

Considered: _____

WATER PERMIT NO. 5228-3 32

HAP No. Same 458-2432

Name of Applicant Roy Mehling

Post Office Address RR2, Box 70, Wessington, SD 57381

Amount of Water Claimed 0.42 cfs Total Acres 30

Source of Water Supply groundwater

Water to be used for irrigation County Hand

About 4 miles south of Wessington

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved 12/8/88 Subject to _____

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

PRIORITY Date Received _____ Fee 150⁰⁰ Remarks This appl.

8/5/88 proposes to add 30 acres to Permit No. 4825-3 that had previously had a s/w problem
Corrected Application Received Sept 15, 1988 Period of Annual Use Mar 1 - Oct 1

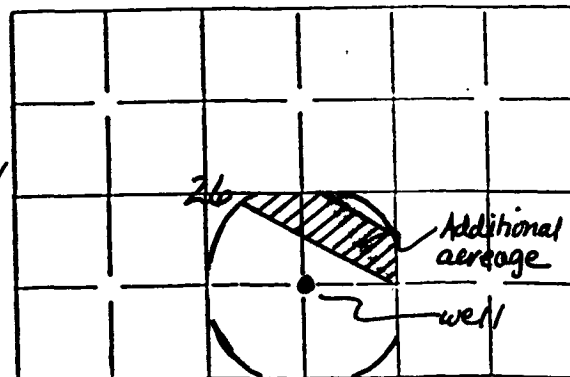
WATER QUALITY APPROVAL RECEIVED _____ APPROVED CONDITIONAL (Circle one)

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

Diversion Point _____

Center of SE 1/4 - Sect. 26 - T11N - R66W

Land to be Irrigated NE 1/4 SE 1/4 - Sect. 26 - T11N - R66W
NW 1/4 SE 1/4 - "



Well Log: Driller Huron Drilling Licensed YES X NO _____

Depth of Well 153' REMARKS _____

Type of Map aerial photo PREPARED BY Jim Wendt Reviewed and the Number assigned on Sept. 25, 1988 By Dusan A. Baird

(See instructions)

No. 5228-3 Hydrologic Unit 10160006
Basin James R.
Newspaper Miller Press Box 196 57362
(med)



Application for Soil/Water Compatibility Permit and Permit To Appropriate Water

- ☒ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☒ Add Acreage ☐ Increase diversion rate ☒ Other See Permit No. 4825-3

- Name of Applicant Roy Mehling Phone No. 458-2432
- Post Office Address RR 2, Box 70, Wessington, South Dakota State 57381 Zip Code _____
(Street, RR or Box) (City)
- Amount of water claimed (c.f.s.) 0.42 Total acres irrigated 30
- Source of Water supply groundwater (1 well)
- Location of point of diversion Center of SE 1/4 Section 26, T11N, R66W
- County Hand
- Counties where water will be used Hand
- Annual period during which water is to be used March 1 - October 31
- 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.
<u>NE 1/4 Section 26 T11N R66</u>	<u>25</u>
<u>NW 1/4 Section 26 T11N R66</u>	<u>5</u>

Land Description	No. Acres Irr.

Attach sheet if more space is needed

- Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: X Gun: _____ Other: _____ (Specify)
- Crops to be Irrigated: Corn, alfalfa, and Small Grain
- Give a description of proposed project. (Attach sheet if more space is needed)

This application proposes to add acreage which was omitted from Permit No. 4825-3 due to a problem with soil/water compatibility.

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 Hand ss

I, Roy Mehling, 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 Roy Mehling

Subscribed and sworn to before me this 29th day of July 1988

Jeff Reinhardt
Notary Public

Comm. Expires 3-18-93

**SOUTH DAKOTA
WATER PERMIT FOR IRRIGATION**

Date of first receipt of application August 5, 1988

Date Soil/Water Compatibility Permit received September 15, 1988

Date of return to applicant for correction, amendments or changes required _____

Date of receipt of corrected application _____

The Water Management Board approved Water Permit Application No. 5228-3

on December 8, 1988 for Roy Mehling

(Applicant)

RR 2 Box 70

(Street, RR or Box)

Wessington

(City)

SD

(State)

57381

(Zip Code)

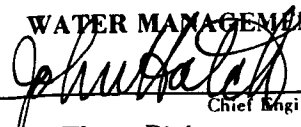
authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5228-3 appropriates 0.42 cubic feet of water per second from one existing well, 153 feet deep, to irrigate 30 acres in addition to that authorized by Water Permit No. 4825-3. This permit also specifies the correct location of the existing well. The acreage is located in the N $\frac{1}{2}$ SE $\frac{1}{4}$ and the well is in the center of the SE $\frac{1}{4}$; both in Section 26, T111N-R66W.
2. The amount of the appropriation may not exceed 2 acre feet per acre per year or one-seventieth (1/70) cubic feet of water per second 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: March 1 - October 1
3. The date from which applicant may claim the right is August 5 1988
4. One-fifth of the construction is ~~to be completed on or before~~ _____
5. All construction is ~~to be completed on or before~~ _____
6. Water is ~~to be~~ put to beneficial use ~~on or before~~ _____
7. 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.

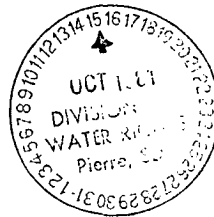
WATER MANAGEMENT BOARD

By: 

Chief Engineer

MAR 10 1989

Division of Water Rights
Dept. of Water and Natural Resources



D. Well Information

- (1) Drill Hole, Diameter 30', Depth 148'
- (2) Casing, Type Plastic, Diameter 16", Thickness .500
(wood, concrete, steel, etc.)
- (3) Screen, Type Slotted, Diameter 16", Length 20'
- (4) Gravel Pack, Thickness 7", Length of gravel pack Top to Bottom

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

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

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

Depth to top of water bearing material 40'

Depth to bottom of water bearing material 148'

Depth to water (ground surface to water level) 40'

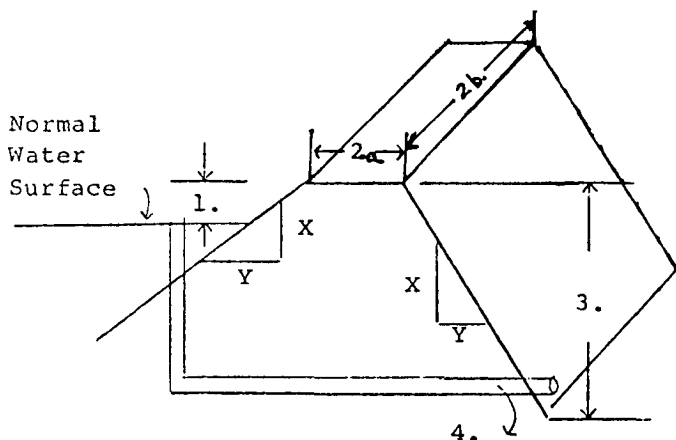
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property 560 rds.

On property owned by others 160 rds.

G. Water Storage Dams

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



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

Roy Mehling
Signature of Applicant

NOT TO SCALE

T 1305

①
67.4

②
143.2

26

③
23.4

④
16.8

T 1534

Well

①
154.0
- 1.2
152.8

Appl. No. 5228-3

G. 15
111-66

⑤
52.1

T 2468

James L. Wendt
N.R. Engineer
7-21-88

T 2151

①
21.1

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, August 5, 1988

411343

RECEIVED OF Roy Mehling, RR 2, Box 70, Wessington, SD 57381

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

Fee for Application for Permit No. <u>5228-3</u> to Appropriate Water, to construct works and to put water to beneficial use	150	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	150 00

By

Chief Engineer

John Hatch

JOHN HATCH

MS



Department of Water & Natural Resources

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

July 22, 1988

Roy Mehling
RR 2, Box 70
Wessington, SD 57381

Dear Mr. Mehling:

I am writing in regard to our conversation on June 28, 1988 concerning your Water Permit No. 4825-3 which covers the SE1/4 of Section 26, T111N, R66W. During my final inspection, I discovered that you are irrigating about 30 acres which is not covered by your water permit or soil/water compatibility permit. This problem arose when the State Conservation Commission did not approve the soil/water compatibility for the 30 acres in question. Therefore, the 30 acres was removed from both the soil/water compatibility permit and water permit.

In an attempt to clear up the discrepancy, I have partially completed a new application for you. This application describes the 30 acres which was removed from your original permit. There is no guarantee that you will receive soil/water compatibility approval with this application, but it is a good place to start. If the soil/water compatibility is disapproved, I am unsure as to what course of action would follow. However, as I stated, this is the place to begin.

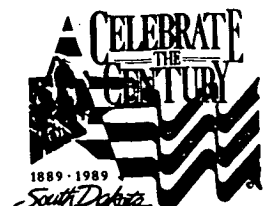
You must complete and review both copies of FORM 2. Both copies should be signed and notarized. There is a \$150.00 fee required for this application. You must also submit a water sample to Brookings as described in #4 on the instruction sheet. You will not be required to submit FORM 2A or the soils information since we already have this information. Simply return both copies of FORM 2, the map and fee to our office and send the water sample to Brookings. We can then continue with the process of attempting to clear up the discrepancy so that we can issue your final water license for your water right. If you have any questions, please contact us.

Sincerely,

James L. Wendte

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

enc



Date _____

HURON DRILLING INC. DRILLERS LOG

Wessington, SD

PAGE NO. 1 of 1

Roy Nehling		SIX-26-111-66-Hand Co.	4-5-82	23	Dennis Duvall
JOB NAME		LOCATION	DATE	RIG NO.	FOREMAN
DEPTH	TIME	REMARKS			
10		0-2 Topsoil			
20		2-43 Yellow Clay			
30		43-86 Blue Clay with traces of sand and coal Rocks @ 78-80			
40		86-119 Sticky Blue Clay			
50		119-127 Medium Sand 2" Water Loss			
60		127-153 Course Sand and Gravel Good Water Loss			
70					
80					
90					
100					
110					
120					
130					
140					
150					
153	T.D.				

Wessington, SD

WELL REPORT

HURON
DRILLING CO.
Huron, S.D.

317

Roy Nehling

SIX-26-111-66-Hand Co.

April 9, 1982

OWNER

DESCRIPTION

DATE

CASING LOG

Depth	153	ft.	153	ft.	16" Elastic	pipe to	133	ft.
Flows		gpm		ft.	16" Johnson	pipe to	153	ft.
Pumps		gpm		ft.	21 Screen #70 Slot	pipe to		ft.
Head		ft.		ft.	20 ft. Johnson 21 Screen #70 Slot - Bottom	pipe to		ft.
Perforations				ft.		pipe to		ft.

Pressure

11-11

REMARKS

5 Days

Drilling Time

1 - 30" long bit

Rig No. 23

Dennis Duvall

Foreman



HURON DRILLING INC. DRILLERS LOG

PAGE NO.

[illegible]

REPORT ON APPLICATION NO. 5228-3
ROY MEHLING
October 21, 1988

This application is to specify the location of a diversion point (well) and to add 30 additional acres. Water Permit No. 4825-3 authorized irrigation of portions of the SE 1/4 from one well located in the SE 1/4 SE 1/4; all in Section 26, T111N, R66W. The actual location of the existing well is the center of the SE 1/4 and the 30 additional acres are located in the NE 1/4 SE 1/4; all in Section 26, T111N, R66W in Hand County. This application appropriates an additional 0.42 cfs from an existing 153 feet deep well for irrigating the 30 additional acres.

Aquifer - Bad-Cheyenne (BC)

The Bad-Cheyenne Aquifer is a buried, interconnected system of pre-glacial and ice-marginal river channels. The aquifer consists of outwash and alluvium consisting of sands and gravels (Koch, 1980). The aquifer is under artesian conditions in this area. The BC Aquifer underlies 64,000 acres in Hand County and contains 384,000 acre feet of recoverable water (Hedges, 1982).

The Division of Water Rights monitors 2 observation wells HC-77A and BD-76F in this general area (Water Rights Division, 1988). Hydrographs for these wells are included with this report. Water levels in these wells are included with this report. Water levels in these wells demonstrate fluctuations caused by pumping but in general have risen because of the good recharge years of 1985 and 1986.

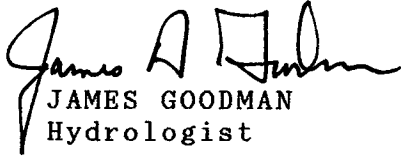
Review of Existing Water Permits

The nearest permit diversion point is about 1 3/4 miles away. This is an existing well and has been in use with no apparent problems. Water levels do fluctuate and interference is happening but this is not adversely affecting the water supply from the aquifer. The observation well data illustrates the general affects pumping has upon the aquifer.

Conclusion

1. Water is available from the BC Aquifer.
2. The aquifer is under artesian conditions and water levels will fluctuate due to pumping. This is a completed system and has been in use. There will be no additional pumping as a result of this application. There should not be any adverse effect on existing water users.
3. This is an existing well with sand and gravel from 119 feet to 153 feet below the land surface.

4. The purpose of this application is to clarify an error of soil and water compatibility.


JAMES GOODMAN
Hydrologist

Bibliography

Hedges, L.S., Etal., 1982, Evaluation of Ground Water Resources Eastern South Dakota and Upper Big Sioux River SD and Iowa, for US Army Corps of Engineers, DWNR, SDGS, Vermillion SD.

Koch, N.C., 1980, Geology and Water Resources of Hand and Hyde Counties, South Dakota Part II: Water Resources, SDGS Bulletin 28, USGS, Huron SD.

Water Rights Division, 1988, Observation Well Records for BC Aquifer, Hand and Beadle Counties, DWNR, Division of Water Rights, Joe Foss Building, Pierre SD 57501.

OBSERVATION WELL WATER LEVELS
OBS_WELL LOCATION DATE READING

13:58 THURSDAY, OCTOBER 20, 1988 1

HD-77A	111N-66W-14DCCC	12/01/77	-39.2
HD-77A	111N-66W-14DCCC	05/31/78	-37.5
HD-77A	111N-66W-14DCCC	06/14/78	-37.5
HD-77A	111N-66W-14DCCC	06/27/78	-37.5
HD-77A	111N-66W-14DCCC	07/18/78	-37.9
HD-77A	111N-66W-14DCCC	07/27/78	-37.6
HD-77A	111N-66W-14DCCC	08/18/78	-38.3
HD-77A	111N-66W-14DCCC	09/08/78	-39.3
HD-77A	111N-66W-14DCCC	09/29/78	-39.0
HD-77A	111N-66W-14DCCC	10/18/78	-38.5
HD-77A	111N-66W-14DCCC	12/01/78	-38.1
HD-77A	111N-66W-14DCCC	03/07/79	-38.3
HD-77A	111N-66W-14DCCC	04/03/79	-37.4
HD-77A	111N-66W-14DCCC	05/15/79	-37.6
HD-77A	111N-66W-14DCCC	06/01/79	-37.6
HD-77A	111N-66W-14DCCC	06/15/79	-37.5
HD-77A	111N-66W-14DCCC	06/27/79	-37.5
HD-77A	111N-66W-14DCCC	07/11/79	-39.1
HD-77A	111N-66W-14DCCC	07/26/79	-38.6
HD-77A	111N-66W-14DCCC	08/08/79	-38.8
HD-77A	111N-66W-14DCCC	08/20/79	-38.4
HD-77A	111N-66W-14DCCC	09/13/79	-38.7
HD-77A	111N-66W-14DCCC	10/03/79	-38.3
HD-77A	111N-66W-14DCCC	10/25/79	-38.3
HD-77A	111N-66W-14DCCC	12/19/79	-38.1
HD-77A	111N-66W-14DCCC	02/13/80	-38.6
HD-77A	111N-66W-14DCCC	04/09/80	-37.9
HD-77A	111N-66W-14DCCC	05/19/80	-37.9
HD-77A	111N-66W-14DCCC	06/02/80	-38.6
HD-77A	111N-66W-14DCCC	06/17/80	-38.4
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HD-77A	111N-66W-14DCCC	07/16/80	-39.2
HD-77A	111N-66W-14DCCC	07/28/80	-40.0
HD-77A	111N-66W-14DCCC	08/11/80	-39.7
HD-77A	111N-66W-14DCCC	08/25/80	-39.5
HD-77A	111N-66W-14DCCC	09/10/80	-39.3
HD-77A	111N-66W-14DCCC	10/06/80	-39.4
HD-77A	111N-66W-14DCCC	11/17/80	-39.1
HD-77A	111N-66W-14DCCC	02/24/81	-38.7
HD-77A	111N-66W-14DCCC	03/24/81	-38.7
HD-77A	111N-66W-14DCCC	05/04/81	-38.7
HD-77A	111N-66W-14DCCC	05/26/81	-39.3
HD-77A	111N-66W-14DCCC	06/08/81	-39.8
HD-77A	111N-66W-14DCCC	06/22/81	-39.4
HD-77A	111N-66W-14DCCC	07/13/81	-40.6
HD-77A	111N-66W-14DCCC	07/27/81	-40.5
HD-77A	111N-66W-14DCCC	08/10/81	-40.2
HD-77A	111N-66W-14DCCC	08/24/81	-41.4
HD-77A	111N-66W-14DCCC	09/15/81	-40.6
HD-77A	111N-66W-14DCCC	10/27/81	-40.2
HD-77A	111N-66W-14DCCC	03/01/82	-39.7
HD-77A	111N-66W-14DCCC	04/27/82	-39.2
HD-77A	111N-66W-14DCCC	05/24/82	-38.9
HD-77A	111N-66W-14DCCC	06/16/82	-38.6
HD-77A	111N-66W-14DCCC	07/06/82	-39.0

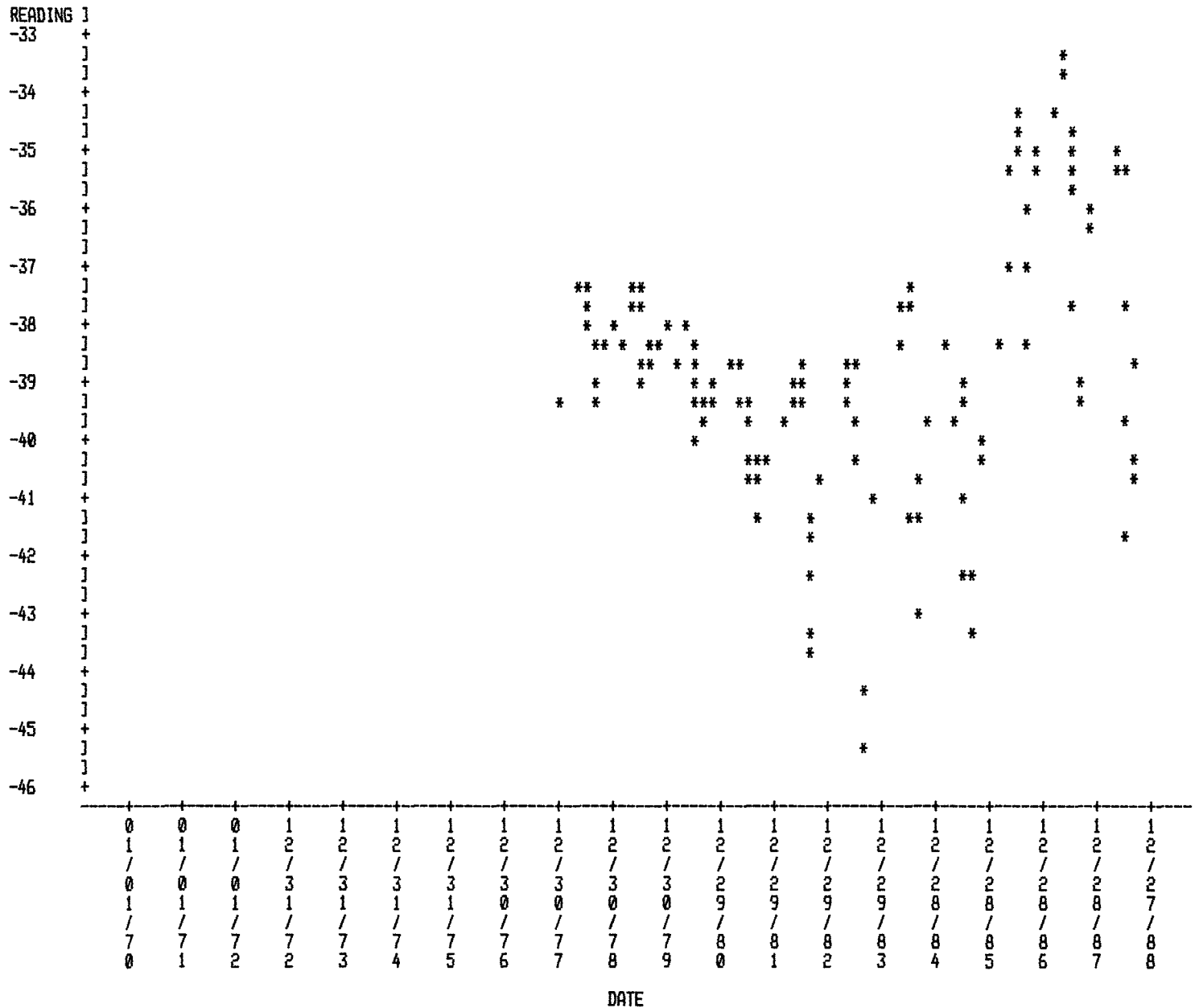
OBS_WELL	OBSERVATION WELL LOCATION	WATER LEVELS DATE	READING
HD-77A	111N-66W-14DCCC	07/20/82	-39.2
HD-77A	111N-66W-14DCCC	08/03/82	-41.4
HD-77A	111N-66W-14DCCC	08/12/82	-42.3
HD-77A	111N-66W-14DCCC	08/17/82	-43.7
HD-77A	111N-66W-14DCCC	08/30/82	-43.5
HD-77A	111N-66W-14DCCC	09/20/82	-41.6
HD-77A	111N-66W-14DCCC	10/18/82	-40.7
HD-77A	111N-66W-14DCCC	04/05/83	-39.4
HD-77A	111N-66W-14DCCC	05/09/83	-38.9
HD-77A	111N-66W-14DCCC	05/23/83	-38.7
HD-77A	111N-66W-14DCCC	06/06/83	-40.4
HD-77A	111N-66W-14DCCC	06/20/83	-39.6
HD-77A	111N-66W-14DCCC	07/06/83	-38.8
HD-77A	111N-66W-14DCCC	07/19/83	-40.2
HD-77A	111N-66W-14DCCC	08/08/83	-44.3
HD-77A	111N-66W-14DCCC	08/23/83	-45.4
HD-77A	111N-66W-14DCCC	11/08/83	-41.1
HD-77A	111N-66W-14DCCC	04/16/84	-38.3
HD-77A	111N-66W-14DCCC	05/14/84	-37.7
HD-77A	111N-66W-14DCCC	05/28/84	-37.8
HD-77A	111N-66W-14DCCC	06/11/84	-37.6
HD-77A	111N-66W-14DCCC	06/25/84	-37.4
HD-77A	111N-66W-14DCCC	07/09/84	-37.3
HD-77A	111N-66W-14DCCC	07/23/84	-41.4
HD-77A	111N-66W-14DCCC	08/06/84	-40.7
HD-77A	111N-66W-14DCCC	08/20/84	-43.1
HD-77A	111N-66W-14DCCC	09/11/84	-41.4
HD-77A	111N-66W-14DCCC	10/22/84	-39.7
HD-77A	111N-66W-14DCCC	03/21/85	-38.3
HD-77A	111N-66W-14DCCC	05/22/85	-39.7
HD-77A	111N-66W-14DCCC	06/05/85	-39.1
HD-77A	111N-66W-14DCCC	06/19/85	-39.2
HD-77A	111N-66W-14DCCC	07/03/85	-41.1
HD-77A	111N-66W-14DCCC	07/16/85	-42.2
HD-77A	111N-66W-14DCCC	08/01/85	-42.3
HD-77A	111N-66W-14DCCC	08/14/85	-43.2
HD-77A	111N-66W-14DCCC	10/15/85	-40.1
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HD-77A	111N-66W-14DCCC	08/12/86	-38.4
HD-77A	111N-66W-14DCCC	08/26/86	-37.1
HD-77A	111N-66W-14DCCC	09/30/86	-35.4
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HD-77A	111N-66W-14DCCC	04/21/87	-33.8
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HD-77A	111N-66W-14DCCC	06/02/87	-34.8
HD-77A	111N-66W-14DCCC	06/11/87	-34.9

13:58 THURSDAY, OCTOBER 20, 1988 2

OBS_WELL	OBSERVATION WELL LOCATION	WATER LEVELS DATE	READING
HD-77A	111N-66W-14DCCC	06/25/87	-35.5
HD-77A	111N-66W-14DCCC	07/08/87	-35.7
HD-77A	111N-66W-14DCCC	07/21/87	-37.6
HD-77A	111N-66W-14DCCC	08/05/87	-39.2
HD-77A	111N-66W-14DCCC	08/18/87	-39.0
HD-77A	111N-66W-14DCCC	10/05/87	-36.4
HD-77A	111N-66W-14DCCC	11/18/87	-35.9
HD-77A	111N-66W-14DCCC	04/07/88	-35.0
HD-77A	111N-66W-14DCCC	05/11/88	-34.9
HD-77A	111N-66W-14DCCC	05/26/88	-35.3
HD-77A	111N-66W-14DCCC	06/08/88	-35.2
HD-77A	111N-66W-14DCCC	06/24/88	-39.6
HD-77A	111N-66W-14DCCC	07/06/88	-37.8
HD-77A	111N-66W-14DCCC	07/21/88	-41.8
HD-77A	111N-66W-14DCCC	08/03/88	-40.7
HD-77A	111N-66W-14DCCC	08/18/88	-40.4
HD-77A	111N-66W-14DCCC	09/21/88	-38.6

N= 127

PLOT OF READING*DATE SYMBOL USED IS *



NOTE: 12 OBS HIDDEN

UQS0009 - END OF DATA SET

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STED OPERATION COMPLETE

*UM.RESET.TID=279((wait))UMS0022 - REQUE

OBS_WELL	OBSERVATION WELL LOCATION	WATER LEVELS DATE	READING
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BD-76F	110N-65W-050000	06/09/77	-12.9
BD-76F	110N-65W-050000	07/08/77	-15.9
BD-76F	110N-65W-050000	07/22/77	-21.7
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BD-76F	110N-65W-050000	06/15/78	-10.0
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13:49 THURSDAY, OCTOBER 20, 1988 1

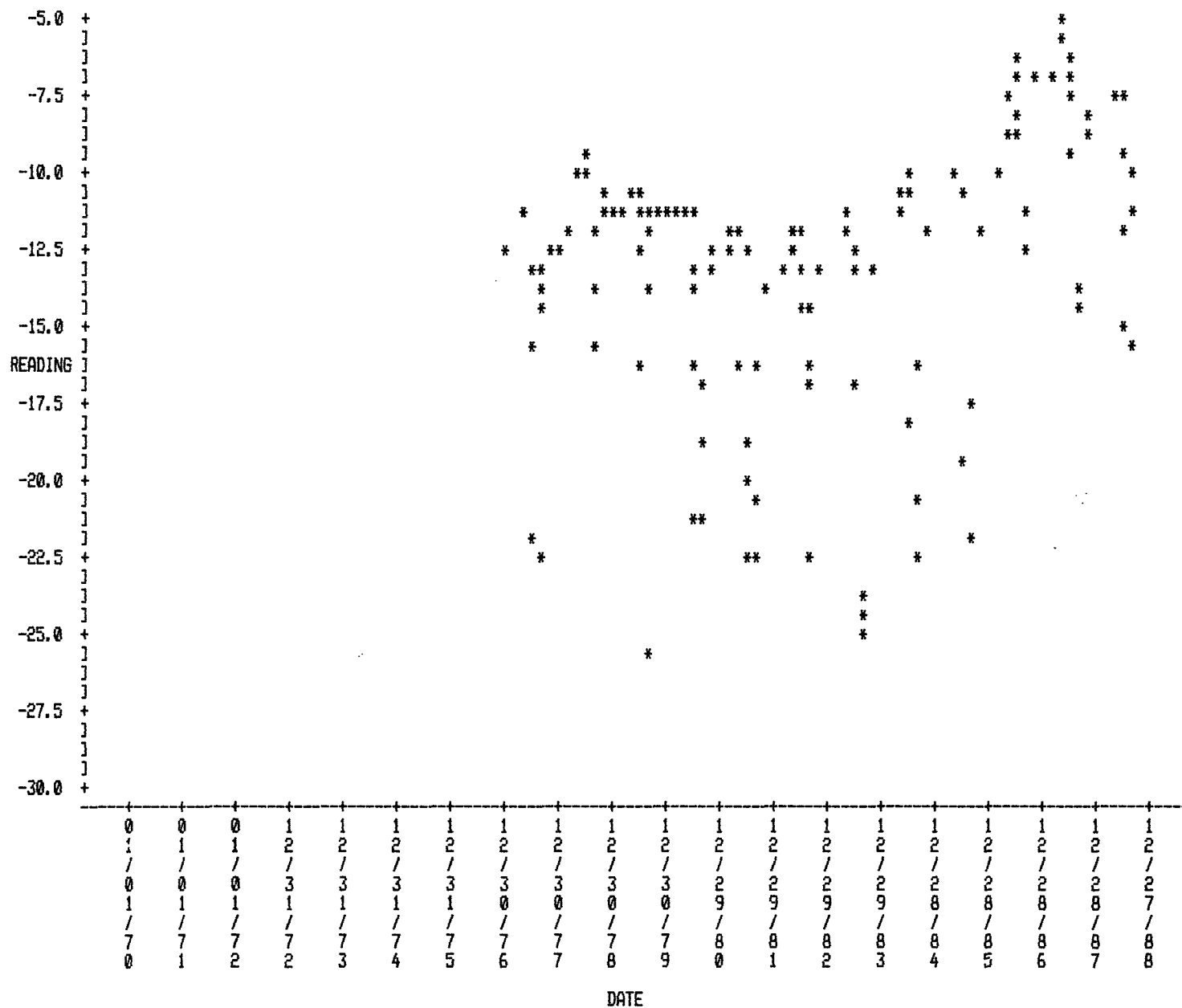
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BD-76F	110N-65W-05DDDD	06/22/81	-12.5
BD-76F	110N-65W-05DDDD	07/07/81	-18.5
BD-76F	110N-65W-05DDDD	07/13/81	-22.4
BD-76F	110N-65W-05DDDD	07/27/81	-19.7
BD-76F	110N-65W-05DDDD	08/10/81	-20.7
BD-76F	110N-65W-05DDDD	08/24/81	-22.7
BD-76F	110N-65W-05DDDD	09/15/81	-16.3
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BD-76F	110N-65W-05DDDD	08/17/82	-22.5
BD-76F	110N-65W-05DDDD	08/30/82	-17.1
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BD-76F	110N-65W-05DDDD	10/18/82	-13.1
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BD-76F	110N-65W-05DDDD	05/23/83	-11.2
BD-76F	110N-65W-05DDDD	06/06/83	-13.0
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BD-76F	110N-65W-05DDDD	08/14/85	-17.5
BD-76F	110N-65W-05DDDD	10/15/85	-11.8
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OBS_WELL	OBSERVATION WELL LOCATION	WATER LEVELS DATE	READING
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BD-76F	110N-65W-050000	06/20/86	-6.6
BD-76F	110N-65W-050000	07/01/86	-6.5
BD-76F	110N-65W-050000	07/15/86	-6.9
BD-76F	110N-65W-050000	07/21/86	-8.3
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BD-76F	110N-65W-050000	09/21/88	-9.8

13:49 THURSDAY, OCTOBER 20, 1988 3

N= 144

PLOT OF READING*DATE SYMBOL USED IS *



NOTE: 1 OBS HAD MISSING VALUES OR WERE OUT OF RANGE 22 OBS HIDDEN

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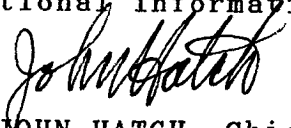
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5228-3, Roy Mehling

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. 5228-3, Roy Mehling, RR 2, Box 70, Wessington SD.

The Chief Engineer is recommending APPROVAL of Application No. 5228-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. 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.

See the attached report for additional information.


JOHN HATCH, Chief Engineer
October 26, 1988



Department of Water & Natural Resources

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

October 28, 1988

Miller Press
Box 196
Miller, South Dakota 57362

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 5228-3 to be published twice. Please publish the first notice on or before November 2, 1988 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 Roy Mehling, RR 2, Box 70, Wessington, South Dakota 57381.

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
No. _____

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

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



Department of Water & Natural Resources

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

Water Rights Division
(605) 773-3352

October 28, 1988

NOTE:

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

Roy Mehling
RR 2, Box 70
Wessington, South Dakota 57381

Dear Mr. Mehling:

Your Application No. 5228-3 for a permit to appropriate water for
irrigation use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Miller Press

printed at Miller

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY 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 at least 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 DUVAL
Natural Resources Engineer

enclosures

Instruction to Newspaper - Publish first Notice on or before November 2, 1988
with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5228-3 to Appropriate Water
~~and/or to Amend Water Permit or Water Right No. _____~~

Notice is given that Roy Mehling, RR 2, Box 70, Wessington, South Dakota 57381,
_____ has filed an application for a water permit
to specify the correct location of an existing irrigation well and to add 30 irrigated acres.
Water Permit No. 4825-3 authorizes irrigation of portions of the SE $\frac{1}{4}$ from one well that
was to be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$; all in Section 26, T111N-R66W. The correct location of
the existing well is the center of the SE $\frac{1}{4}$ and the 30 additional acres are located in the
NE $\frac{1}{4}$ SE $\frac{1}{4}$ and the NW $\frac{1}{4}$ SE $\frac{1}{4}$; all in Section 26, T111N-R66W. This application also appropriates
an additional 0.42 cubic feet of water per second from the existing well 153 feet deep
to irrigate the 30 additional acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends
APPROVAL of Application No. 5228-3 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 Dakota A. Howard Johnson, 3300 W. Russell, Sioux Falls, SD on
December 7, 1988 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 25, 1988.
The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol,
Pierre SD (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 25, 1988.

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; ~~(ground)~~ 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14;
~~(future use)~~ 46-5-38 thru 46-5-40; ~~(transfer lands)~~ 46-5-33 thru 46-5-35; ~~(10,000 AF)~~
~~46-5-20.1, 46-5-31.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use)~~
~~74:02:01:24 thru 74:02:01:25; (10,000 AF) 74:02:01:15:02 thru 74:02:01:15:05.~~

Size of type 8 point

Number of lines 85

Line rate .2367

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA)

)SS

County of Hand)

Gary L. McFarlane of said county being first duly sworn, on oath says that he is the publisher of The Miller Press, a weekly newspaper printed and published in Miller, said County of Hand and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly, and has been published within said County for fifty-two successive weeks next prior to the publication of the notice herein mentioned, and was and is printed wholly or in part in an office maintained at said place of publication; that the Mehling notice of application

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once in each week two successive weeks, on the day of each week on which said newspaper was regularly published, to wit:

Nov. 7 19 88 ; 19
Nov. 14 19 88 ; 19
19 ; 19
19 ; 19
19 ; 19



that the full amount of the fees for the publication of the annexed notice is \$ 36.22

Gary L. McFarlane

Subscribed and sworn to before me this 15th day of November, 19 88

Carol Wanyness

Notary Public

County of Hand, South Dakota

NOTICE OF HEARING on Application No. 5228-3 To Appropriate Water

Notice is given that Roy Mehling, RI 2, Box 70, Wessington, South Dakota 57381 has filed an application for a water permit to specify the correct location of an existing irrigation well and to add 30 irrigated acres. Water Permit No. 4825-3 authorizes irrigation of portions of the SE1/4 from one well that was to be located in the SE1/4SE1/4; all in Section 26, T111N-R66W. The correct location of the existing well is the center of the SE1/4 and the 30 additional acres are located in the NE1/4SE1/4 and the NW1/4SE1/4; all in Section 26, T111N-R66W. This application also appropriates an additional 0.42 cubic feet of water per second from the existing well 153 feet deep to irrigate the 30 additional acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5228-3 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 Dakota A, Howard Johnson, 3300 W. Russell, Sioux Falls, SD on December 7, 1988 at 10:00 a.m. 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 25, 1988. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E. Capitol, Pierre SD (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 25, 1988.

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 SD 74:02:01:01 thru 74:02:01:15.



Department of Water & Natural Resources

Joe Foss Building
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

MAR 10 1989

Roy Mehling
RR 2, Box 70
Wessington SD 57381

Dear Sir:

Enclosed herewith is your Water Permit No. 5228-3 as approved by the Water Management Board authorizing your water diversion system and apply the water to beneficial use, not exceeding the limits as specified in said water Right Permit No. 5228-3.

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 final papers will be sent to you.

Very truly yours,

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

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ks

enclosure

Permit No. 4825-3
5228-3James River Water District
10160006**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

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

I have this day made a thorough examination of the water use system constructed by Roy Mehling
RR 2 Box 70 of Wessington, SD 57381 holder of
 Permit No. 4825-3 5228-3, bearing the priority of Oct. 15 Aug. 5 19 88 authorizing
 the diversion of 2.27 cu. ft. per second of the waters of groundwater (1 well)
 for irrigation purposes, in Hand County.

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

A. Works used to divert the water:

148' Deep Well - 16" Plastic Casing, 20' St. Steel Screen
Aurora Vertiline Pump - Model 38270043, Type 10RH, 8 Stages
General Electric Motor - Model 5K6255XM501A, 75 H.P., Ser. No.

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

KMJ1006366

20' of 10" Steel Pipe

C. Works used to apply water to beneficial use:

Zimatic Center Pivot (Corner System)8 towers + CornerModel 307 410, Type 9, Ser. # 416888, operated at 80 psiThe system is in the following condition Good

The point of diversion is located SE 1/4 Section 26, T111N, R66W
center of SE 1/4

The works are capable of diverting and conveying to the place of use 1.78cu. ft. per second of water which is to be used for irrigationWater has been put to beneficial use to the maximum extent as follows: Section 26, T111N, R66WNW 1/4 SE 1/4 - 37.5 acresNE 1/4 SE 1/4 - 37.5 "SE 1/4 SE 1/4 - 37.5 "SW 1/4 SE 1/4 - 37.5 "comprising a total of 150 acres of land and the license should be issued for 1.78 cfsApplicable permit qualifications have been complied with Yes NoExceptions to compliance are: _____ Date 6-28-88

James L. Wendt
 (signature)

6-28-88
Roy Mehling

LICENSE FOR PERMIT NUMBER 4825-3

1. Legal location of wells: SE 1/4 26-111-66, 20' S of center

dams & structures: _____

2. Well Information: Well Drilling Firm Huron Drilling

No. of wells 1 Depth 148'

Casing a) diameter 16" Screen a) type St. Steel
b) length — b) length 20'
c) type Plastic Static Water Level —

Pump a) make Aurora Vertiline Motor a) make Gen. Electric
b) model 38270043 b) model no. 5K6255XM501A
c) ~~type~~ 10RH c) horsepower rating 75
d) capacity 800 GPM d) ~~motor efficiency rating~~
e) turbine pump Ser. No. KMJ1006366
no. of stages 8

3. Distribution lines:

a) size of lines 10"
b) type Steel
c) length 20'

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 _____

i) Outlet tubes:

1) diameter _____
2) type _____
3) valued (Y/N) _____
4) valve type _____
5) location on structure _____

h) Distribution lines or canals:

1) size _____
2) type _____
3) length _____

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

d) Gate Pipe

- 1) make Zimmatic (Corner System) length _____
2) number of towers 8 + corner 2) diameter _____
3) distance between towers _____ 3) spacing of gates _____
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 800

e) Siphons

- 1) number _____
2) size _____

f) Portable boom

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

g) Gun

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

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:

NOT TO SCALE

T 1305

①
67.4

②
143.2

26

③
23.4

④
16.8

T 1534

37.5 ac.

37.5 ac.

37.5 ac.

37.5
ac.

①
154.0
- 1.2
152.8

Well

G. 15
111-86

⑤
58.1

James L. Wendt
N.R. Engineer
7-21-88

T 2468

T 2151

①
21.1

Water
Right No.
5228-3

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5228-3

(1) Roy Mehling of RR #2, Box 70, Wessington, South Dakota, 57381 made Application No. 5228-3, August 5, 1988 for a water permit to appropriate 0.42 cubic feet of water per second from groundwater (one existing well), Hand County, South Dakota for irrigation purposes. Permit No. 5228-3 with a priority date of August 5, 1988 was approved December 8, 1988 and issued to applicant(s) 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. 5228-3 authorizes diversion of 0.42 cfs to irrigate an additional 30 acres from an existing well authorized by Water Permit No 4825-3. Permit No 5228-3 also specifies the correct location of the existing well.

The applicable portions of Water Permit No. 4825-3 have been incorporated into this Water License No 5228-3. A priority date of October 15, 1981 (Permit No. 4825-3) is retained for 1.36 cfs and a priority date of August 5, 1988 (Permit No. 5228-3) is retained for 0.42 cfs. Priority dates as they pertain to the land irrigated are specified 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 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is: in the center of the SE1/4 of Section 26, T111N, R66W.

(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:

Section 26, T111N, R66W	NW1/4 SE1/4	37.5 acres*
	NE1/4 SE1/4	37.5 acres*
	SE1/4 SE1/4	37.5 acres
	SW1/4 SE1/4	37.5 acres

Total 150.0 acres

* 30 of the acres in the N1/2 SE1/4 have a priority date of August 5, 1988 (Permit No. 5228-3). The remaining acres in the N1/2 SE1/4 and all of the S1/2 SE1/4 have a priority date of October 15, 1981 (Permit No. 4825-3).

(4) Pursuant to Section 46-5-30.1 Roy Mehling of RR #2, Box 70, Wessington, SD 57381 the holder(s) and/or owner(s) of Incorporated No. 5228-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from groundwater (one well) with priority dates of August 5, 1988 (for 0.42 cfs) and October 15, 1981 (for 1.36 cfs) from the location specified in (2) of this license. The water is 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 No. 5228-3 and subject to South Dakota State Law.



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

SEP 14 1989

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, March 17, 1989

RECEIVED OF Roy Mehling, Rlv#2, Box 70, Wessington, SD 57381

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>5228-3</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 H. H. H. H.
Chief Engineer John H. H. H.



Department of Water & Natural Resources

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

SEP 14 1989

Roy Mehling
RR #2, Box 70
Wessington, SD 57381

Dear Mr. Mehling:

Enclosed is Water License No. 5228-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 411688 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. 5228-3, 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

enclosures



 **Department of
Water & Natural Resources**

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

September 28, 1990

Craig Carson
Farm Credit Service
Box 1987
Aberdeen SD 57402-1987

Dear Mr. Carson:

As requested, enclosed is a copy of Water Permit No. 5228-3 for Roy Mehling.

Sincerely,



Karen Schlaak
Natural Resources Analyst
Water Rights Division
605 773-3352

enclosure