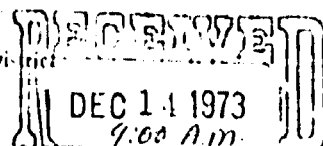


No. 2034-3Map No. 1442-3 Water Division No. 3 VERMILION RIVER District

(Blanks to be Filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

STATE WATER RIGHTS COM.
PIERRE, SOUTH DAKOTA

To appropriate Water within the State of South Dakota

(NOTE - Draw a line through items not applicable)

1. Name of Applicant Mrs. Viva Hicks
 Postoffice address Star Route 3, Box 112, Kisse Mill, Missouri 65680
 If a corporation show date and place of incorporation _____
 2. Method of accomplishing work (contract, employment of others, or by direct labor) combination
 3. Name of diversion work Hicks No. 1
 4. Amount of water claimed (cubic feet per second) 2.28
 5. Source of water supply ground water, well 39 feet deep
 6. Location of point of diversion 1855-feet South 45° West from the NE Corner of Section 30,
T98N, R52W
 _____ County Turner
 7. Annual period or periods during which water is to be used April through October
 8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation
 9. For irrigation use, _____ Total number of acres to be irrigated 160

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

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
NE 1/4, Sec. 30, T98N, R52W	160		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 3 years. Additional time required to complete application of water to the proposed beneficial use 2 years.
 11. Choice of newspaper for Notice of Intent to appropriate Water publication Lurley Leader
 12. Principal Features of the Proposed Water Supply System.
 A. Works proposed to divert water from its natural source.
Well approximately 39 feet deep
Turbine pump
Industrial engine
 B. Works proposed to transport water to place of use.
Approximately 250 rods of 5 and 6 inch diameter pipe
 C. Works proposed to apply water to beneficial use.
sprinkler system

Estimated Total Cost \$ 15,000.00Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
(See instructions concerning preparation.)MISSOURI
STATE OF MISSOURICounty of TaneyI, Viva Hicks the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.Signed Mrs. Viva HicksSubscribed and sworn to before me this 6th day of November 19 73Notary Public (or other qualified officer)
Taney County, Missouri
Barbara L. Dorgan

My commission expires: June 28, 1976

WATER RIGHT APPLICATION APPROVAL

WATER RIGHTS COMMISSION

The Water ~~Rights~~ Commission hereby approves Water Right Application No. 2034-3MRS. VIVA HICKS
(Applicant)STAR ROUTE 3, BOX 112, KISSEEE MILLS,
(Post Office Address)MISSOURI 65682
(State)

With the following modifications:

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

INCORPORATED INTO
WATER LICENSE NO. 3833-3

Date of first receipt of application DECEMBER 14 19 73Date of return to applicant for correction, amendments or changes required DECEMBER 17 19 73Date of receipt of corrected application DECEMBER 18 19 73Approved JANUARY 16 19 74, Recorded in Book 12 Page 301WATER RIGHT PERMIT NO. 2034-3

WATER RIGHTS COMMISSION

The Water ~~Rights~~ Commission hereby grants and issues this Water Right Permit No. 2034-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is DECEMBER 14 19 73
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 16 19 75
3. The whole of said work is to be completed on or before JANUARY 16 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 16 19 79
5. The water appropriated shall be used for the purpose of IRRIGATION

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 2.28 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before JANUARY 16 19 79; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 21ST day of JANUARY 19 74

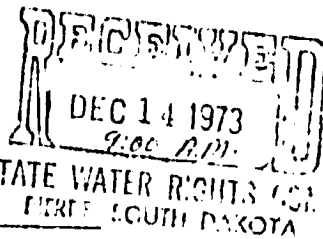
WATER RIGHTS COMMISSION

By:

Ronald D. Daniel
Chief Engineer, Executive Officer

Certificate of Construction issued _____, 19 ____

Water License Issued _____, 19 ____



12. Principal Features of the Proposed Water Supply System (continued)

D. Well Information or Estimates

(1) Drill Hole, Diameter 36", Depth 39'
(2) Casing, Type Concrete Diameter 18 Thickness 3"
(wood, concrete, steel, etc)
(3) Perforated Screen
Type porous concrete, Diameter 18, Length 10
(4) Gravel Pack, Thickness 9, Length of gravel pack 10

E. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout

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

Character of Water bearing materials Sand

Depth to top of water bearing material 5

Depth to bottom of water bearing material 39

Thickness of water bearing material 34

Depth to water (ground surface to water level) 7

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

On same owner's property none rds. On property owned by others 90 rds.

G. Water Storage Dams.

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

Waltera Hicks
Signature of Applicant

RECEIVED

DEC 18 1973

DEPT. OF NATURAL
RESOURCE DEVELOPMENT

December 12, 1973

Don Schroedemeir
Davis, South Dakota 57021

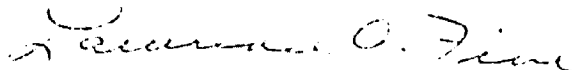
Mrs. Vava Hicks
Kissee Mills, Missouri 65680

The WI-1 in support of your application of Water Use permit has been received, and is being forwarded to the State Conservation Commission. I am returning the original analysis report to Mr. Schroedemeir, as it is his copy.

The water is judged to be satisfactory for the soil as indicated on your notarized form. Although it is moderately saline, the internal drainage of the soils is adequate so salt accumulation should not be a problem.

The quality of your water is diagrammatically represented by the encircled red cross on the back cover of Extension Circular 654, enclosed for your use. Please read and keep this circular for future reference.

Sincerely yours,



Lawrence O. Fine
Water Quality Lab

LOP:imb

enclosures

cc: Darrel Pahl
Merlin Pietz, Turner County Agent
State Conservation Commission

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED

FOR COMMISSION USE ONLY

Irrigation System: LA

Water Quality: Good

Soils Capability: Good

Approved: 12/14/77

WATER RIGHT APPLICATION NO. I

NAME: Mrs. Viva Hicks

ADDRESS: Kissee Mills, Missouri 65680

COUNTY: Turner, South Dakota

LEGAL DESCRIPTION

WELL LOCATION: NE $\frac{1}{4}$ Section 30-T98N-R.52W

SITE TO BE IRRIGATED: NE $\frac{1}{4}$ 30-98-52

WATER QUALITY

TEST WELL SAMPLE: 20 - 70'

SALINITY: 20 - 70' micromhos/cm (medium)

SODIUM: Sodium Adsorption Ratio = 0.26 (Low)

LAND CAPABILITY FOR IRRIGATION

PERCENTAGE OF SLOPE: Average of 1%

PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: Moderately deep, well drained soils with 20 to 40" of loamy material over sand and gravel on nearly level (C-2) upland slopes
Capability Class IIs3-Suitable for sprinkler type irrigation system.

TYPE OF IRRIGATION

GRAVITY: _____

SPRINKLER TYPE: Easy Rain Jet Sprinkler System

CROPS TO BE IRRIGATED

Corn, Soybeans, and Alfalfa

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:
the land capability for irrigation information has been acquired from

J. W. Rezek, District Conservationist, Soil Conservation Service, Parker, S. Dak. 57052

J. W. Rezek DC

and:

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

Mrs. Vera Hicks
Register & Recorder

Subscribed and sworn before me this

6 day of December 1923.

D. J. Miller
Notary Public

(Title)

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

Submitted by: Mrs. Vera Hlebs, Date Rec'd November 15, 1973
 Address: Kissauville, Mo. 65630 Sample No. 73-704
Don Schroeder Identification Well-
Cavis, South Dakota 151, Sec. 32, T. 98N, R. 52W
57021

WATER ANALYSIS

Calcium (Ca)	142	ppm*	7.12	me/l**
Magnesium (Mg)	11	ppm	0.87	me/l
Sodium (Na)	12	ppm	0.51	me/l
Potassium (K)	6	ppm	0.14	me/l
Sulfate (SO ₄)	61	ppm	3.28	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	5	ppm	0.14	me/l
Bicarbonate (HCO ₃)	312	ppm	5.12	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)	400	ppm	23	g.p.g.***
Alkalinity (Methyl Orange)	256	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	700	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.26			
Sodium	5.90	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.43			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: Total cations 8.64 me/l
 Total anions 6.54 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 73-704

Amount Enclosed \$ _____

Signed _____

SOILS MAP

FORM ACP-266
(10-10-62)

S. DEPARTMENT OF AGRICULTURE
Agricultural Stabilization and Conservation Service

WETLAND DRAINAGE REFERRAL SKETCH MAP

PUBLISHED JAN 27 1972

SHEET

OF
DUE DATE FOR FILING FINDING

STATE AND COUNTY

S. DAK. TURNER

AERIAL PHOTO NO.

NAME AND ADDRESS OF OWNER

**VIVA HICKS, OWNER
DON SCHROEDER MCNIEN, OPB.
DAVIS, S. DAK.**

SECTION

30

AERIAL PHOTO DATE

TOWNSHIP

98

SCALE:

in. = 1 mile

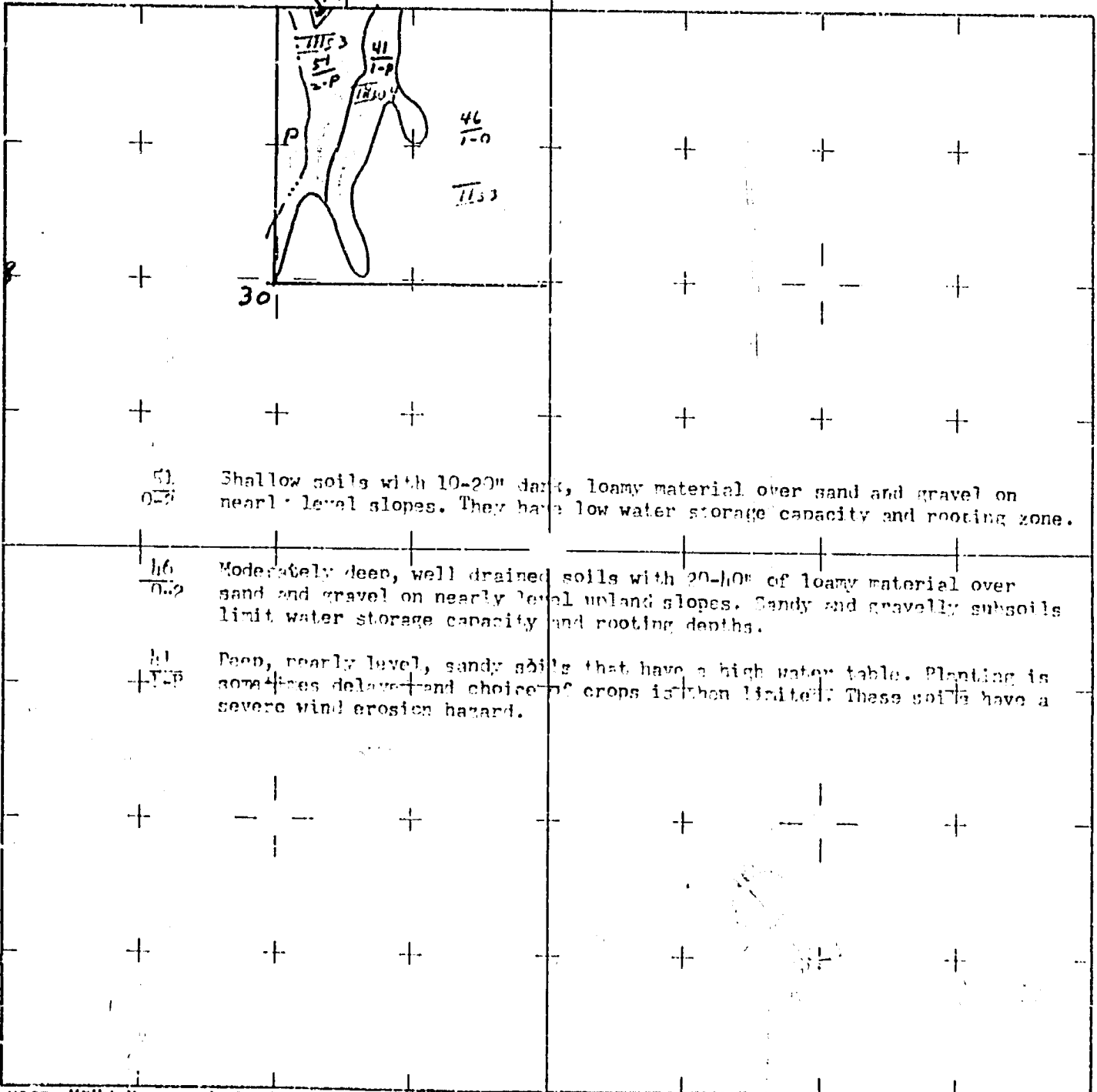
RANGE

S2

FARM NO.

R-52

**46
1-0**



51. Shallow soils with 10-20" dark, loamy material over sand and gravel on nearly level slopes. They have low water storage capacity and rooting zone.

46. Moderately deep, well drained soils with 20-40" of loamy material over sand and gravel on nearly level upland slopes. Sandy and gravelly subsoils limit water storage capacity and rooting depths.

41. Deep, nearly level, sandy soils that have a high water table. Planting is sometimes delayed and choice of crops is then limited. These soils have a severe wind erosion hazard.

NOTE: "X" indicates wetland ineligible for drainage.

SIGNATURE OF FWS REPRESENTATIVE

DATE

DATE MICROFILMED

Form 6 - Notice of Intent to Appropriate Water

2034-3

Publish first publication, on or before January 3, 19 73

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

December 21, 19 73

Notice is hereby given that Mrs. Viva Hicks

whose post office address is Kiamee Hills, Missouri ~~South Dakota~~, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use

2.28 cubic feet of water per second of time from the ground water through the

Hicks #1, the point of diversion of which is to be located in the _____

SE 1/4 NE 1/4

of Section 30, Twp. 98N, Range 52W. Said water to be used for the purpose of providing irrigation on the following described land:

NE 1/4, Section 30, 198N, 152W

This application No. 2034-3 will be considered by the Water ~~Rights~~ ^{Rights} Commission at their office at Pierre upon the 16th day of January, 19 74, at 2:30 P. M. All interested persons may appear and be heard.

~~WATER RESOURCES COMMISSION~~
WATER RIGHTS COMMISSION

By:

BURTON L. JONES, Water Rights Specialist

B3J/b3

cc: Don Schroedermeier, Davin, South Dakota 57021

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

No. 2034-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Turner) ss.

I, James E. Jeff hereby

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

Water was taken from the Holy Lake

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

Holy Lake town of Holy Lake

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

Thurs. December 21, 1973

Thurs. January 3, 1974

James E. Jeff
(Signature)

Publisher & Editor
(Title)

1-3-74
(Date Signed)

No. 2034-3

NOTICE
INTENT TO
APPROPRIATE WATER

Pierre, South Dakota 57501
December 21, 1973

Notice is hereby given that Mrs.
Viva Hicks whose post office ad-
dress is Kisse Mills, Missouri,
has made an application in ac-
cordance with the provisions of
the water laws of South Dakota
for a permit to appropriate for
beneficial use 2.28 cubic feet of
water per second of time from
ground water through the

Hicks No. 1, the point of diversion of which is
to be located in the SE 1/4 NE 1/4 of Section 30,
Twp. 98N, Range 52W.

Said water to be used for the
purpose of providing irrigation
on the following described land:

NE 1/4, Section 30, T98N, R52W.

This application No. 2034-3 will
be considered by the Water
Rights Commission at their of-
fice at Pierre upon the 16th day
of January, 1974, at 2:30 P.M. All
interested persons may appear
and be heard.

-WATER RIGHTS COMMISSION
BURTON F. JONES,
Water Rights Specialist

RECEIVED
JAN 7 1974
STATE

CONSERVATION PLAN MAP

TURNER COUNTY

Conservation District

Owner VIVA HICKS

Operator

DON SCHROEDERMEIER

County TURNER

State S. DAK.

Photo Nos. VK-3LL-146

Date prepared 12/73

Approx. Scale $\frac{1}{16}$ " = 1 mile

PREPARED BY U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

N



3833-3
MAP NO. 1442 APPL NO. 2034-3