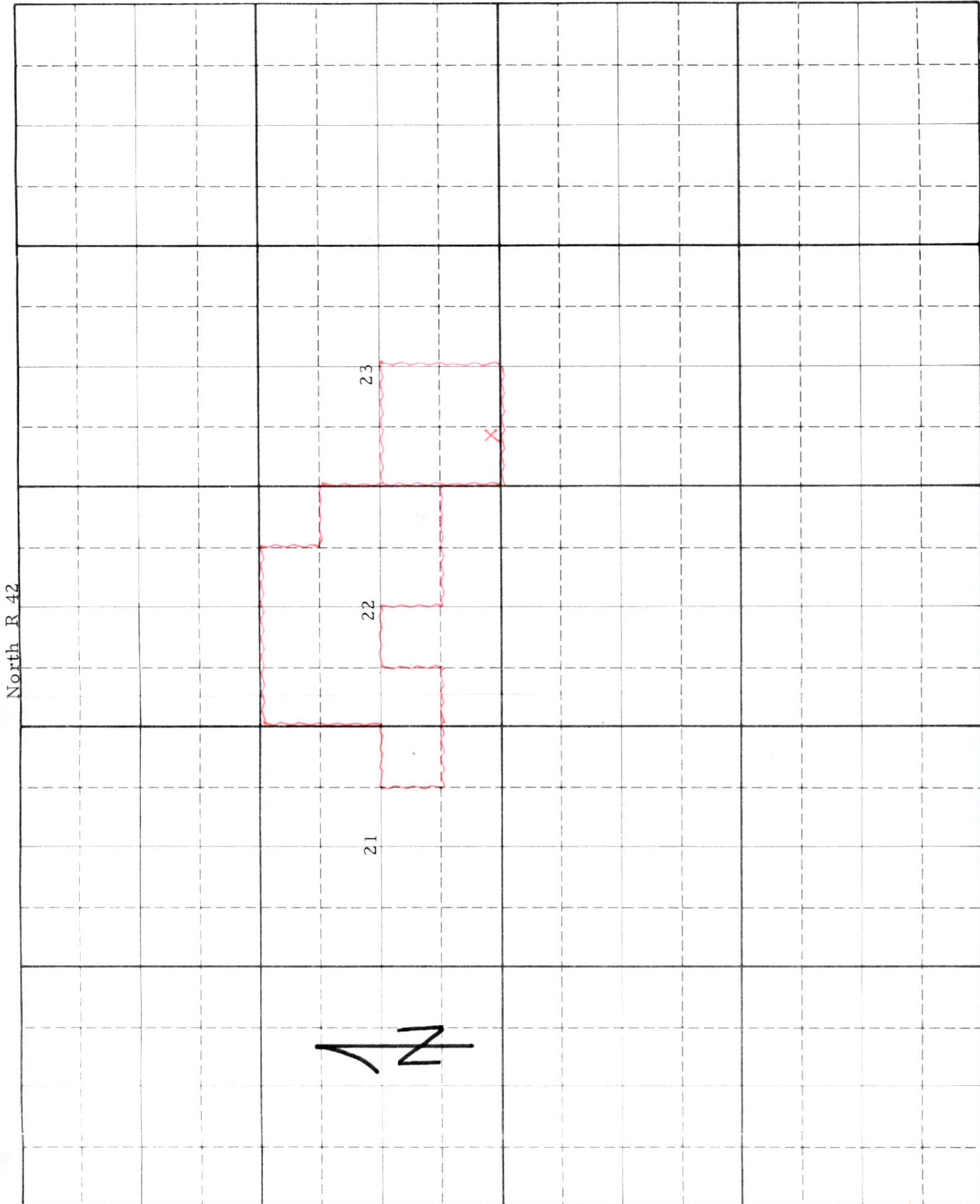


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Paul Nebrow  
(Applicant)

WILSON

AFFIDAVIT OF  
PUBLICATION

State of Idaho

County of Fremont

ss.

Raymond F. Nash

being first duly sworn, upon his  
oath, deposes and says:

That he is the Editor  
of The Chronicle-News, a news-  
paper as defined by Idaho  
Codes Annotated, section 58-106,  
as amended, and that said  
newspaper is a weekly news-  
paper printed and published at  
St. Anthony, in Fremont County,  
Idaho, having a general circula-  
tion in said county, and that  
said newspaper has been print-  
ed and published as a weekly  
newspaper in said county for  
more than 78 consecutive weeks  
prior to the first publication of  
the attached notice, advertise-

ment or publication of

Notice of Application

For Water Right

And affiant further says that  
said notice, advertisement or  
publication, as per clipping  
attached, was published in said  
newspaper, in the regular and  
entire issue thereof, and not in  
any supplement issue thereof,

for 2 consecutive is-  
sues thereof; first publication

having been made on the 25..

day of January, 1979.,

and the last publication on the

1 day of February.

19 79

And affiant further says that at  
the times herein mentioned said  
newspaper was made up of at  
least four pages of at least five  
columns each, printed from  
type matter, of at least seven-  
teen and three-fourths inches  
deep.

Subscribed in my presence and

sworn to before me this 2.

day of February.

19 79.

Notary Public for the  
State of Idaho, resi-  
(SEAL) dence and post office  
address: St. Anthony,  
Idaho.

RECEIVED

FEB 6 1979

Department of Water Resources  
Eastern District Office

NOTICE OF APPLICATION  
FOR WATER RIGHT

Notice is hereby given that the following  
application(s) have been submitted for  
permit to appropriate the public waters of  
the State of Idaho:

Application No. 22-7287

NEDROW, PAUL E., 270 SOUTH 500  
WEST, REXBURG, ID 83440.

Source: GROUNDWATER

Date File: 01/16/1979

Amount: 8.00 CFS

Diversion Point: SWSW Sec 23 T 07N R  
42E, MADISON Co.

Use: IRRIGATION (8.00 CFS) from 04/01  
to 11/01

Place of Use: NESW NWSW SWSW  
SESW Sec 23 T 07N R 42E NWNE SWNE  
SENE NENW NWNW SWNW SENW Sec 22  
T 07N R 42E NWSW NESE NWSE Sec 22 T  
07N R 42E NESE Sec 21 T 07N R 42E FOR  
600 ACRES

Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to  
all prior water rights. Protests against the  
granting of any permit must be filed with  
the Director of the Idaho Department of  
Water Resources, 1515 Lincoln Rd., Idaho  
Falls, Idaho 83401 on or before FEBRUARY  
12, 1979.

C. STEPHEN ALLRED  
Director

Publ. Jan. 25, Feb. 1, 1979CN

MICROFILMED

The REXBURG STANDARD and  
The REXBURG JOURNAL  
REXBURG, IDAHO

**Affidavit of Publication**

STATE OF IDAHO }  
County of Madison } ss.

I, Bruce Porter,  
being first duly sworn, depose and say,  
that I am the printer of THE REXBURG

Journal, a newspaper printed and  
published weekly at Rexburg, Madison  
County, Idaho; and I do solemnly swear  
that the

Notice of Water Right No. 22-7287

a copy of which notice appears attached  
hereto, was published in the regular and  
entire issue of said newspaper, and not in

any supplement issue thereof for two  
consecutive issues, the first publication hav-

ing been made on January 25, 1979  
and the last publication having been made

on February 1, 1979.

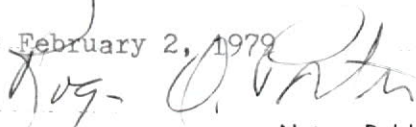
Further, that said newspaper is one of  
general circulation in said county; that it  
is a legal newspaper, conforming to legal  
specifications under the Idaho Statutes; that  
it has at least two hundred bona fide sub-  
scribers living within the county of publica-  
tion; and that it has been continuously and  
uninterruptedly published in said county dur-  
ing a period of seventy-eight consecutive weeks  
prior to the first publication of the said not-  
ice.



~~~~~

Subscribed to and sworn to before me

this February 2, 1979



Notary Public.

(SEAL)

My commission expires life

RECEIVED

FEB 2 1979

Department of Water Resources  
Eastern District Office-

**NOTICE OF APPLICATION  
FOR WATER RIGHT**

Notice is hereby given that the following  
application(s) have been submitted for  
permit to appropriate the public waters of  
the State of Idaho:

Application No. 22-7287  
NEDROW, PAUL E., 270 SOUTH 500  
WEST, REXBURG, ID 83440.  
Source: GROUNDWATER  
Date Filed: 01/16/1979  
Amount: 8.00 CFS  
Diversion Point: SWSW Sec 23 T 07N R  
42E, MADISON Co.  
Use: IRRIGATION (8.00 CFS) from 04/01  
to 11/01  
Place of Use: NESW NWSW SWSW  
SESW Sec 23 T 07N R 42E NWNE SWNE  
SENE NENW NWNW SWNW SENW Sec 22  
T 07N R 42E NWSW NESE NWSE Sec 22 T  
07N R 42E NESE Sec 21 T 07N R 42E FOR  
600 ACRES  
Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to  
all prior water rights. Protests against the  
granting of any permit must be filed with  
the Director of the Idaho Department of  
Water Resources, 1515 Lincoln Rd., Idaho  
Falls, Idaho 83401 on or before FEBRUARY  
12, 1979.

C. STEPHEN ALLRED  
Director

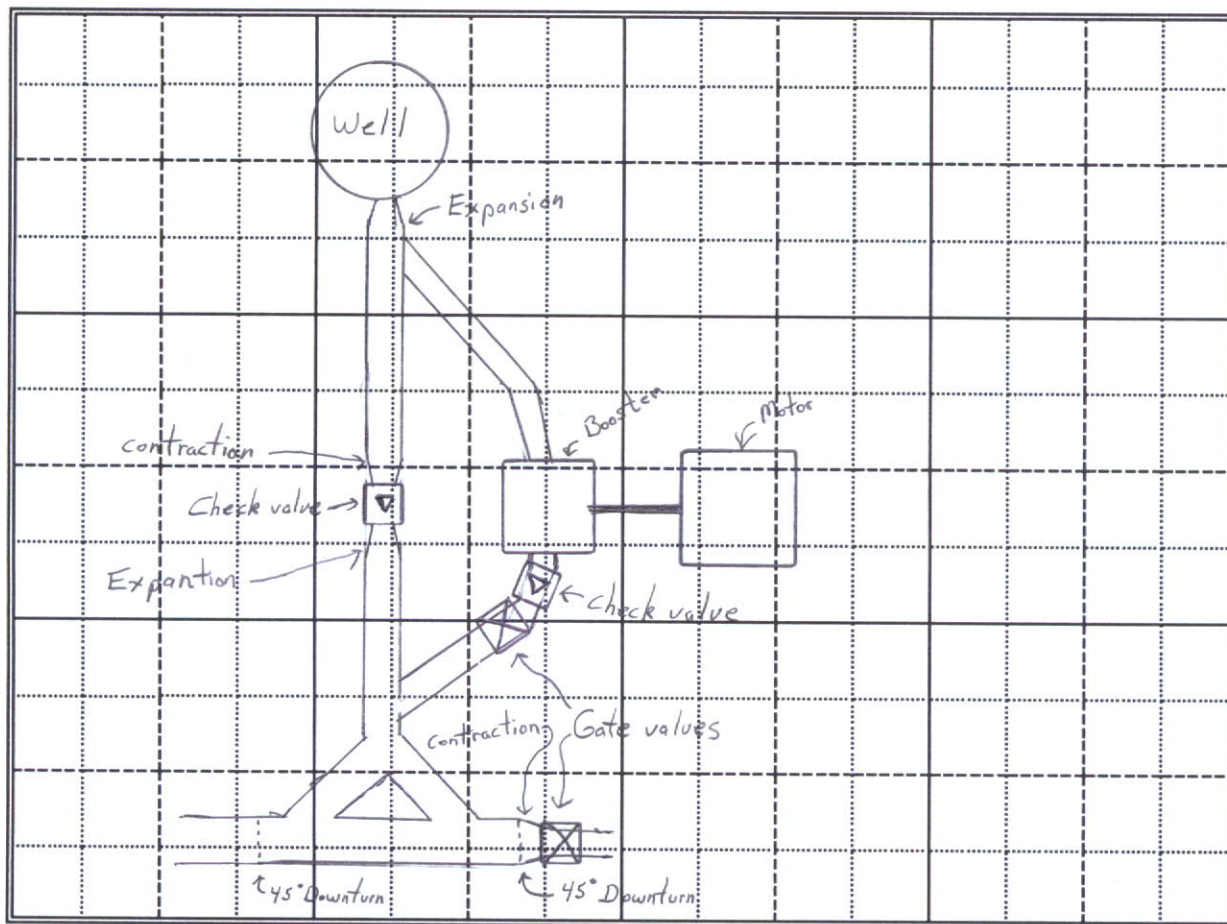
Publ. Jan. 25, Feb. 1, 1979J

97-A

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

N 1



Scale: 1" = \_\_\_\_\_

\_\_\_\_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

\_\_\_\_ Aerial Photo Attached (required for irrigation of 10+ acres)

\_\_\_\_ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make    | Hp  | Motor Serial No. | Pump Make        | Pump Serial No. or Discharge Size |
|---------------------------------------|---------------|-----|------------------|------------------|-----------------------------------|
| Well                                  | General Elect | 500 | HH5811017        | Peerless         | F21698                            |
| Booster                               | U.S. Motors   | 150 | C1004949         | Fairbanks Morris | KTFN100258                        |
|                                       |               |     |                  |                  |                                   |

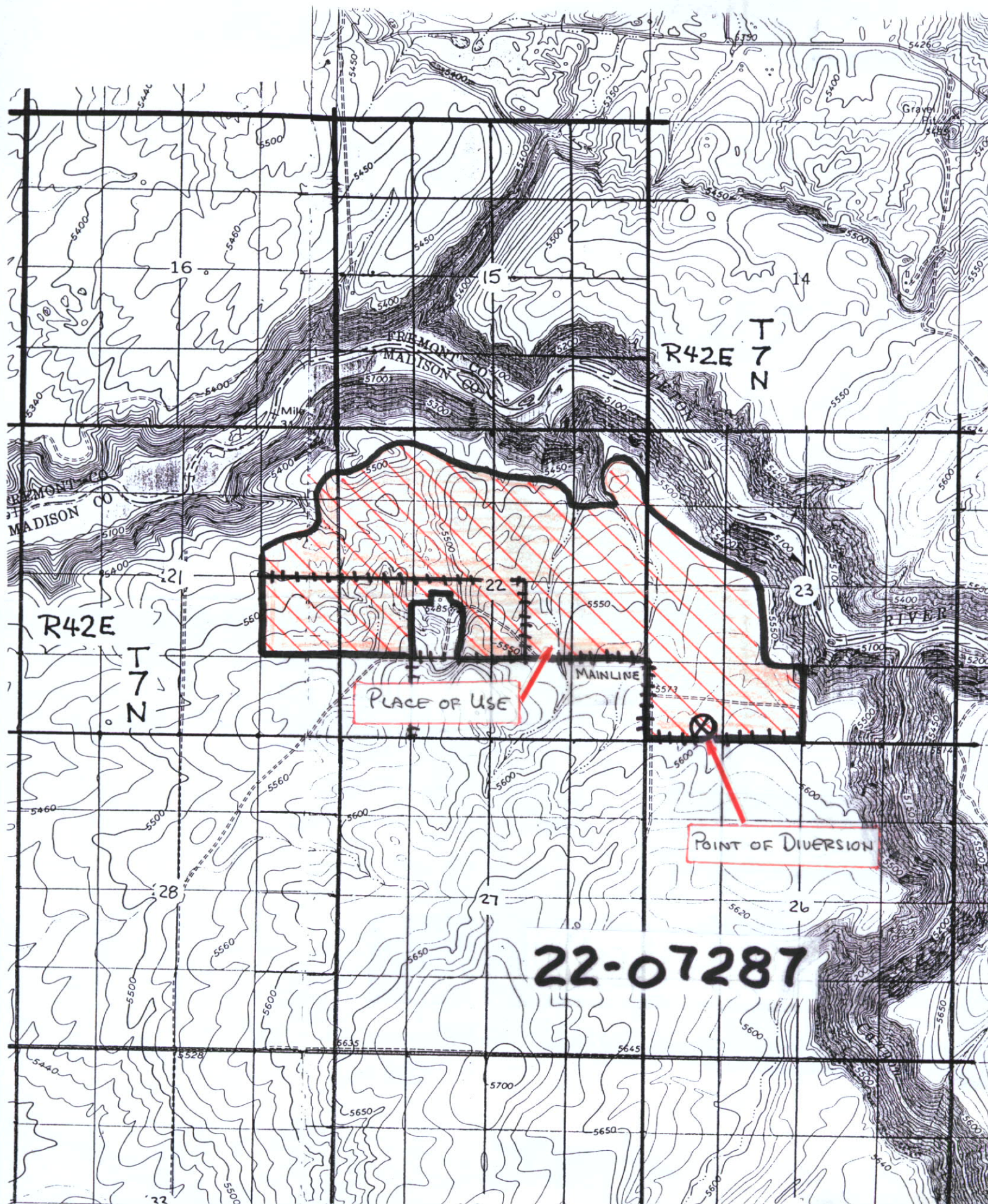
\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

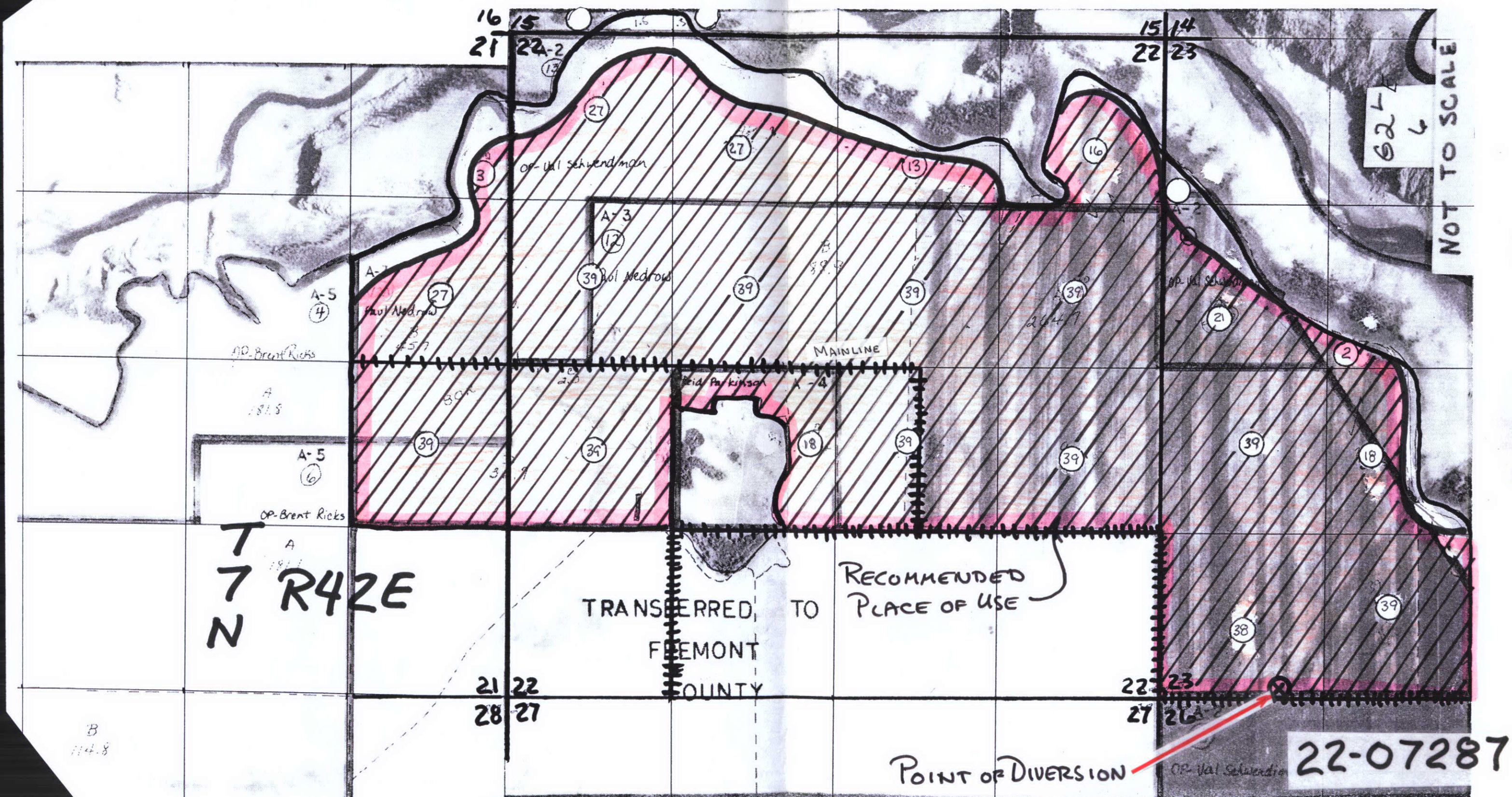
1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements: [39 1/16 Cir 12.4 OD pipe] Measurement site <sup>CIRC.</sup> 50.5" = 16.074" od  
0.139" thickness



22-07287





## WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources, within 30 days after the completion or abandonment of the well.

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JUN 6 1970

## 1. WELL OWNER

Name Paul Nedrow  
Address Rexburg Idaho  
Owner's Permit No. 22-7287

## 2. WATER LEVEL

Static water level 430' feet below surface Department of Water Resources  
Flowing? ☐ Yes ☒ No G.P.M. flow \_\_\_\_\_  
Temperature 65 ° F. Quality \_\_\_\_\_  
Artesian closed in pressure \_\_\_\_\_ p.s.i.  
Controlled by ☐ Valve ☐ Cap ☐ Plug

## 2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement  
☐ Abandoned (describe method of abandoning)

## R. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Other

Discharge G.P.M. Draw Down Hours Pumped

## 3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type)  
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

## 9. LITHOLOGIC LOG

| Hole<br>Diam. | Depth |     | Material                       | Wet<br>Yes |
|---------------|-------|-----|--------------------------------|------------|
|               | From  | To  |                                |            |
| 20            | 0     | 15  | brown clay                     |            |
|               | 15    | 30  | gray lava                      |            |
|               | 30    | 50  | green siltite                  |            |
|               | 50    | 60  | red green siltite + gravel     |            |
|               | 60    | 80  | hard gray basalt               |            |
|               | 80    | 85  | green + purple siltite         |            |
|               | 85    | 105 | green siltite                  |            |
|               | 105   | 130 | gray basalt + green siltite    |            |
|               | 130   | 160 | Brown siltite + gravel         |            |
|               | 160   | 180 | gray basalt                    |            |
|               | 180   | 240 | brown siltite + trace clay     |            |
|               | 240   | 325 | Brown gray siltite             |            |
|               | 325   | 360 | Brown green + gray siltite     |            |
|               | 360   | 395 | Brown green + purple siltite   |            |
|               | 395   | 415 | Brown siltite                  |            |
|               | 415   | 445 | gray siltite                   |            |
|               | 445   | 460 | blue green siltite + clay      |            |
|               | 460   | 505 | blue gray siltite + clay       |            |
|               | 505   | 540 | brown siltite + gravel + black |            |
|               | 540   | 575 | very hard black siltite        |            |
|               | 575   | 645 | Sticky gumbo clay              |            |
| 16            | 645   | 685 | Gravel                         |            |
|               | 685   | 695 | Very hard gray + green siltite |            |
|               | 695   | 785 | Very hard black rock           |            |
|               | 785   | 795 | coarse green siltite           |            |
|               | 795   | 815 | packed gravel                  |            |
|               | 815   | 825 | Sticky gumbo clay              |            |
|               | 825   | 830 | hard black rock                |            |
|               | 830   | 835 | clay                           |            |
|               | 835   | 870 | hard black rock                |            |
|               | 870   | 935 | Sticky gumbo clay              |            |
|               | 935   | 940 | solid clay                     |            |

## 4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

## 5. WELL CONSTRUCTION

Diameter of hole 20 inches Total depth 940 feet  
Casing schedule: ☒ Steel ☐ Concrete

| Thickness    | Diameter     | From       | To         |
|--------------|--------------|------------|------------|
| 3.17 inches  | 20 inches    | 1 feet     | 20 feet    |
| 2.50 inches  | 16 inches    | 1 feet     | 665 feet   |
| 2.50 inches  | 12 inches    | 770 feet   | 910 feet   |
| _____ inches | _____ inches | _____ feet | _____ feet |
| _____ inches | _____ inches | _____ feet | _____ feet |

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☒ Yes ☐ NoPerforated? ☒ Yes ☐ NoHow perforated? ☐ Factory ☒ Knife ☐ TorchSize of perforation 2 inches by 3 inches

| Number             | From       | To         |
|--------------------|------------|------------|
| 200 perforations   | 650 feet   | 660 feet   |
| _____ perforations | _____ feet | _____ feet |
| _____ perforations | _____ feet | _____ feet |

Well screen installed? ☐ Yes ☒ No

Manufacturer's name \_\_\_\_\_

Type \_\_\_\_\_ Model No. \_\_\_\_\_

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet

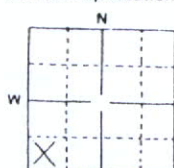
Gravel packed? ☐ Yes ☒ No Size of gravel \_\_\_\_\_

Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface seal depth 19' Material used in seal ☐ Cement grout☐ Pudding clay ☒ Well cuttingsSealing procedure used ☐ Sherry pit ☐ Temporary surface casing☒ Overbore to seal depth

## 6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name \_\_\_\_\_

Lot No. \_\_\_\_\_ Block No. \_\_\_\_\_

County Madison

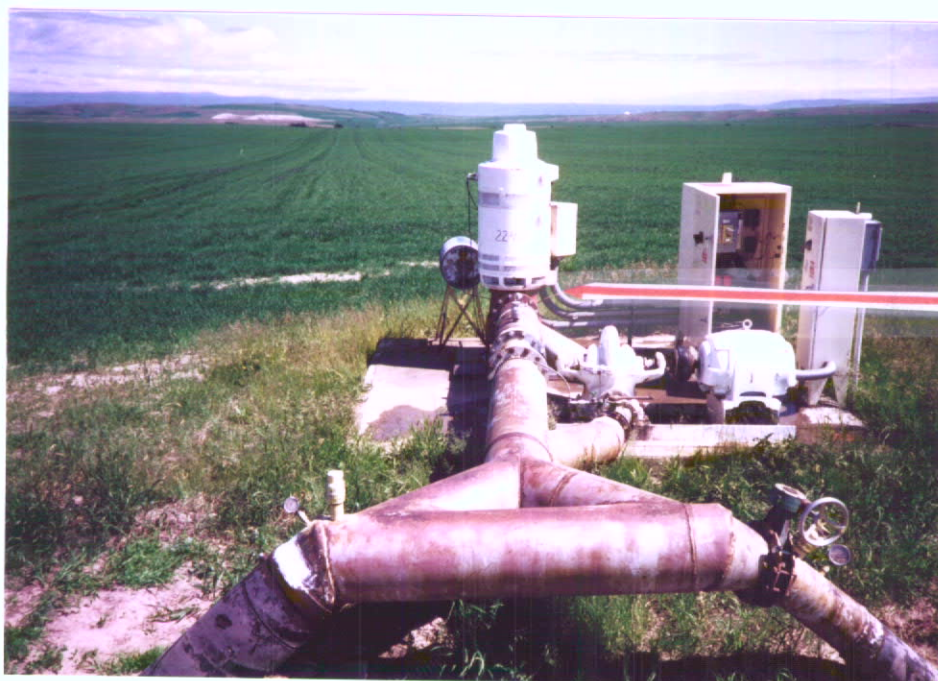
SW 1/4 Sec. 23 T. 7 N. S. R. 42 E. W.

## 10.

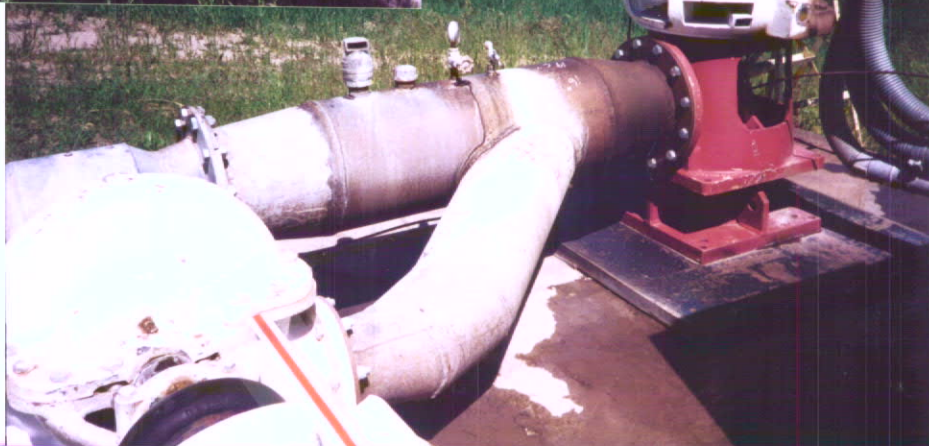
Work started April 29 finished May 20 70

## 11. DRILLERS CERTIFICATION

Firm Name Rocky Mountain Drilling Firm No. 79Address Rexburg Idaho Date 6/3/70Signed by (Firm Official) Marvin Zanderand Garion Zander  
(Operator)



WELL & PUMP



BOOSTER

22-7287

## WATER RIGHT SUMMARY

| ACTION                          | RIGHT NO.           | NAME                            | AMOUNT CFS     |
|---------------------------------|---------------------|---------------------------------|----------------|
| <del>Original Application</del> | <del>22-07287</del> | <del>Nedrow, Paul E.</del>      | <del>8.0</del> |
| <del>Full Assignment</del>      | <del>22-07287</del> | <del>Sensenback, Paula N.</del> | <del>8.0</del> |
|                                 |                     | <del>Nedrow, DeLynn P.</del>    |                |
|                                 |                     | <del>Nedrow, Jerry L.</del>     |                |
| Full Assignment                 | 22-07287            | Schwendiman, David Val          | 8.0            |

RECEIVED

FEB 22 1996

For Office Use Only  
 \$25.00 Filing Fee  
 Receipt # EO 21887  
 Date 2-7-1996

State of Idaho  
 DEPARTMENT OF WATER RESOURCES

RECEIVED

## ASSIGNMENT OF PERMIT

FEB 12 1996

To change the ownership of a permit

Department of Water Resources

I, JERRY L. NEAROW, hereby assign to DAVID VAL SCHWENDIMAN  
(Permit Holder)  
 of 15,000 E. Hwy 33 New Dale, Id. 83436 208-458-451  
(Full Address and Phone Number)

All my right, title, and interest in and to Permit No. 22-7287  
 to appropriate the public waters of the State of Idaho.

OR (for partial assignments)

The following described portion of my right, title, and interest in and to  
 Permit No. \_\_\_\_\_ to appropriate the public waters of the State of Idaho.

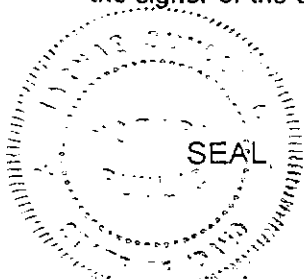
Describe portion of the permit assigned listing the number of acres in each 40 acre subdivision,  
 point of diversion location, and the amount of water in cubic feet per second.

Made this 25 day of January, 19 96.

Jerry L. Nearow  
 Permit Holder(s)

State of Idaho )  
 ) ss  
 County of Madison

On this 25 day of January, 199 6, personally appeared before me  
 the signer of the above instrument, duly acknowledged to me that he/she/they executed the same.



MARNAE SUNDBERG  
 Notary Public

Marnae Sundberg  
 Signature

My commission expires: 11-19-99

FEB 22 1996

For Office Use Only  
 \$25.00 Filing Fee  
 Receipt # 5021087  
 Date 2-7-1996

State of Idaho  
 DEPARTMENT OF WATER RESOURCES

ASSIGNMENT OF PERMIT

To change the ownership of a permit

I, PAULA N. SENSENBACH hereby assign to DAVID VAL SCHWENDMAN  
(Permit Holder)  
 of 15000 E. HWY 33 NEWDALE ID 83436  
(Full Address and Phone Number)

All my right, title, and interest in and to Permit No. 22-7287  
 to appropriate the public waters of the State of Idaho.

OR (for partial assignments)

The following described portion of my right, title, and interest in and to  
 Permit No. \_\_\_\_\_ to appropriate the public waters of the State of Idaho.

Describe portion of the permit assigned listing the number of acres in each 40 acre subdivision,  
 point of diversion location, and the amount of water in cubic feet per second.

Made this 25th day of January, 1996.

Paula Sensenbach  
 Permit Holder(s)

State of Idaho )  
 County of Bingham <sup>SS</sup>

On this 25th day of January, 19996, personally appeared before me  
 the signer of the above instrument, duly acknowledged to me that he/she/they executed the same.

Mildred J. Bullock  
 Notary Public

MILDRED J. BULLOCK  
 Notary Public

My commission expires: 11-28-01

Signature FEB 22 1996



For Office Use Only  
 \$25.00 Filing Fee  
 Receipt # 5021887  
 Date 2-7-1996

State of Idaho  
 DEPARTMENT OF WATER RESOURCES

ASSIGNMENT OF PERMIT

To change the ownership of a permit

I, DELYNN P. NEAROW, hereby assign to DAVID VAL SCHWENGMAN  
(Permit Holder)  
 of 15,000 E. HWY 33 NEWDALE ID. 83436  
(Full Address and Phone Number)

All my right, title, and interest in and to Permit No. 22-7287  
 to appropriate the public waters of the State of Idaho.

OR (for partial assignments)

The following described portion of my right, title, and interest in and to  
 Permit No. \_\_\_\_\_ to appropriate the public waters of the State of Idaho.

Describe portion of the permit assigned listing the number of acres in each 40 acre subdivision,  
 point of diversion location, and the amount of water in cubic feet per second.

Made this 25 day of January, 19 96.

DELYNN P. NEAROW  
 Permit Holder(s)

State of Idaho )  
 )  
 County of Madison )  
 SS

On this 25 day of January, 199 96, personally appeared before me  
 the signer of the above instrument, duly acknowledged to me that he/she/they executed the same.



MARNAE SUNDBERG

Notary Public

Marnae Sundberg

Signature

My commission expires: 11-19-99

158 2 21996

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State of Idaho

Department of Water Resources

NOV 09 1987

OCT 29 1987

ASSIGNMENT OF PERMIT

Department of Water Resources

Department of Water Resources

NEDROW FARMS, INC., an Idaho Corporation, and I, Glennis M. Nedrow, individually and as Personal Representative of the estate of Paul E. Nedrow, deceased hereby assign to Paula N. Sensenback, of Route 4, Box 264, Blackfoot, Idaho 83221; DeLynn P. Nedrow, of 568 South Fifth West, Rexburg, ID 83440; and Jerry L. Nedrow, of Route 1, Box 381, Rexburg, ID 83440 Address

CHECK ONE



All my right, title, and interest in and to Permit No. 22 7287 to appropriate the public waters of the State of Idaho.



The following described portion of my right, title, and interest in and to Permit No. \_\_\_\_\_ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within each 40 acre subdivision, the point of diversion and the amount of water in cubic feet per second for direct diversion, or acre feet for storage)

Made this 26th day of April, 1983.

ATTEST:

NEDROW FARMS, INC.

Dan P. Nedrow, Secretary

Glennis M. Nedrow, President

Glennis M. Nedrow, Personal Representative of the estate of Paul E. Nedrow

Glennis M. Nedrow, individually

State of Idaho )

County of Madison )

ss.

On this 26th day of April, 1983, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that ~~he or she~~ (they) executed the same, as the President and Secretary of Nedrow Farms, Inc., and Glennis M. Nedrow, individually, and Glennis M. Nedrow as Personal Representative of the estate of Paul E. Nedrow.

MICROFILMED

Notary Public residing at

Rexburg, Idaho 83440

MAR 08 1988

My commission expires:

with life

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JUL 31 1978

Department of Water Resources  
Eastern District Office

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
APPLICATION FOR PERMIT

Identification No. 22 7287

Application No. APPROVED

RECEIVED

DEC 10 1977

To Appropriate the Public Waters of the State of Idaho  
(TYPE OR PRINT IN INK)

Department of Water Resources

1. Name of applicant Paul E. Nedrow Phone: 208-356-5538  
post office address 270 South 500 West Rexburg, Idaho 83440
2. Source of water supply Subterranean which is a tributary of \_\_\_\_\_
3. a. Location of point of diversion is SW  $\frac{1}{4}$  of SW  $\frac{1}{4}$  of Section 23 Township 7N  
Range 42E B.M. Madison County; additional points of diversion if any: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
b. If water is not consumed, it will be discharged into \_\_\_\_\_ at a point in \_\_\_\_\_  $\frac{1}{4}$   
of \_\_\_\_\_  $\frac{1}{4}$  of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ B.M. \_\_\_\_\_
4. Water will be used for the following purposes:  
Amount 8 CFS for Irrigation purpose from April 1 to Nov. 1 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purpose from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purpose from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:  
a. Eight cubic feet per second and/or  
b. \_\_\_\_\_ acre feet per annum.
6. Proposed diverting works:  
a. Description of ditches, flumes, pumps, headgates, etc. Deep well with pump, motor,  
mainline, laterals, and sprinklers  
\_\_\_\_\_  
\_\_\_\_\_  
b. Height of storage dam \_\_\_\_\_ feet, active reservoir capacity \_\_\_\_\_ acre feet; total reservoir  
capacity \_\_\_\_\_ acre feet, materials used in storage dam: \_\_\_\_\_  
Period of year during which storage will occur \_\_\_\_\_ to \_\_\_\_\_ inclusive.  
(Mo. Day) (Mo. Day)  
c. Proposed well diameter is \_\_\_\_\_ inches; proposed depth of well is \_\_\_\_\_ feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use  
is 5 years.  
b. Estimated construction cost is \$ 150,000.
8. Description of proposed uses:  
a. If water is **not** for irrigation:  
(1) Give the place of use of water: \_\_\_\_\_  $\frac{1}{4}$  of \_\_\_\_\_  $\frac{1}{4}$  of Section \_\_\_\_\_ Township \_\_\_\_\_  
Range \_\_\_\_\_ B.M. \_\_\_\_\_  
(2) Amount of power to be generated: \_\_\_\_\_ hp under \_\_\_\_\_ feet of head.  
(3) List number of each kind of livestock to be watered \_\_\_\_\_  
\_\_\_\_\_  
(4) Name of municipality to be served \_\_\_\_\_, or number of families to be  
supplied with domestic water \_\_\_\_\_  
(5) If water is to be used for other purposes describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

| TWP. | RANGE | SEC. | NE 1/4 |        |        |        | NW 1/4 |        |        |        | SW 1/4 |        |        |        | SE 1/4 |        |        |        | TOTALS |
|------|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |       |      | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 |        |
| 7N   | 42E   | 23   |        |        |        |        |        |        |        |        | 40     | 40     | 40     | 40     |        |        |        |        | 160    |
| 7N   | 42E   | 22   |        | 40     | 40     | 40     | 40     | 40     | 40     | 40     |        | 40     |        |        | 40     | 40     |        |        | 400    |
| 7N   | 42E   | 21   |        |        |        |        |        |        |        |        |        |        |        |        | 40     |        |        |        | 40     |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|      |       |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

Total number of acres to be irrigated 600

c. Describe any other water rights used for the same purposes as described above.

9. a. Who owns the property at the point of diversion Applicant

b. Who owns the land to be irrigated or place of use Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing

10. Remarks

A hand-drawn map on a grid. A north arrow is located in the upper left quadrant, pointing towards the top of the page. A path is drawn with three numbered points: 21, 22, and 23. Point 21 is at the intersection of the second vertical line from the left and the second horizontal line from the top. Point 22 is at the intersection of the third vertical line from the left and the third horizontal line from the top. Point 23 is at the intersection of the fourth vertical line from the left and the fourth horizontal line from the top. The path connects these points in a zig-zag fashion: from 21 to 22, then from 22 to 23, and then from 23 back to 22. The path is drawn with a solid line. The grid consists of 10 vertical lines and 10 horizontal lines, creating a 9x9 grid of squares. The north arrow is drawn with a vertical line and a horizontal line, with the letter 'N' at the top. The numbers 21, 22, and 23 are written next to their respective points.

**INZ-I**

Paul Helrow  
(Applicant)

**Major**

Proposed Priority 1-16-79

dh 1-16-79 Noon

dh 12-21-78 Noon

BP 7-31-78 11:15 AM

me 12-21-77 11:30 a.

Received by MR Date 12-19-77 Time 6:30

Preliminary check by JC Fee \$ 105.00 # 12835

Receipted by dh Date 1-17-79

Publication prepared by dh Date 1-19-79

Published in STANDARD JOURNAL

Publication dates JAN 25 + FEB 1, 1979

Publication approved Q7 Date 2-8-1979

Priority reduced to \_\_\_\_\_ Reason \_\_\_\_\_

Protests filed by: \_\_\_\_\_

Copies of protests forwarded by \_\_\_\_\_

Hearing held by \_\_\_\_\_ Date \_\_\_\_\_

Recommended for approval denial by MC J.S.

#### ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 22-7287, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before February 1, 19 84.

c. Other: An access port of other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.

2. Denial of said application is for the following reasons: \_\_\_\_\_

Witness my hand this 23 day of February, 19 79.

J. Glen Saxton  
Chief, Operations Bureau

**AFFIDAVIT OF  
PUBLICATION**

State of Idaho

County of Fremont

ss.

Raymond F. Nash

being first duly sworn, upon his  
oath, deposes and says:

That he is the Editor  
of The Chronicle-News, a news-  
paper as defined by Idaho  
Codes Annotated, section 58-106,  
as amended, and that said  
newspaper is a weekly news-  
paper printed and published at  
St. Anthony, in Fremont County,  
Idaho, having a general circula-  
tion in said county, and that  
said newspaper has been print-  
ed and published as a weekly  
newspaper in said county for  
more than 78 consecutive weeks  
prior to the first publication of  
the attached notice, advertise-

ment or publication of .....

Notice of Application

For Water Right

And affiant further says that  
said notice, advertisement or  
publication, as per clipping  
attached, was published in said  
newspaper, in the regular and  
entire issue thereof, and not in  
any supplement issue thereof,

for 2 consecutive is-  
sues thereof; first publication

having been made on the 25

day of January, 1979,

and the last publication on the

1 day of February

19 79

And affiant further says that at  
the times herein mentioned said  
newspaper was made up of at  
least four pages of at least five  
columns each, printed from  
type matter, of at least seven-  
teen and three-fourths inches  
deep.

Raymond F. Nash  
Subscribed in my presence and

sworn to before me this 2

day of February

19 79

Jeri Gainer  
Notary Public for the  
State of Idaho, resi-  
(SEAL) dence and post office  
address: St. Anthony,  
Idaho.

**RECEIVED**

FEB 6 1979

Department of Water Resources  
Eastern District Office

**NOTICE OF APPLICATION  
FOR WATER RIGHT**

Notice is hereby given that the following  
application(s) have been submitted for  
permit to appropriate the public waters of  
the State of Idaho:

Application No. 22-7287

NEDROW, PAUL E., 270 SOUTH 500  
WEST, REXBURG, ID 83440.

Source: GROUNDWATER

Date File: 01/16/1979

Amount: 8.00 CFS

Diversion Point: SWSW Sec 23 T 07N R  
42E, MADISON Co.

Use: IRRIGATION (8.00 CFS) from 04/01  
to 11/01

Place of Use: NESW NWSW SWSW  
SESW Sec 23 T 07N R 42E NWNE SWNE  
SENE NENW NWNW SWNW SENW Sec 22  
T 07N R 42E NWSW NESE NWSE Sec 22 T  
07N R 42E NESE Sec 21 T 07N R 42E FOR  
600 ACRES

Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to  
all prior water rights. Protests against the  
granting of any permit must be filed with  
the Director of the Idaho Department of  
Water Resources, 1515 Lincoln Rd., Idaho  
Falls, Idaho 83401 on or before FEBRUARY  
12, 1979.

C. STEPHEN ALLRED  
Director

Publ. Jan. 25, Feb. 1, 1979CN

**MICROFILMED**

The REXBURG STANDARD and  
The REXBURG JOURNAL  
REXBURG, IDAHO

**Affidavit of Publication**

STATE OF IDAHO }  
County of Madison } ss.

I, Bruce Porter  
being first duly sworn, depose and say,  
that I am the printer of THE REXBURG

Journal, a newspaper printed and  
published weekly at Rexburg, Madison  
County, Idaho; and I do solemnly swear  
that the

Notice of Water Right No. 22-7287

a copy of which notice appears attached  
hereto, was published in the regular and  
entire issue of said newspaper, and not in

any supplement issue thereof for two  
consecutive issues, the first publication hav-

ing been made on January 25, 1979  
and the last publication having been made

on February 1, 1979.

Further, that said newspaper is one of  
general circulation in said county; that it  
is a legal newspaper, conforming to legal  
specifications under the Idaho Statutes; that  
it has at least two hundred bona fide sub-  
scribers living within the county of publica-  
tion; and that it has been continuously and  
uninterruptedly published in said county dur-  
a period of seventy-eight consecutive weeks  
prior to the first publication of the said not-  
ice.



Subscribed to and sworn to before me

this February 2, 1979

(SEAL)

Notary Public.

My commission expires life

RECEIVED

FEB 2 1979

Department of Water Resources  
Eastern District Office-

**NOTICE OF APPLICATION  
FOR WATER RIGHT**

Notice is hereby given that the following  
application(s) have been submitted for  
permit to appropriate the public waters of  
the State of Idaho:

Application No. 22-7287  
NEDROW, PAUL E., 270 SOUTH 500  
WEST, REXBURG, ID 83440.

Source: GROUNDWATER

Date Filed: 01/16/1979

Amount: 8.00 CFS

Diversion Point: SWSW Sec. 23 T. 07N R.  
42E, MADISON Co.

Use: IRRIGATION (8.00 CFS) from 04/01  
to 11/01

Place of Use: NESW NWSW SWSW  
SESW Sec 23 T 07N R 42E NWNE SWNE  
SENE NENW NWNW SWNW SENW Sec 22  
T 07N R 42E NWSW NESE NWSE Sec 22 T  
07N R 42E NESE Sec 21 T 07N R 42E FOR  
600 ACRES

Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to  
all prior water rights. Protests against the  
granting of any permit must be filed with  
the Director of the Idaho Department of  
Water Resources, 1515 Lincoln Rd., Idaho  
Falls, Idaho 83401 on or before FEBRUARY  
12, 1979.

C. STEPHEN ALLRED  
Director

Publ. Jan. 25, Feb. 1, 1979J

87-A

MICROFILMED

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

RECEIVED  
NOV 29 1996  
Department of Water Resources

**A. GENERAL INFORMATION**

Permit No. 22-07287

1. Owner: David V. Schwendiman

Phone No. 458-4513

Current Address: 15000 E Hwy 33, Newdale 83436

2. Accompanied by: David Schwendiman

EXAM DATE: 7-17-95  
6-28-95

Address: \_\_\_\_\_

Phone No. \_\_\_\_\_

Relationship to Permit Holder: \_\_\_\_\_

3. Source: GROUNDWATER

tributary to \_\_\_\_\_

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NONE

2. Other water rights with the same point of diversion: NONE

**C. DIVERSION AND DELIVERY SYSTEM**

**1. Point(s) of Diversion:**

| Ident No. | Gov't Lot | 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. | County  | Method of Determination/Remarks |
|-----------|-----------|-----|-----|-----|------|------|------|---------|---------------------------------|
|           |           |     | SW  | SW  | 23   | 7N   | 42E  | MADISON | ON SITE/USGS MAP/AERIAL PHOTO   |
|           |           |     |     |     |      |      |      |         |                                 |
|           |           |     |     |     |      |      |      |         |                                 |
|           |           |     |     |     |      |      |      |         |                                 |

**2. Place(s) of Use:**

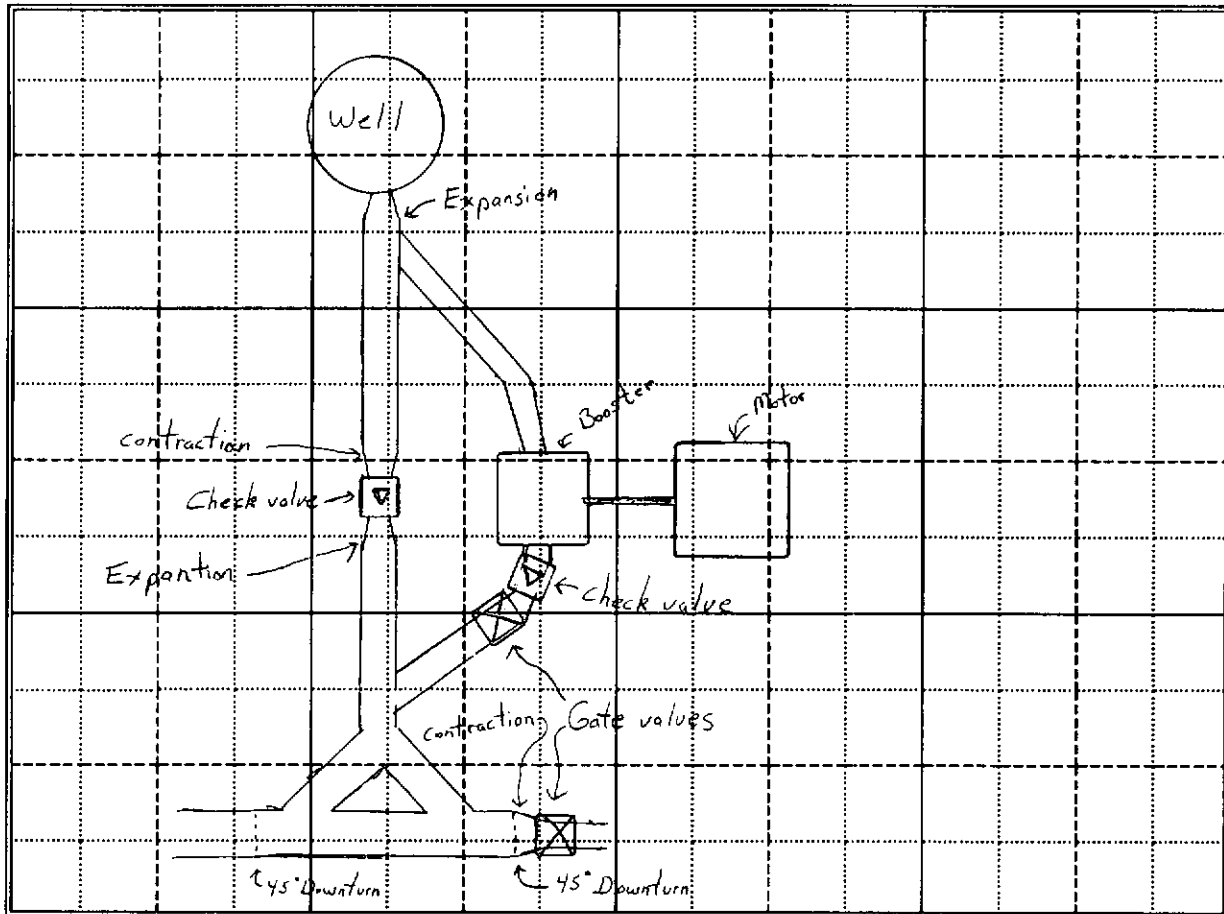
Indicate Method of Determination \_\_\_\_\_

| TWP                                                       | RGE | SEC | NE |    |    |    | NW |    |    |    | SW |    |     |     | SE |    |    |    | Totals |
|-----------------------------------------------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|--------|
|                                                           |     |     | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE  | NE | NW | SW | SE |        |
| 7N                                                        | 42E | 21  | 7  |    |    | 33 |    |    |    |    |    |    |     |     | 39 |    |    |    | 79     |
|                                                           |     | 22  | 19 | 17 | 39 | 39 | 33 | 33 | 39 | 39 | 18 | 39 |     |     | 39 | 39 |    |    | 393    |
|                                                           |     | 23  |    |    |    |    |    | 2  | 27 | 3  | 23 | 39 | 38  | 39  |    |    |    |    | 171    |
|                                                           |     | 15  |    |    |    |    |    |    |    |    |    |    | 1.5 | 0.3 |    |    |    |    | 1.7    |
|                                                           |     |     |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    | 644.7  |
| — SEE ATTACHED SHEET FOR RECOMMENDED LICENSE PLACE OF USE |     |     |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    | —      |

FOUND

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

N 1



Scale: 1" = \_\_\_\_\_

\_\_\_\_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

\_\_\_\_ Aerial Photo Attached (required for irrigation of 10+ acres)

\_\_\_\_ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make    | Hp  | Motor Serial No. | Pump Make        | Pump Serial No. or Discharge Size |
|---------------------------------------|---------------|-----|------------------|------------------|-----------------------------------|
| Well                                  | General Elect | 500 | HH3811017        | Peerless         | F21698                            |
| Booster                               | U.S. Motors   | 150 | C1004949         | Fairbanks Morris | KTFN100258                        |
|                                       |               |     |                  |                  |                                   |

\*Code to correspond with No. on map and aerial photo

#### D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements: [39 1/2 Cir 12.4 OD pipe] Measurement site <sup>CIRC.</sup> 50.5" = 16.674" od  
0.139" H<sub>2</sub>O head



## THEORETICAL PUMP FLOW CALCULATIONS

Formula:

$$Q_{cfs} = [(Hp)(8.814)(Eff)] \div [Lift + (psi \times 2.308)]$$

$$\begin{aligned} Hp &= \text{Horsepower} = \underline{500} \\ Eff &= \text{Efficiency} = \underline{70\%} \quad (\text{Usually } 70\%) \\ \text{Lift: } &(\text{Static Level} + \text{Assumed Draw down}) \\ &\text{Static Water Level} = \underline{430} \text{ ft.} \\ &\text{Assumed Draw down} = + \underline{150} \text{ ft.} \\ &\text{Lift} = \underline{580} \end{aligned}$$

OR

$$\text{Measured Dynamic Water Level} = \underline{\hspace{2cm}} \text{ ft.}$$

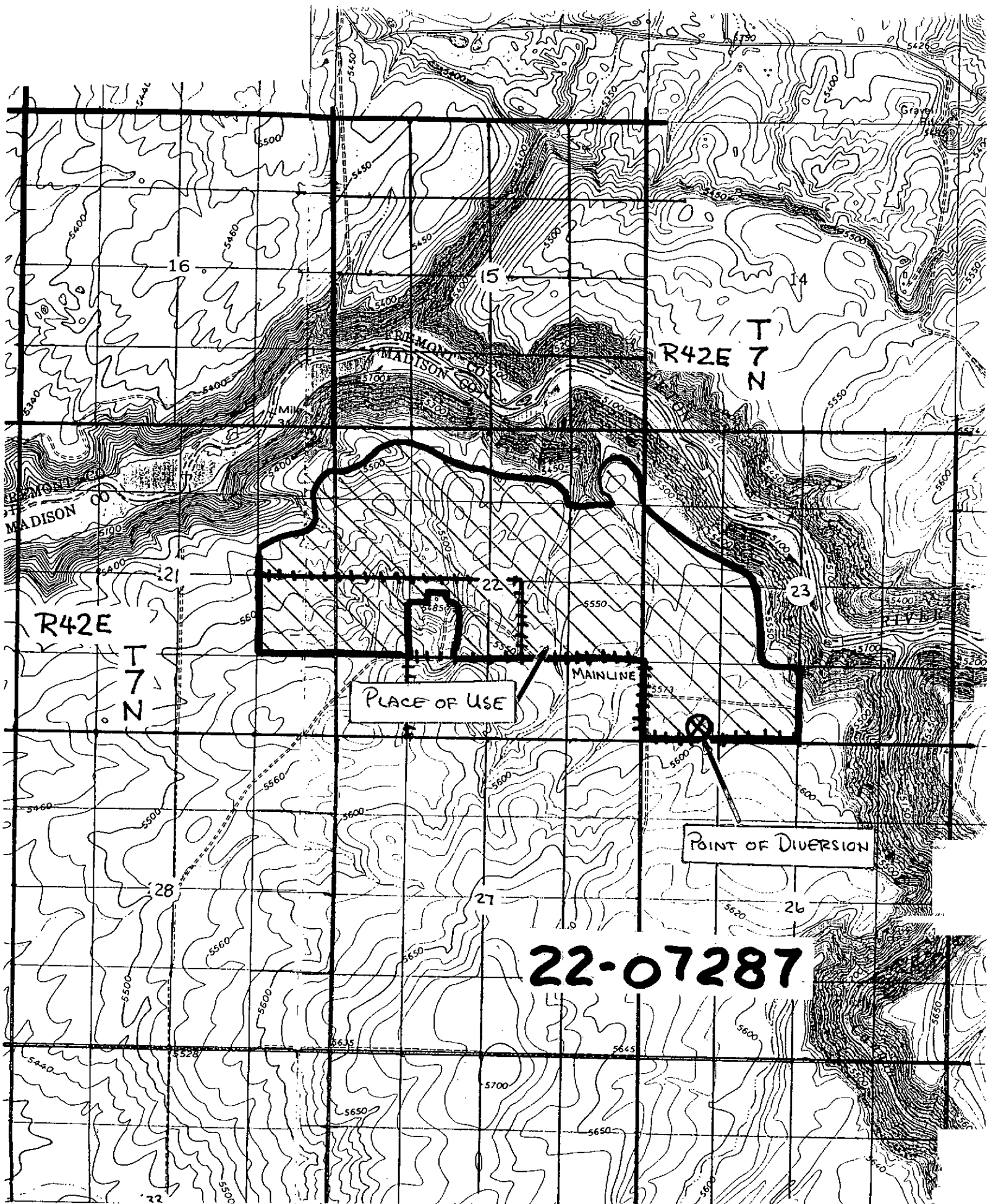
$$psi = \text{Operating Pressure} = \underline{10} \text{ psi}$$

$$Q_{cfs} = \left[ \frac{500}{Hp} \times 8.814 \times \frac{0.70}{eff} \right] \div \left[ \frac{580}{Lift} + \left( \frac{10}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[ \underline{3084.9} \right] \div \left[ \underline{603.08} \right]$$

$$Q_{cfs} = \underline{5.12} \text{ cfs}$$

PERMIT NO. 22-7287



22-07287

State of Idaho  
DEPARTMENT OF WATER RESOURCES  
SUPPLEMENTAL FIELD REPORT FOR ANNUBAR MEASUREMENT

Measured by: KETH C WILSON

Date 7-17-95

Owner: DAVID SCHWENDIMAN

Permit No. 22-7287

Description of well &/or measuring site

- Include any clarifications of the sketch
- Include legal description if more than one p.d. is described in the Field Report

Measurement site is 100' west of pump on a portion of buried mainline that was close to ground surface

MEASURED INSIDE PIPE DIAMETER IN INCHES (ID)

CIR = Pipe Circumference in Inches =                      OD = 16.074"

T = Pipe Thickness in Inches = 0.139"

ID = 2 [ ( 0.1592 X CIR ) - T ] =                     15.796"

ANNUBAR DESCRIPTION & CONSTANT (C)

Size Used in Test 15.25"

State ID No. # 191170

Select C based on size from Table below.

| Nominal Pipe Size | C           |
|-------------------|-------------|
| 4"                | 4.23        |
| 6"                | 3.75        |
| 8"                | 3.87        |
| 10"               | 3.94        |
| 12"               | 3.99        |
| 14"- 16"          | <u>4.01</u> |
| 18"- 24"          | 4.02        |
| 30" or larger     | 4.03        |

C selected 4.01

DIFFERENTIAL PRESSURE READING IN INCHES OF H<sub>2</sub>O (H)

High Reading =                     

Low Reading =                     

High - Low = H = 3.5"

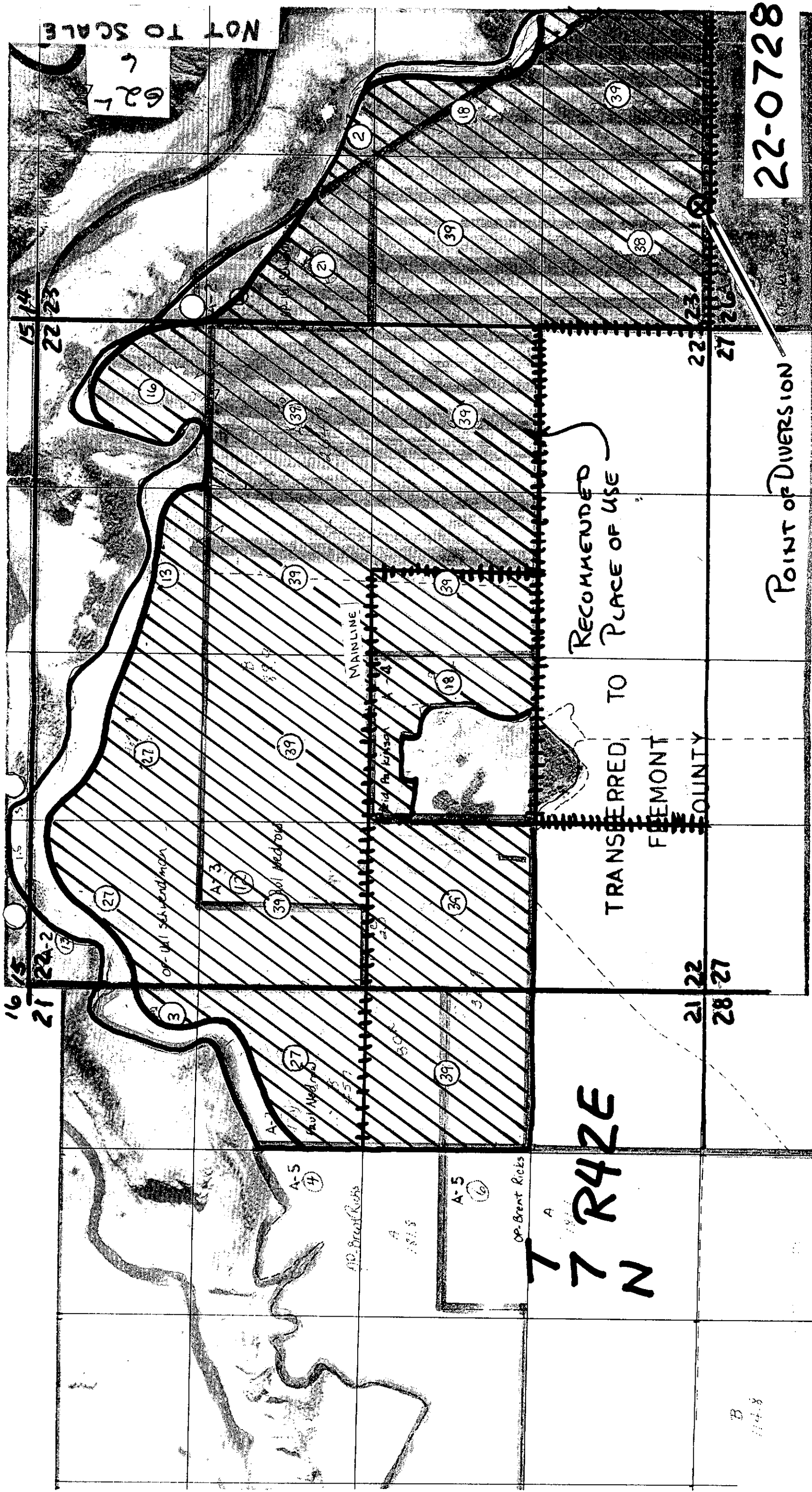
CALCULATION OF DISCHARGE IN CFS (Q)

$$Q = \frac{(ID)^2 \cdot (\sqrt{H}) \cdot (C)}{448.8}$$

1871.8 gpm

$$Q = \frac{(15.796)^2 \cdot (\sqrt{3.5}) \cdot (4.01)}{448.8} = 4.17 \text{ cfs}$$

SKETCH (If not shown on Field Report)



627  
6  
NOT TO SCALE

RECOMMENDED  
PLACE OF USE

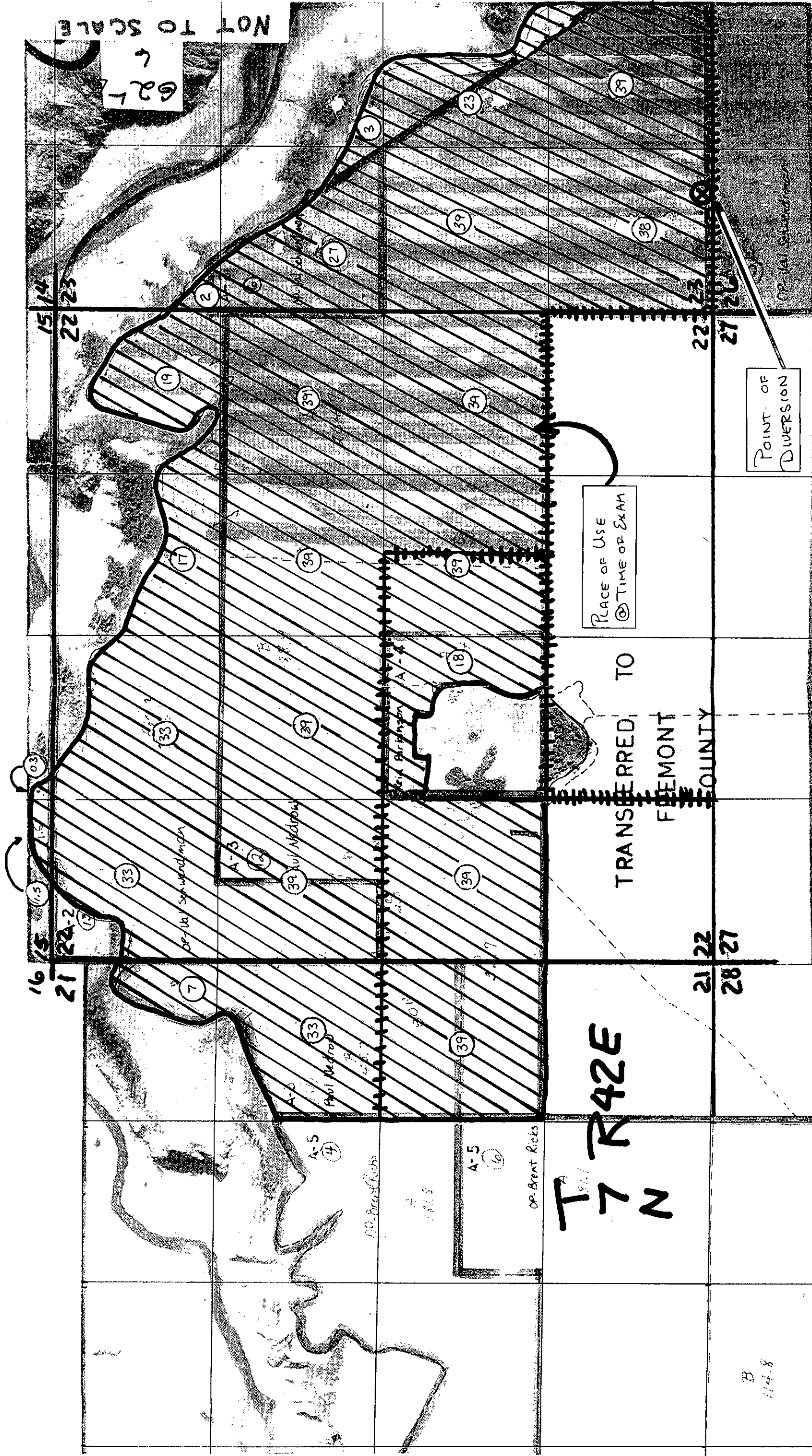
TRANFERRED TO  
FREMONT  
COUNTY

POINT OF DIVERSION

22-07287

7 R42E  
7 N

B  
114.8



22-7287

USE TYPEWRITER  
BALL POINT PEN

State of Idaho  
Department of Water Resources

# WELL DRILLER'S REPORT

RECEIVED

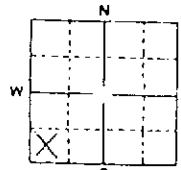
State law requires that this report be filed with the Director, Department of Water Resources, within 30 days after the completion or abandonment of the well.

David's  
Nedrow well

July 17, 1995

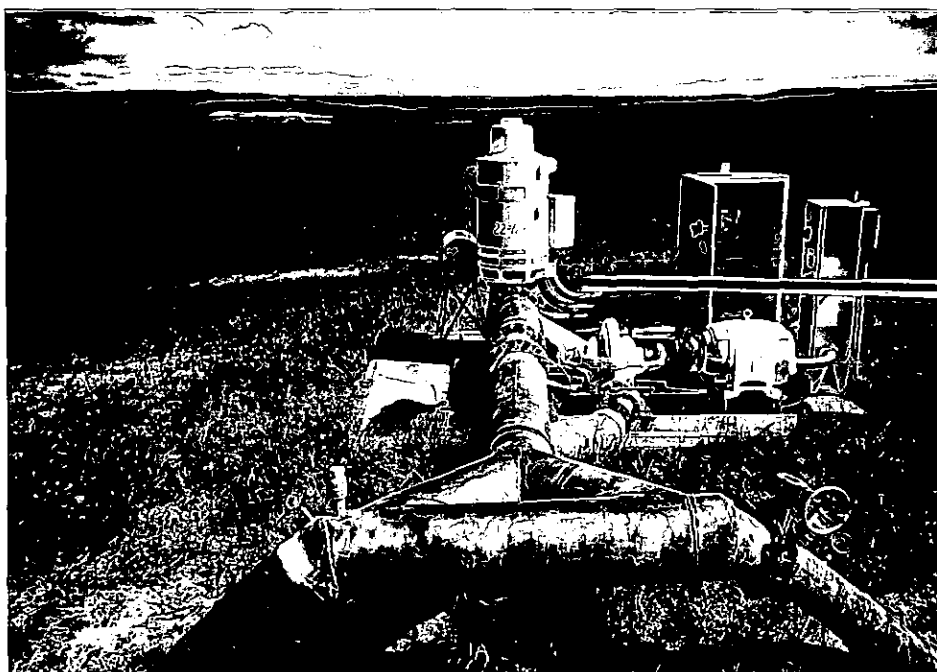
Steve Mueller  
Keith Wilson  
field exam done

1872 gpm  
4.17 cfs

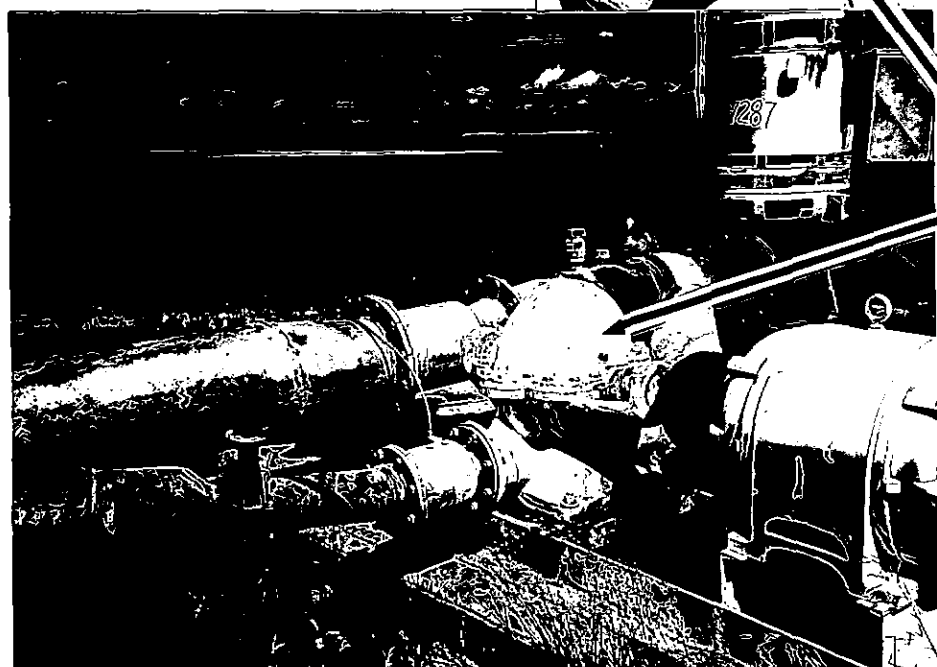
| <b>1. WELL OWNER</b><br>Name <u>Paul Nedrow</u><br>Address <u>Rexburg Idaho</u><br>Owner's Permit No. <u>22-7287</u>                                                                                                                                                                                                                                       |           | <b>2. WATER LEVEL</b> <u>430'</u> JUN 8 1970<br>Static water level <u>430'</u> feet below <u>surface</u> District Office<br>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____<br>Temperature <u>65</u> ° F. Quality _____<br>Artesian closed-in pressure _____ p.s.i.<br>Controlled by <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|-----------|--------------|----------|-------------|-----------|----|----|-------------|-----------|------------|----|-------------|-----------|----|-----------|--|--|----|----|---------------|--|--|----|----|----------------------------|--|--|--------|------|------------------|-----|-----|-----|----|------------------------|--|--|----|-----|---------------|--|--|-----|-----|-----------------------------|--|--|-----|-----|------------------------|--|--|-----|-----|-------------|--|--|-----|-----|-------------------------------|--|--|-----|-----|--------------------|--|--|-----|-----|----------------------------|--|--|-----|-----|------------------------------|--|--|-----|-----|---------------|--|--|-----|-----|--------------|--|--|-----|-----|---------------------------|--|--|-----|-----|--------------------------|--|--|-----|-----|-------------------------------|--|--|-----|-----|-------------------------|--|--|-----|-----|-------------------|--|----|-----|-----|--------|--|--|-----|-----|--------------------------------|--|--|-----|-----|----------------------|--|--|-----|-----|----------------------|--|--|-----|-----|---------------|--|--|-----|-----|-------------------|--|--|-----|-----|-----------------|--|--|-----|-----|------|--|--|-----|-----|-----------------|--|--|-----|-----|-------------------|--|--|-----|-----|------------|--|
| <b>3. NATURE OF WORK</b><br><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement<br><input type="checkbox"/> Abandoned (describe method of abandoning) _____                                                                                                                                |           | <b>4. WELL TEST DATA</b><br><input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input type="checkbox"/> Other _____<br><table border="1"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Draw Down</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                | Discharge G.P.M. | Draw Down | Hours Pumped |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| Discharge G.P.M.                                                                                                                                                                                                                                                                                                                                           | Draw Down | Hours Pumped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
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| <b>5. PROPOSED USE</b><br><input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Other (specify type) _____<br><input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection |           | <b>6. LITHOLOGIC LOG</b><br><table border="1"> <thead> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th rowspan="2">Wet</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>10</td><td>0</td><td>15</td><td>brown clay</td><td> </td></tr> <tr><td> </td><td>15</td><td>30</td><td>gray lava</td><td> </td></tr> <tr><td> </td><td>30</td><td>50</td><td>green siltite</td><td> </td></tr> <tr><td> </td><td>50</td><td>60</td><td>red green siltite + gravel</td><td> </td></tr> <tr><td> </td><td>60</td><td>80</td><td>hard gray basalt</td><td> </td></tr> <tr><td> </td><td>80</td><td>85</td><td>green + purple siltite</td><td> </td></tr> <tr><td> </td><td>85</td><td>105</td><td>green siltite</td><td> </td></tr> <tr><td> </td><td>105</td><td>130</td><td>gray basalt + green siltite</td><td> </td></tr> <tr><td> </td><td>130</td><td>160</td><td>brown siltite + gravel</td><td> </td></tr> <tr><td> </td><td>160</td><td>180</td><td>gray basalt</td><td> </td></tr> <tr><td> </td><td>180</td><td>240</td><td>brown siltite + gravel + clay</td><td> </td></tr> <tr><td> </td><td>240</td><td>275</td><td>brown gray siltite</td><td> </td></tr> <tr><td> </td><td>275</td><td>320</td><td>brown green + gray siltite</td><td> </td></tr> <tr><td> </td><td>320</td><td>395</td><td>brown green + purple siltite</td><td> </td></tr> <tr><td> </td><td>395</td><td>415</td><td>brown siltite</td><td> </td></tr> <tr><td> </td><td>415</td><td>445</td><td>gray siltite</td><td> </td></tr> <tr><td> </td><td>445</td><td>460</td><td>blue green siltite + clay</td><td> </td></tr> <tr><td> </td><td>460</td><td>505</td><td>blue gray siltite + clay</td><td> </td></tr> <tr><td> </td><td>505</td><td>540</td><td>brown siltite + gravel + clay</td><td> </td></tr> <tr><td> </td><td>540</td><td>570</td><td>very hard black siltite</td><td> </td></tr> <tr><td> </td><td>570</td><td>645</td><td>sticky gumbo clay</td><td> </td></tr> <tr><td>16</td><td>645</td><td>685</td><td>gravel</td><td> </td></tr> <tr><td> </td><td>685</td><td>715</td><td>very hard gray + green siltite</td><td> </td></tr> <tr><td> </td><td>715</td><td>785</td><td>very hard black rock</td><td> </td></tr> <tr><td> </td><td>785</td><td>820</td><td>coarse green siltite</td><td> </td></tr> <tr><td> </td><td>820</td><td>875</td><td>packed gravel</td><td> </td></tr> <tr><td> </td><td>875</td><td>927</td><td>sticky gumbo clay</td><td> </td></tr> <tr><td> </td><td>927</td><td>930</td><td>hard black rock</td><td> </td></tr> <tr><td> </td><td>930</td><td>980</td><td>clay</td><td> </td></tr> <tr><td> </td><td>980</td><td>990</td><td>hard black rock</td><td> </td></tr> <tr><td> </td><td>990</td><td>995</td><td>sticky gumbo clay</td><td> </td></tr> <tr><td> </td><td>995</td><td>998</td><td>solid clay</td><td> </td></tr> </tbody> </table> |                                | Hole Diam.       | Depth     |              | Material | Wet         | From      | To | 10 | 0           | 15        | brown clay |    |             | 15        | 30 | gray lava |  |  | 30 | 50 | green siltite |  |  | 50 | 60 | red green siltite + gravel |  |  | 60     | 80   | hard gray basalt |     |     | 80  | 85 | green + purple siltite |  |  | 85 | 105 | green siltite |  |  | 105 | 130 | gray basalt + green siltite |  |  | 130 | 160 | brown siltite + gravel |  |  | 160 | 180 | gray basalt |  |  | 180 | 240 | brown siltite + gravel + clay |  |  | 240 | 275 | brown gray siltite |  |  | 275 | 320 | brown green + gray siltite |  |  | 320 | 395 | brown green + purple siltite |  |  | 395 | 415 | brown siltite |  |  | 415 | 445 | gray siltite |  |  | 445 | 460 | blue green siltite + clay |  |  | 460 | 505 | blue gray siltite + clay |  |  | 505 | 540 | brown siltite + gravel + clay |  |  | 540 | 570 | very hard black siltite |  |  | 570 | 645 | sticky gumbo clay |  | 16 | 645 | 685 | gravel |  |  | 685 | 715 | very hard gray + green siltite |  |  | 715 | 785 | very hard black rock |  |  | 785 | 820 | coarse green siltite |  |  | 820 | 875 | packed gravel |  |  | 875 | 927 | sticky gumbo clay |  |  | 927 | 930 | hard black rock |  |  | 930 | 980 | clay |  |  | 980 | 990 | hard black rock |  |  | 990 | 995 | sticky gumbo clay |  |  | 995 | 998 | solid clay |  |
| Hole Diam.                                                                                                                                                                                                                                                                                                                                                 | Depth     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Material                       |                  | Wet       |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | From      | To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| 10                                                                                                                                                                                                                                                                                                                                                         | 0         | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | brown clay                     |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
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|                                                                                                                                                                                                                                                                                                                                                            | 50        | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | red green siltite + gravel     |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 60        | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | hard gray basalt               |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 80        | 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | green + purple siltite         |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 85        | 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | green siltite                  |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 105       | 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | gray basalt + green siltite    |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 130       | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown siltite + gravel         |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 160       | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | gray basalt                    |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 180       | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown siltite + gravel + clay  |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 240       | 275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown gray siltite             |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 275       | 320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown green + gray siltite     |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 320       | 395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown green + purple siltite   |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 395       | 415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown siltite                  |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 415       | 445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | gray siltite                   |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 445       | 460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | blue green siltite + clay      |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 460       | 505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | blue gray siltite + clay       |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 505       | 540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | brown siltite + gravel + clay  |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 540       | 570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | very hard black siltite        |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 570       | 645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sticky gumbo clay              |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| 16                                                                                                                                                                                                                                                                                                                                                         | 645       | 685                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | gravel                         |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 685       | 715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | very hard gray + green siltite |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 715       | 785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | very hard black rock           |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 785       | 820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | coarse green siltite           |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 820       | 875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | packed gravel                  |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 875       | 927                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sticky gumbo clay              |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 927       | 930                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | hard black rock                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 930       | 980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | clay                           |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 980       | 990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | hard black rock                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 990       | 995                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sticky gumbo clay              |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
|                                                                                                                                                                                                                                                                                                                                                            | 995       | 998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | solid clay                     |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| <b>7. METHOD DRILLED</b><br><input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rotary <input type="checkbox"/> Dug <input type="checkbox"/> Other _____                                                                                                                                                                                    |           | <b>8. WELL CONSTRUCTION</b><br>Diameter of hole <u>20</u> inches Total depth <u>940</u> feet<br>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete<br><table border="1"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>3.17 inches</td><td>20 inches</td><td>1</td><td>10</td></tr> <tr><td>2.50 inches</td><td>16 inches</td><td>1</td><td>65</td></tr> <tr><td>2.50 inches</td><td>12 inches</td><td>70</td><td>510</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Was a packer or seal used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Perforated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>How perforated? <input type="checkbox"/> Factory <input checked="" type="checkbox"/> Knife <input type="checkbox"/> Torch<br>Size of perforation <u>2</u> inches by <u>3</u> inches<br><table border="1"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>200</td><td>650</td><td>660</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Manufacturer's name _____ Model No. _____<br>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Size of gravel _____<br>Placed from _____ feet to _____ feet<br>Surface seal depth <u>19'</u> Material used in seal <input type="checkbox"/> Cement grout <input type="checkbox"/> Pudding clay <input checked="" type="checkbox"/> Well cuttings<br>Sealing procedure used <input type="checkbox"/> Sherry pit <input type="checkbox"/> Temporary surface casing <input checked="" type="checkbox"/> Overbore to seal depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | Thickness        | Diameter  | From         | To       | 3.17 inches | 20 inches | 1  | 10 | 2.50 inches | 16 inches | 1          | 65 | 2.50 inches | 12 inches | 70 | 510       |  |  |    |    |               |  |  |    |    |                            |  |  | Number | From | To               | 200 | 650 | 660 |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| Thickness                                                                                                                                                                                                                                                                                                                                                  | Diameter  | From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | To                             |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| 3.17 inches                                                                                                                                                                                                                                                                                                                                                | 20 inches | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                             |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| 2.50 inches                                                                                                                                                                                                                                                                                                                                                | 16 inches | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 65                             |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| 2.50 inches                                                                                                                                                                                                                                                                                                                                                | 12 inches | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 510                            |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
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|                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |
| <b>9. LOCATION OF WELL</b><br>Sketch map location must agree with written location.<br><br>Subdivision Name _____<br>Lot No. _____ Block No. _____<br>County <u>Mackay</u><br><u>SW 1/4 Sec. 23 T. 7 N. R. 42 E.</u>                                                    |           | <b>10. DRILLERS CERTIFICATION</b><br>Firm Name <u>Rocky Mountain Drilling</u> Firm No. <u>29</u><br>Address <u>Rexburg Idaho</u> Date <u>6/3/70</u><br>Signed by (Firm Official) <u>Maurice Franzen</u><br>and <u>Alan Franzen</u><br>(Operator)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                  |           |              |          |             |           |    |    |             |           |            |    |             |           |    |           |  |  |    |    |               |  |  |    |    |                            |  |  |        |      |                  |     |     |     |    |                        |  |  |    |     |               |  |  |     |     |                             |  |  |     |     |                        |  |  |     |     |             |  |  |     |     |                               |  |  |     |     |                    |  |  |     |     |                            |  |  |     |     |                              |  |  |     |     |               |  |  |     |     |              |  |  |     |     |                           |  |  |     |     |                          |  |  |     |     |                               |  |  |     |     |                         |  |  |     |     |                   |  |    |     |     |        |  |  |     |     |                                |  |  |     |     |                      |  |  |     |     |                      |  |  |     |     |               |  |  |     |     |                   |  |  |     |     |                 |  |  |     |     |      |  |  |     |     |                 |  |  |     |     |                   |  |  |     |     |            |  |

22-7287

Work started April 29 finished May 20



WELL & PUMP



BOOSTER

22-7287

2  
?  
SETUP NO. 1

PIPE O.D. 16.074 IN

PIPE WALL THICKNESS 0.139 IN

PIPE I.D. 15.796 IN

PIPE MATERIAL CARBON STEEL

PIPE SOUND VELOCITY 10597.129 F/S

LINER MATERIAL NONE

LINER SOUND VELOCITY 0.000 F/S

LINER THICKNESS 0.000 IN

INSIDE ABS ROUGHNESS 0.00015000

FLUID MATERIAL WATER

FLUID SOUND VELOCITY 4863.330 F/S

FLUID VISCOSITY 1.132 Cst

TRANSDUCER TYPE STANDARD

TRANSDUCER MOUNTING

TRANSDUCER SPACING 13.142 IN

FLOW 1357.427 GPM  
2.222 F/S

SIGNAL STRENGTH UP

SIGNAL STRENGTH DOWN

FLOW 1411.353 GPM  
2.311 F/S

FLOW 1384.888 GPM  
2.267 F/S

FLOW 1373.917 GPM  
2.249 F/S

FLOW 1410.392 GPM  
2.309 F/S

FLOW 1422.357 GPM  
2.328 F/S

FLOW 1431.419 GPM  
2.343 F/S

FLOW 1443.341 GPM  
2.363 F/S

1431.419 GPM  
2.343 F/S  
FLOW 1443.341 GPM  
2.363 F/S  
FLOW 1451.638 GPM  
2.376 F/S

13:13:23 06-28-95

SCALE FACTOR = 0.990  
OFFSET(GPM) = 0.000  
nsec OFFSET = 7.17  
usec OFFSET = 0.73  
XMT\_DET\_DLV. = 17.85  
PERATION FAC. = 1.00  
XDUCE: STANDARD/U

WIN\_DLV = 572.03 UP 571.39 DOWN  
SEVR = 1.47 0.73  
BIAS = 0.57 0.57  
RGC = 1.25 1.25  
SIG\_STG = 7.57 7.49  
MISSED = 0 0  
TIME(us) = 589.6 589.3  
DEL TIME(ns) = 245.9  
DIFF COUNT = 1017  
P2% = 78  
SPS = 10.56  
PERATION = 0.000

FLUID (F/S) = 4863.33  
REYNOLDS NO. = 256625  
PROFILE FACTOR = 0.9448

FLOW: = 1452.868 GPM  
2.378 F/S

FLOW 1457.076 GPM  
2.385 F/S

ADJUSTING GAIN 2.440 F/S

FLOW 1478.916 GPM  
2.421 F/S

SIGNAL STRENGTH UP

SIGNAL STRENGTH DOWN

ADJUSTING GAIN 2.433 F/S

FLOW 1485.841 GPM  
2.432 F/S

FLOW 1488.958 GPM  
2.437 F/S

FLOW 1490.839 GPM  
2.440 F/S

FLOW 1491.729 GPM  
2.442 F/S

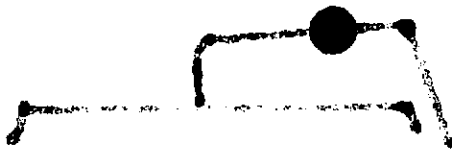
FLOW 1515.296 GPM  
2.460 F/S

FLOW 1547.168 GPM  
2.533 F/S

FLOW 1512.705 GPM  
2.476 F/S

22-7287

3.45 f/s



Polysonic

FLOW  
MEASUREMENT  
TAPE

22-7287

---

4

E. NARRATIVE/REMARKS/COMMENTS

Well pump, booster, mainline to laterals w/sprinklers

BECAUSE OF PROBLEMS DEALING WITH OWNERSHIP OF THE WELL, NOTHING HAS BEEN DONE ABOUT THE SET OF BOWLS THAT ARE AT THE BOTTOM OF THE WELL. THEREFORE, I RECOMMEND USING THE THEORETICAL CAPACITY TO LICENSE THIS PERMIT THEN ALLOW THE PERMIT HOLDERS TO OBTAIN A DRILLING PERMIT TO EITHER DRILL THROUGH THE BOWLS OR TO DRILL A NEW WELL TO BRING THEIR DIVERSION SYSTEM UP TO THEORETICAL CAPACITY.

Have conditions of permit approval been met? ☒ yes ☐ no

**F. FLOW CALCULATIONS**

\_\_\_\_ Additional Computation Sheets Attached

Measured Method:

Polysonic measurement =  $Q = 3.45 \text{ cfs}$   
Annubar measurement =  $Q = 4.17 \text{ cfs}$   
Theoretical =  $5.12 \text{ cfs}$

**G. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 600 \times 3.5 \text{ cfs} = 2100 \text{ ak}$$
$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 5.12(183)1.9835 = 1858.5$$
$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1858.5$$

## 2. Volume Calculations for Other Uses:

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| Beneficial Use | Period of Use |       | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------|---------------|-------|------------------------------|--------------------------|
|                | From          | To    |                              |                          |
| IRRIGATION     | 7/15          | 10/15 | 5.12 cfs                     | 1713.3                   |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
| Totals:        |               |       | 5.12 cfs                     | 1713.3                   |

## 2. Recommended Amendments

☐ Change P.D. as reflected above    ☐ Add P.D. as reflected above    ☐ None  
☒ Change P.U. as reflected above    ☐ Add P.U. as reflected above    ☐ Other

**I. AUTHENTICATION**Field Examiner's Name Keith C. Wilson Date 7-17-95

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

SEAL



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT  
GOVERNOR

KARL J. DREHER  
DIRECTOR

February 13, 1996

DAVID VAL SCHWENDIMAN  
15000 E HWY 33  
NEWDALE ID 83436

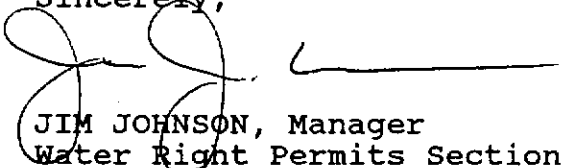
Permit No. 22-07287

Dear Permit Holder(s):

We acknowledge receipt of the correspondence changing ownership of the above referenced water right to you. We have modified our computer records to reflect this change in ownership.

If you have any questions regarding this matter, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to be 'Jim Johnson', followed by a horizontal line.

JIM JOHNSON, Manager  
Water Right Permits Section

JJ:rl

RECEIVED  
FEB 22 1996

4/86

RECEIVED  
DEC 7 1987

Department of Water Resources  
Eastern District Office

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

EXAMINATION FEE INFORMATION

For Office Use Only

Fee Received \$275.00

Date 12-7-87

Receipt # 42151

Receipt by dg

Sent to S.O.

RECEIVED  
DEC 14 1987

1. Permit No. 22-7287

ONE OF THE FOLLOWING BOXES SHOULD BE MARKED TO DESIGNATE YOUR CHOICE:

- ☒ I choose to have the department make the field examination of this permit; attached is the examination fee. (If this box is marked, complete items 1 thru 8.)

Delynn Nedrow

2. Permit Holder: Jerry Nedrow Paula Sensenbaker3. Post Office Address: P.O. Box 565 Rexburg Id 83440Telephone No. 356-93734. Source of Water: Groundwater

5. Extent of Use:

Domestic \_\_\_\_\_ (No. of households) Stockwater \_\_\_\_\_ (No. and type of stock)

Irrigation 600 (acres) Other/Remark \_\_\_\_\_6. Total rate &/or volume for which proof is submitted 8.0 cfs \_\_\_\_\_ acre-feet

7. Show the date water was first diverted and beneficially used under this permit:

June 1981

8. Person to contact to accompany the department representative during the field examination:

David Schwendman MAR 08 1988  
(Name)

HC 60 Box 1089 Newdale Id 83436  
(Address)

458-4224  
(Telephone Number)

- ☐ I choose to have the field examination conducted by a certified water right examiner. Attached is a statement from the certified examiner I have selected verifying that he has been retained to conduct the examination. (If this box is marked, complete items 1 thru 7.)

Nov 20, 1987  
Date

David Schwendman Owner  
Signature of Permit Holder (and title, if appropriate)

State of Idaho  
Department of Water Resources

LICENSE EXAMINATION FEE SCHEDULE

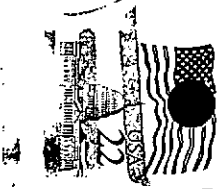
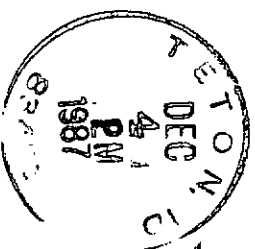
(c.f.s. = cubic feet per second  
AF = acre feet)

| cfs          | AF          | Fee    |
|--------------|-------------|--------|
| 0 - 0.04     | 0 - 4       | \$ 0   |
| .05 - 0.20   | 5 - 20      | 50.00  |
| .21 - 1.0    | 21 - 100    | 100.00 |
| 1.01 - 2.0   | 101 - 200   | 125.00 |
| 2.01 - 3.0   | 201 - 300   | 150.00 |
| 3.01 - 4.0   | 301 - 400   | 175.00 |
| 4.01 - 5.0   | 401 - 500   | 200.00 |
| 5.01 - 6.0   | 501 - 600   | 225.00 |
| 6.01 - 7.0   | 601 - 700   | 250.00 |
| 7.01 - 8.0   | 701 - 800   | 275.00 |
| 8.01 - 9.0   | 801 - 900   | 300.00 |
| 9.01 - 10.0  | 901 - 1000  | 325.00 |
| 10.01 - 11.0 | 1001 - 1100 | 350.00 |
| 11.01 - 12.0 | 1101 - 1200 | 375.00 |
| 12.01 - 13.0 | 1201 - 1300 | 400.00 |
| 13.01 - 14.0 | 1301 - 1400 | 425.00 |
| 14.01 - 15.0 | 1401 - 1500 | 450.00 |
| 15.01 - 16.0 | 1501 - 1600 | 475.00 |
| 16.01 - 17.0 | 1601 - 1700 | 500.00 |
| 17.01 - 18.0 | 1701 - 1800 | 525.00 |
| 18.01 - 19.0 | 1801 - 1900 | 550.00 |
| 19.01 - 20.0 | 1901 - 2000 | 575.00 |
| 20.01 & over | 2001 & over | 600.00 |

Checks should be made payable to the  
Department of Water Resources

No fee is required for single family  
domestic use or stockwater use.

David Schenckman  
Hc 60 Box 1089  
Huntsville, Idaho  
83436



Idaho Dept of Water Resources  
150 Shoup Ave Suite 15  
Idaho Falls, Id  
83402



State of Idaho

# DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS

Governor

R. KEITH HIGGINSON

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

November 23, 1987

RE: Permit No. 22-7287

Paula N. Sensenback &/or  
DeLynn P. &/or Jerry L. Nedrow  
Rt. 4, Box 264  
Blackfoot, ID 83221

Dear Permit Holder(s):

This office acknowledges receipt of the Assignment of the above referenced permit to you. Enclosed for your records is a copy of the permit.

As new owners of the permit, you are required to submit either an EXAMINATION FEE or a statement from a certified examiner that he has been retained to do a field examination of your water use.

Enclosed is a copy of the EXAMINATION FEE NOTICE sent to the previous permit owner. Please read and take proper action. You should note that the notice was sent on January 26, 1987 and after 60 days a day of priority of your permit is lost for every day the fee or statement is not received by this office.

In order to keep this permit in good standing, you must respond to the Examination Fee Notice as soon as possible. If you have any questions regarding this matter, please feel free to contact us.

Sincerely,

JIM JOHNSON  
Water Rights Supervisor

JJ:sc  
Enclosures

RECORDED

MAR 08 1988

Permit No. 22-7287

ASSIGNMENT REVIEW CHECK LIST

1. Signature of Permit Holder? Yes
2. Notary? Yes
3. a. Full Assignment? Yes  
b. Partial Assignment?
4. "No assignment" condition on permit? NO
5. Commencement of Works received? Yes
  - a. Commencement of works requested?
  - b. Show Cause Order drafted & sent?
  - c. Cancellation necessary?
6. Affidavit of residency required? NO
7. Extension granted due to litigation?  
(If yes, commencement of works is not required.)

1. Type permit summary sheet. ✓
2. Coding sheet. ✓
3. Acknowledgement letter type.
4. Copy to region. ✓

Shawla -

# 1 spec.

Date 11-12-87

Employee Juni



**STATE OF IDAHO**  
**DEPARTMENT OF WATER RESOURCES**  
EASTERN REGION

John V. Evans  
Governor

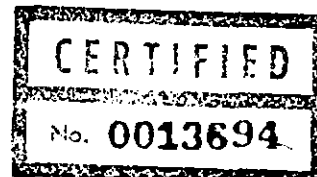
150 Shoup — Suite 15  
Idaho Falls, Idaho 83402  
(208) 525-7161

A. Kenneth Dunn  
Director

22-7287  
NEBROW, PAUL E.  
270 SOUTH 500 WEST  
REXBURG, ID 83440

January 26, 1987

**EXAMINATION FEE NOTICE**



Dear Permit Holder:

Department records show that proof of beneficial use has been submitted for the above-referenced permit, but that a field examination has not yet been conducted to determine the extent of beneficial use of the water for licensing purposes.

House Bill 671 (effective April 4, 1986) enacted by the 1986 Idaho Legislature requires the payment of a fee before this Department can conduct the field examination needed to issue a license confirming use of water under the permit. This letter is notification that the license examination fee is due within sixty (60) days of the date of this letter. The examination fee information sheet (enclosed) must be returned with the fee.

As an alternative to submitting the fee, the Department will accept a field examination report completed by a certified water right examiner from the private sector. If you choose to have the examination done by a certified water right examiner, you need not submit the license examination fee to the Department, but you must within sixty (60) days of the date of this letter return to the Department, the examination fee information sheet showing appropriate information together with a statement from the certified examiner to verify that you have retained a certified examiner to conduct the field examination. If you choose this alternative, a completed field examination report must be submitted within one year of the date of this letter. You cannot later change your decision to use this alternative and submit the fee needed for the Department to conduct the field examination, but you may change to another certified examiner.

Certified water right examiners are licensed engineers, geologists, or land surveyors certified by the Department to conduct water right examinations. The procedure for certifying examiners results from the recently enacted HB 671 and is being developed at this time. A listing of certified water right examiners will be available from this Department when examiners have been certified.

MAR 08 1988

If your permitted use, in fact, has already been examined by the Department and you have not asked to have the examination repeated, the fee requirement is not applicable to your permit. If you believe this is the case, please contact the Department.

The license examination fee is to be based on the amount of water you indicate you have developed, as listed in item 6 on the examination fee information sheet. The amount of water on which the examination fee is based can be less than the permitted amount, if less water has been diverted and beneficially used. The licensed amount of water, however, will not exceed the amount you claim on the examination fee information sheet. The enclosed license examination fee schedule shows a listing of applicable fees.

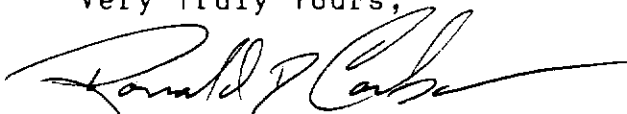
FAILURE TO SUBMIT WITHIN THE SIXTY (60) DAY PERIOD THE FEE OR THE STATEMENT THAT A CERTIFIED EXAMINER HAS BEEN RETAINED TO MAKE THE FIELD EXAMINATION WILL BE CAUSE TO ADVANCE THE PRIORITY OF THE PERMIT ONE DAY FOR EACH DAY THAT THE FEE SUBMITTAL IS LATE.

FAILURE TO SUBMIT THE FEE OR THE COMPLETED FIELD EXAMINATION REPORT WITHIN A YEAR WILL BE CAUSE TO CONSIDER THE PROOF OF BENEFICIAL USE TO BE INCOMPLETE AND TO LAPSE THE PERMIT.

The attached examination fee information sheet and the fee may be submitted to the following Department office:

Eastern Region  
Idaho Dept. of Water Resources  
150 Shoup Ave., Suite 15  
Idaho Falls, Idaho 83401  
Phone: 525-7161

Very Truly Yours,

  
Ronald D. Carlson  
Eastern Regional Manager

Enclosures

RECEIVED

MAR 08 1988

I D A H O   D E P A R T M E N T   O F   W A T E R   R E S O U R C E S

WATER RIGHT  
DATA ENTRY LOG

[illegible]



**STATE OF IDAHO**  
**DEPARTMENT OF WATER RESOURCES**  
EASTERN REGION

John V. Evans  
Governor

C. Stephen Allred  
Director

1515 Lincoln Road  
Idaho Falls, Idaho 83401  
(208) 523-7186

August 10, 1981

RE: Permit No. 22-7287

Paul Nedrow  
270 S. 5 West  
Rexburg, Idaho 83440

Dear Mr. Nedrow:

We acknowledge receipt of the proof of beneficial use card submitted for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

If you have any questions regarding the field examination, please contact our eastern regional office.

Very truly yours,

**BOBBIE R. STEPHENS**  
Principal Clerk

cc: IDWR - State Office

RECORDED

# DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card as a statement that the permit holder(s) has completed development to the extent shown below of Permit No. 22-7287.

Name(s) of Permit Holder: Paul E. Nedrow

Post Office Address: 270 S. 5 W.

Rexburg, Idaho 83440 Tel. No. 356-5538

Source of Water: Subterranean

Extent of Use:

|                                                |            |                            |
|------------------------------------------------|------------|----------------------------|
| <input type="checkbox"/> Domestic              | _____      | (number of households)     |
| <input type="checkbox"/> Stockwater            | _____      | (number and type of stock) |
| <input checked="" type="checkbox"/> Irrigation | <u>600</u> | (acres)                    |
| <input type="checkbox"/> Other                 | _____      |                            |

Measuring Device: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No

Access Port: Required? ☒ Yes ☐ No Installed? ☒ Yes ☐ No

The above information is a true statement of the extent to which the above numbered permit has been developed.

June 17, 1981  
Date

Paul E. Nedrow  
Signature of Permit Holder

Paul E. Neidrow

270 S. 5<sup>th</sup> W.

Rexburg, Idaho 83440

PLACE  
TEN CENT  
STAMP  
HERE

RECEIVED  
MICROFILMED  
JUN 9 1981



IDAHO DEPARTMENT OF WATER RESOURCES

Water Resources  
STATEHOUSE

BOISE, IDAHO 83720



State of Idaho

## DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS

Governor

C. STEPHEN ALLRED

Director

Mailing address:

Starehouse

Boise, Idaho 83720

(208) 384-2215

February 26, 1979

Re: Permit No. 22-7287

Paul E. Nedrow  
270 South 500 West  
Rexburg, Idaho 83440

Dear Mr. Nedrow:

Enclosed is a copy of your approved Application for Permit. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note the special condition requiring you to install an access port or other device to provide for the installation of measuring equipment by the Department. The Department will provide specifications for the installation to you.

Sincerely,

*David R. Tuthill Jr.*

DAVID R. TUTHILL, JR.  
Supervisor, Water Allocations Section

DRT:lr

Enclosure

*Access port  
letter sent 8/9/79  
Larry Byington*

MICROFILMED

22-7287

STAFF REVIEW - STATE OFFICE

1. ✓ Name vs. Signature
2. W Source
3. 1 Point of Diversion
4. 8 Amnt. & Period of Use
5. ✓ Descrip. of Diverting Wrks.
6. 5 Time req. for Proof of B/U

7. N/A Place of Use for other than irrig.
8. 600 Place of Use ✓ for irrigation (add acres)
9. A Property Owner at Pt. of Div. & Pl. of Use
10. ✓ Map
11. 105 Fee & Rec't. No.

Copies Sent To:

NO 7 Idaho Health Department  
7 Idaho Fish & Game Dept.  
7 Bureau of Land Management

NO 7 U.S.F.S.  
7 Dept. of Lands  
7 Other

Dam Safety Information N/A (Goes to Permit Section)

Check:

Critical G.W. Area yes ✓ no

Other rights on same land Done plotted

Withdrawals of all protests received N/A yes no

Conditions:

ID Power Co. Letter - Snake R. NO  
ID Power Co. Letter - G.W. & Tribs. NO  
Snake River Condition NO  
Payette River Letter NO  
Priority Date 1/16/79  
Water Quality #16 NO  
Water Quality #10 NO  
intrastate NO interstate NO

Meas. Dev. or Sc. Meas. Yes  
Totalizing meter NO  
Supplemental NO  
Right-of-Way Cond. NO  
Watermaster Cond. NO  
Wtr. Dist No. NO  
Meas. Dev. Cond. for apps within a Water Dist. NO

Jim Reviewer  
2/23/79 Date

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES  
Eastern Region

---

1515 Lincoln Road  
Idaho Falls, ID 83401  
(208) 523-7186

JANUARY 19, 1979

Standard Journal  
Box 10  
Rexburg, Idaho 83440

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a galley proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before FEBRUARY 12, 1979.

Yours truly,

RONALD D. CARLSON  
Supervisor

Encl.

1-19-79

eileen CN legal  
galley proof needed

**NOTICE OF APPLICATION  
FOR WATER RIGHT**

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

Application No. 22-7287  
NEDROW, PAUL E., 270 SOUTH 500  
WEST, REXBURG, ID 83440.  
Source: GROUNDWATER  
Date Filed: 01/16/1979  
Amount: 8.00 CFS  
Diversion Point: SWSW Sec 23 T 07N R  
42E, MADISON Co.  
Use: IRRIGATION (8.00 CFS) from 04/01  
to 11/01  
Place of Use: NESW NWSW SWSW  
SESW Sec 23 T 07N R 42E NWNE SWNE  
SENE NENW NWNW SWNW SENW Sec 22  
T 07N R 42E NWSW NESE NWSE Sec 22 T  
07N R 42E NESE Sec 21 T 07N R 42E FOR  
600 ACRES  
Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1515 Lincoln Rd., Idaho Falls, Idaho 83401 on or before FEBRUARY 12, 1979.

C. STEPHEN ALLRED  
Director

Publ. Jan. 25, Feb. 1, 1979CN

NOTICE OF APPLICATION FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

22-2282-

NEDROW, PAUL E.

270 SOUTH 500 WEST, REXBURG, ID 83440

Source: GROUNDWATER

Date Filed: 01/16/1979

Amount: 8.00 CFS

Diversion Point: SWSW Sec 23 T 07N R 42E, MADISON Co.

Use: IRRIGATION (8.00 CFS) from 04/01 to 11/01

Place of Use: NESW NWSW SWSW SESW Sec 23 T 07N R 42E NWNE SWNE SENE NENW NWNW  
SNNW SENW Sec 22 T 07N R 42E NWSW NESE NWSE Sec 22 T 07N R 42E  
NESE Sec 21 T 07N R 42E FOR 600 ACRES

Diversion Means: WELL, PUMP & MOTOR

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1515 Lincoln Rd., Idaho Falls, Idaho 83401 on or before FEBRUARY 12, 1979.

C. STEPHEN ALLRED

Director

Published 1/25 & 2/1/79.

MICROFILMED

January 17, 1979

Mr. Paul E. Nedrow  
270 South 500 West  
Rexburg, Idaho 83440

Dear Sir:

Re: Application for Water Permit

Attached herewith please find Departmental receipt No. 12835  
in the amount of \$105.00 for the above referenced application.

Very truly yours,

RONALD D. CARLSON  
Supervisor  
Eastern Region

RDC:dh

Attachment  
cc: Ray Rigby

RECEIVED  
JAN 20 1979

RECEIVED

JAN 16 1979

Department of Water Resources  
Eastern District Office

LAW OFFICES  
RIGBY, THATCHER, ANDRUS,  
BARTON & WALTERS, *Chartered*

25 NORTH SECOND EAST - P. O. BOX 250 - REXBURG, IDAHO 83440  
RAY W. RIGBY - GORDON S. THATCHER - G. RICH ANDRUS  
BRECK H. BARTON - W. JEFFREY WALTERS  
TELEPHONE (208) 356-3633

January 11, 1979

Ernest M. Carlsen  
Idaho Department of Water Resources  
Eastern Region  
1515 Lincoln Road  
Idaho Falls, Idaho 83401

Re: Paul E. Nedrow - Water Rights

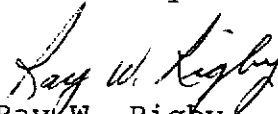
Dear Mr. Carlsen:

Pursuant to your letter of January 3, 1979, I am enclosing here-with "Application for Permit" for Mr. Nedrow for water rights to irrigate lands in Sections 21, 22 and 23 in Township 7 North, Range 42 E.B.M., on what is known as Mr. Nedrow's Teton Dam Farm. The filing fee of \$105.00 is attached to the application.

Also enclosed is "Application for Extension of Time" for Permit No. 22 7068 Amended, on what is known as Mr. Nedrow's Robinson No. 3 Well.

We sincerely appreciate your assistance, and hope that his rights are now straightened out. We also hope to submit proof on both of these before the end of this year.

Yours very truly,

  
Ray W. Rigby

RWR:pae

Enclosure

RECEIVED

January 3, 1979

Mr. Ray W. Rigby, Attorney  
Rigby, Thatcher and Andrus  
P. O. Box 250  
Rexburg, Idaho 83440

Dear Mr. Rigby:

Re: Water Rights for Paul Nedrow

In reviewing your letter of November 28, 1978 concerning approved permits for Paul Nedrow and in researching the Department's files, it appears the following course of action would be most appropriate under the circumstances. Because of the damage to Mr. Nedrow's well described as "Robinson No. 3," it would be best if an extension of time was filed on Permit No. 22-7068 (Amended). This would allow Mr. Nedrow sufficient time to either drill another well or repair the existing one. Accompanying the extension of time should be a request for withdrawing the previously filed proof of beneficial use on Permit No. 22-7068.

Concerning the application for permit which accompanied your letter, I can not explain why it was numbered, since it was never receipted by our Department. If Mr. Nedrow wishes to file an application covering lands in Sections 21, 22, and 23, Twp. 7N, Rge. 42E, he will need to submit a statutory filing fee of \$105.00, along with the enclosed application.

You should be aware that the Department's records indicate Permit No. 22-7006 has been cancelled and is no longer in effect. I hope this information provides some answers and an adequate course of action. Should you have any questions, please feel free to contact me at this office.

Respectfully submitted,

ERNEST M. CARLSEN  
Water Resource Analyst

EMC:dh  
Enclosures

LAW OFFICES

RIGBY, THATCHER & ANDRUS, P. A.

26 NORTH SECOND EAST - P. O. BOX 250 REXBURG, IDAHO 83440  
RAY W. RIGBY - GORDON S. THATCHER - G. RICH ANDRUS - BRECK H. BARTON  
TELEPHONE (208) 356-3633

November 28, 1978

State of Idaho  
Department of Water Resources  
1515 Lincoln Road  
Idaho Falls, Idaho 83401

ATTENTION: Ernest M. Carlsen

Re: Water Permit No. 22-7068 - Nedrow

Dear Mr. Carlsen:

Apparently we have some confusion in Paul Nedrow's permits. First of all, we have Permit No. 22-7068. Everything in this permit correctly identifies what Mr. Nedrow refers to as his "Robinson No. 3 Well." However, we had a prior permit which, we thought, was Permit No. 22-7006, which applied to an application for some dams to store water for supplemental irrigation of the lands contained, basically, in Permit No. 22-7068 amended.

Then we had another permit for lands located in Sections 21, 22, and 23 in 7 North, Range 42 E.B.M., known by Mr. Nedrow as "Teton Dam Well." The original of that application was received by your office on July 31, 1978 and had identification number of 22-7068 placed upon it. It does not show an approval by the director, but does show that it was received by your office. That was mailed back to Mr. Nedrow on August 7, 1978.

It was our intent to keep the application permit for the Teton Dam Well (lands in said Sections 21, 22 and 23, Township 7 North, Range 42 E.B.M.). Also, we wanted to keep the permit that now is described as "Robinson No. 3 - Amended Permit 22-7068." We intended to cancel Permit No. 22-7006 and use that for the amended permit - 22-7068. At this point, and without a lot of the documents, it is difficult to know exactly what we did. However, we would surely like to straighten it out.

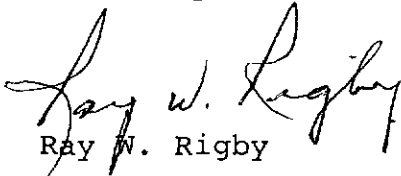
Therefore, please accept the enclosed application for the lands in said Sections 21, 22, and 23, and reinstate it. The identification number would have to be changed. If there is a fee that hasn't been paid, please let us know. As to amended 22-7068, the prove submitted,

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NOV 29 1978  
IDAHO DEPT. OF WATER RESOURCES

we can clearly see now, was not for that well. We should point out that the Robinson No. 3 (Amended 22-7068) caved in this past year, and the pump has been pulled eight times. There is no question in the minds of Mr. Nedrow and the well driller, that the well can be returned to good status, and produce the water called for in that permit. The question is, should we submit the proof now, or get an extension, and wait until the well is remedied so that when you test it you will find the water there. As to the application on the "Teton Dam Well", for which you received proof, we would have to have the permit approved first. Furthermore, the bowls were dropped in this well and the well driller says that it has retarded considerably the flow of water, and they are attempting to "fish" out the bowls then that well could be tested and the proof submitted, once the approval and publication has been completed.

If you think that it is necessary, Mr. Nedrow and I could come to your office and go over all of these applications and permits and licenses to see that everything is in conformity. We are sorry for the confusion. We are not sure how it all happened or where, but assume that we sent you incorrect information. Please advise.

Sincerely,

  
Ray W. Rigby

ENCL:

csp

RECEIVED

DEPARTMENT OF WATER RESOURCES  
- STAFF ANALYSIS -

Item Initial Date

Application No. \_\_\_\_\_

☒ Source  
☐ Point of Diversion  
☐ County  
☐ Quantity of Water and Period of Use  
☐ Description of Diverting Works  
☐ Time required for B/U of water  
☐ Place of Use or Acres Irrigated  
☐ Map  
☐ Signature  
☐ Fee

(1) JC 1/17/79

In form to receipt YES.

(2) " "

Send Copies to:

☐ Idaho State Health Department  
☐ Idaho Fish and Game Department  
☒ Bureau of Land Management

(3) " "

☐ Request Special Use Permit from U.S.F.S.  
☐ Request Easement from B.L.M.  
☒ Request Information from Applicant  
☐ Request Dam Safety Information

(4) " "

In form for advertising YES.

(5) " "

Platted on Map No. 7N 42E Boin 22

(6) " "

Located within Water District No. 22

(7) " "

Critical groundwater area: yes no X

(8) " "

Groundwater levels:

Declining, Stable, 1973 Increasing  
(comment) \_\_\_\_\_

(9) " "

Other rights on the same place of use NONE.

(10) \_\_\_\_\_

Comments: \_\_\_\_\_

(11) dh 2-6-79

Affidavit of Publication received (date) 2-6-79

(12) dh 2-12-79

Final date for protests FEBRUARY 12, 1979

Protests received: yes no X

(13) dh 2-12-79

All requested information received from agencies or applicant: yes X no no

(14) EMC 2/12/79

Action recommended:

☒ Approve ☐ Deny

1/16/79 Proposed Priority

Reason for Reduction

☒ Measuring device required

See attached sheet for other conditions of approval

No special conditions for approval

(15) District Eastern

By Ernest Carlson Date 2/12/79

**RECEIVED**  
FEB 14 1979

Department of Water Resources

*Pinned*

RECORDED