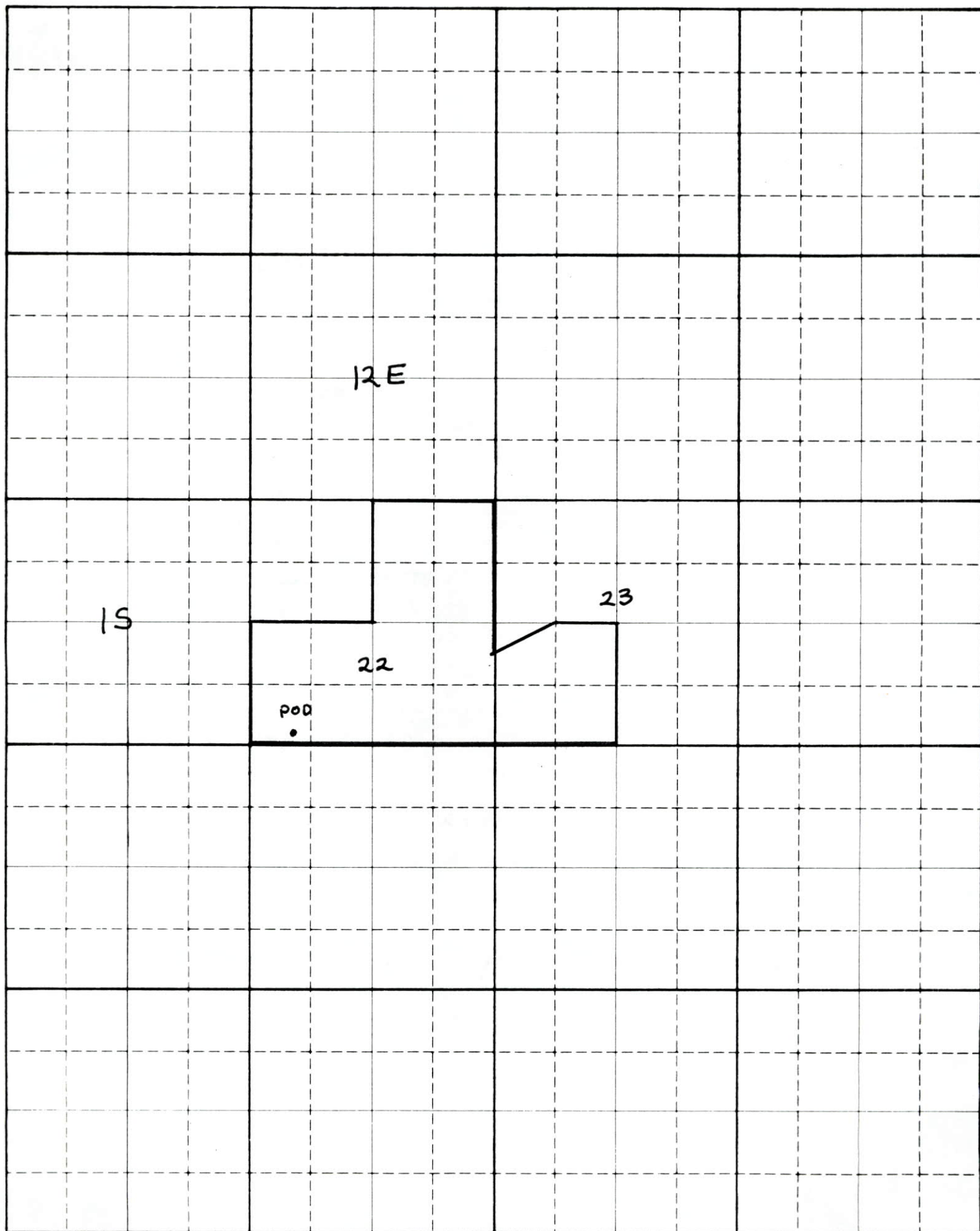


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



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.

Swinn Rice Ranch Inc
(Applicant)
by *Swinn Rice President*

RECEIVED

FEB 27 1978

Department of Water Resources
Southern District Office

OK
2/28/78

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Gwinn Rice Ranch, Inc. Hill City, Idaho 83337 has on 1/30/78 submitted Application No. 37-7697 for a permit to appropriate 9.0 cubic feet per second of water from ground water by means of well, pump, pipeline, sprinklers within the SW 1/4 SW 1/4, Sec. 22, Twp. 1S, Rge. 12E, B.M. Camas County to be used from Apr. 15 to Oct. 15 for irrigation purposes of 630 acres within the NE 1/4, SW 1/4, SE 1/4, Sec. 22, SW 1/4, Sec. 23, Twp. 1S, Rge. 12E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before March 6, 1978.

C. STEPHEN ALLRED
Director

Published in the Mountain Home News on 2/16 and 2/23/78.

Affidavit of Publication

County of Elmore }
STATE OF IDAHO } ss.

I, Lloyd S. Staters do solemnly swear that I am the foreman, or publisher of the

MOUNTAIN HOME NEWS

a weekly newspaper of general circulation, published once a week at MOUNTAIN HOME, IDAHO, that the notice attached hereto and which is a part of the proof of publication thereof, was published in said newspaper for

2 consecutive weeks, the first publication having been made on the 16 day of Feb, 1978, and the last publication having been made on the 23 day of Feb, 1978; every Thursday issue of the paper during the period and time of publication and that the notice was published in the newspaper proper and not in a supplement thereof.

And I further swear that the said MOUNTAIN HOME NEWS has been continuously and uninterruptedly published in said Elmore County during a period of 78 consecutive weeks prior to the first publication of the attached notice.

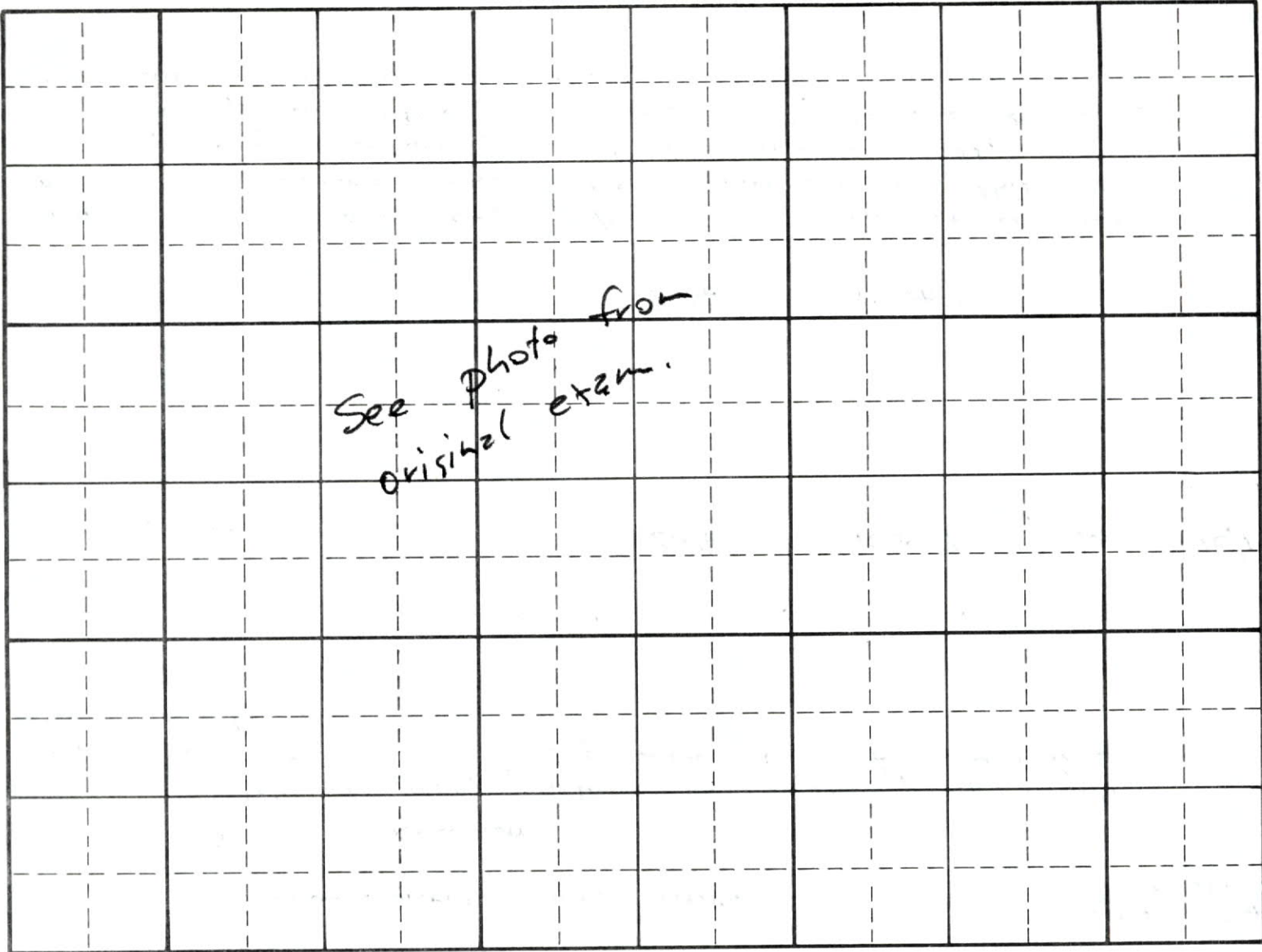
Lloyd S. Staters

Subscribed and sworn to me this 23 day of Feb, 1978

Wm. D. Waters
Notary Public

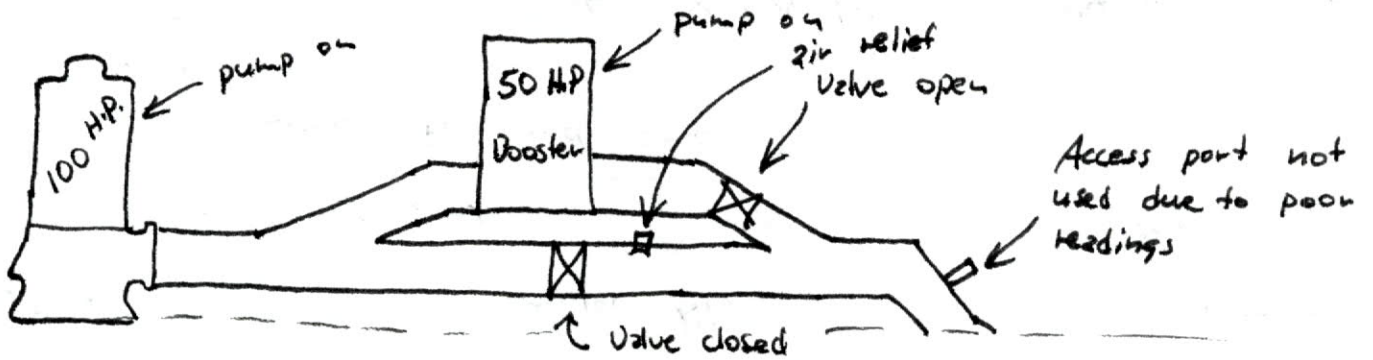
Michael L. L...

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: SW 1/4 SW 1/4 Sec. 22 T.1S, R.12E, B.M.

Place(s) of Use

TWP.	RGE.	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	
✓ 15.	12E.	22	39	40	40	39					40	39	39	36	32	40	18	2	404

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

Examiner's Signature

Checked by

Approved by

Date

Date

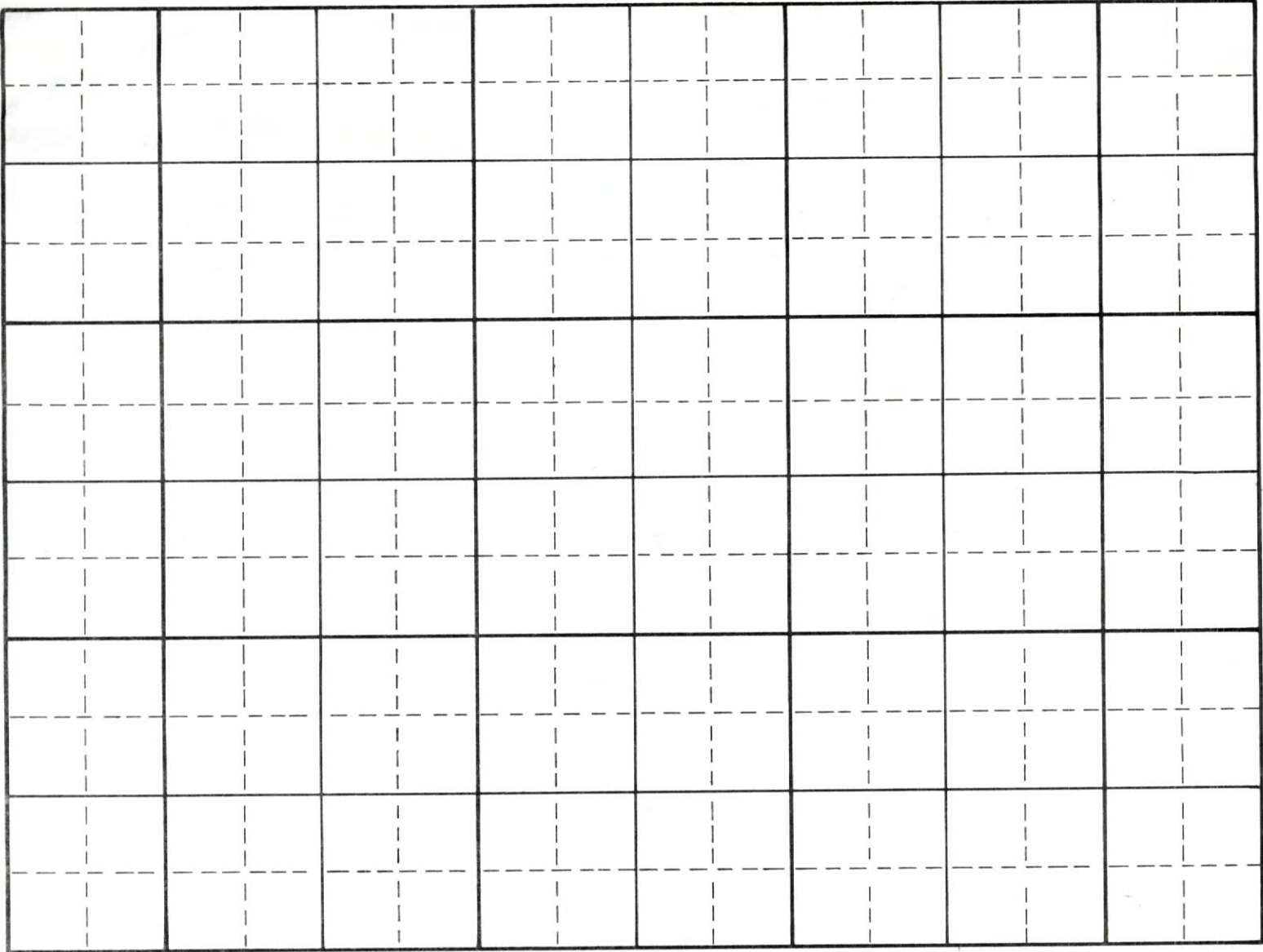
Date

6/22/82

9-28-82

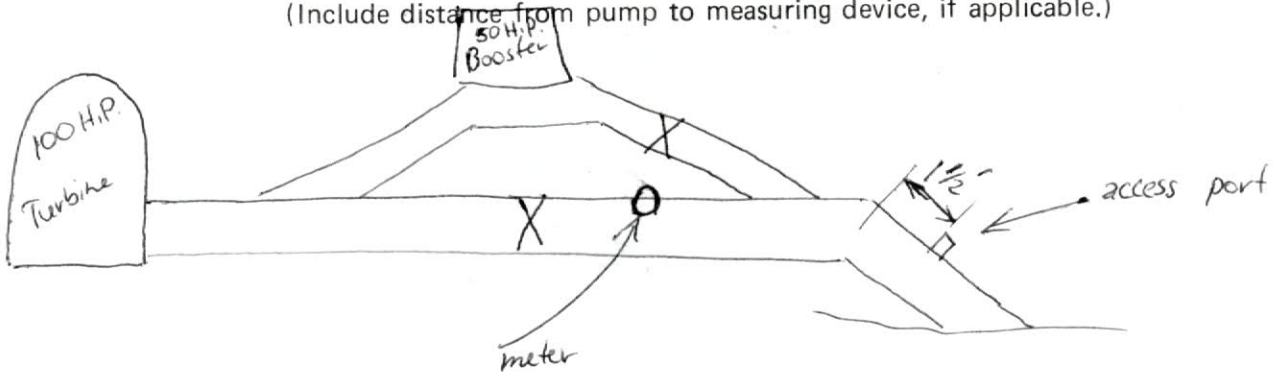
1/4/83

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: SW 1/4 SW 1/4 Sec 22, T.15, R.12E, B.M.

Place(s) of Use

TWP.	RGE.	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	
15.	12E.	22	39	40	40	39					40	39	39	36	32	40	18	2	404

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

Examiner's Signature [Signature]

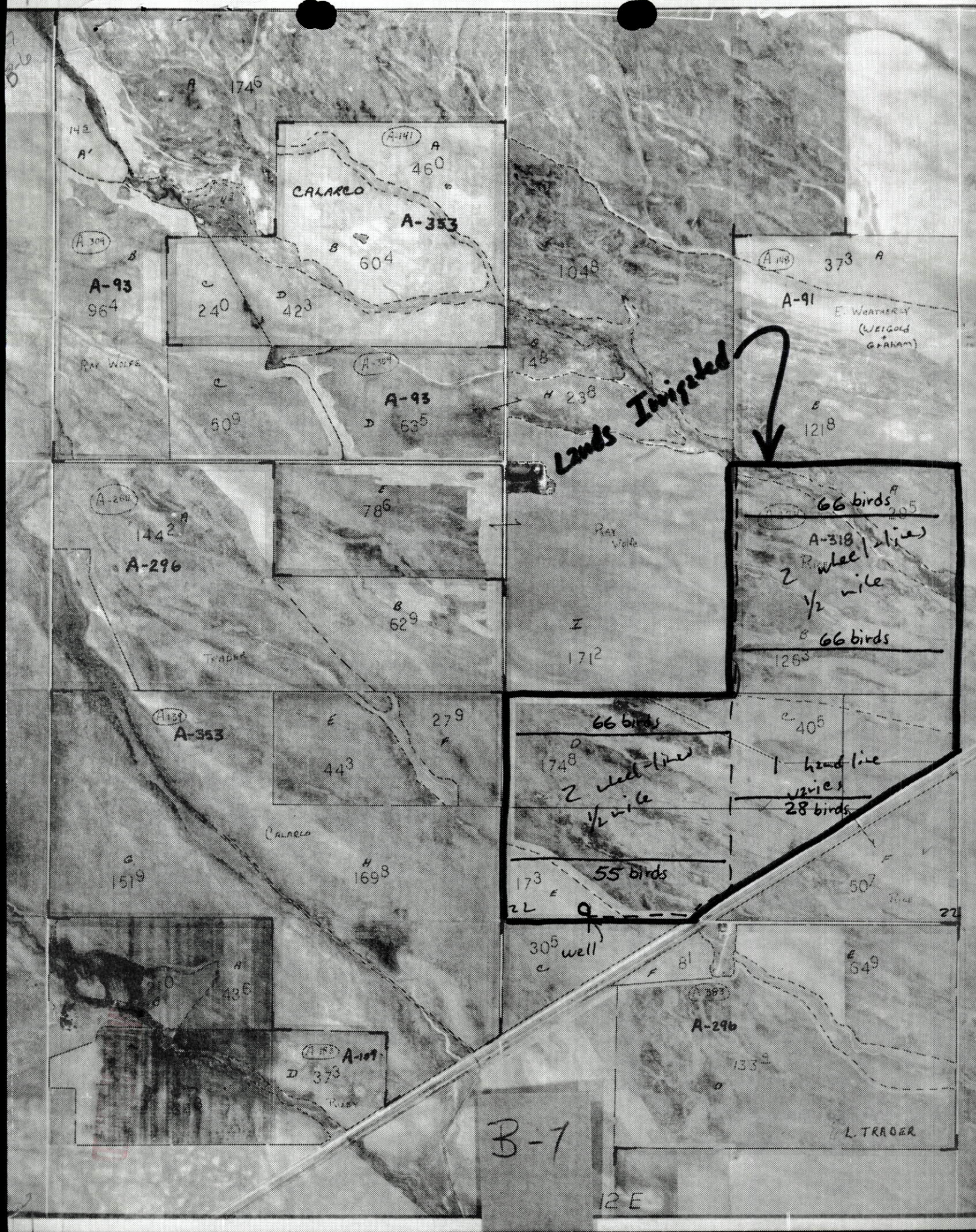
Date 6/30/81

Checked by [Signature]

Date 7-17-81

Approved by [Signature]

Date 8-18-81



State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 37-7697 Priority January 30, 1978 Amount 2.84 cfs

THIS IS TO CERTIFY, that Gwinn Rice Ranch, Inc.
of Hill City, Idaho, has complied with the terms and conditions of Permit
No. 37-7697 issued pursuant to Application for Permit dated January 30, 1978,
and has submitted proof to the Department of Water Resources on May 10, 1979,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 2.84 cfs of water from a groundwater source,
tributary to _____, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Irrigation	from <u>April 15</u> to <u>October 15</u>	at <u>2.84</u> cfs and	<u>1034.7</u> acre feet
	from _____ to _____	at _____ cfs and	_____
	from _____ to _____	at _____ cfs and	_____

(both dates inclusive)

Subject, however, to the condition that no more than 2.84 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
1034.7 acre feet per year, said waters to be diverted within the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 22, Twp.
1S, Rge. 12E in the County of Camas

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
1S	12E	22	39	40	40	39					40	39	39	36	32	40	18	2	404

Total number of acres irrigated 404

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 31 day of
January, 19 83.

Director

K.C. Dyer

RECEIVED

FEB 1 1978

Department of Water Resources
Southern District Office

Identification No. _____

Application No. 37-7697

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT **APPROVED**

To Appropriate the Public Waters of the State of Idaho

(TYPE OR PRINT IN INK)

1. Name of applicant Gwinn Rice Ranch, Inc. Phone: 764-2593
post office address Hill City, Idaho 83337
2. Source of water supply groundwater which is a tributary of _____
3. a. Location of point of diversion is SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 22 Township 1S
Range 12E B.M. Camas 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 9.00 for irrigation purpose from April 15 to October 15 (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. 9.00 cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. Well, pump, pipeline 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 16 inches; proposed depth of well is 700 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 \$ 23,800.00
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: _____

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	
1S	12E	22	40	40	40	40					40	40	40	40	40	40	40	40	480
1S	12E	23									40	30	40	40					150

Total number of acres to be irrigated 630

c. Describe any other water rights used for the same purposes as described above. none

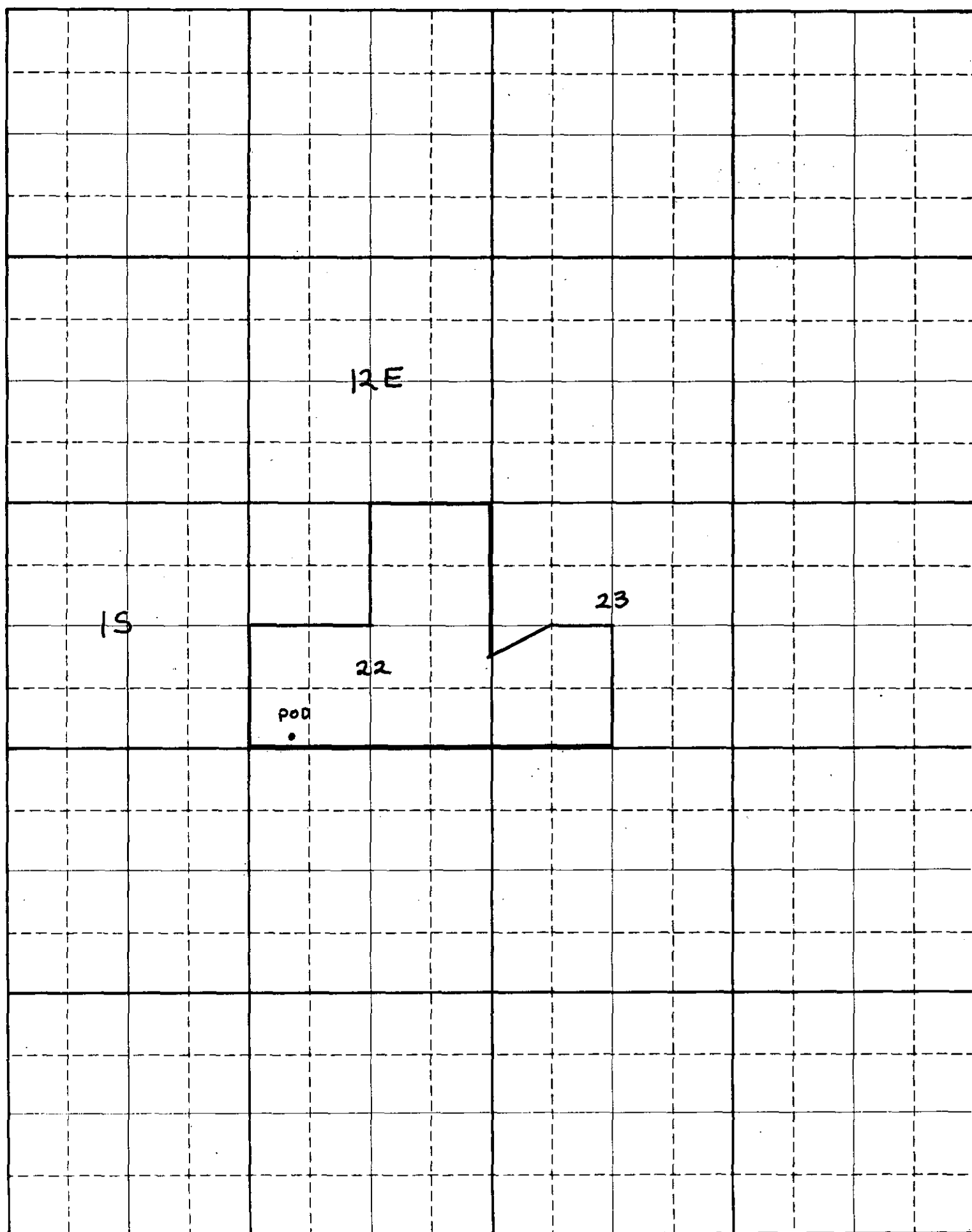
9. a. Who owns the property at the point of diversion Applicant

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 _____

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.

Swinn Rice Ranch Inc
(Applicant)
by *Swinn Rice Presider*

Proposed Priority 01/30/78

Received by DS Date 1/30/78 Time 2:00PM

Preliminary check by DS Fee \$ 105⁰⁰

Received by mlb Date 1/30/78 # 10304

Publication prepared by Dj Date 12/6/78

Published in Mountain Home News

Publication dates 2/16 + 2/23/78

Publication approved Dj Date 2/26/78

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by mls: g

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. 37-7697, 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 April 1, 1983.
- c. Other: For licensing purposes a scientific measurement of the diversion rate of the system as it is normally operated shall be provided by either properly installing an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water.

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

Witness my hand this 25TH day of April, 19 78.

Norman C. Young
Administrator

RECEIVED

FEB 27 1978

Department of Water Resources
Southern District Office

OK
2/28/78

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Gwinn Rice Ranch, Inc. Hill City, Idaho 83337 has on 1/30/78 submitted Application No. 37-7697 for a permit to appropriate 9.0 cubic feet per second of water from ground water by means of well, pump, pipeline, sprinklers within the SW 1/4 SW 1/4, Sec. 22, Twp. 1S, Rge. 12E, B.M. Camas County to be used from Apr. 15 to Oct. 15 for irrigation purposes of 630 acres within the NE 1/4, SW 1/4, SE 1/4, Sec. 22; SW 1/4, Sec. 23, Twp. 1S, Rge. 12E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before March 6, 1978.

C. STEPHEN ALLRED
Director

Published in the Mountain Home News on 2/16 and 2/23/78.

Affidavit of Publication

County of Elmore }
STATE OF IDAHO } ss.

I, Lloyd S. Waters do solemnly swear that I am the foreman, or publisher of the

MOUNTAIN HOME NEWS

a weekly newspaper of general circulation, published once a week at MOUNTAIN HOME, IDAHO, that the notice attached hereto and which is a part of the proof of publication thereof, was published in said newspaper for

2 consecutive weeks, the first publication having been made on the 16 day of Feb, 1978, and

the last publication having been made on the 23 day of Feb, 1978; every Thursday issue of the paper

during the period and time of publication and that the notice was published in the newspaper proper and not in a supplement thereof.

And I further swear that the said MOUNTAIN HOME NEWS has been continuously and uninterruptedly published in said Elmore County during a period of 78 consecutive weeks prior to the first publication of the attached notice.

Lloyd S. Waters

Subscribed and sworn to me this 23 day of Feb, 1978

[Signature]
Notary Public

MOUNTAIN HOME NEWS

OCT 19 1994

1. DRILLING PERMIT NO. 37 - 94 - S - 0046 - 001
Other IDWR No. 37-07697

2. OWNER:

Name GWENE RICE
Address BOX 133
City HILL CITY = State ID Zip 83337

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 North ☐ or South ☒
 Rge. 12 East ☒ or West ☐
 Sec. 22, $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Gov't Lot County CASWISS

Address of Well Site **POWERS EAST WELL**

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK DECFEN

☐ New Well ☒ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____

Was drive shoe seal tested? Y ☐ N ☐ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method
--------------	--------

☐ Screens Screen Type_____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air Hose ☐ Southern Region Office

Yield gal./min.	Drawdown	Pumping Level	Time
900	200'	227	

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
			THIS JOB WAS UNDERTAKEN WITH THE UNDERSTANDING THAT THE WELL LEFT OFF IN THE ROCK AND AFTER ENTERING THE WELL THOUGHT THAT THE GRAVEL WAS COMING AROUND THE 16" DRIVE SHOE SO I INSTALLED 12" CASING TO 224 FEET THEN DRILLED TO 227' AND THE GRAVEL KEPT COMING WITH ME ANY HOW. WENT IN AND CUT CASING OFF (12") AT 204'		
			UNABLE TO DEEPEN THE HOLE AS PLANED AIR DEVELOPED WELL		
			STATIC LEVEL UNCHANGED		
			RECEIVED OCT 28 1994 Department of Water Resources		

Completed Depth _____ (Measurable)

Date: Started 5-9-94 Completed 6-11-94

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name SOLVES WELL DRILLING Firm No. 489

Firm Official *[Signature]* Date *10-17-94*

and

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

MEMORANDUM

To: File 37-07697
From: L. Glen Saxton *WGS*
RE: SUMMARY OF CONFERENCE HELD ON MAY 16, 1995
Date: May 18, 1995

On May 16, 1995, Allen Merritt and I conducted a conference in Fairfield concerning Terry Ruby's (Ruby) letter of objection to the proposed reconstruction of an irrigation well by Gwinn Rice Ranches (Rice).

In attendance were the following:

Gwinn Rice and Jim Rice for Gwinn Rice Ranches
Terry Ruby and Roy Mink for Ruby Ranch, Inc.

More specifically, Ruby was concerned that the well originally constructed by Rice under License No. 37-07697 reduced the amount of water to older surface water rights including decreed right no. 37-00491 of Ruby.

Although there is not a well log available for the original Rice well, Rice stated the well was constructed with a 16 inch diameter casing to a depth of about 208 feet by Zimco Drilling based in Nebraska.

Terry Ruby stated that his concern would be resolved if the reconstructed well cased and sealed out water above the first confining layer estimated to be about 150 to 200 feet below land surface. Rice stated that it was his intent to case and seal in this manner to prevent interference with surface water rights. Hence the drilling permit to be issued by the department will include the following conditions among the other usual conditions of approval:

The owner and driller shall install unperforated casing into the first confining layer which shall be at least five (5) feet thick, said confining layer estimated to be from 150 feet to 200 feet below land surface. The casing shall be driven or set into the confining layer. The seal material shall consist of high solids bentonite (greater than 30% bentonite) which the driller shall place from the bottom of the annulus to land surface.

The owner shall abandon the old well according to the department's Well Construction Standards.

Allen Merritt and I advised that if the replacement well will be drilled in a different 40-acre tract than licensed, Rice needs to file an application for transfer. We also suggested that the parties start gathering data relative to flows and potential interconnection of ground water and surface water.

- ROSTER OF ATTENDANCE -

RE: PETITION FOR DELIVERY CALL BY RUBY RANCH, INC.

Date: May 16, 1995, 2:00 p.m.

Place: U. S. Forest Service Office, Fairfield, Idaho

Name	Address	Representing
1. Jim Rice	Box 143 Hill City	Rice Ranch
2. Swain Rice	Box 131 Hill City	" "
3. Roy Munt	217 5th Ave Moscow Idaho	Terry Ruby
4. Terry J Ruby	Box 266 Eden Id.	Ruby's
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF DELIVERY CALL)
SUBMITTED BY TERRY D. RUBY)
_____)

NOTICE OF CONFERENCE

On April 11, 1995, Terry D. Ruby (petitioner) submitted a letter to the Department of Water Resources (department) alleging that diversion of water under License No. 37-07697 in the Name of Gwinn Rice Ranches, Inc. was interfering with the water rights of the petitioner.

The Department has set the matter for a conference to be held on Tuesday, May 16, 1995, at 2:00 p.m., at the Sawtooth National Forest Ranger District building, 517 Soldier Rd., Fairfield, Idaho.

The purpose of the Conference is to identify and simplify issues, generally discuss conjunctive management rules, provide for informal resolution and determine the need for a hearing.

DATED this 12th day of May, 1995.



L. GLEN SAXTON, Chief
Water Allocation Bureau

CERTIFICATE OF MAILING

I HEREBY CERTIFY that on this 12th day of May, 1995, I mailed a true and correct copy, postage prepaid, of the foregoing **NOTICE OF CONFERENCE** to the following:

CERTIFIED MAIL

Terry D. Ruby
P.O. Box 266
Eden, ID 83325

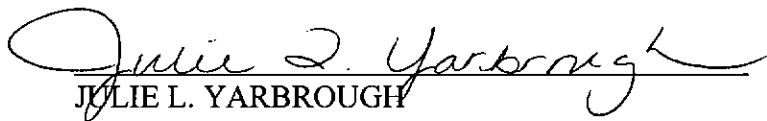
7142100

Gwinn Rice
Jim Rice
Gwinn Rice Ranch, Inc.
Hill City, ID 83337

7142101

NON-CERTIFIED MAIL

Allen Merritt, Supervisor
Idhao Dept. of Water Resources
Southern Regional Office
222 Shoshone St. E
Twin Falls, ID 83301


JULIE L. YARBROUGH
Senior Secretary

MEMORANDUM

To: File 37-07697
From: L. Glen Saxton 
RE: TELEPHONE CALL FROM TERRY RUBY
Date: May 9, 1995

On this date, Terry Ruby returned my call and advised that he was available for a conference in the Hill City area on May 26, 1995. I advised him that if that date was acceptable to Gwinn Rice Ranch, Inc. I would try to schedule a conference at 1:00 p.m. in Fairfield.

In the discussion with Ruby, he indicated that the matter likely could be resolved at the conference.



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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

May 1, 1995

Terry D. Ruby
P.O. Box 266
Eden, ID 83325

825-5235

RE: Permit NO. 37-07697 - GWINN RICE RANCH, INC

Dear Mr. Ruby:

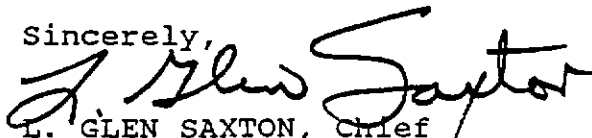
I have reviewed your letter dated April 11, 1995, in which you inquire about well repair in connection with the above referenced permit and request a hearing relative to the department's Conjunctive Management rules.

In May 1994, Gwinn Rice Ranch, Inc. applied to the department for a drilling permit to deepen a well located in the SW1/4SW1/4 Section 22, T1S, R12E, B.M. The department subsequently approved the application. On April 20, 1995, department staff visited the well site and discussed the matter with Mr. Rice. In June 1994, the well driller reportedly attempted to deepen the well but lost cuttings at 224 feet. At the time of the inspection, there was not a pump at the well site. The well reportedly has not been pumped since 1992.

Your letter request appears to fit with the call provisions of Conjunctive Management Rule 30. The department will first seek informal resolution of the matter under Rule 30.03. of the rules by scheduling a conference between you and Gwinn Rice. If the conference does not resolve the matter, the department will treat the matter as a contested case in which the department will conduct a formal hearing and will subsequently issue an order. Figure 1 which is attached generally diagrams the steps involved in a response to a call for water delivery. Also enclosed for your information and use is a copy of the Conjunctive Management rules.

Please advise the department of your availability for a conference.

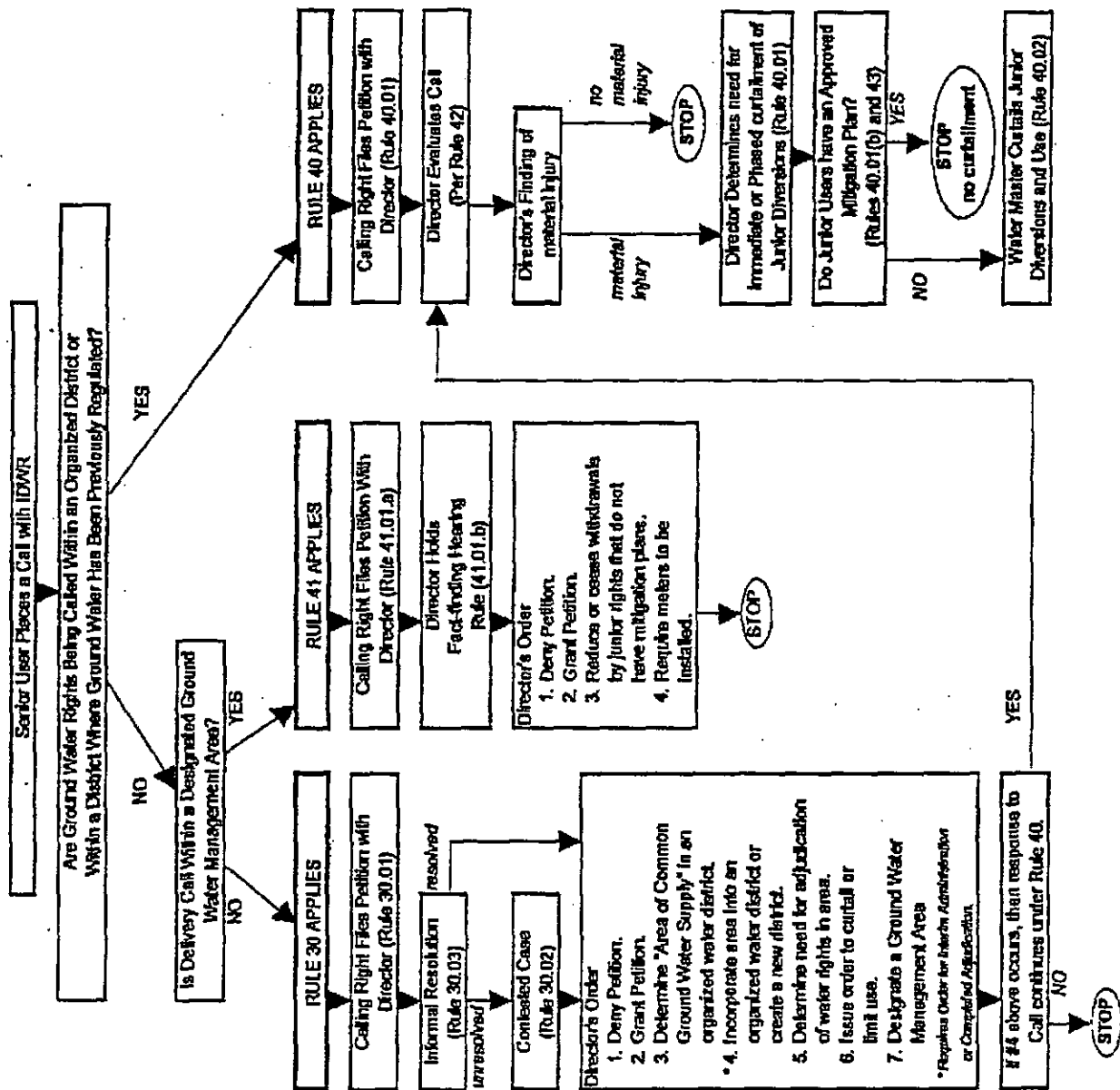
Sincerely,


L. GLEN SAXTON, Chief
Water Allocation Bureau

c: IDWR - S. Region
Gwinn Rice Ranches, Inc.

FIGURE 1

DIAGRAM OF RESPONSE TO A CALL FOR WATER DELIVERY PER RULES FOR CONJUNCTIVE MANAGEMENT OF SURFACE AND GROUND WATER



Walton—GROUND-WATER RESOURCES, CAMAS PRAIRIE, CAMAS AND ELMORE COUNTIES, IDAHO—Geological Survey Water-Supply Paper 1609

Ground-Water Resources of Camas Prairie Camas and Elmore Counties Idaho

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1609

*Prepared on behalf of the
U.S. Bureau of Reclamation*



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GROUND-WATER RESOURCES OF CAMAS PRAIRIE, CAMAS AND ELMORE COUNTIES, IDAHO

By WILLIAM C. WALTON

ABSTRACT

Camas Prairie is an eastward-trending intermontane basin along the north flank of the Snake River Plain in southern Idaho. The basin is about 40 miles long and averages about 8 miles wide. It was formed as a structural depression in which a considerable thickness of alluvial and lake deposits accumulated behind basalt flows, which at times blocked the outlet to the east. Intrusive and extrusive rocks of Cretaceous to Quarternary age enclose the basin on the north, west, and east. The enclosing rocks yield small amounts of water to springs and wells from the weathered mantle and fractures.

The principal aquifers are sand and gravel in the alluvial fill, and basalt. Water in the shallow deposits is not confined, and the water table generally is less than 10 feet below the surface at most places. Ground water in the deeper deposits occurs chiefly in two horizons that comprise the upper and lower artesian aquifers. Throughout much of the prairie, the pressure is sufficient that water will flow from wells in these aquifers.

Recharge to the basin is from direct precipitation and percolation of stream runoff from the bordering mountains. Ground water moves from the higher areas at the base of the encircling mountains toward the center of the basin and the eastern outlet. The artesian aquifers leak by upward percolation through the imperfectly confining beds and help maintain the shallow water table. Basalt, which interfingers with the alluvial deposits, is an important aquifer near the southeast margin of the prairie and at the east end. Annual recharge to the artesian aquifers is estimated to be about 40,000 acre-feet. Discharge from the artesian aquifers is about equally divided between upward leakage to the shallow aquifers and underflow out of the prairie. Most of the underflow discharges into Camas Creek or Magic Reservoir east of the prairie; little of the underflow reaches the Snake River Plain.

Wells drilled for irrigation generally yield 500 to 1,200 gallons per minute from the artesian aquifers. Better construction and development methods would result in considerably better yields. Wells drilled in the basalt will yield 2,000 to 3,000 gallons per minute with moderate drawdowns.

Computations made using aquifer coefficients, estimated on the basis of data collected during the investigation, suggest that 12,000 acre-feet of ground water might be withdrawn annually. However, the aquifers are limited in areal extent, and productivity of the alluvial aquifers is not great. Consequently heavy-development would result in large drawdowns in wells, and there would be much interference between wells. The postulated large withdrawals from wells on the prairie would be supplied in part by a reduction in underflow from the prairie and in part by a decrease in leakage from the artesian aquifers, which in turn would cause a decline in the shallow water table.

INTRODUCTION

PURPOSE AND SCOPE OF THE INVESTIGATION

This report is one in a series of investigations of the ground-water resources of several areas in and adjacent to the Snake River Plain in southern Idaho made by the U.S. Geological Survey on behalf of the U.S. Bureau of Reclamation. The studies were an integral part of the Bureau of Reclamation's comprehensive investigation and evaluation of undeveloped land and water resources of the upper and middle Snake River basin. The objectives of the investigations were to locate and delineate areas where undeveloped ground water is available and to appraise the magnitude of these resources.

This report describes the geology, the ground-water resources, and the quality and temperature of ground water in the Camas Prairie, Camas and Elmore Counties, Idaho. The occurrence, movement, and utilization of ground water; and the recharge to, underflow in, and evapotranspiration and leakage from the aquifers underlying Camas Prairie were evaluated. Surface-water resources and ground-water discharge to streams also were appraised.

Field work on the hydrologic phases of the investigation was started in July 1957 and completed in November 1957. The author was assisted in the field by his colleagues, E. G. Grothwaite and K. H. Fowler. The geologic sections of this report was based largely on the geologic data collected in 1924 by Arthur M. Piper (1925).

ACKNOWLEDGMENTS

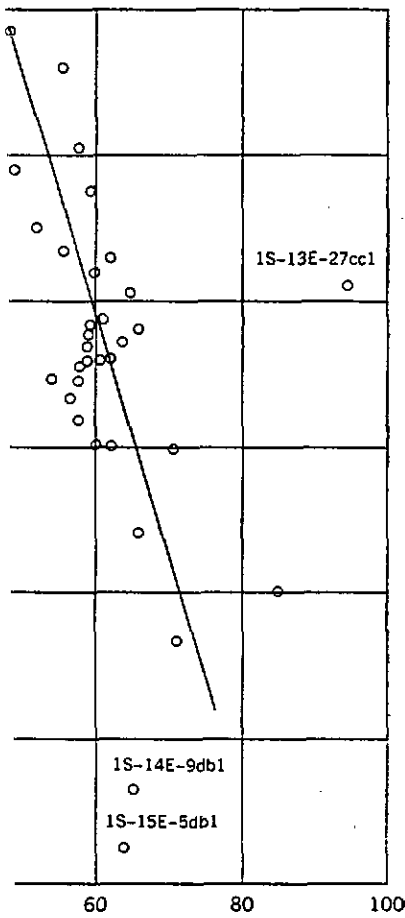
The cooperation of residents of Camas Prairie in supplying data and allowing measurements and tests to be made on their wells is greatly appreciated. Thanks are given to well drillers, especially Mr. Clarence H. Cole, who willingly supplied copies of drilling logs. The writer also wishes to thank Mr. T. T. Wokersien, treasurer of the village of Fairfield, who provided invaluable assistance and information.

LOCATION AND EXTENT OF THE AREA

Camas Prairie is in the southern part of Idaho, the central part of the prairie being about 55 miles north-northwest of Twin Falls and about 75 miles east-southeast of Boise (fig. 1). Most of the prairie lies in Camas County, but the west end is in Elmore County. The area studied during the present investigation includes that part of the drainage basin of Camas Creek in Tps. 1 and 2 S., Rs. 11-17 E., and covers an area of about 300 square miles.

PREVIOUS INVESTIGATIONS

A study of the ground-water conditions of Camas Prairie was made by Piper (1925). Most of the conclusions reached as a result



TEMPERATURE, IN DEGREES FAHRENHEIT

Temperature with depth.

Temperature downward in the earth's crust is the average temperature gradient with depth. In the valley-fill deposits the average gradient (6° F per 100 feet) is the reason for the abnormal gradient caused by hot water or steam that mixes

WATER IN SURFACE WATERS

Water in Camas and Soldier Creeks and ground water generally found in the valley fill. The dissolved-solids content

of the water in Camas Creek (176 ppm) is slightly greater than that of the water in most wells. The dissolved-solids content of the water in Soldier Creek (63 ppm) is only about half that of the water in most wells. The dissolved solids consist mostly of silica, sodium, calcium, and bicarbonate. The water from the creeks contains small amounts of iron, chloride, and fluoride.

SUITABILITY OF SURFACE WATERS FOR IRRIGATION USE

Water in Camas and Soldier Creeks is "excellent to good" in quality for irrigation use, as evaluated according to the standards suggested by Wilcox (1948) and the U.S. Salinity Laboratory Staff (1954). The waters are classified on the basis of percent sodium in figure 12.

SUMMARY

Camas Prairie is in the southern part of Idaho north of the Snake River Plain, and is part of the Camas Creek valley, a large eastward-trending intermontane trough about 40 miles in length and averaging about 8 miles in width. Camas Prairie is regarded as a structural depression that has been filled by alluvial and lake deposits mainly of Pleistocene age. The valley fill accumulated behind Pliocene and Pleistocene lavas which dammed the eastern outlet of the basin. The consolidated rocks of the mountains and hills enclosing the prairie on the north, south, and west are composed largely of intrusive and extrusive igneous rocks, ranging in age from Cretaceous to Quaternary but including some sedimentary rocks of Carboniferous age. The consolidated formations yield small amounts of ground water to wells and springs from the complex systems of fractures and weathered zones that permeate the otherwise dense and relatively impervious rocks.

The principal aquifers in Camas Prairie are the sand and gravel deposits (valley fill), and the basalt at the eastern outlet of the prairie. The valley-fill deposits are about 550 feet thick at Fairfield; 188 feet of basalt was penetrated above clay in an irrigation well near the east margin of the prairie. An extensive clay bed, averaging 90 feet in thickness and penetrated between the average depths of 120 and 210 feet below the land surface, separates the shallow and deep valley-fill deposits. Permeable sand and gravel deposits are found in two zones below the clay bed; above the clay are alternating beds of sand, sandy silt, silt, and clay, which are not very permeable. Fine- to medium-grained sand and some gravel lie immediately below the clay bed. The average thickness of this zone (upper artesian aquifer) is about 50 feet. Permeable sand and gravel deposits (lower artesian aquifer) averaging 85 feet in thickness occur at the base of the valley fill. The upper and lower aquifers are separated by beds of sandy

and clayey materials that are relatively impermeable. The bulk of the sediments of the two aquifers are rather fine grained and their permeability is low.

Confined water is reached by wells extending to depths greater than 40 feet in the valley fill and by wells in the basalt aquifer. The confined water is under sufficient pressure to cause it to rise above the land surface over much of the prairie, and flowing artesian wells are common. The head above land surface in the flowing wells seldom exceeds 10 feet. Water occurs under water-table conditions in the shallow deposits above the clay bed. The water table lies at shallow depth, less than 10 feet in most places.

Ground water in the shallow deposits of the valley fill moves in a general southeastward direction from the upland areas bordering the mountains toward the valley floor and Camas Creek and other effluent streams. Ground water in the deeply buried deposits (upper and lower artesian aquifers) moves from the upland areas at the foot of the mountains and hills enclosing the prairie toward a pronounced eastward-trending trough in the piezometric surface whose axis roughly coincides with the course of Camas Creek. Ground water moves in the trough down the hydraulic gradient as underflow. The clay bed impedes but does not prevent upward movement of ground water from the deep part of the valley fill to the shallow deposits. There is a large amount of vertical seepage of water from the deeply buried aquifers, and only a part of the water moving toward and in the trough is transmitted as underflow out of the prairie.

The transmissibility of a 126-foot interval in the lower alluvial aquifer was determined to be about 30,000 gpd (gallons per day) per foot from the results of an aquifer test. The coefficient of transmissibility of the upper and lower alluvial aquifers together is estimated to be about 70,000 gpd per foot. The coefficient of storage for purposes of computation is assumed to be 0.001. Specific-capacity data suggest that the coefficient of transmissibility of the upper 200 feet of the basalt aquifer is about 200,000 gpd per foot, or roughly 3 times that of the upper and lower alluvial aquifers together.

The underflow from Camas Prairie and the vertical leakage through the clay bed were estimated from a study of the quantity of ground water percolating through sections of the upper and lower artesian aquifers near the eastern outlet of the prairie. The average hydraulic gradient of the piezometric surface near the eastern outlet of the prairie is about 23 feet per mile. Underflow and vertical leakage were computed to be about 1.8×10^7 gpd (about 20,000 acre-feet per year) and 1.6×10^7 gpd (about 20,000 acre-feet per year), respectively. Most of the underflow out of the prairie discharges into Camas Creek

or Magic Reservoir east of the flow reaches the Snake River F

The main sources of recharge direct precipitation and downw the base of the mountains bor intake area is estimated to be annual recharge balances unc through the clay bed and is abo 10 inches of water on the intak tion on the intake area is abou than half the recharge, about of water on the intake area, o steam runoff over the part o valley floor and the foot of th mate, recharge direct from pre Evapotranspiration from the magnitude of 11 inches, or at precipitation.

The estimated yearly discha 1957 was about 1,300 acre-fee from 7 wells during an averag acres of wheat, alfalfa, hay clc withdrawals in 1957 of ground tic, and stock use were about 2

Present ground-water develo to a small degree. The water miles of heavily pumped irrig the irrigation season, and the

The specific capacities of t valley-fill deposits were 18 and upon completion of the wells. has been penetrated has a sp foot. The large-capacity irri deposits have perforated pipe knife is used to produce vertica of an inch wide by $4\frac{1}{2}$ inches wide to control the passage of result, the yields of several l greatly and one well has comp Studies indicate that a proper the upper and lower aquifers screen probably would yield 2,2 ing irrigation wells with slott

or Magic Reservoir east of the prairie. Little, if any, of the underflow reaches the Snake River Plain.

The main sources of recharge to the upper and lower aquifers are direct precipitation and downward percolation of stream runoff along the base of the mountains bordering the prairie on the north. The intake area is estimated to be about 75 square miles. The average annual recharge balances underflow from the valley and leakage through the clay bed and is about 40,000 acre-feet per year, or about 10 inches of water on the intake area. The average annual precipitation on the intake area is about 17 inches. It is estimated that more than half the recharge, about 25,000 acre-feet per year, or 6 inches of water on the intake area, occurs by the downward percolation of stream runoff over the part of the alluvial fans lying between the valley floor and the foot of the mountains. According to this estimate, recharge direct from precipitation is, therefore, about 4 inches. Evapotranspiration from the intake area is estimated to be in the magnitude of 11 inches, or about two-thirds of the average annual precipitation.

The estimated yearly discharge of irrigation wells on the prairie in 1957 was about 1,300 acre-feet. The water was withdrawn largely from 7 wells during an average 60-day irrigation season. About 960 acres of wheat, alfalfa, hay clover, and barley were irrigated. Total withdrawals in 1957 of ground water for irrigation, municipal, domestic, and stock use were about 2,000 acre-feet.

Present ground-water development affects water levels in the prairie to a small degree. The water levels in domestic wells within a few miles of heavily pumped irrigation wells decline several feet during the irrigation season, and the rate of flow from the wells decreases.

The specific capacities of two of the best irrigation wells in the valley-fill deposits were 18 and 22 gpm (gallons per minute) per foot upon completion of the wells. A well in which 188 feet of basalt has been penetrated has a specific capacity of about 112 gpm per foot. The large-capacity irrigation wells drilled in the valley-fill deposits have perforated pipe screens and are gravel packed. A Mills knife is used to produce vertical openings approximately three-eighths of an inch wide by $4\frac{1}{2}$ inches long. The $\frac{3}{8}$ -inch slots are much too wide to control the passage of fine materials during pumping. As a result, the yields of several heavily pumped wells have decreased greatly and one well has completely failed because of sand problems. Studies indicate that a properly constructed well developed in both the upper and lower aquifers and having 70 feet of continuous slot screen probably would yield 2,250 gpm without sand problems. Existing irrigation wells with slotted-pipe screens yield on the average

about 650 gpm, and there is considerable difficulty and expense in keeping the wells free from sand.

The aquifers beneath Camas Prairie are limited greatly in areal extent and the productivity of the valley-fill deposits is not great. Consequently, heavy development would result in large drawdown in wells and interference between production wells would be great. A study was made of the theoretical drawdown associated with the long-term development of 9,000 acre-feet per year from wells in the valley-fill deposits and 3,000 acre-feet per year from wells in the basalt aquifer west of Camas Creek. Computations indicate that water levels in production wells would decline to a position a few feet above the top of the upper aquifer and 50 feet below the top of the basalt aquifer at the end of a 60-day irrigation season as the result of the development of the total of 12,000 acre-feet per year. The upper aquifer would be partly dewatered in the vicinity of the wells and overdevelopment would occur at greater rates of withdrawal. This withdrawal would be sufficient to irrigate about 7,000 acres and involves withdrawing the entire amount during a 60-day pumping season.

The postulated large withdrawals from wells on the prairie would be supplied in part by a reduction in underflow from the prairie and in part by a decrease in leakage from the upper and lower alluvial aquifers. Large-scale development would considerably reduce the artesian pressure, and wells on the prairie would cease to flow. Leakage from the deeply buried deposits into the shallow valley-fill deposits supports the shallow unconfined water body. The large drawdown of water levels accompanying heavy development would reduce the leakage and cause the water table to decline.

Camas Creek drains Camas Prairie into the Big Wood River, which is tributary to the Snake River. The average discharge of Camas Creek above a gaging station near the eastern margin of the prairie for the 11 years of record (1944-55) is 175 cfs (cubic feet per second), or 127,000 acre-feet per year. Observations of streamflow show that ground-water discharge to Camas Creek at the eastern outlet of the prairie is very small.

The waters from most wells and streams in Camas Prairie are of good chemical quality for domestic, municipal, and irrigation use.

There is a lateral decrease in grain size of the valley-fill deposits from coarse, at the foot of the mountains north of the prairie, to fine south of the center of the prairie. The deposits at the foot of the hills south of the prairie are, in general, very fine, and they will not yield large quantities of water to a well. Large-capacity irrigation wells can be successfully developed in the valley-fill deposits, near and north of the center of the prairie. The rocks of the mountains and hills enclosing the prairie act as barriers to the movement of water;

is considerable difficulty and expense in sand.

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therefore large-capacity wells should not be drilled too close to the foot of mountains or hills.

The best area for development of large ground-water supplies is near the eastern margin of the prairie west of Camas Creek where basalt underlies the valley-fill deposits. Wells in basalt generally do not require screens and yield large quantities of water with moderate drawdown. The yield of wells usually increase with the depth of penetration of the well below the top of the basalt. Wells should extend at least 100 feet into saturated basalt to minimize drawdown and reduce the cost of pumping.

RECORDS OF WELLS

The information in the following well logs and well records was obtained from well owners, drillers, files of the Idaho Department of Reclamation, and the Idaho Bureau of Mines and Geology Pamphlet 15. The terminology in the well logs has been slightly modified to achieve uniformity and clarity.

TABLE 4.—Logs of representative wells

[Thickness and depth in feet]

1N-13E-14ca1.					
Material	Thick-ness	Depth	Material	Thick-ness	Depth
Topsoil and boulders.....	7	7	Granite, decomposed; and traces of clay.....	103	110
1N-15E-31ca1.					
Clay and gravel.....	160	160	Hardpan.....	6	231
Sand and clay.....	65	225	Clay.....	75	306
1N-16E-33db1					
Topsoil.....	3	3	Gravel and traces of clay.....	12	60
Sand, brown, gravel, and clay.....	12	15	Sandstone.....	50	110
Clay, yellow, and gravel.....	10	25	Granite.....	64	174
Gravel.....	23	48			
1S-12E-8dc1					
Sand and clay.....	50	50	Granite, crevice.....	17	67
1S-12E-14ba1					
Dug well.....	15	15	Clay, sandy, blue.....	3	100
Sand.....	10	25	Clay, sandy, blue and brown.....	123	223
Clay, sandy, blue.....	5	30	Sand, coarse, and gravel.....	15	238
Clay, sandy, blue, and gravel.....	60	90	Hardpan.....	2	240
Sand and gravel.....	7	97			
1S-12E-24aa1					
Sand and clay, interbedded.....	100	100	Sand, blue.....		170
Clay.....	70	170			

WD0731NP
(00-0731)

DEPARTMENT OF WATER RESOURCES
WELL DRILLING PERMIT NUMBER INDEX

DATE: 04/26/95
PAGE: 2

WELL DRILLING PERMIT NUMBER INDEX: Permit No. 37-94-S-0046-001 (cont'd)

Conditions of approval: another party.

This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.

This drilling permit does not represent a right to divert and use the water of the State of Idaho.

If the bottom hole temperature of 85 Degrees F (29.44 oC) or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.

WELL DRILLER'S LOG REPORT

Drilling Permit No: 37-94-S-0046-001 Water Right No: 37-07697
Injection Permit No:

Nature of Work:	Construction Method:	AIR ROTARY	Number of Monitor Wells:
Casing Diameter: 12 In.	Static Water Level: 9999 Ft.	Actual Start Date: 05/09/1994	
Depth of Casing: 224 Ft.	Temperature: F.	Well Finish Date: 06/11/1994	
Total Depth: 227 Ft.	Production Rate: GPM	Log Received Date: 10/19/1994	
Screen Installed? No		Certification Date: 10/17/1994	
Violation Flag:		Field Inspection Date:	Inspector:

Well Log Remarks: THIS JOB WAS UNDERTAKEN WITH THE UNDERSTANDING THAT THE WELL LEFT OFF IN THE ROCK AND AFTER ENTERING THE WELL THOUGHT THAT THE GRAVEL WAS COMING AROUND THE 16" DRIVESHOE, SO I INSTALLED 12" CASING TO 224 FEET, THEN DRILLED TO 227 FEET AND THE GRAVEL KEPT COMING WITH ME ANY HOW. WENT IN AND CUT CASING OFF (12') AT 204'. UNABLE TO DEEPEN THE HOLE AS PLANNED AIR DEVELOPED WELL STATIC LEVEL UNCHANGED.
(ABOVE REMARKS FROM THE WELL DRILLER'S REPORT OF 10-19-1994)

AUDIT INFORMATION

DEPARTMENT OF WATER RESOURCES
WELL DRILLING PERMIT NUMBER INDEX

WD0731NP
(00-0731)

PERMIT NUMBER	OWNER CODE	NAME & ADDRESS	TWP	RGE	SEC	TRACT	LOT	COUNTY
37-94-S-0046-001	0	GWINN RICE RANCH INC PO BOX 131 HILL CITY, ID 83337 (208) 764-2593	01S	12E	22	SW SW		CAMAS

0 GWENE RICE
PO BOX 133
HILL CITY, ID 83337

Subdivision Location and Description:

Subdivision Name:
Well Site Address: POWERS EAST WELL
City, State:

Geographic Location:
Accuracy Code:
Lat: 0 : : N
Long: 0 : : W

Proposed Use of Well: Irrigation
Anticipated Bottom Hole Temperature: 85F or Less
Proposed Casing Diameter: 16 In.
Proposed Depth: 450 Ft.

Well Use Comments:

Driller License No: 0489

Firm Name: R L SELVES WELL DRILLING
Official: RON L SELVES

Permit Status: Filed

Verbal Issue Date:	Receipt No.	Receipt Date	Fee
Date Received: 05/05/1994	S016860	05/05/1994	\$ 200.00
Date Approved: 05/05/1994		NOT ON FILE	
Proposed Start Date: 05/09/1994		NOT ON FILE	
Extension Date:		NOT ON FILE	
Extension Expiration:		NOT ON FILE	

Specific Conditions:

Permit Remarks:

Conditions of Approval:

This drilling permit is valid for two (2) months from the approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.

This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required prior to construction of this well. The local Health Department should be contacted for septic tank/drainfield locations. Domestic wells must not be drilled closer than 100' from any drainfield and 50' from any septic tank.

The well shall be constructed by a driller currently licensed in the state of Idaho who must maintain a copy of the drilling permit at the drilling site.

Approval of this drilling permit does not authorize trespass on the land of

DATE: APRIL 20, 1995

TO: ALLEN MERRITT

FROM: FUNDERBURG, GARY

SUBJ: RUBY SPRINGS CALL AGAINST RICE
FIELD INVESTIGATION

RECEIVED

APR 24 1995

Department of Water Resources

ON APRIL THE 20TH I MET WITH MR. GWIN RICE AND HIS SON TO LOOK AT THE WELL IN QUESTION WITH RUBY SPRINGS.

THE WELL IS APPROXIMATELY 2 1/2 MILE ~~DO~~ EAST, AND 1/2 MILE SOUTH OF THE SPRINGS. ^{due}

I WALKED UP TO THE AREA WHERE I FELT WAS THE LOCATION OF THE SPRINGS. THE AREA AROUND THIS LOCATION IS SATURATED WITH MOISTER FROM THIS WINTER RUN OFF AND THE CREEK IT SELF WAS OVER FLOWING THE CULVERT IN THE CREEK.

THE WELL IS LOCATED ON MR. RICES PROPERTY. THERE IS A CONCRETE BASE AROUND THE WELL WHERE THE PUMP HAD AT ONE TIME SET. THE CASING SURROUNDED BY THE CONCRETE WAS 6 INCHES ABOVE THE BASE WITH A STEEL PLATE ATTACHED. A POWER POLE IS LOCATED 10FT. TO THE WEST OF THE WELL. PIPE LINES THAT WERE ATTACHED TO THE WELL WERE PURTRUDING INTO THE GROUND WHERE THE PUMP AT ONE TIME OR ANOTHER WAS HOOKED TO.

THRU MY CONVERSATION WITH MR. RICE, THE WELL HAS NOT BEEN USED SINCE 1992. A WELL DRILLER CAME IN AROUND JUNE LAST YEAR AND TRIED TO DEEPEN THE WELL. THE DRILLER LOST CUTTINGS AT AROUND 224 FT., AND THERE WAS A LOT OF WATER AT THIS TIME. MR. RICE INFORMED ME HE WAS NOT AWARE THERE WAS APPROBLEM WITH RUBY SPRINGS BEING AFFECTED BY THEIR WELL. HE INFORMED ME HE HAS BEEN IN BOISE WORKING WITH OUR PEOPLE FOR A DROUGHT RELATED MONEY, THAT JUNE IS THE DATE HE IS REQUIRED TO FILE PROOF OF BENEFICIAL USE.

ENCLOSED IS A MAP OF THE AREA LOCATING THE WELL AND THE SPRINGS IN QUESTION.

RECEIVED

APR 17 1995

Department of Water Resources

FROM: Allen Merritt

DATE: April 13, 1995

TO: Norm Young, Glen Saxton

SUBJECT: Ruby Springs call against Rice well near Hill City

I received a copy of the attached letter sent the "Director" on April 11, 1995. The letter is from Terry Ruby, who came in to our office and talked with Mel Schulte. Mel gave Mr. Ruby a copy of the "Conjunctive Management Rules".

The Rice well was issued a drilling permit No. 37-94-S-0046 for deepening the well in 1994.

I assume the director or the state office will respond but if we can do something from our office please let us know.

Ident. No. 37-94-S-0046-001
Water Right No. 37-07697

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR DRILLING PERMIT

1. Name: GWINN RICE RANCH, INC. O 208-764-2593
Address: PO BOX 131
HILL CITY ID 83337

2. Proposed Well Location: Township 01S, Range 12E, Sec. 22, SWSW
CAMAS County

3. Proposed Use of Well: Non-Domestic Irrigation

4. Well Construction Information:

- A. Deepen
 - B. Proposed Surface Diameter 16 In. Proposed Maximum Depth 450 Ft.
 - C. Anticipated Bottom Hole Temperature: 85 F or less (Cold water well)
- (NOTE: Construction diagrams and/or other information may be requested for monitor, low temperature geothermal, municipal and artesian wells.)

5. Construction Start Date: 5/ 9/1994

6. Anticipated Well Driller: R L SELVES WELL DRILLING

NOTE: The actual well driller must be identified prior to drilling.

7. Applicant's Signature

Gwinn Rice

Date 5/5/94

Title

1-D

(Owner, Firm Representative, Other)

Fee \$ 200.00 Receipted by *JS* No. 5016860 Date 5-5-94

(Continued)

27-94-S-0046-001

ACTION OF THE DEPARTMENT OF WATER RESOURCES

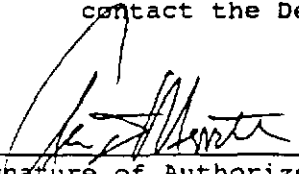
This permit is APPROVED

Date: 5/ 5/1994

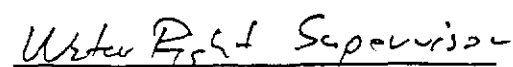
If approved, this permit authorizes the construction or modification of a well subject to the following conditions. READ CAREFULLY!

CONDITIONS OF APPROVAL:

1. This drilling permit is valid for two (2) months from the approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
2. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required prior to construction of this well. The local Health Department should be contacted for septic tank/drainfield locations. Domestic wells must not be drilled closer than 100' from any drainfield and 50' from any septic tank.
3. The well shall be constructed by a driller currently licensed in the state of Idaho who must maintain a copy of the drilling permit at the drilling site.
4. Approval of this drilling permit does not authorize trespass on the land of another party.
5. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
7. If the bottom hole temperature of 85 degrees or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.



 Signature of Authorized Dept. Representative



 Title

EXTENSION OF DRILLING PERMIT

Extension Approved by: _____

Approval Date: _____
Expires On: _____

RECEIVED

APR 13 1995

Department of Water Resources

From: Terry D. Ruby
P.O. Box 266
Eden, Idaho 83325
Phone: 825-5235 or 934-5569

April 11, 1995

To: Director
Idaho Department of Water Resources
1301 N. Orchard
Boise, Idaho 83706

Dear Sir:

I have been informed that Gwinn Rice Ranch, Inc. in Hill City Idaho has filed to fix an earthquake damaged well. If this well is under Water Right Number A37-07697, located in Township 1 S Range 12 E Section 22, I am notifying you that this well should not be allowed to operate. When this well is in operation our surface water decreases to the point we can't utilize it and I want to do whatever I can to protect our senior water right. The water right in question is dated 1978, our senior water right is dated 1900.

We have measurements, statements from neighbors, and documentation to prove that when this well is in operation, the water in a spring supplying our irrigation and stock water is greatly depleted. Also when the well is shut off, the spring comes back within hours and stream flow continues.

I believe that under the Conjunctive Management Rules IDAPA 37 TITLE 03 Chapter 11, we are entitled to a hearing to discuss this issue before any work is done to repair or redrill the well in question. I have enclosed copies of the water right in question and also a copy of our water right.

Any information you can give me on this matter would be greatly appreciated.

Thank You

Terry D. Ruby

cc Regional Office

RE: Permit No. 37-7697

Gentlemen:

Sincerely,

Jeni Johnson

JJ:kw
Enclosure

WITNESSES



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

January 11, 1983

RE: Permit No. 37-7697

Gwinn Rice Ranch, Inc.
Hill City,
Idaho 83337

Gentlemen:

A representative of this Department has made an examination of the works covered by your Permit No. 37-7697, and has found the following:

Amount of water that can be recognized as beneficially used under
Idaho law: 2.88bcfs Source: groundwater

The maximum quantity diverted shall not exceed 1034.7 acre feet
per year.

Point(s) of diversion: SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 22, Twp. 1S, Rge. 12E, Camas County

Beneficial use: Irrigation of 404 acres within the NE $\frac{1}{4}$, S $\frac{1}{2}$, Sec. 22, Twp.
1S, Rge. 12E

Priority date established: January 30, 1978

Conditions (if any):

If you do not concur with these findings please contact us within 10 days, otherwise
a water license will be issued as set forth above.

Sincerely,


JIM JOHNSON
Water Distribution Supervisor

JJ:kw

State of Idaho
DEPARTMENT OF WATER RESOURCES
FIELD REPORT

RECEIVED

DEC 8 1982

Department of Water Resources

37-7697

Permit No.

Re-exam

CONTACT WITH PERMIT HOLDER

DATE INITIALS REMARKS

- ☐ Appointment letter mailed: _____
- ☐ Telephone call made: _____
(List Telephone No. used) _____
- ☐ Appointment scheduled for: 1:00 ADM
(Date, time, location) 6/21/82

EXAMINATION

Date 6/21/82 Accompanied by Gwynn Rice Total Q measured 2.84 cfs
If source is surface water, estimate total flow of source _____
Methods of measurement pressure gauge Meets Permit requirements? Yes

Measurement calculations:

(See Attached Sheet)

second
Mess. 2.84 cfs
Allow 2.84 cfs capacity

$$V = 2.84 \text{ cfs} \times 1.98 \text{ A.F./cfs/day} \times 184 \text{ days} = 1034.7 \text{ A.} \checkmark$$

$$404 \text{ Ac} \times 3.0 = 1212.0$$

WELL/DIVERSION* NO.	HP	MOTOR MAKE	MOTOR SERIAL NO.	PUMP MAKE	PUMP SERIAL NO.	MEASURING DEVICE TYPE	CONDITION OF MEAS. DEV.	REMARKS
	100	Newman	51249205	Aurora	37871017			rated 1380 gpm @ 245 T.O.H.
	50		R4420-01384					

System Description Well + pump deliver to booster pump which supplies 2 main line delivering water to 4 wheel-liners and one hand-line.

*Code with map on reverse side. Disregard code if only one.

RECOMMENDED AMOUNTS

USE

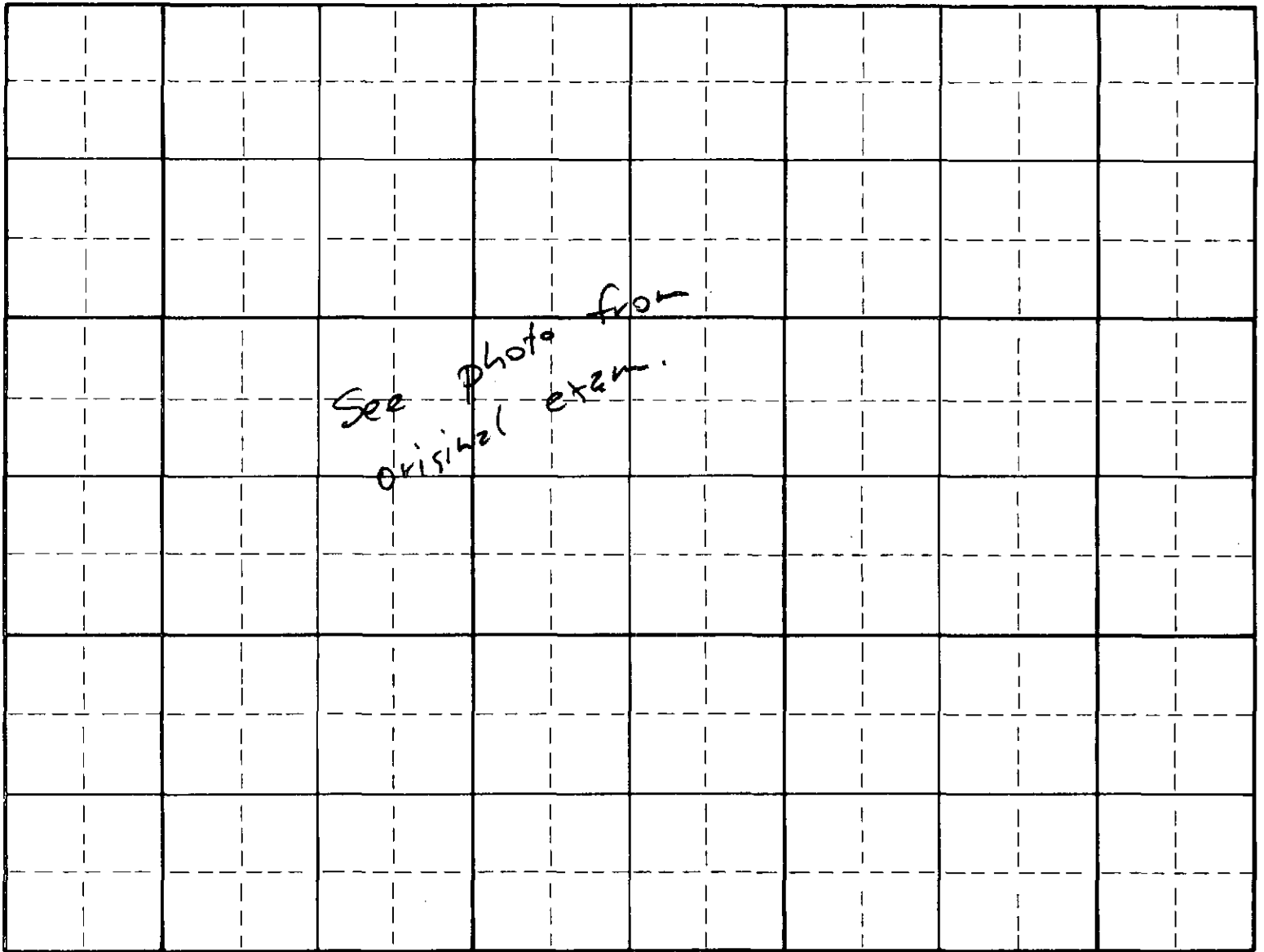
Irrigation requirement = 3.0 AFA/Acre

Q (cfs)	V (afa)	FROM	TO
<u>2.84</u> ✓	<u>1034.7</u> ✓	<u>4/15</u>	<u>10/15</u>

Total 2.84 ✓ 1034.7 ✓

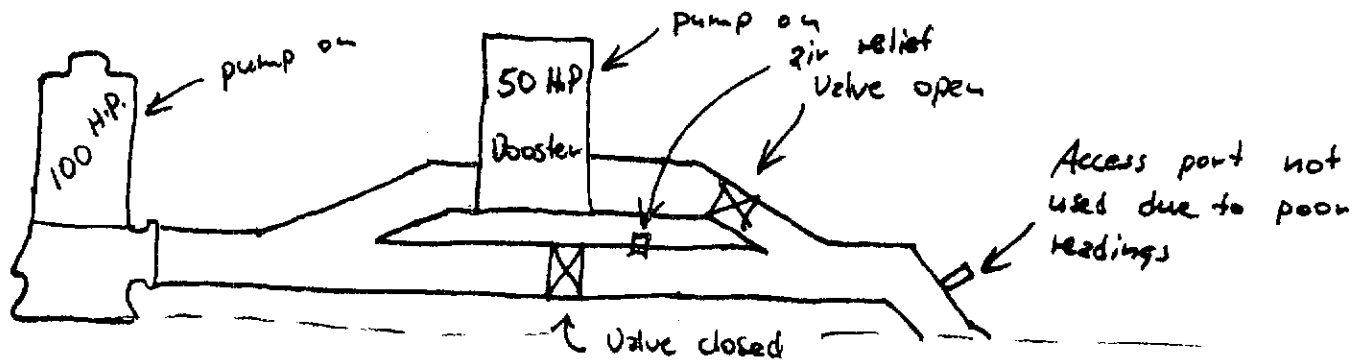
Remarks

This is a re-examination. The original measurement was made by using a meter however the measurement for this exam was by using a pressure gauge at the sprinkler heads. Gauge readings were taken at the ends of all the lines and averaged to calculate discharge for each line.



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: SW 1/4 SW 1/4 Sec. 22 T.1S, R.12E, B.M.

Place(s) of Use

TWP.	RGE.	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	
1S.	12E.	22	39	40	40	39					40	39	39	36	32	40	18	2	404

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

Examiner's Signature *John D. Smith*
 Date 6/22/82

Checked by *J. Stanton*
 Date 9-28-82

Approved by *[Signature]*
 Date 1/4/83

PRE-LICENSE FIELD EXAMINATION WORK SHEET

Re-exam

Date: 6/21/82 Permit #: 37-7697 Acreage Found 404

Use: Irrigation Amount Measured: 2.84 Use Period Verified: ✓

Use: _____ Amount Measured: _____ Use Period Verified: _____

Use: _____ Amount Measured: _____ Use Period Verified: _____

Use: _____ Amount Measured: _____ Use Period Verified: _____

Is Water Co-Mingled or Exchanged? No Details: _____

Other Rights From Same Source: _____

Type of Measuring Device: Access Port Condition: Poor

Changes In P. D. or P. U.: None

Amendment Made? _____

System Description: Diameter & Length of Main Line;

Type of System (handlines, wheellines, pivots, etc.): 4 wheel-lines & 1 hand-line

Diameter & Length of Auxiliary Lines: _____

Sprinkler Heads;	P.S.I.	Nozzle Size	Series	G.P.M. /Head	No. of Heads	Total G.P.M.	C.F.S.
29		1 1/64	33	4.56	132	601.92	
27		1 1/64	33	4.40	28	123.20	
27 1/2		1 1/64	33	4.44	66	293.04	
30		1 1/64	33	4.64	55	255.20	
						1273.36	2.84

Applicant or Representative Present During Exam: Quinn Rice

Notes: _____

Developed problems with annubar meas. due to location of access port and problems with air being pumped by well. Measurement of system was made by pressure gauge readings at sprinkler heads. Measurement was made while deep well pump was operating and booster was off. During this measurement it was found to pump only 2.71 cfs with 40 psi at pump. Another measurement was made with booster pump running and it was found to be 2.84 cfs at increase of pressure on the sprinkler system.

MICROFILMED

INTER-DEPARTMENT MEMO — 1

FROM

Dave T

DATE 9-17-81

TO

Robyn^{RC} → Allen Merritt

SUBJECT

37-7697

Mr. Guinn Rice called in response to our 10 day licensing letter to say that his system was not running properly when the first exam was made. He requested a re-exam & stated that he will contact Allen when he is irrigating next spring. The original field exam is attached hereto.

Der

SIGNATURE

State of Idaho
DEPARTMENT OF WATER RESOURCES
FIELD REPORT

DEC 8 1982

Department of Water Resources

37-7697

Permit No.

CONTACT WITH PERMIT HOLDER

DATE INITIALS REMARKS

- ☐ Appointment letter mailed: _____
- ☐ Telephone call made: _____
(List Telephone No. used) _____
- ☐ Appointment scheduled for: 8/4/80 ADM Made exam however pump not mess. because meter not located properly.
(Date, time, location) _____

EXAMINATION

Date 8/4/80 Accompanied by Gwinn Rice Total Q measured 2.41 cfs

If source is surface water, estimate total flow of source

Methods of measurement Meter not installed properly
Used Annubar

Meets Permit requirements? _____

Measurement calculations:

10.02" Annubar

0-13" Eye-eye Meter # 091464

Reading 8.8" H₂O → Adjusted reading = 7.84" H₂O capacity

$$Q_{meas} = 3.85 \times \sqrt{7.84} \times (10.02)^2 = 2.41 \text{ cfs}$$
$$448.8$$

$$V_{flow} = (2.41 \text{ cfs}) \times (1.98 \text{ A.F./cfs/dy}) \times (184 \text{ days/Ay}) = 878 \text{ A.F./Ay}$$

$$404 \times 3 = 1212.0$$

WELL/DIVERSION* NO.	HP	MOTOR MAKE	MOTOR SERIAL NO.	PUMP MAKE	PUMP SERIAL NO.	MEASURING DEVICE TYPE	CONDITION OF MEAS. DEV.	REMARKS
Well	100	Newman	51249205	Aurora	37871017			rated 1380 gpm @ 245 TDH
Booster	50	Uniclosed	R-4920-01-394	No Plate				

System Description Well with turbine pump with booster delivers water to 4 1/2 mile wheel-lines and one handline which varies in length.

*Code with map on reverse side. Disregard code if only one.

RECOMMENDED AMOUNTS

USE

Irrigation requirement = 3.0 AFA/Acre

Q (cfs)

2.41 cfs

V (afa)

878.0

FROM

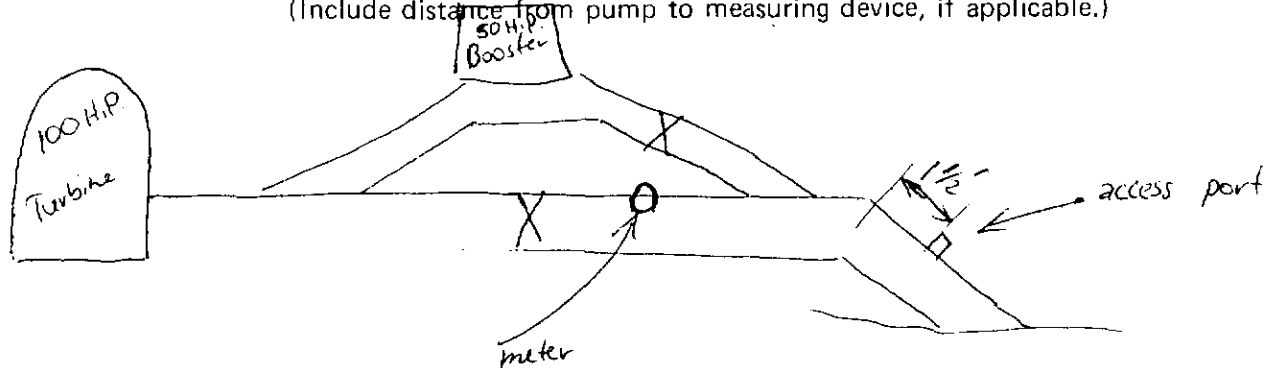
4/15

TO

10/15Total 2.41 cfs 878.0Remarks Gary Funderburg measured pump on 6/4/81 to complete the field exam. The system was unchanged from the first visit on 8/4/80. Mr. Gwinn Rice accompanied Gary when the pump was measured.No Overlapping rights

[illegible]

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: SW¹/₄ SW¹/₄ Sec 22, T.15., R.12E, B.M.

Place(s) of Use

[illegible]

☐ Change P.D. as reflected above

☐ Change P.U. as reflected above

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

Examiner's Signature

Checked by

Approved by

Date 6/30/81

Date 7-17-81

Date 8-18-81





State of Idaho

DEPARTMENT OF WATER RESOURCES

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

JOHN V. EVANS
Governor

C. STEPHEN ALLRED
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

September 11, 1981

RE: Permit No. 37-7697

Gwinn Rice Ranch, Inc.
Hill City,
Idaho 83337

Gentlemen:

A representative of this Department has made an examination of the works covered by your Permit No. 37-7697, and has found the following:

Amount of water that can be recognized as beneficially used under Idaho law: 2.41 cfsq Source: a groundwater source

The maximum quantity diverted shall not exceed 878.0 acre feet per year.

Point(s) of diversion: SW 1/4, Sec. 22, T. 1S, R. 12E, Camas County

Beneficial use: Irrigation of 404 acres within the NE 1/4, S 1/2, Sec. 22, T. 1S, R. 12E

Priority date established: January 30, 1978

Conditions (if any):

If you do not concur with these findings please contact us within 10 days, otherwise a water license will be issued as set forth above.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

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. 37-7697

Name(s) of Permit Holder: Swinn Rice Ranch, Inc.

Post Office Address: P.O. Box 131, Hill City, Id
83337

Source of Water: groundwater

Extent of Use: ☐ Domestic (number of households)
☐ Stockwater (number and type of stock)
☒ Irrigation 480 (acres)
☐ 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.

5/10/79
Date

Swinn Rice
Signature of Permit Holder

RECEIVED
May 10
Department of Water Resources

PLACE
TEN CENT
STAMP
HERE



IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 2, 1979

Gwinn Rice Ranch, Inc.
Hill City,
Idaho 83337

Re: Permit No. ~~37-7647~~ - 37-7680 - 37-7697

Gentlemen: .

We acknowledge receipt of the affidavit submitted as proof of beneficial use 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.

Field examinations must be done while the system is in operation. For this reason we concentrate on irrigation permits during the summer months and do examinations on permits for other uses during the non-irrigating months.

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

Sincerely,

Gary L. Funderburg
Senior Water Resource Agent

GLF:marya

MICROFILMED

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card as a statement of the permit holder(s) has completed a statement to the extent shown below of Permit No. 1-71480

Name(s) of Permit Holder: Living Rice Ranch, Inc.

Post Office Address: P.O. Box 1131, Hill City, Mo. 63337

Source of Water: groundwater
 Extent of Use: ☐ Domestic (number of households)
☒ Stockwater 900 2 1/2 in. (number and type of stock)
☒ Irrigation 560 (acres)
☐ Other

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

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

Date: 5-2-79 Signature of Permit Holder: Living Rice



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:

Statehouse

Boise, Idaho 83720

(208) 384-2215

April 28, 1978

Re: Permit No. 37-7697

Gwinn Rice Ranch, Inc.
Hill City,
Idaho 83337

Gentlemen:

Your approved copy of Application for Permit No. 37-7697 is enclosed and we direct your attention to the conditions of approval on the fourth page.

Please note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. Enclosed is a letter describing the different types of measuring devices accepted by this Department.

The exercise of this permit may also be affected by the court's determination of water rights in the case of Idaho Power Company v. State of Idaho, et al., Civil No. 62237, currently pending before the District Court of Ada County.

Idaho Power officials tell us that because of Case No. U-1006-124 filed before the Idaho Public Utilities Commission, Idaho Power Company is asking the District Court of Ada County to determine whether the Power Company's water rights on the Snake River are protected against subsequent upstream appropriations in the waters of the Snake River and surface and subterranean tributaries between Milner Dam and Hells Canyon.

Since the use of water under your permit may affect the flows in this reach of the Snake River, the final decision in Idaho Power Company v. State of Idaho, et al. (Ada County Civil No. 62237) may determine to what extent the exercise of your permit may be subject to the water rights of Idaho Power.

While the Ada County court is examining this question, Idaho Power Company has not filed a specific protest to your permit.

RECEIVED

However, the Department of Water Resources has been advised that the Power Company is not waiving any of its rights to contest or limit the exercise of your permit or a subsequent license or water right.

If you have any questions, please let us know.

Sincerely,

A handwritten signature in black ink, reading "L. Glen Saxton". The signature is written in a cursive style with a large, stylized "L" and "S".

L. GLEN SAXTON
Chief, Operations Bureau

LGS:kw
Enclosure

62-110000-1729

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item Initial Date

Application No. 27-7697 - Gwinn Rice Ranch, Inc.

☒ 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) JP 2-2-78

In form to receipt

(2) JP 2-2-78

Send Copies to:

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

(3) JP 2-2-78

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

(4) JB 2-6-78

In form for advertising

(5) _____

Platted on Map No. _____

(6) _____

Located within Water District No. _____

(7) mls 3-7-78

Critical groundwater area: yes _____ no ☒

(8) mls 3-7-78

Groundwater levels:

_____ Declining, ☒ Stable, _____ Increasing

(comment) _____

(9) _____

Other rights on the same place of use

(10) _____

Comments: none

(11) JP 2/28/78

Affidavit of Publication received(date) 2/27/78

(12) JP 2/6/78

Final date for protests 3/6/78
Protests received: yes _____ no ☒

(13) _____

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

(14) mls 3-7-78

Action recommended:

☒ Approve _____ Deny

1-30-78 Proposed Priority

Reason for Reduction _____

☒ Measuring device required

See attached sheet for other conditions of approval

No special conditions for approval

(15) District Southern By Michael Steele Date 3-7-78

cc sent to Boise 2/7/78 JP

RECEIVED

MAR 8 1978

Department of Water Resources

to be used from Apr. 15 to Oct. 15 for irrigation purposes of 630 acres
~~x for~~ _____

 within the NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 22; SW $\frac{1}{4}$, Sec. 23, Twp. 1S, Rge. 12E, B.M.

fore March 6, 1978

Director

on 2/16 and 2/23/78

SECRET

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Gwinn Rice Ranch, Inc. Hill City, Idaho 83337 has on 1/30/78 submitted Application No. 37-7697 for a permit to appropriate 9.0 cubic feet per second of water from ground water by means of well, pump, pipeline, sprinklers within the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 22, Twp. 1S, Rge. 12E, B.M. Camas County to be used from Apr. 15 to Oct. 15 for irrigation purposes of 630 acres within the NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 22; SW $\frac{1}{4}$, Sec. 23, Twp. 1S, Rge. 12E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho, 83301 on or before March 6, 1978.

C. STEPHEN ALLRED
Director

Published in the Mountain Home
News on 2/16 and 2/23/78.

February 6, 1978

Mountain Home News
P. O. Drawer 0
Mountain Home, Idaho 83647

Re: Application for Permit No. 37-7697 - Gwinn Rice Ranch, Inc.

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing ample time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. If you cannot publish the notice on the proposed dates, please contact us immediately.

In order to receive payment, an affidavit of publication must be submitted to the Department along with the publication bill.

Sincerely,

Michael L. Steele
Southern Region Supervisor

Bill submitted: _____

RECEIVED
FEB 10 1978
SOUTHERN REGION