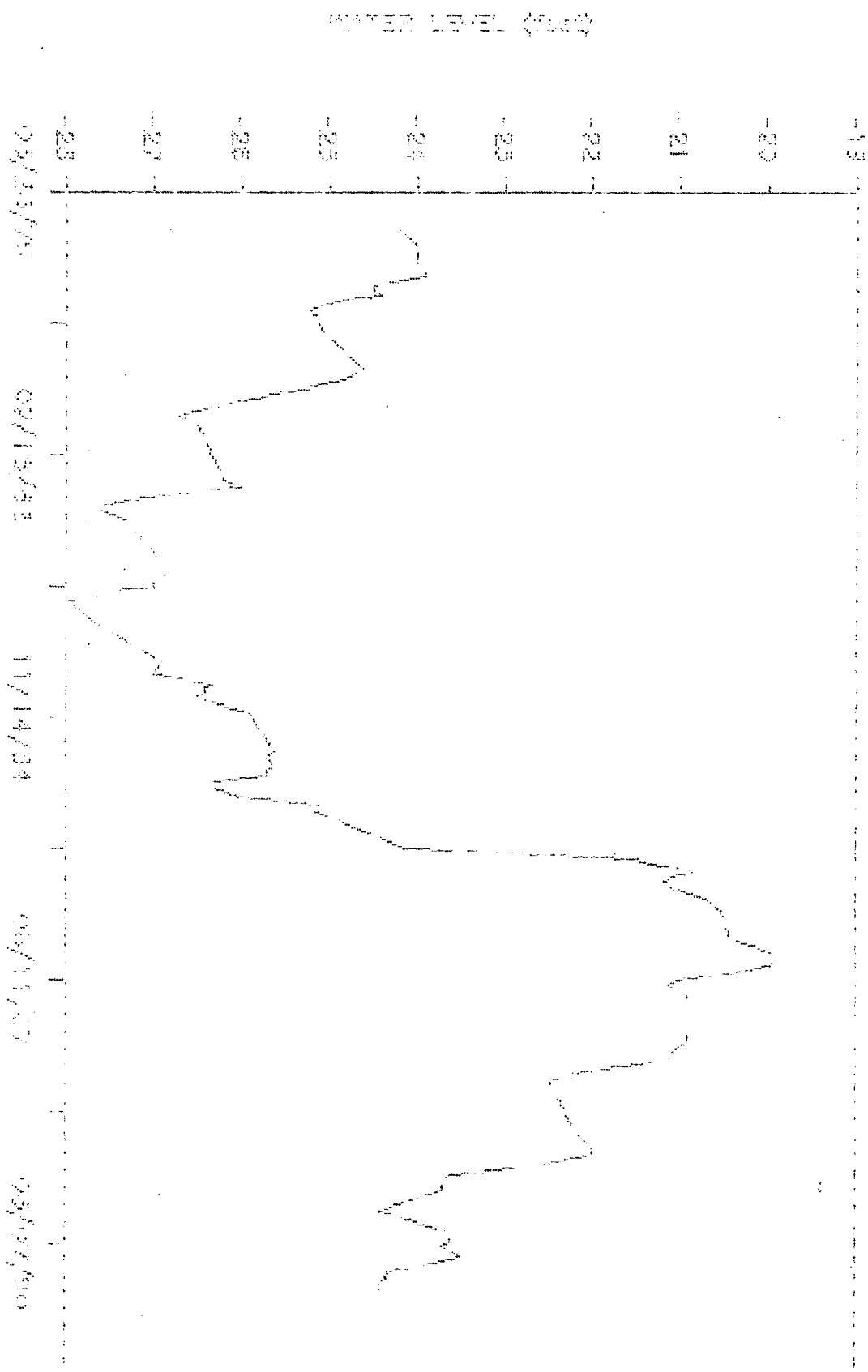
THE UNIVERSITY OF CHICAGO PRESS

[illegible]

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

[illegible][illegible]

WATER LEVELS OBSERVATION WELL SP-001



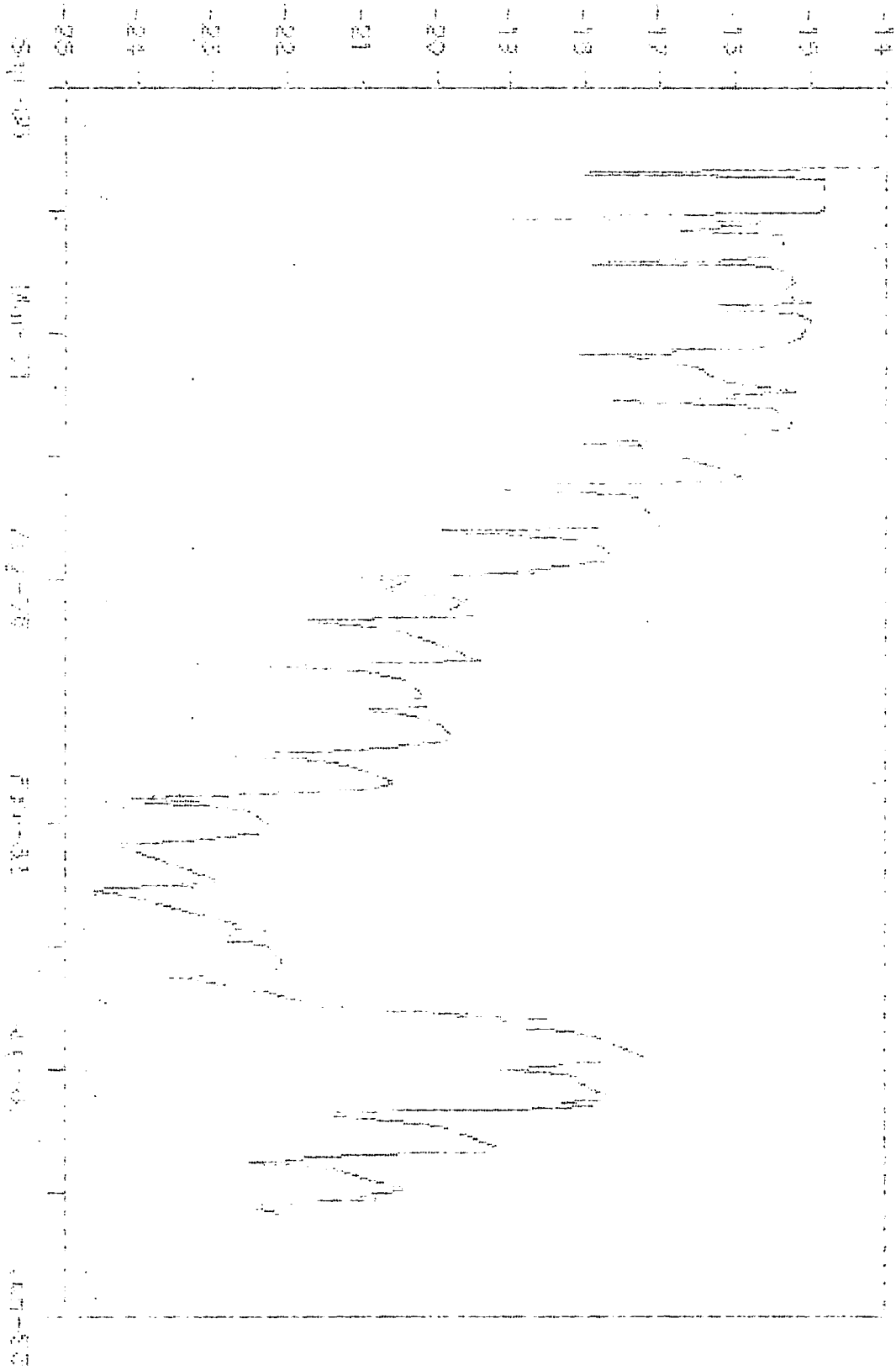
[illegible]

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

[illegible]

1. The first step in the process of creating a new product is to identify a market need. This involves conducting market research to understand what consumers want and what problems they are facing. Once a need is identified, the next step is to develop a concept that addresses this need. This is often done through brainstorming sessions with a team of designers and engineers. The concept is then refined through prototyping and testing, ensuring that it meets the requirements of the market. Finally, the product is launched into the market, and its performance is monitored to ensure it continues to meet the needs of consumers.

WATER LEVEL (ft.)



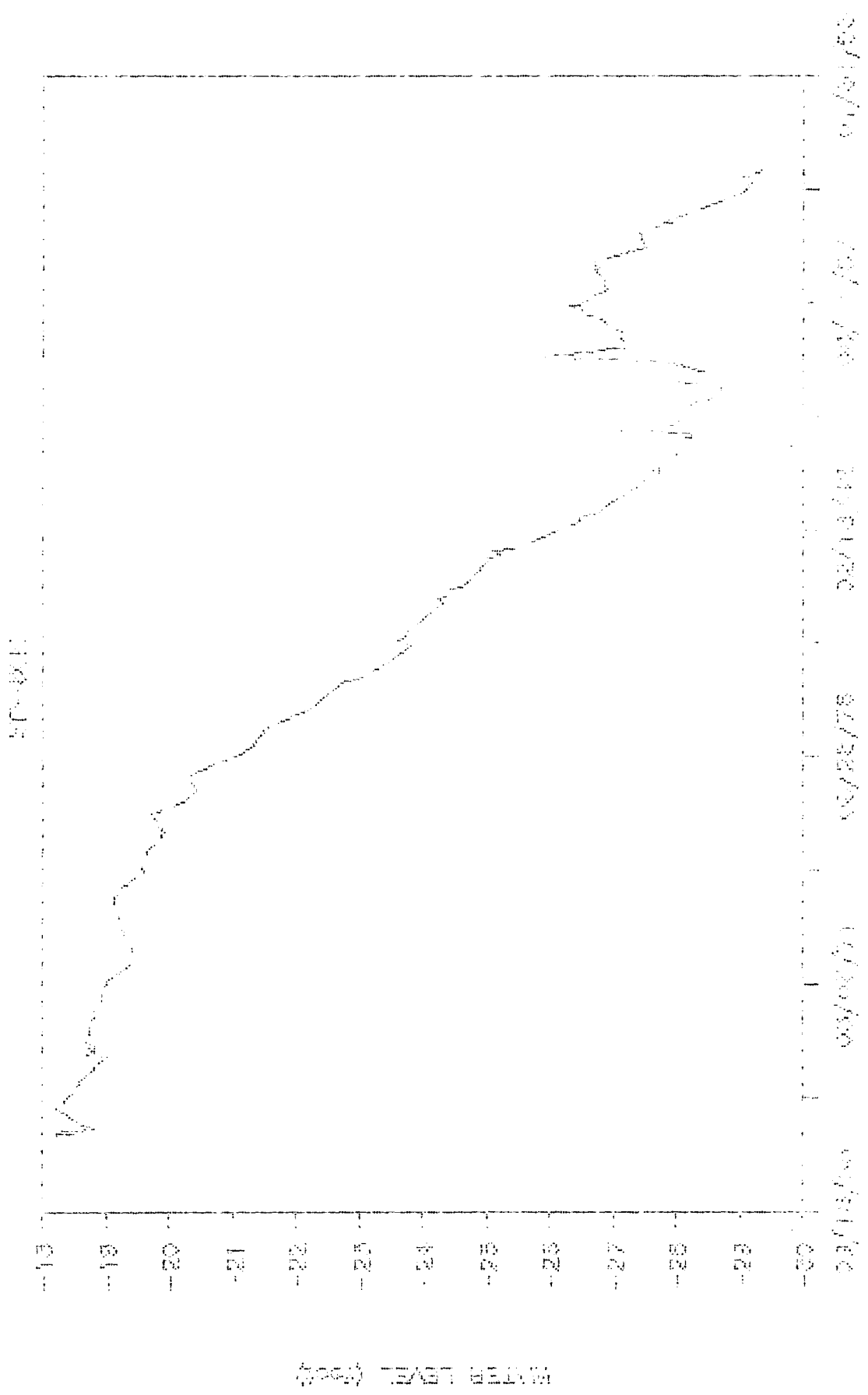
WATER RIGHTS OBSERVATION WELL

[illegible]

[illegible]

[illegible]

WATER RIGHTS OBSERVATION WELL



1. The following information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose.

2. The following information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose.

3. The following information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose.

4. The following information is being provided to you for your information only. It is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose. The information is provided for your information only and is not intended to be used for any other purpose.

[illegible]

01/07/76
02/08/76
03/09/76
04/10/76
05/11/76
06/12/76
07/01/77
08/02/77
09/03/77
10/04/77
11/05/77
12/06/77
01/07/78
02/08/78
03/09/78
04/10/78
05/11/78
06/12/78
07/01/79
08/02/79
09/03/79
10/04/79
11/05/79
12/06/79
01/07/80
02/08/80
03/09/80
04/10/80
05/11/80
06/12/80
07/01/81
08/02/81
09/03/81
10/04/81
11/05/81
12/06/81
01/07/82
02/08/82
03/09/82
04/10/82
05/11/82
06/12/82
07/01/83
08/02/83
09/03/83
10/04/83
11/05/83
12/06/83
01/07/84
02/08/84
03/09/84
04/10/84
05/11/84
06/12/84
07/01/85
08/02/85
09/03/85
10/04/85
11/05/85
12/06/85
01/07/86
02/08/86
03/09/86
04/10/86
05/11/86
06/12/86
07/01/87
08/02/87
09/03/87
10/04/87
11/05/87
12/06/87
01/07/88
02/08/88
03/09/88
04/10/88
05/11/88
06/12/88
07/01/89
08/02/89
09/03/89
10/04/89
11/05/89
12/06/89
01/07/90
02/08/90
03/09/90
04/10/90
05/11/90
06/12/90
07/01/91
08/02/91
09/03/91
10/04/91
11/05/91
12/06/91
01/07/92
02/08/92
03/09/92
04/10/92
05/11/92
06/12/92
07/01/93
08/02/93
09/03/93
10/04/93
11/05/93
12/06/93
01/07/94
02/08/94
03/09/94
04/10/94
05/11/94
06/12/94
07/01/95
08/02/95
09/03/95
10/04/95
11/05/95
12/06/95
01/07/96
02/08/96
03/09/96
04/10/96
05/11/96
06/12/96
07/01/97
08/02/97
09/03/97
10/04/97
11/05/97
12/06/97
01/07/98
02/08/98
03/09/98
04/10/98
05/11/98
06/12/98
07/01/99
08/02/99
09/03/99
10/04/99
11/05/99
12/06/99
01/07/00
02/08/00
03/09/00
04/10/00
05/11/00
06/12/00
07/01/01
08/02/01
09/03/01
10/04/01
11/05/01
12/06/01
01/07/02
02/08/02
03/09/02
04/10/02
05/11/02
06/12/02
07/01/03
08/02/03
09/03/03
10/04/03
11/05/03
12/06/03
01/07/04
02/08/04
03/09/04
04/10/04
05/11/04
06/12/04
07/01/05
08/02/05
09/03/05
10/04/05
11/05/05
12/06/05
01/07/06
02/08/06
03/09/06
04/10/06
05/11/06
06/12/06
07/01/07
08/02/07
09/03/07
10/04/07
11/05/07
12/06/07
01/07/08
02/08/08
03/09/08
04/10/08
05/11/08
06/12/08
07/01/09
08/02/09
09/03/09
10/04/09
11/05/09
12/06/09
01/07/10
02/08/10
03/09/10
04/10/10
05/11/10
06/12/10
07/01/11
08/02/11
09/03/11
10/04/11
11/05/11
12/06/11
01/07/12
02/08/12
03/09/12
04/10/12
05/11/12
06/12/12
07/01/13
08/02/13
09/03/13
10/04/13
11/05/13
12/06/13
01/07/14
02/08/14
03/09/14
04/10/14
05/11/14
06/12/14
07/01/15
08/02/15
09/03/15
10/04/15
11/05/15
12/06/15
01/07/16
02/08/16
03/09/16
04/10/16
05/11/16
06/12/16
07/01/17
08/02/17
09/03/17
10/04/17
11/05/17
12/06/17
01/07/18
02/08/18
03/09/18
04/10/18
05/11/18
06/12/18
07/01/19
08/02/19
09/03/19
10/04/19
11/05/19
12/06/19
01/07/20
02/08/20
03/09/20
04/10/20
05/11/20
06/12/20
07/01/21
08/02/21
09/03/21
10/04/21
11/05/21
12/06/21
01/07/22
02/08/22
03/09/22
04/10/22
05/11/22
06/12/22
07/01/23
08/02/23
09/03/23
10/04/23
11/05/23
12/06/23
01/07/24
02/08/24
03/09/24
04/10/24
05/11/24
06/12/24
07/01/25
08/02/25
09/03/25
10/04/25
11/05/25
12/06/25
01/07/26
02/08/26
03/09/26
04/10/26
05/11/26
06/12/26
07/01/27
08/02/27
09/03/27
10/04/27
11/05/27
12/06/27
01/07/28
02/08/28
03/09/28
04/10/28
05/11/28
06/12/28
07/01/29
08/02/29
09/03/29
10/04/29
11/05/29
12/06/29
01/07/30
02/08/30
03/09/30
04/10/30
05/11/30
06/12/30
07/01/31
08/02/31
09/03/31
10/04/31
11/05/31
12/06/31

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side.]

THE UNIVERSITY OF CHICAGO

WATER RESOURCES DEVELOPMENT UNIT

1. The purpose of this unit is to provide a comprehensive overview of the water resources available in the United States, including the distribution of water resources, the impact of human activities on water resources, and the role of water in the economy and society.

2. The unit is divided into four main sections: (a) the distribution of water resources, (b) the impact of human activities on water resources, (c) the role of water in the economy and society, and (d) the management of water resources.

3. The first section, "The Distribution of Water Resources," discusses the distribution of water resources in the United States, including the distribution of water resources by region, the distribution of water resources by type of water resource, and the distribution of water resources by use.

4. The second section, "The Impact of Human Activities on Water Resources," discusses the impact of human activities on water resources, including the impact of agriculture, industry, and urban development on water resources, and the impact of climate change on water resources.

WATER RIGHTS OBSERVATION WELL

SI-18F



THESE RESULTS ARE STRONG EVIDENCE FOR THE HYPOTHESIS THAT THE EFFECTS OF THE TREATMENT GROUPS ON THE OUTCOME VARIABLE ARE DIFFERENT. THE DIFFERENCE BETWEEN THE TWO GROUPS IS SIGNIFICANT AT THE 5% LEVEL.

[illegible]

1. The first part of the document is a list of names and their corresponding addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Address". The table contains the following data:

Name	Address
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St

3. The third part of the document is a paragraph of text. It describes the purpose of the document and the information it contains. It states that the document is a list of names and addresses, and that it is intended to be used for mailing purposes.

4. The fourth part of the document is a list of names and their corresponding addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

[illegible]

1. The first part of the document is a list of names and their corresponding dates. The names are: "John Doe", "Jane Smith", "Bob Johnson", "Alice Brown", "Charlie White", "David Green", "Eve Black", "Frank Gray", "Grace Pink", "Henry Blue", "Ivy Yellow", "Jack Purple", "Karen Red", "Leo Orange", "Mia Silver", "Noah Gold", "Olivia Bronze", "Peter Copper", "Quinn Iron", "Rory Steel", "Sam Tin", "Tina Lead", "Uma Zinc", "Victor Nickel", "Wendy Platinum", "Xavier Silver", "Yara Gold", "Zoe Bronze". The dates are: "1990-01-01", "1990-02-01", "1990-03-01", "1990-04-01", "1990-05-01", "1990-06-01", "1990-07-01", "1990-08-01", "1990-09-01", "1990-10-01", "1990-11-01", "1990-12-01", "1991-01-01", "1991-02-01", "1991-03-01", "1991-04-01", "1991-05-01", "1991-06-01", "1991-07-01", "1991-08-01", "1991-09-01", "1991-10-01", "1991-11-01", "1991-12-01", "1992-01-01", "1992-02-01", "1992-03-01", "1992-04-01", "1992-05-01", "1992-06-01", "1992-07-01", "1992-08-01", "1992-09-01", "1992-10-01", "1992-11-01", "1992-12-01".

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side.]

THE UNIVERSITY OF CHICAGO PRESS
54 EAST LAKE STREET, CHICAGO, ILL. 60601
U.S.A. AND CANADA
OTHER COUNTRIES: 100 Brook Hill Drive, New York, N.Y. 10023

THE UNIVERSITY OF CHICAGO PRESS
54 EAST LAKE STREET, CHICAGO, ILL. 60601
U.S.A. AND CANADA
OTHER COUNTRIES: 100 Brook Hill Drive, New York, N.Y. 10023

THE UNIVERSITY OF CHICAGO PRESS
54 EAST LAKE STREET, CHICAGO, ILL. 60601
U.S.A. AND CANADA
OTHER COUNTRIES: 100 Brook Hill Drive, New York, N.Y. 10023

THE UNIVERSITY OF CHICAGO PRESS
54 EAST LAKE STREET, CHICAGO, ILL. 60601
U.S.A. AND CANADA
OTHER COUNTRIES: 100 Brook Hill Drive, New York, N.Y. 10023

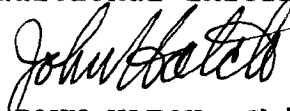
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5529-3, Daryle Starr

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 5529-3, Daryle Starr, RR 1, Box 42, Frankfort, SD 57440.

The Chief Engineer is recommending APPROVAL of Application No. 5529-3 because 1) with no change in diversion rate, there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) will not be unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The wells 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.
2. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
3. Approval of Permit No. 5529-3 does not authorize any increase in the 2.22 cfs diversion rate.

See report on application for additional information.



JOHN HATCH, Chief Engineer
June 11, 1991



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

June 13, 1991

Daryle Starr
RR 1 Box 42
Frankfort, SD 57440

Dear Mr. Starr:

Water Permit Application No. 5529-3 for irrigation 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 Doland Times-Record printed at Doland, SD. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are 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. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 13, 1991

Doland Times-Record
Box 387
Doland, SD 57436

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5529-3 to be published twice. Please publish the first notice on June 20, 1991, 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 Daryle Starr, RR 1, Box 42, Frankfort, SD 57440.

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. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

TO: Eric Gronlund
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 June 20, 1991, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5529-3 to Appropriate Water
to Amend Water Permit No. 4699-3

Notice is given that Daryle Starr, RR 1, Box 42, Frankfort SD 57440 has filed an application for a water permit to irrigate 28 additional acres. Water Right No. 134-3 and Water Permit No. 4699-3 appropriates 2.22 cubic feet of water per second from one well 95 feet deep (Tulare East James Aquifer) located near the center of the SE 1/4 Section 8 to irrigate 160 acres located in the SE 1/4 Section 8; all in T116N-R61W. This application is to irrigate 28 additional acres located in the NE 1/4 SW 1/4, SE 1/4 SW 1/4 Section 8-T116N-R61W from the existing well. This application, if approved, does not authorize any increase in the diversion rate.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5529-3 because 1) with no change in diversion rate, 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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by July 8, 1991. 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 the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 5529-3 and 2) the chief engineer's recommendation, a special Board meeting is scheduled for July 17, 1991, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the July 17, 1991, hearing date may be rescheduled for another Board meeting. If the hearing is rescheduled, notice of the time and place will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The July 17, 1991, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by July 8, 1991.

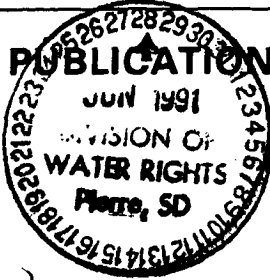
If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. 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. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

(Continued)

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 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, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County Spink) ss.1. Alyce L. Milescertify that the attached printed Notice was taken
from the The Times-RecordA newspaper which during the whole time of publication of
said notice herein after stated, has been and is printed and
published in the Cityof DolandCounty of Spink and State of South Dakota;
that the said notice was published in said newspaper on the
following two dates:June 20, 1991June 27, 1991Alyce L. Miles

(Signature)

Editor

(Title)

June 27, 1991

(Date Signed)

Cost of Printing: 47.93 1st Printing
38.34 2nd Printing
86.27 Totals

NOTICE OF HEARING on Application No. 5529 - 3 to Appropriate Water to Amend Water Permit No. 4699 - 3

Notice is given that Daryle Starr, RR 1, Box 42, Frankfort, S. D. 57440 has filed an application for a water permit to irrigate 28 additional acres. Water Right No. 134 - 3 and Water Permit No. 4699 - 3 appropriates 2.22 cubic feet of water per second from one well 95 feet deep (Tulare East James Aquifer) located near the center of the SE 1/4 Section 8 to irrigate 160 acres located in the SE 1/4 Section 8; all in T116N - R61W. This application is to irrigate 28 additional acres located in the NE 1/4 SW 1/4, SE 1/4 SW 1/4 Section 8-T116N - R61W from the existing well. This application, if approved, does not authorize any increase in the diversion rate.

Pursuant to SDCL 46 - 2A - 2, the Chief Engineer recommends APPROVAL of Application No. 5529 - 3 because 1) with no change in diversion rate, 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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written

157 Lines
8pt
13 Em.

petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre, S. D. 57501 (605 73-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by July 8, 1991. 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 the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 589-3 and 2) the chief engineer's recommendation, a special Board meeting is scheduled for July 17, 1991, at 10:00 a.m. in Room 413, Joe Foss Building, 523 E Capitol, Pierre, S. D. If this application is opposed or the recommendation is contested, the July 17, 1991, hearing date may be rescheduled for another Board meeting. If the hearing is rescheduled, notice of the time and place will be given by First Class Mail to the applicant and persons filing petitions. Anybody not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The July 17, 1991, hearing date will automatically be delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by July 8, 1991.

If a hearing is held, 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 hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. 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. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 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, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

(Two publications: June 20 & 27, 1991)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

SEP 16 1991

Daryle Starr
RR 1 Box 42
Frankfort, SD 57440

Dear Mr. Starr:

Enclosed is Water Permit No. 5529-3 authorizing your water diversion system and the application of water beneficial use, not exceeding the limits as specified in the Water Permit.

The final inspection has been completed on this Permit, and we are ready to issue the Water License. Statutes require we charge \$50 for the inspection and issuance of the final papers. Upon receipt of this amount the Water License will be sent to you.

Very truly yours,

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

enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

412838

Pierre, September 20, 1991

RECEIVED OF Daryle or Marian Starr, Rt 1, Box 42, Frankfort, SD 57440-9606

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>5529-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By

John Hatch

Chief Engineer

Starr
10-14-88

LICENSE FOR PERMIT NUMBER 4699-3

1. Legal location of wells: (Approx. center) ^{SW 1/4} SE 1/4 8-116-61
≈ 300' west of center of SE 1/4

dams & structures: _____

2. Well Information: Well Drilling Firm Huron Drilling

No. of wells 1 Depth ≈ 80'

Casing a) diameter 15" Screen a) type S.S.

b) length — b) length 20'

c) type Plastic Static Water Level _____

Pump a) make Aurora Vertiline Motor a) make Gen. Elec.

b) model 38172403 b) ~~model~~ ^{Model} no. No. 5K6255XM501C

c) size — c) horsepower rating 75

d) capacity 1000 GPM d) motor efficiency rating _____

e) turbine pump
no. of stages —

3. Distribution lines:

a) size of lines 8"

b) type Steel

c) length 10'

Daryle Starr
RR 1, Box 42
Frankfort, SD 57440
472-1568

4. Dam information:

a) height to crest _____

b) height to spillway _____

c) crest width _____

d) crest length _____

e) spillway length _____

f) spillway width _____

g) approx. storage _____

h) Distribution lines or canals:

1) size _____

2) type _____

3) length _____

- i) Outlet tubes:

1) diameter _____

2) type _____

3) valued (Y/N) _____

4) valve type _____

5) location on structure _____

5. System Type: a) sideroll:

1) length _____ feet

2) diameter of pipe _____

3) make, model & number of sprinklers _____

4) spacing of sprinklers _____

5) nozzle size _____

- b) towline:

1) length _____ feet

2) make, model & number of sprinklers _____

3) spacing of sprinklers _____

4) nozzle size _____

5. System Type: c) center pivot

- Model
6580 SAC
Sen. No.
881C 8043
- 1) make Reinke Electrogator
 - 2) number of towers 9 (8+Corner)
 - 3) distance between towers _____
 - 4) overall length _____
 - 5) End gun (Y/N)
 - 6) high or low pressure _____
 - 7) make & size of nozzles _____
 - 8) PSI reading while system is running 80
 - 9) GPM 1000

g) Gun

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____
- 6) hose size _____
- 7) hose length _____

d) Gate Pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

e) Siphons

- 1) number _____
- 2) size _____

f) Portable boom

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____

h) Hydromatic

- 1) make _____
- 2) model _____
- 3) serial number _____
- 4) length _____
- 5) nozzle size _____
- 6) spacing _____
- 7) PSI _____
- 8) capacity (GPM) _____

YES

NO

Check Items

- | | | |
|-------|-------|---|
| _____ | _____ | 1. Soil and water permit lands agree with lands being irrigated and lands listed on permit. |
| _____ | _____ | 2. Special Qualifications to permit being abided by. |
| _____ | _____ | 3. All Structures, wells and lands on map. |

REMARKS:

Good Shape

Permit No. 5529-3 (will incorporate 134-3/4699-3)
James River - Water District

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

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

I have this day made a thorough examination of the water use system constructed by Daryle Starr of RR #1 Box 42, Frankfort, SD 57440 holder of Permit No. 134-3, 4699-3 & 5529-3, bearing the priority of December 9, 1953, February 27, 1981 and April 21, 1991 authorizing the diversion of 1.30, 0.92 and no add'l cu. ft. per second of the waters of groundwater (one well) for irrigation purposes, in Spink County.

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

June 12, 1954

A. Works used to divert the water:

One well - 80 feet deep; 15" plastic casing; 20 feet of stainless steel screen; Aurora Vertiline pump - 1000 gallons per minute capacity

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

distribution line: 10 feet of 8 inch steel

C. Works used to apply water to beneficial use:

Reinke Electroqator Center Pivot with end gun (8 tower plus corner); 1000 gallons per minute capacity

The system is in the following condition: Good.

The point of diversion is located approximately 300 feet west of the center of the SE 1/4 Section 8, T116N, R61W (SW 1/4 SE 1/4).

The works are capable of diverting and conveying to the place of use 2.22 cu. ft. per second of water which is to be used for irrigation purposes. Water has been put to beneficial use to the maximum extent as follows:

NE 1/4 SW 1/4	14 acres;	NE 1/4 SE 1/4	35 acres
SE 1/4 SW 1/4	14 acres;	NW 1/4 SE 1/4	40 acres
		SW 1/4 SE 1/4	22 acres
		SE 1/4 SE 1/4	35 acres

all in Section 8, T116N, R61W

comprising a total of 160.00 acres of land and the license should be issued for 2.22 cfs.

The applicable permit qualifications have been complied.

Exceptions to compliance are: none Date: October 14, 1988

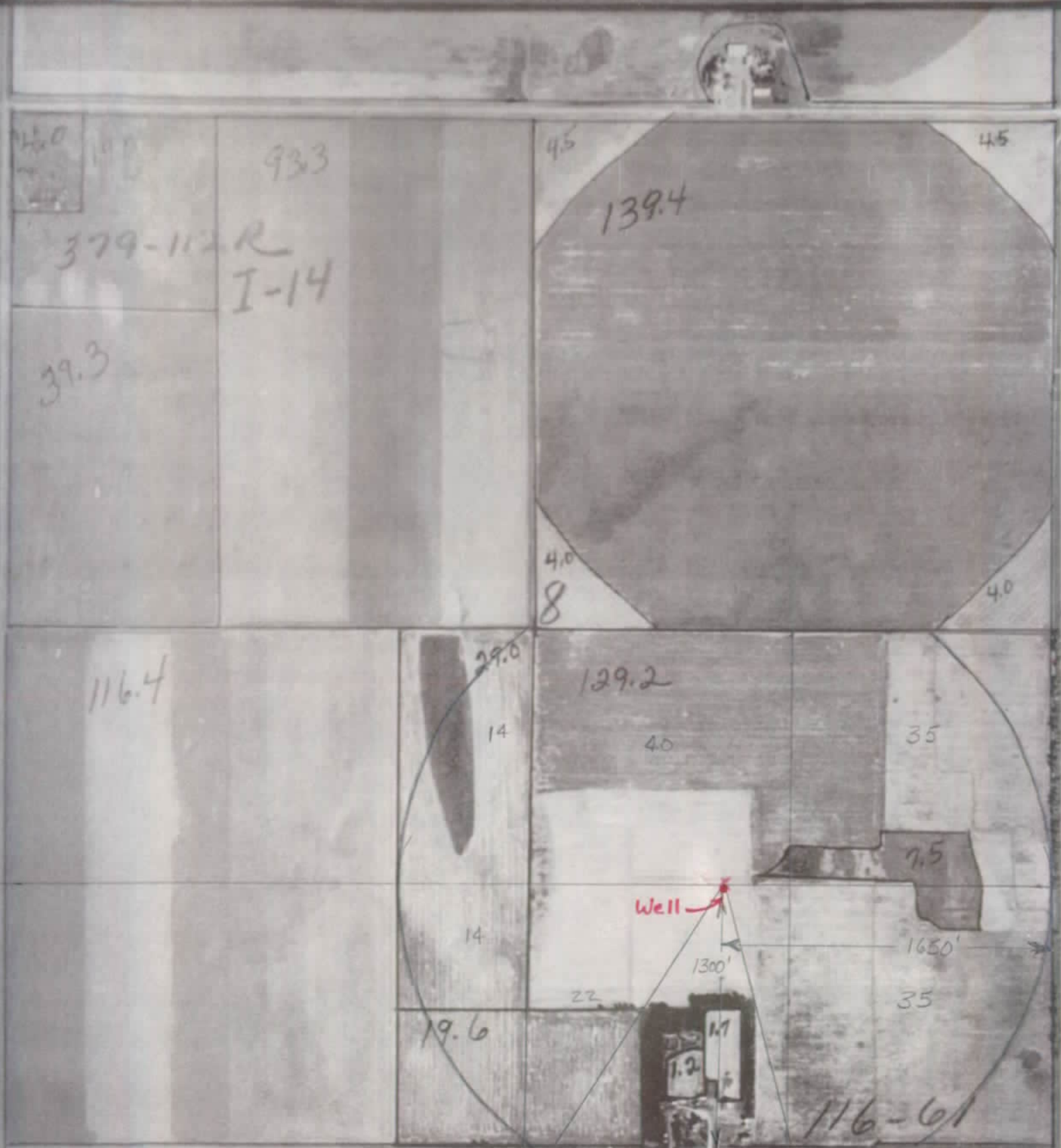
The above described irrigation system was inspected by Jim Wendte on October 14, 1988. Water Permit No. 5529-3 was approved July 17, 1991 to authorize irrigation of 28 acres in the E 1/2 SW 1/4 Section 8 that were developed but not permitted under Nos. 134-3 and 4699-3.

Inspection report reviewed by

Sale N. Selken

Appl. No. 5529-3

NOT TO SCALE



James L. Wendt
N.R. Engineer
10-20-88

5529-3

STATE OF SOUTH DAKOTA

PARTIAL VESTED WATER LICENSE NO. 5529-3

(1) Daryle Starr, of RR #1 Box 42, Frankfort, SD 57440 made Application No. 5529-3, November 8, 1988 for a water permit to appropriate no additional cubic feet of water per second (cfs) from groundwater (one existing well), Spink County South Dakota for irrigation purposes. Permit No. 5529-3, with a priority date of April 22, 1991 was approved and issued to the applicant for diversion of water with construction of the described water supply system completed and the application to beneficial use of said water completed.

Water Permit No. 5529-3 authorizes irrigation of an additional 28 acres that were developed, but not permitted under Water Permit No. 4699-3 or Vested Right No. 134-3. No. 5529-3 did not allow for an increase in the developed diversion rate of 2.22 cfs.

Vested Right No. 134-3 was validated September 30, 1992 for diversion of 1.30 cfs of water from one well to irrigate 92 acres. Water Permit No. 4699-3 authorized a change in the point of diversion and the irrigation of additional acres from that described in Vested Right No. 134-3.

The applicable portions of Vested Right No. 134-3 and Water Permit No. 4699-3 have been incorporated into this Water License No. 5529-3. Priority dates, as they pertain the acres irrigated are described in (3) of this license.

(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 2.22 cubic feet of water per second for beneficial use. The location of the diversion point is in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ - approximately 300 feet west of the center of the SE $\frac{1}{4}$ of Section 8, T116N, R61W.

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land: all in Section 8, T116N, R61W

NE $\frac{1}{4}$ SW $\frac{1}{4}$	14 acres	April 21, 1991 priority
SE $\frac{1}{4}$ SW $\frac{1}{4}$	14 acres	"
NE $\frac{1}{4}$ SE $\frac{1}{4}$	35 acres	<u>92 acres:</u> June 12, 1954
NW $\frac{1}{4}$ SE $\frac{1}{4}$	40 acres	priority date
SW $\frac{1}{4}$ SE $\frac{1}{4}$	22 acres	<u>remaining 40 acres:</u> February
SE $\frac{1}{4}$ SE $\frac{1}{4}$	35 acres	27, 1981 priority date
Total	160 acres	

April 21, 1991 priority was established under Water Permit No. 5529-3

June 12, 1954 priority was established under Vested Right No. 134-3

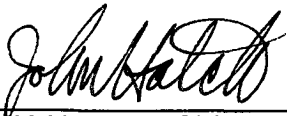
February 27, 1981 priority was established under Water Permit No. 4699-3

PARTIAL VESTED WATER LICENSE NO. 5529-3

PAGE 2

DARYLE STARR

(4) Pursuant to South Dakota Water Law 46-5-30.1 Daryle Starr of RR #1 Box 42, Frankfort, SD 57440 the holder and/or owner of Incorporated Water Permit No. 5529-3 is issued a license to appropriate water, the right to use 2.22 cubic feet of water per second from groundwater (one well) with priority dates of June 12, 1954, February 27, 1981 and April 21, 1991 from the location specified in (2) of this license. The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Incorporated Water Permit No. 5529-3 and subject to South Dakota State Law.



SEP 17 1993

JOHN HATCH, Chief Engineer

Water Rights Division

Department of Environment and Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

SEP 17 1993

5529-3

Daryle Starr
RR 1, Box 42
Frankfort, SD 57440

Dear Mr. Starr:

Enclosed is Water License No. 5529-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 412838 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 5529-3, 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 License, 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 Division
(605) 773-3352

gm
enclosures

NOTE: The applicable portions of Vested Right No. 134-3 and Water Permit No. 4699-3 have been incorporated into this Water License No. 5529-3.



January 9, 1998

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

 JOE FOSS BUILDING
 523 EAST CAPITOL
 PIERRE, SOUTH DAKOTA 57501-3181
NOTICE
TO: DARYLE STARR, RR 1 BOX 42, FRANKFORT, SD 57440

FROM: Ron Duvall, Natural Resources Engineer
 for John Hatch, Chief Engineer
 Water Rights Program

SUBJECT: Reporting Requirement for 1997 Irrigation Questionnaires

Our records indicate that the 1997 Irrigation Questionnaires have not been submitted for Permit Nos. 5529-3, 2561-3. The request for the Questionnaires was dated October 17, 1997. The Water Management Board has directed that owners of water permits who have not submitted the 1997 Irrigation Questionnaires be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine if Permit No(s) 2561-3 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 5529-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at 9:45 am, February 25, 1998 in Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol, Pierre, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 5529-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 2561-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

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

If the questionnaires are received in this office on/or before February 20, 1998, you will no longer be in violation of your permit and your name will be deleted from the Board agenda. If you have questions or need assistance in completion of the irrigation questionnaire(s), please contact Genny McMath (605) 773-3352.

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 29, 1998

2561-3
5529-3

Daryle Starr
39864 US Hwy 212
Frankfort SD 57440-6802

Dear Mr. Starr:

I am writing to acknowledge receipt of your 1997 irrigation questionnaires. You may disregard the January 9, 1998, "Notice" concerning reporting requirements for Water Permit Nos. 2561-3 and 5529-3.

The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

5529-3



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

November 14, 2022

1247-3
4845-3
5529-3

Dexter Wipf
17952 SD Hwy 37
Frankfort SD 57440

Dear Mr. Wipf:

Enclosed are three irrigation questionnaires for land authorized for irrigation under Water Right Nos. 1247-3, 4845-3 and 5529-3.

They were originally sent to Brandon Wipf who indicated they no longer rent the ground. I spoke with LeAnne Bawek who indicated the forms should be forwarded to you.

The legal descriptions are listed on each form towards the bottom. Please take a few minutes and complete the forms with any irrigation information you have for calendar year 2022. Once completed, please return the forms to our office in the enclosed envelope by **December 5th**.

If you need assistance in completing the forms, please contact me and I will try to help. I have enclosed a copy of one of the forms from last year to give you an idea on what type of information is needed. Thank you in advance.

Sincerely,

Genny McMath
Water Rights Program
605 773-3352
Genny.mcmath@state.sd.us