

Nº 58

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO,

ss.

County of Oneida

Carole H. Hummell

being duly sworn,
deposes and says: That she is the Secretary of THE IDAHO ENTERPRISE, a weekly newspaper published at Malad, in the County of Oneida and State of Idaho; that said paper has been and is in general circulation in the county aforesaid, and in the vicinity of Malad; that the advertisement, a copy of which is attached hereto, was published in said newspaper once a week for 2 consecutive weeks in the regular and entire issue of said paper during the period of time of publication, and was published in the newspaper proper and not a supplement; that said paper has been established and regularly published for more than seventy-eight consecutive weeks prior to the date of first publication of said advertisement.

Such notice was published in the issue beginning with February 5, 1981, and ending with the issue of February 12, 1981

Carole Hummell

Fee \$ 15.41

Subscribed and sworn to before me this 12 day

of Feb. 1981

Cindy Williams
Notary Public, Residing at Malad, Idaho

My Commission Expires Life, 19

RECEIVED

FEB 17 1981

Department of Water Resources
Eastern District Office

Legal Notices

NOTICE OF APPLICATION
FOR WATER RIGHT
NOTICE IS HEREBY GIVEN
that the following application
has been submitted for permit to
appropriate the public waters of
the State of Idaho:

No. 15-7067

ONEIDA SCHOOL DISTRICT
NO. 351
250 WEST 400 NORTH, MALAD,
ID 83252

Source: GROUNDWATER
Date Filed: 01-21-1981

Amount: 0.33 CFS
Diversion Point: SWNE Sec. 27

T. 14S R. 36E, ONEIDA Co.
Use: HEATING (0.33 CFS) from

09-01 to 05-31
Place of Use: SENW Sec. 27 T

14S R. 36E
Diversion Means: WELL &
PUMP

If issued, the permit will be
subject to all prior water rights.
Protests against the granting of
any permit must be filed with
the Director of Idaho Depart-
ment of Water Resources, 150
Shoup Ave., Idaho Falls, Idaho
83401 on or before FEBRUARY
23, 1981.

C. STEPHEN ALLRED

Director

Published 2-5 & 2-12-81

2-5-12-81

Fee: \$5

ok tw
2/18/81

BEFORE THE DIRECTOR OF THE DEPARTMENT
OF WATER RESOURCES OF THE
STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR)
PERMIT NO. 15-7067 IN THE NAME OF)
ONEIDA SCHOOL DISTRICT NO. 351)

ORDER ISSUING
PROPOSED DECISION

A. Kenneth Dunn, Director of the Department of Water Resources, having reviewed the attached proposed decision prepared by his appointee, Norman C. Young, who conducted the hearing or who has read the record in this case, hereby approves the same as a proposal for decision pursuant to Idaho Code, § 67-5211 and orders that said proposed decision and a copy of this order be served upon each of the parties to these proceedings who appeared at the hearing on June 9, 1981, of this matter or upon their attorneys in accordance with Rule 7.3 of the Rules of Practice and Procedure of this Department.

Each party to these proceedings who appeared at the hearing is hereby afforded the opportunity, pursuant to Idaho Code §§ 42-1701A and 67-5211, to file exceptions to the attached proposed decision and to present briefs and oral arguments in accordance with the provisions of this order. Exceptions may not be filed and briefs and oral arguments may not be presented by parties who did not appear at the hearing of this case. If no timely and proper exceptions are received, an order by the Director will be entered adopting and issuing the proposed decision as his final decision.

I.
EXCEPTIONS

A. To be considered by the Director, exceptions must:

1. be received by the Director on or before the 15th day following the day of service of this Order and the proposed decision, and
2. specifically identify the portions of the proposed decision to which exceptions are made and specifically state the grounds for those exceptions.

B. Exceptions not in compliance with the above stated requirements will not be considered and will be deemed an acceptance of the proposed decision.

II.
BRIEFS

A. Any briefs in support of exceptions to the proposed decision shall be filed with the Director at the same time that party's exceptions are filed with the Director.

B. Any party desiring to file a brief in response to any exceptions filed by any other party may do so by filing such brief with the Director on or before the 15th day following the last day any exceptions by any other party were served upon that party desiring to respond.

III.
ORAL ARGUMENTS

A. No oral arguments before the Director on the proposed decision will be held unless specifically requested by a party filing exceptions to the proposed decision and unless that request is filed with the Director concurrently with the filing of that party's exceptions.

B. If oral arguments have been properly requested by a party filing exceptions, any other party, upon reasonable notice to the Director, shall have the right to present oral arguments in response to the exceptions filed.

C. Oral arguments before the Director on exceptions to the proposal for decision shall be heard at the discretion of the Director, pursuant to Idaho Code § 42-1701A. After all exceptions, briefs and requests for oral arguments have been received, the Director will decide whether to hear oral arguments. If oral arguments are to be heard, the Director will, within a reasonable time, set the case for oral arguments and notify each party of the place, date and hour the oral arguments will take place and of the period of time allocated for the arguments of this case. Unless the Director orders otherwise, all oral arguments shall be heard in Boise, Idaho.

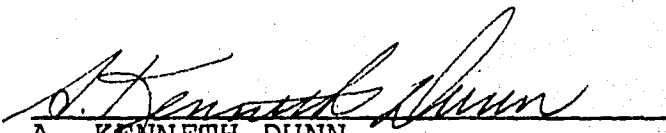
IV.
CERTIFICATION OF SERVICE

A. All exceptions, briefs, requests for oral arguments and other matters filed with the Director in connection with the proposed decision shall be served on all other parties to these proceedings in accordance with Rule 7.2.

V.
FINAL DECISION

A. Following the submission of all exceptions and briefs and oral arguments, if they are heard, the Director shall issue a final decision adopting, modifying or rejecting and replacing the proposed decision. Copies of the decision and order shall be served on all parties.

DATED this 27th day of February, 1982.


A. KENNETH DUNN
Director
Department of Water Resources

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTEST AGAINST APPROVAL)
OF APPLICATION FOR PERMIT NO. 15-7067 IN) CERTIFICATE OF MAILING
THE NAME OF ONEIDA SCHOOL DISTRICT No. 351)
_____)

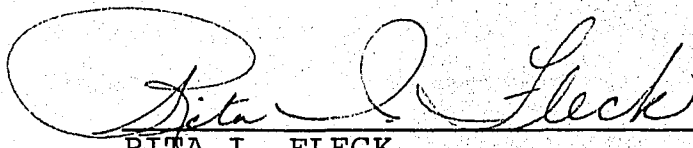
I HEREBY CERTIFY That on this 24th day of February, 1982,
a true and correct copy of the foregoing ORDER ISSUING PROPOSED
DECISION and PROPOSED MEMORANDUM DECISION AND ORDER were mailed,
postage prepaid to:

Oneida School District No. 351
c/o Howard A. May, Superintendent
250 W. 400th Malad, ID 83252

E. L. Scott
P. O. Box 145
Malad, ID 83252

E. G. Crosthwaite
8821 Churchill Road
Boise, ID 83709

Reed M. Smith, President
Magic Gas Co., Inc.
P. O. Box 183
Malad City, ID 83252


RITA I. FLECK
Sr. Secretary

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTEST AGAINST APPROVAL)
OF APPLICATION FOR PERMIT NO. 15-7067 IN) CERTIFICATE OF MAILING
THE NAME OF ONEIDA SCHOOL DISTRICT NO. 351)

I HEREBY CERTIFY That on this 3rd day of June, 1982, a true and correct
copy of the foregoing ORDER ADOPTING PROPOSED MEMORANDUM DECISION AND ORDER, was
mailed postage prepaid to:

Oneida School District No. 351
c/o Howard May, Superintendent
250 W. 400 N.
Malad, ID 83252

E. L. Scott
P. O. Box 145
Malad, ID 83252

E. G. Crosthwaite
8821 Churchill Road
Boise, ID 83709

Reed M. Smith, President
Magic Gas Co., Inc.
P. O. Box 183
Malad City, ID 83252


RITA I. FLECK
Sr. Secretary
Idaho Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Oneida School Dist. #351 Phone (208) 766-2255

Post office address 250 W. 400 N., Malad, ID 83252

2. Source of water supply ground water which is a tributary of _____

3. Location of point of diversion is SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 27 Township 14S

Range 36 E.B.M. Oneida County, additional points of diversion if any: _____

*See remarks, Item 10

4. Water will be used for the following purposes:

Average 30 GPM heating new high school
Amount .33 for _____ purposes from Sept. 1 to May 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

Average 30 GPM - Range of usage 150 GPM to 0

a. .07 cubic feet per second and/or b. _____ acre-feet per annum.

allow .33 cfs as per tel/con HWJ 1/26/81

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Well will be dug to depth of 800'
plus - water will be pumped through school system and reinjected into
second well

b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir
capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is 6" inches; proposed depth of well is 800+ feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial

use is 5 years (minimum 1 year - maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 27 Township 14S

Range 36 E. B.M.

(2) Amount of power to be generated: None horsepower under None feet of head.

(3) List number of each kind of livestock to be watered None

(4) Name of municipality to be served Oneida School Dist. #351 or number of families to be
supplied with domestic water none.

(5) If water is to be used for other purposes describe: Water will be used to supply heat
for new high school. Heat pumps will be used to extract heat.

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

N/A

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated

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

N/A

9. a. Who owns the property at the point of diversion Oneida School Dist. #351

b. Who owns the land to be irrigated or place of use Oneida School Dist. #351

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

10. Remarks Location - a parcel of land located in the SE¼NW¼, and SW¼NE¼, Section 27, T. 14 S., R. 36 E. B. M., Oneida County, Idaho, more particularly described as follows: Commencing at the NW corner of Section 27; thence S 0° 28'47" E 1460.94 ft. along the west line of section 27; thence N. 89° 39'34" E. 1618.09 ft. to the true point of beginning; thence continuing N 89° 39'34" E. 1313.75 ft; thence S. 7° 46'13" E 270.27 ft; thence South 89° 41'00" W 1332.48 ft; thence N. 3° 48'33" W. 267.94 feet to the true point of beginning. Contains 8.13 acres. This application applies to hot water well #2 only.

Two wells will be dug approx. 400' apart.

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

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.

Howard A. May
Howard A. May

Superintendent

Oneida County School Dist. #351

(Applicant)

Proposed Priority: 1/28/81

Received by BRS Date 1/21/81 Time _____
Preliminary check by _____ Fee \$ 45.00
Receipted by W.S. SRS Date 1/28/81 # 17001
Publication prepared by kw Date 1/30/81
Published in _____ Idaho Enterprise
Publication dates 1/5 & 1/12/81
Publication approved _____ Date _____
Protests filed by: Reed M. Smith for Magic Gas Co.

Copies of protests forwarded by _____
Hearing held by _____ Date _____
Recommended for approval denial by _____

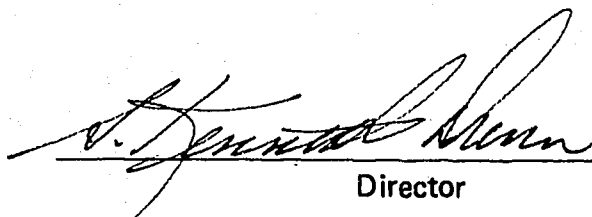
ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 15-7067, 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 May 1, _____, 19 87.
- c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. Other: PURSUANT TO PROPOSED MEMORANDUM DECISION AND ORDER AND ORDER ADOPTING
PROPOSED MEMORANDUM DECISION AND ORDER

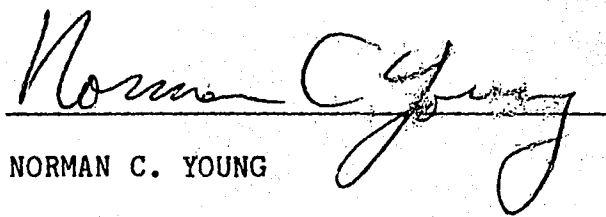
Witness my hand this 21 day of May, 19 82.


Director

the protestant and all other prior right holders are not adversely affected.

6. That proof of construction of works and application of water to beneficial use be submitted on or before the date indicated on the Final Decision and Order.

Dated this 18TH day of February 1982.



NORMAN C. YOUNG

Hearing Officer

one-half mile to the southwest of the well site proposed by Oneida School District No. 351.

2. The water diverted by the school district would be circulated through a heat pump system and reinjected into a well located approximately 475 feet from the production well. At peak demand, approximately 150 gallons per minute would be pumped and reinjected with an approximate ten degree temperature drop between production and reinjection. The school district anticipates no water demand for air-conditioning during the summer.

3. Pump testing of a well drilled by the applicant to be used for the project proposed by Application for Permit No. 15-7067 affected the flow rate from the spring/artesian well owned by the protestant indicating a hydraulic connection between the warm water source sought to be appropriated and that being used by the protestant.

CONCLUSIONS OF LAW

1. The water available to prior existing water rights will not be reduced if the water diverted for the project proposed by Application for Permit No. 15-7067 is returned undiminished in quantity to the aquifer from which it was diverted.

2. Application for Permit No. 15-7067 can be approved with conditions to prevent injury to the prior water rights of the protestant.

3. The applicant is entitled to a permit from the Department of Water Resources.

ORDER

IT IS, THEREFORE, HEREBY ORDERED and Application for Permit No. 15-7067 is APPROVED subject to the following conditions:

1. Subject to all prior existing water rights.
2. That the applicant obtains and maintains a valid permit for underground injection of all the water diverted under water right Application for Permit No. 15-7067.
3. That the diversion in use be nonconsumptive using a closed system design.
4. That all waters diverted under Application for Permit No. 15-7067 be reinjected directly to the aquifer from which it was diverted.
5. That the director of the Department of Water Resources retain jurisdiction of Application for Permit No. 15-7067 to insure that the right of

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTEST AGAINST APPROVAL)
OF APPLICATION FOR PERMIT NO. 15-7067 IN) PROPOSED MEMORANDUM DECISION
THE NAME OF ONEIDA SCHOOL DISTRICT NO. 351) AND ORDER
)

On January 21, 1981, Oneida School District No. 351 applied to the Department of Water Resources for a permit to appropriate 0.33 cubic feet per second of water from a groundwater source at a point within the SW1/4NE1/4, Sec. 27, Twp. 14S, Rge. 36E B.M., Oneida County. This water would be appropriated for the heating of the new high school.

Notice of this application was published in The Idaho Enterprise, Malad, Idaho on February 5 and 12, 1981 and subsequently was protested by Reed M. Smith on behalf of Magic Gas Company, Inc.

A conference in the matter was held in Malad, Idaho on June 9, 1981. The applicant was represented by E. L. Scott, attorney at law and Howard A. May, superintendent of School District No. 351. Present also in behalf of the school district was E. G. Crosthwaite, a groundwater geologist. The protestant was represented by Reed M. Smith, President of Magic Gas Co., Inc. After discussing the issues informally, all parties agreed that the Department had an adequate understanding of the issues involved to make a decision without need of a formal hearing. The Director of the Department has, therefore, taken this matter under consideration and based upon the information provided at the conference, the official files of the Department, and upon his understanding of the law, the Director of the Department of Water Resources makes the following Findings of Fact, Conclusions of Law, and Order.

FINDINGS OF FACT

1. Magic Gas Company is the holder of water right Permit No. 15-7052 which entitles them to appropriate 0.223 cubic feet per second from a groundwater source within the SE1/4SW1/4, Sec. 27, Twp. 14S, Rge. 36E, B.M. for a public bathing facility within that location. This location is approximately

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTESTS AGAINST APPROVAL)	ORDER ADOPTING
OF APPLICATION FOR PERMIT NO. 15-7067 IN)	PROPOSED MEMORANDUM DECISION
THE NAME OF ONEIDA SCHOOL DISTRICT NO. 351)	AND ORDER

WHEREAS, A. Kenneth Dunn, Director of the Department of Water Resources having issued and served a copy on the parties thereto on February 24, 1982, a Proposed Memorandum Decision and Order in the above-captioned matter, pursuant to Section 67-5211, Idaho Code; and,

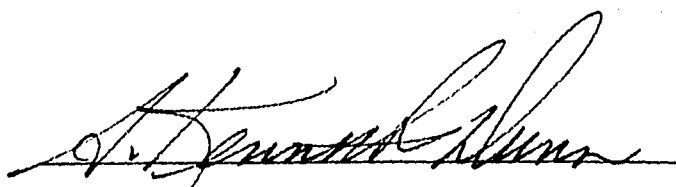
WHEREAS, more than fifteen days have passed since the service of the Proposed Memorandum Decision and Order; and,

WHEREAS, no exceptions to that Proposed Memorandum Decision and Order have been received;

IT IS, THEREFORE, HEREBY ORDERED That said Proposed Memorandum Decision and Order be adopted as the Final Decision and Order of the Department with the following additional conditions of approval:

1. That proof of construction of works and application of water to beneficial use be submitted on or before May 1, 1987.
2. Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is completed.

Dated this 21 day of May, 1982.



A. KENNETH DUNN
DIRECTOR

RAYMUNDO J. CHICO, INC.

To

Magic Gas Company, Inc.
Malad City, Idaho

September 2, 1977

RAYMUNDO J. CHICO, INC.

MINERALS EXPLORATION
PROFESSIONAL GEOLOGISTS

SUITE 710, REPUBLIC BUILDING
1612 TREMONT PLACE, DENVER, COLORADO 80202
P.O. BOX 111, DENVER, COLORADO 80201

TELEX 45-885

PHONE (303) 534-2010

September 1, 1977

Mr. Reed M. Smith
President
Magic Gas Company, Inc.
P. O. Box 183
Malad City, Idaho

Re: Geological Reconnaissance for
Uranium within a hot spring
(S.27, T.14N., R.36E.) and
Adjacencies, Malad Area,
Oneida County, Idaho

Dear Mr. Smith:

What follows comprises our findings on the subject of reference based upon our field work of June 28, 1977, results of chemical assays of samples collected and literature retrieved on the subject.

We conclude there is no evidence of uranium mineralization values of significance nor Radium values of magnitude within the hot spring exposed conduit examined on the property of Magic Gas Company. The presence of some radon gas in the hot spring water points towards a nearby radioactive occurrence, probably but not certainly uranium.

The extense alluvial cover within the Malad Valley makes it impossible at this time to gather additional field evidences for a conclusive statement ruling out completely the liklihood of uranium. Radioactivity above background has been detected at the hot springs conduit. No direct rock exposures exist within the valley surface. The determination of such a potential cannot be achieved. The chemical assays for uranium (U_3O_8) of water samples collected during the regional survey yield less than ten parts of U_3O_8 per billion. Rock and soil samples adjacent to the hot spring conduit have insignificant U_3O_8 values. All these sample locations with their respective chemical values are shown on Plate 1 of this report.

RAYMUNDO J. CHICO, INC.

Magic Gas Company, Inc.

September 1, 1977

-2-

Outside the Malad Valley area, northeasterly in the Bannock Range and at about 9 miles on S.7 T.13S. and R.37E., samples from a former prospect visited with you and Mr. Paul Mills of Malad City, have yielded uranium (U_3O_8) values equal to 30 parts per million (sample No. 14), and 19 parts per million (sample No. 15). These are the highest U_3O_8 chemical values obtained during our sampling survey. For your information, it is indicated here that 30 parts per million U_3O_8 (uranium oxide) equals to 0.003% of U_3O_8 (uranium oxide). Commercial uranium evidences leading towards potential uranium targets of significance generally have uranium values ten times higher than the fraction of uranium percent of sample number 15. (Specifically 0.03% U_3O_8 will be required.)

Your curiosity and desires to find out whether or not a uranium deposit could be indicated by the water analyses for Radium (Radium 226 measured in picocuries per liter) can be answered this way. Firstly, the newspaper item associating Radium values of the Crystal Spring of Utah to a possible uranium deposit and the original research article on the subject of the U.S. Geological Survey (see Appendix I) is of academic nature only. Specifically, calculations leading to uranium poundages in subsurface inferred from the measurements of Radium 226 in the Crystal Spring are based on the assumption of uranium presence--the Radium 226 is a daughter product. Uranium 238 does not guarantee that uranium still is present (it could have been leached).

Secondly, assuming validity and correctness of the speculation of the newspaper article and U.S. Geological Survey news release and article, the water analyses of the Crystal Spring yielded over ten times the amount of Radium 226 of the hot spring of your property at the Malad City area. (Note that Radium 226 of sample No. 17 equals to 36 picocuries per liter, and the sample of Crystal Springs equals 410 picocuries per liter.)

Review of geological literature on the Malad and the Bannock Ranges east and northeast of Malad City reveals the presence of consolidated sediments of fifteen geological formations belonging to Cambrian, Ordovician, Silurian, Devonian, Tertiary and Quaternary Systems. These formations are composed primarily of limestones, dolomites and shales with a few quartzite and sandstone units. These rocks have (with

RAYMUNDO J. CHICO, INC.

Magic Gas Company, Inc.

September 1, 1977

-3-

the exception of quartzites and sandstones) a lower uranium content than most rock formations found within uranium provinces.

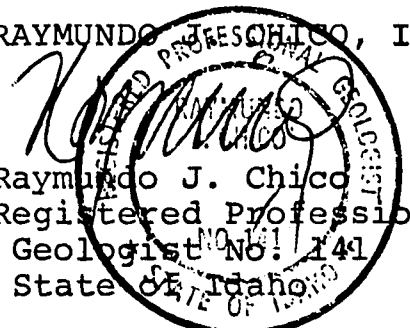
On the basis of the above, it leads us to indicate that no uranium dissemination "blanket type deposit" can be expected within the Malad and Bannock Ranges and the subsurface of the Malad Valley. Any presence of uranium and related radioactivity if found might more likely occur within some of the numerous faults of the structurally controlled ranges. With that guideline in mind, we have drawn on the Plate I all the known exposed faults (heavy lines) and known concealed faults (dotted lines) for further reference. Prospecting along these faults structures would serve to establish by measuring radioactivity values and further sampling whether or not the Malad Range and the subsurface of the Malad Valley could host uranium mineralization within concealed faults. This is a possibility only.

The map of Plate I and Appendix I enclosed herewith are submitted as back-up data of this report. Chemical analyses were performed in Denver by the Colorado School of Mines Research Foundation, Hazen Research, Inc. and by the Fluo X Spec Laboratory.

Thank you for the confidence placed in our services.

Very truly yours,

RAYMUNDO J. CHICO, INC.


Raymundo J. Chico
Registered Professional
Geologist No. 141
State of Idaho

Enclosures
Plate I and
Appendix I

rjc/d

RAYMUNDO J. CHICO, INC.

MAGIC GAS COMPANY, INC.
MALAD CITY, IDAHO

RE: Geological Reconnaissance for
Uranium within a hot spring
(S.27, T.14N., R.36E.) and
Adjacencies, Malad Area,
Oneida County, Idaho

APPENDIX I

Chemical Assays & Miscellaneous

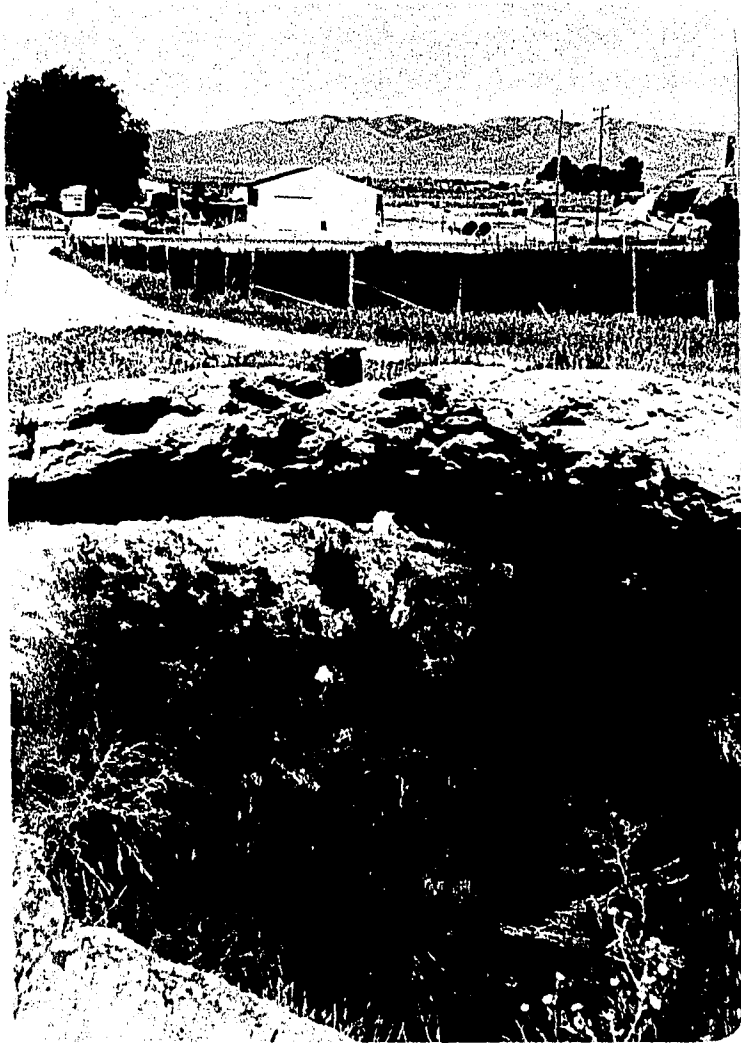


Figure 1: Hot Spring conduit within Mr. Reed M. Smith's property (S.27 T.14N. R.36E.), Malad Valley, Idaho. This is the site of Samples 1, 2, 3, 4 and 17. The sedimentary rock capping the edge of the conduit is travertine (CaCO_3). Radioactive values above background but no uranium have been encountered here.

Photo by Ray Chico

June 28, 1977

Colorado School of Mines Research Institute

P.O. BOX 112 • GOLDEN, COLORADO 80401
PHONE (303) 279-2581

CSMRI

July 11, 1977

Raymundo J. Chico, Inc.
Suite 710, Republic Bldg.
1612 Tremont Place
Denver, CO 80202

Dear Sir,

Please find summarized below analytical results for your
samples 1, 4, 13, 15, for U_3O_8 .

<u>Sample</u>	<u>U_3O_8 (ppm)</u>
- 1	1.7
• 4	< 1.0
13	9.0
15	19.0

Sincerely,



Paul A. Westcott, Ph. D.
Manager Analytical Services.

PAW/br

HAZEN RESEARCH, INC.

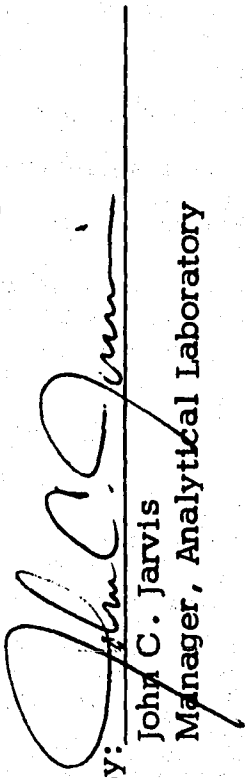
4601 INDIANA STREET
GOLDEN, COLORADO 80401
TELEPHONE 303/279-4501

Mr. Raymundo J. Chico
Raymundo J. Chico, Inc.
Minerals Exploration
P. O. Box 111
Denver, Colorado 80201

Date: August 26, 1977
HRI Project: 002-9A
HRI Series: 11776
Samples Received: 6/30/77

REPORT OF ANALYSIS

Analysis No.	Sample Designation	mg/l (ppm) U ₃ O ₈	% U ₃ O ₈	Ra ²²⁶ ± Precision*	pCi/l
11776-1	#2	0.005	---	---	---
-2	#5	0.003	---	---	---
-3	#6	0.007	---	---	---
-4	#7	0.003	---	---	---
-5	#8	0.003	---	---	---
-6	#9	0.003	---	---	---
-7	#10	<0.002	---	---	---
-8	#11	0.009	---	---	---
-9	#12	0.003	---	---	---
-10	#14 - Rock	---	0.003	---	---
-11	#16	0.003	---	---	---
-12	#17	<0.002	---	36 ± 8	---

By: 
John C. Jarvis
Manager, Analytical Laboratory

eah

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

LUO RESCENT
X RAY
SPEC TROGRAPHIC
Analytical Laboratory

I-IV

718 Sherman Street (rear)
Denver, Colorado 80203
Phone (303) 837-1396
Merlyn L. Salmon, Manager

XXXX QUALITATIVE
XXXX SEMI-QUANTITATIVE
____ QUANTITATIVE

ANALYTICAL REPORT

TO: R. Chico

Job Number 21670
Page 1 of 1 Pages
Date 15 July 1977

SAMPLE: - 3

NOTE: The values below are estimated percentages for the metal equivalent of the indicated elements. No check was made for elements with atomic numbers less than 22 (below titanium).

Copper	0.005	Iron	1.3	Lanthanum	
Silver		Cobalt		Cerium	
Gold		Nickel	0.003	Praseodymium	
Zinc	0.008	Cesium		Neodymium	
Cadmium		Rubidium	0.025	Samarium	
Mercury		Barium	0.11	Europium	
Gallium		Strontium	0.023	Gadolinium	
Indium		Titanium	0.14	Terbium	
Thallium		Zirconium	0.026	Dysprosium	
Germanium		Hafnium		Holmium	
Tin		Thorium		Erbium	
Lead	0.002	Vanadium		Thulium	
Arsenic	0.002	Columbium		Ytterbium	
Antimony		Tantalum		Lutetium	
Bismuth		Chromium		Yttrium	0.009
Selenium		Molybdenum			
Tellurium		Tungsten			
Bromine		Uranium			
Iodine		Manganese	0.073		

By Merlyn L. Salmon

NOTE: A PORTION OF THE REPORTED SAMPLES WILL BE RETAINED ON FILE FOR A PERIOD OF FIVE YEARS FROM THE ABOVE DATE. THE REMAINDER OF THE SAMPLE WILL BE RETAINED FOR THIRTY DAYS PENDING RECEIPT OF WRITTEN INSTRUCTIONS FOR DISPOSAL FROM THE ADDRESSEE ABOVE.

Wednesday, May 4, 1977

The MINING RECORD**Radium In Utah Spring Is Clue
To Possible Uranium Deposit**

A possible deposit of uranium has been detected in northern Utah by measuring the amount of radium — a decay product of uranium — in the waters of Crystal Springs north of Honeyville in Box Elder County, two U.S. Geological Survey scientists said.

J. Kraen Felmlee and Robert A. Cadigan, USGS geologists, Denver, Colo., said the spring water apparently picks up the radium produced by the radioactive uranium as the water passes underground through uranium-bearing rock before reaching the surface.

The two USGS geologists outlined their findings in a paper prepared for delivery to the Second USGS Uranium-Thorium Research and Resource Conference April 27-28, 1977, at the Colorado School of Mines in Golden, Colo.

On the basis of concentration of radium in Crystal Springs water, the rate of flow of the water, and the known rate of decay of uranium into radium, Felmlee and Cadigan calculated that the amount of uranium

required to maintain the present production of radium at Crystal Springs is at least 6,000 tons (5,500 metric tons).

They added, however, that the uranium could be either concentrated in a small area — which might make it worth mining — or it could be scattered over a wide subsurface area so thinly that it would not be worth mining.

Felmlee and Cadigan said their technique of locating possible uranium deposits by measuring the concentration of radium in spring waters could be used in exploring for uranium in other areas.

I-VI

RAYMUNDO J. CHICO, INC.

MINERALS EXPLORATION
PROFESSIONAL GEOLOGISTS

SUITE 710, REPUBLIC BUILDING
1612 TREMONT PLACE, DENVER, COLORADO 80202
P.O. BOX 111, DENVER, COLORADO 80201

TELEX 45-885

PHONE (303) 534-2010

July 11, 1977

Mr. Reed M. Smith
President
Magic Gas Company, Inc.
P. O. Box 183
Malad City, Idaho 83252

Dear Mr. Smith:

This is to acknowledge your assistance given to me while conducting a geological survey on your property and adjacencies as per your June 15, 1977 written request.

The radium and uranium analyses (sent to 3 different laboratories) will be ready by the end of this month. Therefore, no results are available now.

By mid-August, I expect to have all the data needed for the final evaluation of minerals potentials in the area of our survey.

Again, thank you for your assistance and understanding regarding the laboratory delay (caused by the radium measurements techniques).

Very truly yours,

RAYMUNDO J. CHICO, INC.



Raymundo J. Chico
President

rjc/d

MAPS TOO

LARGE TO

FILM —

SEE FILE

RECEIVED

Office of Superintendent

Oneida County Schools

District No. 351
250 West 400 North
Malad City, Idaho

January 16, 1981

Mr. Harold W. Jones
Idaho Dept. of Water Resources
1515 Lincoln Rd.
Idaho Falls, ID 83401

Dear Mr. Jones:

The project that the Oneida School District has underway does not fit the application of Permit for Well so will give the following supplemental information:

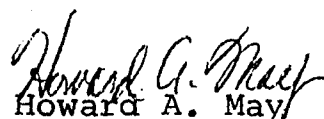
The Oneida district is drilling two wells. Well No. 1, which will be used for an injection well, is presently drilled to a depth of 725 ft. Well No. 2 is presently drilled to the 730 ft. level and water from well No. 2, which is 82°, will be pumped through the school where heat pumps will extract approximately 10° of heat from water which will be reinjected into well No. 1.

Engineering estimates are that the maximum amount of water needed during coldest months would be an average of 30 gal. per minute during the month.

Well No. 2 presently flows at an estimated 75 gal. per minute.

Enclosed is application fee of \$45.00.

Sincerely,


Howard A. May
Superintendent

HAM/cw

15-706Z

ONEIDA SCHOOL DISTRICT NO. 351

250 WEST 400 NORTH, MALAD, ID 83252

Source: GROUNDWATER

Date Filed: 01/21/1981

Amount: 0.33 CFS

Diversion Point: SWNE Sec 27 T 145 R 36E, ONEIDA Co.

Use: HEATING (0.33 CFS) from 09/01 to 05/31

Place of Use: SENW Sec 27 T 145 R 36E

Diversion Means: WELL & PUMP.

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:

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, 150 Shoup Ave., Idaho Falls, Idaho 83401 on or before FEBRUARY 23, 1981.

C. STEPHEN ALLRED

Director

Published 2/5 & 2/12/81.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Eastern Region

150 Shoup Ave.
Idaho Falls, Idaho 83401
(208) 525-7161

JANUARY 30, 1981

The Idaho Enterprise
P. O. Box 205
Malad City, Idaho 83252

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 23, 1981.

Yours truly,

RONALD D. CARLSON
Supervisor
Eastern Region

Encl.

SALES AND SERVICE:

- Propane Gas
- Appliances
- Heating
- Insulation
- Air Conditioning
- Sheet Metal Fabrication

REED SMITH
President
Phone 766-2218

Magic Gas Company, Inc.



P. O. Box 183
Malad City, Idaho 83252

To: C. Stephen Allred
Director
Idaho Department of Water Resources
150 Shaupe Avenue
Idaho Falls, Idaho 83401

From: Reed M Smith
President Magic Gas Co., Inc.
Malad, Idaho 83252

Re: Protest of application for Permit No. 15-7067

RECEIVED

FEB 19 1981

Department of Water Resources
Eastern District Office

I Reed Smith on behalf of the Magic Gas Co., Inc. on this 10th day of February 1981, do hereby formally protest the application of Oneida School Dist. #351. The Magic Gas Co., presently has a permit no. 15-7052 for the development for a bath house facility; located at the following described property, SE 1/4 of SW 1/4 of Section 27 Township 14S, Range 36 EBM Oneida County.

On previous occasions the Oneida County School District has pumped from wells drilled on their property, as property is described in their application for permit. Each time they pumped our artesian well stopped flowing. We presently have people using and needing the bath facility for medicinal purposes and are denied the use of the facility when the waters flow is interrupted.

We therefore feel its very necessary that nothing will be allowed to interrupt the water flow or the mineral content.

Sincerely,

Reed M Smith
President

February 19, 1981

RE: Application for Permit No. 15-7067 ONEIDA SCHOOL DIST. #351

Reed Smith, President
Magic Gas Company, Inc.
P.O. Box 183
Malad City, Idaho 83252

Dear Mr. Smith:

Your protest against the approval of the above referenced application has been received and a copy has been sent to the applicant. The Department suggests you contact the applicant directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If you do not advise us within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying an application for permit (Section 42-203, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purpose intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Very truly yours,

RONALD D. CARLSON
Eastern Regional Supervisor

RDC:cw:kw

cc: IDWR - State Office

February 19, 1981

Oneida School District #351
250 W. 400 N.
Malad, Idaho 83252

Gentlemen:

Enclosed is a copy of a protest filed against the issuance of a permit pursuant to your Application No. 15-7067. The Department suggests you contact the protestant directly in an effort to determine the nature of the protest and to attempt to resolve the protest.

If you do not advise us within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying the application for permit (Section 42-203, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purpose intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Very truly yours,

RONALD D. CARLSON
Eastern Regional Supervisor

RDC:cw:kw

Enclosure

cc: IDWR - State Office

State of Idaho
Department of Water Resources

APPLICATION FOR PERMIT ANALYSIS SHEET

15 7067

INITIAL REVIEW BY: HLWJ

APPLICATION NUMBER: Oncida Sch. Distr.

CHECK:

- ☒ Source.
☒ Point of diversion.
☒ County.
☒ Quantity of water and period of use.
☒ Description of diverting works.
☒ Time required for beneficial use of water.
☒ Place of use or acres irrigated.
☒ Map.
☒ Signature.

Field check by: _____

Date: _____

Comments: _____

☒ Yes ☒ No Field check required.

☒ Yes ☒ No Critical groundwater area.

☒ Yes ☒ No Request dam safety information. Sent by: _____ Date: _____

☒ Yes ☒ No* In form to receipt.

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT: _____

SEND COPIES TO:

- ☒ Idaho State Health Department. Copies sent by: _____ Date: _____
☒ Idaho Fish and Game Department. _____
☒ Idaho Department of Lands. _____
☒ U.S. Bureau of Land Management. _____
☒ U.S. Forest Service. _____
☒ Other _____

PROCESSING:

- ☒ Yes ☒ No Platted by: _____ Map No. _____
☒ Yes ☒ No Other rights on same place of use. _____
☒ Yes ☒ No* In form for advertising. _____
☒ Yes ☒ No* Final date for protests: Feb. 23
☒ Yes ☒ No* Protests received. If yes, record information on 4th page of application.

FINAL REGIONAL PROCESSING REVIEW:

- ☒ Affidavit of publication received. Date: 2/17/81
☒ Application published correctly. If not, record action taken: _____
☒ Fee amount, receipt date & number, recorded on application.
☒ Publication dates and paper, recorded on application.
☒ Protests, dates, withdrawal, etc., recorded on application.
☒ Recommendation & initial, recorded on application.
☒ Yes ☒ No Measuring device required.
☒ Yes ☒ No Access port required.
☒ Yes ☒ No Will water be delivered by watermaster? If yes, what district? _____
1/21/81 Date of priority recommended.
Special conditions of approval or cover letter. _____

By: _____ Date: _____

STATE OFFICE REVIEW:

See Memorandum

RECEIVED
13
JAN 13 1982

☐ See attached sheet for more information.

By: _____ Date: _____

Department of Water Resources

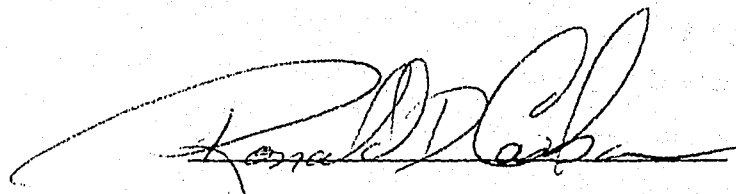
Any party may request in writing five (5) days before any hearing that the oral proceedings thereof be taken in the form of stenographic notes at the expense of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A taped record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties may be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral arguments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code, Section 42-1701A.

The parties by written stipulation may waive their right to a proposed decision, however, the failure of either party to waive a proposed decision will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 42-1701A is waived will not affect a party's right to petition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the district court.

Failure to appear at the time and place set for hearing by the applicant or protestant(s) may allow the Department to dismiss without prejudice the protest(s) or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

Dated this 28th day of May, 1981.


Hearing Officer

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR)
PERMIT NO. 15-7067 IN THE NAME)
OF ONEIDA SCHOOL DISTRICT NO. 351)

NOTICE OF HEARING
&/OR CONFERENCE

On January 21, 1981, Oneida School District No. 351 filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On February 19, 1981, the Department received a protest against approval of said application from Reed M. Smith, President Magic Gas Company, Inc.

The Department has set the matter of protest for hearing for Tuesday, June 9, 1981, at 9:00 a.m. in the Meeting Room (basement), Oneida County Courthouse, Malad City, Idaho. The hearing will be held in accordance with provisions of Chapters 2 and 17, Title 42, and Chapter 52, Title 67, of the Idaho Code and adopted Rules of Practice and Procedure of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present evidence and argument on all issues involved. A pre-hearing conference may be held beginning at the above set time and prior to the hearing.

In accordance with Idaho Code, Section 42-203, the following issues are involved in the consideration of the application and protest(s):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purpose intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use conflict with the local public interest?

NAME AND ADDRESS OF SENDER		DEPARTMENT OF WATER RESOURCES EASTERN DISTRICT OFFICE 150 SHoup AVE. IDAHO FALLS, IDAHO 83401		Indicate type of mail ☐ Registered ☐ Insured ☐ COD ☐ Certified		I certify that we have ☐ Commercial Insurance ☐ A deductible clause of \$		Affix stamp here if issued as certificate of mailing or for additional copies of this bill. POSTMARK AND DATE OF RECEIPT	
1 NUMBER OF ARTICLE	2 NAME OF ADDRESSEE, STREET, AND POST-OFFICE ADDRESS	3 POSTAGE	4 FEE	5 Handling Charge	6 Actual Value (if Registered)	7 DUE SENDER (if C.O.D.)	8 R. R. FEE	9 S. H. FEE	10 REST DEL. FEE
1	171760 Nevada School District #351 Malad, Id.							✓	15-7267
2	171777 Reed M. Smith, Malad, Id.							✓	"
3	171778 U.S. Forest Service 324 25th St. Ketchikan, Alaska								15-7267
4	171779 Garth Thomas Route #1 Malad, Id.								15-7267
5	171800 David Deshamps Route #1 Malad, Id.								"
6	171811 Edward L. Scott 44 Main Street Malad, Id.								"
7	171812 Malad Valley Association 40 Years Defeat Malad, Id.								15-7275
8	171813 Jerry Canby P.O. Box 25 Boise, Id.								"
9	171814 Bill Davidson 436 Pershing Peaslee Idaho								"
10	171815 Michael R. Smith for Reed Smith P.O. Box 183 Malad, Id.								15-7275
11	171816 Kent Smith Holbrook Route Malad, Id.								"
12	171817 Steve Reed State, Id.								"
13	171818 Gerald Bennett Route #4 McCannan, Idaho								29-72612
14	171819 Mark Gibson Gibson Ranch McCannan, Idaho								"
15	171900 Don W. Gilbert P.O. Box 257 Grace, Idaho								13-7361
TOTAL NUMBER OF PIECES LISTED BY SENDER 15		TOTAL NUMBER OF PIECES RECEIVED AT POST OFFICE		POSTMASTER, PER (Name of receiving employee)					

FORM MUST BE COMPLETED BY TYPEWRITER, INK OR BALL POINT PEN ★ U.S. GOVERNMENT PRINTING OFFICE: 1979-301-994

NAME AND ADDRESS OF SENDER		DEPARTMENT OF WATER RESOURCES EASTERN DISTRICT OFFICE 150 SHoup AVE. IDAHO FALLS, IDAHO 83401		NAME OF ADDRESSEE, STREET, AND POST-OFFICE ADDRESS		Indicate ☐ Registered ☐ Insured ☐ C.O.D. ☐ Certified	
1	2	3	4	5	6	7	8
1	171770	Cheida School District #351	Malad, Id.				
2	171777	Reed M. Smith, Malad, Id.					
3	171778	U.S. Forest Service	324 25th St. Eggen, Utah				
4	171779	Guth Thomas	Route #1 Malad, Id.				
5	171800	David Deshamps	Route #1 Malad, Id.				
6	171801	Edward L. Seft	44 Main Street Malad, Id.				
7	171802	Malad Valley Livestock	4000 N. Highway Malad, Id.				
8	171803	Gerry Canby	P.O. Box 25 Malad, Id.				
9	171804	Bill Davidson	636 Pershing Pocatello, Idaho				
10	171805	Michael R. Smith for Reed Smith	P.O. Box 183 Malad, Id.				
11	171806	Kent Smith	Malad, Id.				
12	171807	Steve Reed	Malad, Id.				
13	171808	Gerald Bennett	Malad, Id.				
14	171809	Dick Gibson	Gibson Ranch McCall, Idaho				
15	171900	Bob W. Gilbert	P.O. Box 257 Malad, Id.				
TOTAL NUMBER OF PIECES LISTED BY SENDER		TOTAL NUMBER OF PIECES RECEIVED AT POST OFFICE		POSTMASTER, PER (Name of receiving employ)			
15		1		C.R.			

FORM MUST BE COMPLETED BY TYPEWRITER, INK OR BALL POINT PEN

U.S. GOVERNMENT PRINTING OFFICE: 1979-301-994

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

1. ARTICLE ADDRESSED TO: Cheida School District #351 250 W. 400 N. Malad, Idaho 83252		2. REGISTERED NO. 171770		3. CERTIFIED NO. 171770		4. INSURED NO.	
5. ADDRESS (Complete only if requested)							
6. UNABLE TO DELIVER BECAUSE:							
7. DATE OF DELIVERY							
8. SIGNATURE (Always obtain signature of addressee or agent)							
9. I have received the article described above.							
10. SIGNATURE (Addressee) (Unauthorized agent)							
11. POSTMARK							
12. CLERKS INITIALS							

GPO : 1979-300-456

PENALTY FOR POSTAGE: \$200
USE TO AVOID PAYMENT OF POSTAGE: \$200

RECEIVED

15-7067 - Oneida School District No. 351

Meeting Room, Oneida Courthouse, Malad, Idaho

Tuesday, June 9, 1981 (9:00 a.m.)

ROSTER OF ATTENDANCE

Hearing Officer Norman Young

Name	Address	Representing
E. L. Scott	PO Box 145 MALAD	SCHOOL DISTRICT
E. G. Crosthwaite	8821 Churchill Rd, Boise	School District
HOWARD A MAY, Supt	128 BARNACK, MALAD	SCHOOL DIST
Reed m Smith	PO Box 183	Magic gas Co

STATE OF IDAHO

STIPULATION & AGREEMENT

decision in this case without first submitting a proposed decision.

Dated this _____ day _____, 19____

Crosthwaite -

Parshall weir - 18' - 22 gpm
measured increase during period
injection well was used
USGS measured 44 gpm in 1972

Mr. Smith will supply copy of
Raymond Jr. Chicago

Mr. Reed Smith - Since well has been pumped spring has diminished & has not ever returned to original flow.

Will drilling fluids shot off spring

Crosthwaite - injection well between school production well & Smith spring.

Water has a fairly high radon content.

Water quality will not be changed by

Mr. Scott - During testing of well open discharge there was an effect on Smith spring.

Mr. Smith - There is no well associated w/ his spring. However he has posted a 20" casing down about 4 feet.

Spring is used for health benefits water right permit 15-7052.

Water is heated from 82°F to 90°-106°. Water drained after each person. I identified 13 different minerals in water plus Radon Gas

CONFERENCE APPLICATION 15-7067

ONEIDA SCHOOL DISTRICT

DATE: JUNE 9, 1981

APPLICANT REPRESENTED BY:

E. L. SCOTT

E. G. CROSTHWAIT - CONSULTANT

HOWARD MAY - SUPT

PROTESTANT REPRESENTED BY:

REED M. SMITH

DEPT NORM YOUNG & RON CARLSON

E. L. SCOTT -

2 wells have been drilled to
acquire warm water for thermal
energy - 10° temp drop thru system
system will be closed w/ no loss of water
CROSTHWAIT - Peak demand 150 gpm

Aug 16 25 gpm
over heating system
there will be no water demand
for air conditioning
wells are 475' apart
injection well cased to 445'
total depth 775'

production wells 775', 730'
3rd well will be drilled & cased
to 700 feet.

15-7052

- ③ Pump Testing of the ~~first~~^a well drilled by the applicant affected the flow from the spring. The artesian well ~~was~~ owned by the protestant indicating a ~~hydraulic~~ hydraulic connection between the warm water source sought to be appropriated and that being used by the protestant.

Conclusions of law

- ① The water available to prior existing water rights will not be reduced if the water diverted ~~under~~^{by} application for the project proposed by application for permit # 15-7067 is returned undiminished in quantity to the aquifer from which it was diverted.
- ② ~~The~~ application for permit # 15-7067 can be approved with conditions to prevent injury to the prior water rights of the protestant.
- ③ The applicant is entitled to a permit from the Dept of Water Resources

Order

- ① Subject to all prior water rights
- ② That the applicant ~~shall~~^{must} maintain a valid permit ~~to~~^{for} injecting the waters diverted under permit # 15-7067
- ③ That the diversion and use be nonconsumptive
- ④ That ~~all~~^{diverted under permit 15-7067 be recycled} all waters directly to the aquifer from which they were diverted.
- ⑤ That the director of the Dept of Water Resources retain jurisdiction of permit # 15-7067 to ensure

the right of the protestant to the warm water is not adversely affected. ③

Crosthwaite - will drill with mud
only to above water zone - then drill
with air.

explained three purposes of mud -
not aware of drilling mud invading
an aquifer to any depth, distance.

Smith - $\frac{3}{4}$ mile from spring to well.

Willing to restrict to bentonite

Hearing recessed to allow time
to draft suggested agreements & for
applicant to check on drilling materials
& protestant to check with drilling
expert.

Concerned that drilling fluids will go into formation & plug off his springs.

injection well will be between prod well & Smith's spring (crosshatched)

High Radon content in spring & in well water.

Pump test on 1st production well dried up Mr Smith's.

Mr Smith's source is a natural spring tried to case it but unsuccessfully

Has permit 15-7052 - 100 gpm

Comes out at 82°F must heat to bathing temp. (90° to 106°F)

- Have used to treat horses -

Use to treat diabetics - test being run with intent to build treatment hospital.

Weir placed flow - 100 ft downstream from the spring vent - increased from 18 gpm to 22 gpm when injection was occurring. USGS measured 44 gpm on spring in 1970

Many changes in flow occur from spring to weir.

MALAD - 6/9/81

Permit # 15-7067

Applicant - Ed Scott
E.G. Crosthwaite

Howard May

Protestant - Reed M. Smith

Dept - Young & Carlson
Ed Scott

Peak demand 150 gpm - cold

ave demand 25 gpm over heating season

No intent to use for air conditioning

Closed system - pumped well to
discharge well
No loss of water or
gas

Wells are 475 ft apart

Injection well 725 ft cased to
445production well ⁷³⁰~~535~~ ft cased to

Another production well

1st well will be injection well
2nd well has bit broken off in it
3rd well will be drilled & cased to
take water only from 730 ft level

Mineralized water.

Mr Smith -

Concerned over material in system -

PVC pipe & stainless steel in heat
exchanger.

IN THE MATTER OF)
APPLICATION FOR PERMIT)
NO. 15-7067 IN THE) STIPULATION
NAME OF ONEIDA SCHOOL)
DISTRICT NO. 351) AGREEMENT

We believe that the issues involved in this matter were adequately presented before the Dept. of Water Resources at the conference held in Malad Idaho June 9, 1981. We hereby agree to allow the Dept. to reach a decision in this matter based upon the information presented at the conference and with the understanding that the Depts decision can be appealed within 20 days or to the District Court within 60 days.

Signed at Malad, Idaho this
9th day of June 1981.

Oneida School Dist #351
By: Howard G. May
Superintendent
E. L. Scott
Attorney

Reed M. Smith
Mogin & Co Inc.

INTER-DEPARTMENT MEMO — 1

FROM NCH

DATE 6/12/81

TO File 15-7067

SUBJECT Conf. on 6/9/81

Applicant & protestant agreed to let
dept. make decision if agreement is not
submitted in 60 days.

SIGNATURE

DHW 78-781

COPY DISTRIBUTION

White - PWS Owner

Canary - H&W Region/District

Pink - H&W Region/District

Goldenrod - Laboratory

State of Idaho
DEPARTMENT OF HEALTH & WELFAREWATER QUALITY REPORT
INORGANIC CHEMICAL CONTAMINANTS
Drinking Water Systems

(See Instructions on Back of Form)

AUG 8 1978

LAB NAME
(Check One)☐ Boise☐ Coeur d'Alen☐ Pocatello

Name of Water System		County	Date Collected (10-15)		Office Use Only	
		Blaine			PWS ID (1-7)	
REPORT RESULTS TO:			Mo	Day	Yr	
Full Name			Time Collected (16-19)		(20) Circle One	
Robert Smith					AM	
Address			Collected By		LID	Trans Code (8-9)
P.O. Box 183					0 0 2 0 0 0 3	
City		State	Zip Code			
Malden		Idaho	83252			
Sample Location		(21-23)	Container Type		Preservative Used	
			☐ Glass ☐ Plastic		☐ None ☐ Nitric Acid ☐ Sodium Hydroxide ☐ Sulfuric Acid ☐ Other	
Sample Type (Check One)						
☐ D - REG. DISTRIBUTION		☐ C - CHECK				
☐ P - PLANT TAP		☐ R - RAW WATER				
☐ S - SPECIAL						

COMMON CHEMICAL CONTAMINANTS

PRIMARY										Office Use Only	
✓	ID (25-28)	CONTAMINANT NAME Maximum Allowable Level	Method (29-31)	ANALYSIS RESULTS* (32-39)	Analysis Date (40-45) Mo Day Yr			Analyst Initials	LAB NAME	LAB ID (46-50)	
✓	1005	Arsenic .05	12	.013	7	25	78				
✓	1010	Barium 1	101	7	7	25	78				
✓	1015	Cadmium .010	125	.010	7	25	78				

DHW 78-781

COPY DISTRIBUTION
White - PWS Owner
Canary - H&W Region/District
Pink - H&W Region/District
Goldenrod - Laboratory

State of Idaho
DEPARTMENT OF HEALTH & WELFARE

WATER QUALITY REPORT
INORGANIC CHEMICAL CONTAMINANTS

Drinking Water Systems

(See Instructions on Back of Form)

AUG 8 1978

LAB NAME

(Check One)

☐ Boise☐ Coeur d'Alen☐ Pocatello

Name of Water System		County	Date Collected (10-15)		Office Use Only	
					PWS ID (1-7)	
REPORT RESULTS TO:			Mo	Day	Yr	
Full Name			Time Collected (16-19)		(20) Circle One AM PM	
Address			Collected By		LID	Trans Code (8-9)
City					0 0 2 0 0 3	
State		Zip Code	Container Type		Preservative Used	
Idaho		83252	☐ Glass ☐ Plastic		☐ None ☐ Nitric Acid ☐ Sodium Hydroxide ☐ Sulfuric Acid ☐ Other	
Sample Location (21-23)						
Sample Type (Check One) (24)						
☐ C - CHECK ☐ D - REG. DISTRIBUTION ☐ P - PLANT TAP ☐ S - SPECIAL		☐ R - RAW WATER ☐ S - SPECIAL				

COMMON CHEMICAL CONTAMINANTS

Check Desired Analysis				PRIMARY				Office Use Only			
ID (25-28)	CONTAMINANT NAME Maximum Allowable Level	Method (29-31)	ANALYSIS RESULTS* (32-39)	Analysis Date (40-45) Mo Day Yr	Analyst Initials	LAB NAME	LAB ID (46-50)				
1005	Arsenic .05	12	013	7 25 78							
1010	Barium 1	101	7	7 25 78							
1015	Cadmium .010	125	010	7 25 78							
1020	Chromium .05	125	501	7 25 78							
1025	Fluoride 1.4-2.4	115	026	7 25 78							
1030	Lead .05	125	501	7 25 78							
1035	Mercury .002	103	0011	7 25 78							
1040	Nitrate (As N) 10	109	05	7 25 78							
1045	Selenium .01	125	005	7 25 78							
1050	Silver .05	125	0016	7 25 78							
1024	Cyanide .2	111									

Check Desired Analysis				SECONDARY				Check Desired Analysis				OTHER			
ID	CONTAMINANT NAME Maximum Limit	Method	ANALYSIS RESULTS*	ID	CONTAMINANT NAME	Method	ANALYSIS RESULTS*								
1017	Chloride 250	153		1927	Alkalinity (Total)	157									
1905	Color (C.U.) 15 units	129		1003	Ammonia (As N)	147									
1022	Copper 1	101		1016	Calcium	141									
1027	Hydrogen Sulfide .05	155		1915	Hardness (as CaCO ₃)	141									
1028	Iron .3	101		1031	Magnesium	101									
1032	Manganese .05	101		1925	pH (pH units)	135									
1920	Odor No. (T.O.) 3	133		1042	Potassium	101									
2910	Phenols .001	209		1049	Silica	143									
1055	Sulfate 250	137		1052	Sodium	101									
2905	Surfactants .5	207		1926	Spec. Cond. Umhos/cm	145									
1930	Total Dissolved Solids 500	139													
1095	Zinc 5	101													

* Results Expressed in mg/liter Unless Indicated Otherwise

Lab Supervisor Signature

Analysis Completion Date (Mo, Day, Year)

SALES AND SERVICE:

- Propane Gas
- Appliances
- Heating
- Insulation
- Air Conditioning
- Sheet Metal Fabrication

REED SMITH
President
Phone 766-2218

Magic Gas Company, Inc.



P. O. Box 183
Malad City, Idaho 83252

Malad, Idaho
July 11, 1979

On May 4, 1977 a friend read an article in the Salt Lake Tribune concerning the possibility of uranium deposits at Crystal Springs, Utah. The article noted that the water was radio active. The article was given to me and I was told the spring I own was also radio active. After consideration a geologist was hired to study the possibility of uranium deposits near the spring. A complete report was written and an analysis of the water was made. The study indicated that uranium was not evident. In talking with a medical doctor he suggested that because of the mineral content there could be possible benefits, if the water was used in a therapeutic tub. A small bath house and turbulating tub was later installed.

By chance a diabetic with severe circulatory problems ask to use the pool in February 1979. After two weeks of turbulating, great improvements were noted.

In April 1979 an article in the Salt Lake Tribune was written by Dr. Steven Peth stating hair reveals zinc roll in diabetics. Shortly after a call was made to Dr. peth, at a later date a conference telephone call was made with the Dr. and the diabetic. The diabetics Dr. was later called and the conversation was recorded. On June 14th, Dr. Jerry Palmer, Diabetic Control Center stated that after hearing the tapes and reading information sent to him , he was very interested. He stated that if it was possible to document with Medical Doctors five or six other diabetics what was stated in the tapes, he would be willing to recommend that a research center be established in Malad to determine what is helping the diabetic.

1119 Moncado Drive
Glendale, CA 91207
December 5, 1979

Reed M. Smith
P. O. Box 183
Malad, Idaho 83252

Dear Read:

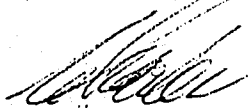
On August 9 you very kindly hosted George Sonntag and me at your place in Malad. Since then you were kind enough to write sending me a tape and other information about the curative powers of your special well.

I feel very negligent in not having acknowledged your kindness and thoughtfulness sooner. In going through some papers on my rather messy desk at home yesterday I discovered your material. My wife and I found it very interesting and have long since shared the information with our son in Detroit.

Distance and time preclude his accepting your very generous offer now. We all will be interested in knowing of any further developments as others in the health field look into the possibilities for helping certain kinds of medical problems.

Thanks again for your time and efforts. Again, please accept my apologies for taking so long to respond.

Sincerely,



Charles M. Brown

cc: George Sonntag

Mr. James M. Richards
23 October 1978
Page - 2 -

Ordinary soil has roughly 1000 pCi per kg each of ^{228}Ra , ^{226}Ra , and ^{228}Th , within about a factor of 3. Therefore, the activity concentration of the precipitate is up to 30 times greater than that of soil. It is uncertain whether the air concentration of radon daughters (^{218}Po , ^{214}Pb , ^{214}Bi , and ^{214}Po) in the immediate vicinity of the springs would necessarily be elevated as a result. Perhaps this deserves further study.

According to the recommendations of the International Commission on Radiological Protection (ICRP II, page 77), the maximum permissible concentration (M.P.C.) of ^{226}Ra in drinking water for exposure for 168 hours per week is 100 pCi per liter. The water sample which I evaluated was assigned a value of 150 ± 26 pCi/l at 90% confidence limit or 150 ± 51 pCi/l at 95% confidence and 150 ± 76 pCi/l at 99% confidence, which means that the concentration is more likely than not to be above the M.P.C., although there is a substantial probability that it could be at or below this value. Unless there is a compelling reason (i.e., no other available local source) for this water to be used for human consumption, I would personally recommend against it.

I will retain all of the samples until 30 October 1978, and then discard them if I do not receive instructions from you to the contrary. If you have any questions about this report or about the experimental technique, results or interpretation, please call me.

Very truly yours,

Ray D. Lloyd

Ray D. Lloyd, Ph.D.
Certified Health Physicist

RDL:mp

THE UNIVERSITY OF UTAH
SALT LAKE CITY, UTAH 84112

COLLEGE OF MEDICINE
RADIOBIOLOGY LABORATORY
BUILDING 522
(801) 581-6600

23 October 1978

Mr. James M. Richards
Attorney at Law
Richards, Bird & Kump
333 East Fourth South
Salt Lake City, Utah
84111

RECEIVED
JUN 19 1981

Department of Water Resources
Eastern District Office

Dear Mr. Richards:

The samples of water and powdered precipitate originating in the mineral springs at Malad City, Idaho, and which you delivered to me for analysis, have been assayed for their radioactive content by gamma-ray spectrometry. Samples were sealed in #2 cans and placed in a freezer for at least 3 weeks so that secular equilibrium would be established between ^{226}Ra and its gamma-emitting daughters, ^{214}Pb and ^{214}Bi , via ^{222}Rn . Samples were then placed between a pair of 8 x 4" NaI(Tl) crystals inside of a shielded enclosure constructed of 6" thick steel. Spectra were recorded by a 1024 channel pulse-height analyser and were compared to spectra obtained under similar conditions from a series of radioactive standards in identical containers.

These results indicated that the particular sample of water which you furnished contained about 150 pCi ^{226}Ra per liter, with a standard deviation of $\pm 17\%$. No other gamma-ray emitters could be identified in the water. Limits of detection were about 35 pCi ^{228}Ra , 232 mg potassium, and 35 pCi ^{228}Th .

The precipitate, however, contained about 18,000 pCi ^{228}Ra per kg, 14,000 mg potassium per kg, 30,000 pCi ^{226}Ra per kg, and 2,000 pCi ^{228}Th per kg (kilogram).

UTAH STATE UNIVERSITY · LOGAN, UTAH 84322

UTAH WATER RESEARCH LABORATORY
UMC-82

COLLEGE OF ENGINEERING

31 March 1978

RECEIVED
JUN 19 1981

Mr. Reed M. Smith,
President
Magic Gas Company, Inc.
P.O. Box 183
Malad City, Idaho 83252

Department of Water Resources
Eastern District Office

Dear Mr. Smith:

Listed below are the results of the metals analyses performed on the Magic Gas sample.

<u>PARAMETER</u>	<u>UNITS</u>	<u>RESULT</u>
Copper	mg/l	0.032
Zinc	mg/l	0.007
Lead	mg/l	0.009
Arsenic	mg/l	0.017
Iron	mg/l	0.048
Nickel	mg/l	0.013
Barium	mg/l	0.805
Manganese	mg/l	0.043

Analysis for rubidium, strontium, titanium, zirconium, and yttrium are not presently done at the Utah Water Research Laboratory. If there are any questions please call me at (801) 752-4100, ext. 7821.

Sincerely,

Leslie Gardner

Leslie Gardner,
Lab Technician

LG/lhk

EDWARD L. SCOTT
ATTORNEY AT LAW
44 MAIN STREET
MALAD CITY, IDAHO 83252
TELEPHONE 766-4000

March 5, 1982

RECEIVED

MAR 9 1982

Department of Water Resources

Mr. Norman C. Young, Engineer
Idaho Department of Water Resources
Broadbent Business Park
92 South Cole Road
Boise, Idaho 83709

Re: Permit No. 15-7067
Oneida School District #351

Dear Mr. Young:

I have reviewed your proposed Memorandum Decision in connection with the above permit dated February 18, 1982, with Supervisor of Schools, Howard A. May. We find the decision to be appropriate except for paragraph 2 of your Order which would require us to "obtain and maintain a valid permit for underground injection of all the water diverted under water right Application for Permit No. 15-7067."

We are wondering why this should not be incorporated as a part of the present permit application rather than go through the procedure of applying for any additional permit.

I will appreciate hearing from you in this.

Very truly yours,



E. L. Scott
Attorney at Law

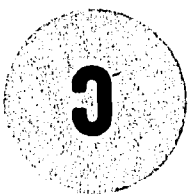
ELS/jh

RECEIVED

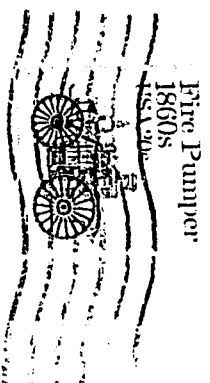
MAR 8 1982

Department of Water Resources
Western Regional Office

EDWARD L. SCOTT
ATTORNEY AT LAW
44 MAIN STREET
MALAD CITY, IDAHO 83252



Mr. Norman C. Young, Engineer
Idaho Department of Water Resources
Broadbent Business Park
92 South Cole Road
Boise, Idaho 83709



March 15, 1982

E. L. Scott
Attorney at Law
44 Main Street
Malad City, ID 83252

Dear Mr. Scott:

RE: Permit No. 15-7067

Your letter of March 5, 1982 asks whether the above referenced permit could incorporate the necessary permit for underground injection of the water once it has been used for heating purposes. The memorandum decision included a reference to this permit only because the reinjection of all water diverted appears to be necessary to prevent a decrease in discharge of the protestant's spring (well). The Waste Disposal and Injection Well Act Chapter 39, Title 42 includes certain applications and fee requirements which must be met separate and apart from the water appropriation permit. The necessity to get input from the Health & Welfare Department and the other reviews necessary before taking action on a disposal well permit would also complicate and delay the issuance of a protested water right permit.

The department has previously supplied the necessary forms for making application for the disposal well to your client, but for your convenience, please find enclosed another application form, instructions for completing and the rules and regulations for the Waste Disposal and Injection Well Act.

Sincerely,

NORMAN C. YOUNG
Administrator
Resources Administration Division

NCY:alw
Encls.

June 3, 1982

Oneida School District No. 351
c/o Howard A. May, Superintendent
150 W. 400 N.
Malad, ID 83252

Dear Sirs:

Re: Application for Permit No. 15-7067.

Enclosed is a copy of your approved Application for Permit No. 15-7067 along with a copy of Order Adopting the Proposed Memorandum Decision and Order and a copy of the Memorandum Decision and Order.

Any person who does not agree with the decision of the department may request a rehearing before the director within twenty (20) days or may appeal directly to the district court within sixty (60) days of the date the decision is mailed.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

LGS:rf

cc: E. L. Scott
E. G. Crosthwaite
Reed M. Smith

Enclosures

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

STATEHOUSE
BOISE, IDAHO 83720
(208) 334-4440
CERTIFIED MAIL
FEBRUARY 28, 1987

138767

ONEIDA SCHOOL DISTRICT NO. 351
250 WEST 400 NORTH
MALAD, ID 83252

PROOF DUE NOTICE

RE: PERMIT NO. 15-7067

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF THE ABOVE REFERENCED WATER PERMIT WAS THAT PROOF OF THE EXTENT OF YOUR BENEFICIAL USE MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE MAY 1, 1987. (SEE LAST PAGE OF YOUR APPROVED PERMIT OR YOUR LAST APPROVED EXTENSION REQUEST.) ENCLOSED IS A FORM WHICH WHEN ACCOMPANIED BY THE LICENSE EXAMINATION FEE OR A COMPLETED FIELD EXAMINATION REPORT PREPARED BY A CERTIFIED WATER RIGHT EXAMINER MAY BE USED TO SUBMIT THE REQUIRED PROOF.

IF YOU HAVE NOT FULLY COMPLETED YOUR PROJECT, AND YOU OR A PREVIOUS OWNER OF THIS PERMIT HAVE NOT RECEIVED A PRIOR EXTENSION OF TIME, YOU MAY REQUEST AN EXTENSION OF TIME IF THE DELAY IS FOR REASONABLE CAUSE AS PROVIDED IN SECTION 42-204, IDAHO CODE. IF YOU HAVE BEEN PREVENTED FROM PROCEEDING BY A GOVERNMENTAL AGENCY OR BY LITIGATION WHICH MIGHT BRING TITLE TO THE WATER IN QUESTION, MORE THAN ONE EXTENSION OF TIME CAN BE GRANTED. AN EXTENSION OF TIME REQUEST FORM IS ENCLOSED FOR YOUR CONVENIENCE.

EITHER AN ACCEPTABLE PROOF OF BENEFICIAL USE SUBMITTAL OR AN ACCEPTABLE REQUEST FOR AN EXTENSION OF TIME MUST BE RECEIVED BY THIS DEPARTMENT ON OR BEFORE THE ABOVE DESCRIBED PROOF DUE DATE. IF NEITHER IS RECEIVED, THE DEPARTMENT WILL SEND YOU A LAPSE NOTICE. WITHIN SIXTY (60) DAYS OF THE MAILING OF THE LAPSE NOTICE, THE PERMIT WILL NO LONGER BE OF ANY FORCE NOR EFFECT.

SINCERELY,

RITA FLECK
SECRETARY/RECORDS MANAGER

ENCLOSURES

Form 217
03/86

RECEIVED

MAR 12 1987

70-1-enc. 42
Department of Water Resources

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

For Office Use Only

Fee Received \$150.00

Date 3-27-87

Receipt # 44639

Receipt by JH

Reviewed by JH

Sent to region 3857

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

Permit No. 15-7067

Name(s) of Permit Holder: ONEIDA SCHOOL DIST #351

Post Office Address: 250W 400N, MACAD, IDAHO 83252

Telephone No. 766-2255

Source of Water: WELL

Extent of Use:

Domestic (number of households) Stockwater (number and type of stock)

Irrigation (acres) Other/Remark HEAT FOR HIGH SCHOOL

Total rate and/or volume for which proof is submitted cfs acre-feet

Show the date water was first diverted and beneficially used under this permit: Sept 1980

Measuring Device: Required? Yes No
Installed? Yes No Fee enclosed \$ 100.00
(See License Examination Fee Schedule)

Flow Measurement Port: Required? Yes No
Installed? Yes No

Person to contact to accompany the Department representative during the field examination:

Howard A. May, Supt 766-2255
(Name) (Telephone Number)

250W 400N, MACAD, IDAHO 83252
(Address)

The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

3/9/87
Date

Howard A. May
Signature of Permit Holder (and title, if appropriate)

RECEIVED
JAN 06 1997

State of Idaho
Department of Water Resources

Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 15-07067

Date of Priority: January 21, 1981 Maximum Diversion Rate: 0.33 CFS
Maximum Diversion Volume: 69.3 AF

Comes now SCHOOL DISTRICT NO 351
250 W 400 N
MALAD ID 83252

and represents to the Director of the

Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the
State of Idaho No. 15-07067, and requests that the permit be changed as follows:

Source: GROUNDWATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
HEATING	09/01 to 05/31	0.33 CFS	69.3 AF

LOCATION OF POINT(S) OF DIVERSION: SENW , Sec. 27, Township 14S, Range 36E
ONEIDA County

PLACE OF USE: HEATING

TWN RGE SEC
14S 36E 27 SENW

Permit holder asserts that no one will be injured by such change and that such change
will be made at permit holder's own risk.

Signed at Malad, ID, this 3rd day of January, 19 97.


(Signature)

PAGE 2

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 15-07067

FOR DEPARTMENT USE ONLY

Preliminary check by — Fee = 50.00 Received by KLT # C037618 Date 1/16/97

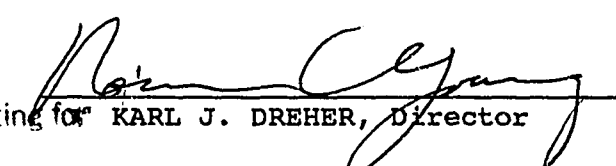
ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, Karl J. Dreher, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 15-07067 with the following;

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Use of water under this right shall be non-consumptive.
6. The right holder shall maintain a valid permit for underground injection of all the water diverted under this right.
7. Heating use is for Malad High School.

Witness my hand this 21st day of JANUARY, 1997.


Acting for KARL J. DREHER, Director

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 15-07067

Priority: January 21, 1981 Maximum Diversion Rate: 0.33 CFS
Maximum Diversion Volume: 69.3 AF

This is to certify, that SCHOOL DISTRICT NO 351
250 W 400 N
MALAD ID 83252

has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated January 21, 1981; and
has submitted Proof of Beneficial Use on March 27, 1987. An examination indicates
that the works have a diversion capacity of 0.330 cfs of water from a GROUNDWATER
source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
HEATING	09/01 to 05/31	0.33 CFS	69.3 AF

LOCATION OF POINT(S) OF DIVERSION: SENW , Sec. 27, Township 14S, Range 36E
ONEIDA County

PLACE OF USE: HEATING
TWN RGE SEC
14S 36E 27 SENW

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Use of water under this right shall be non-consumptive.
6. The right holder shall maintain a valid permit for underground injection of all the water diverted under this right.
7. Heating use is for Malad High School.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 21st
day of JANUARY, 1992.


Acting for KARL J. DREHER, Director

Form 204-p
6/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
COMMENCEMENT OF WORKS

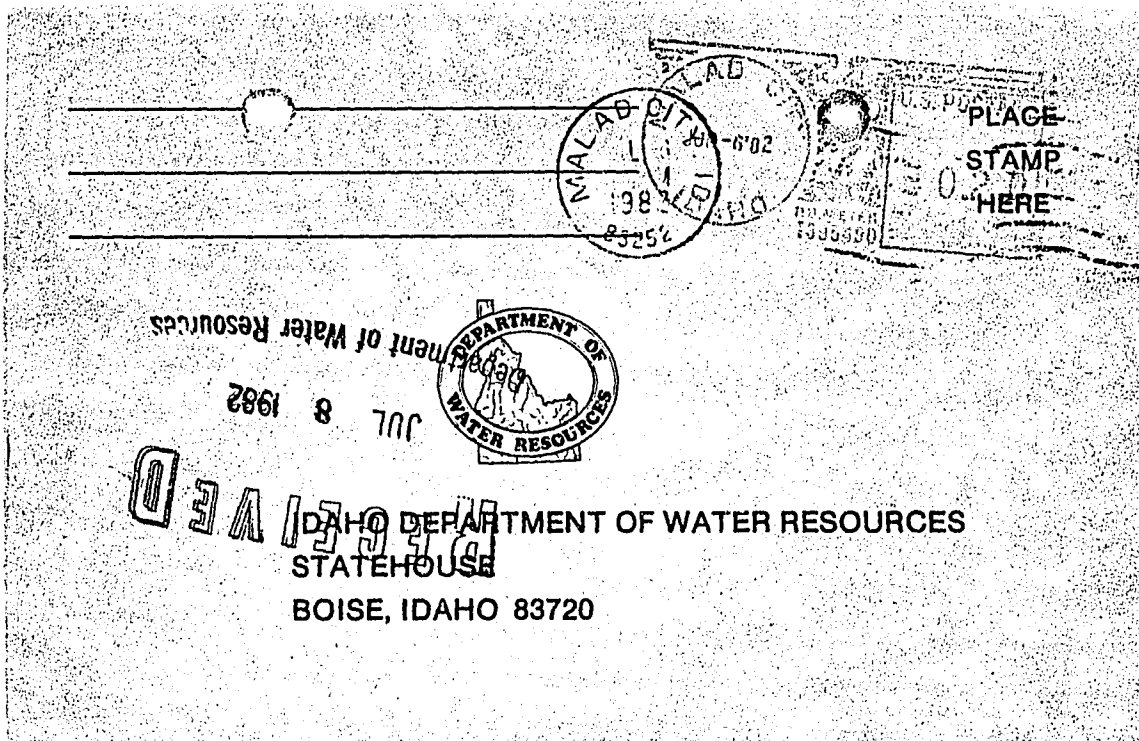
Permit No. 15-7067
Name(s) of Permit Holder(s): ONEIDA Sch. Dist #351
Post Office Address: 250 W 400 N
MALAD, IDA. Tel. No. 766-2255

- ☒ I hereby certify that construction of diversion works for the above referenced permit began on Construction Completed (date). I understand that I must continue to develop the water system with due diligence to maintain a valid permit.
- ☐ I hereby certify that construction of diverting works on the above referenced project has not yet begun due to the following reason beyond my control*:

*Note: A financing difficulty is not an acceptable reason.

7-2-82
Date

Howard L. May, Jr.
Signature of Permit Holder



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Eastern Region

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

APRIL 16, 1987

ONEIDA SCHOOL DISTRICT #351
250 WEST 400 NORTH
MALAD ID 83252

RE: Permit No. 15-7067

Dear Permit Holder:

We acknowledge receipt of your statement 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.

A field examiner will contact you to arrange to examine your system.

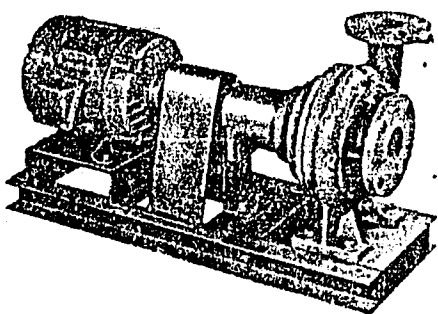
If you have any questions regarding the field examination, please contact this office by phone at 525-7161 or in person in the third floor State Office Building, 150 Shoup, Idaho Falls, Idaho.

Sincerely,
s/HAROLD W. JONES
Sr. Resource Agent

BELL & GOSSETT

SUBMITTAL

B-224.9
REVISION 5



2½B SERIES 1510 Centrifugal Pumps — Base Mounted

JOB _____

B & G REPRESENTATIVE _____

UNIT TAG NO. P-3 & P-4

ORDER NO. _____

DATE _____

ENGINEER _____

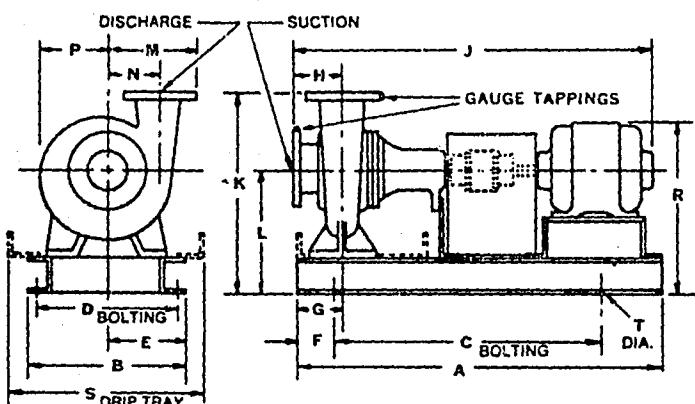
SUBMITTED BY _____

DATE _____

CONTRACTOR _____

APPROVED BY _____

DATE _____



SPECIFICATIONS

240 GPM 45 FT.

MATERIALS OF CONSTRUCTION:

☒ BRONZE FITTED ☐ ALL IRON ☐ ALL BRONZE ☒ 1510 (Standard Seal)

ELECTRICAL DATA: 5 HP ☐ 1510-PF

460 VOLTS 60 CY. 3 PH. (Packing—Flushed)

MOTOR ENCL. _____ ☐ 1510-S (Single Seal)

SPEC. CONSTR. _____ ☐ 1510-D (Double Seal)

APPROXIMATE WEIGHT _____ LBS.

MAXIMUM WORKING PRESSURE 175 PSI
FLANGES ARE 125# ANSI

DIMENSIONS

STANDARD SEAL 1510

PUMP SIZE & DISCHARGE	SUCTION SIZE	MOTOR FRAME	PUMP DIMENSIONS (INCHES)																
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
		"S" FRAME								MAX.					MAX.				
2½B	3"	182T	31	14%	25	12%	7%	3	4%	3½	32%	17½	10%	9½	6	6%	16	13%	¾
		184T									33%								
		213T	34%		28%						35%								
		215T									37%								

"L" FRAME

2½B	3"	284TS	46½	16	36½	14	8	5	5⅜	3½	46%	19¾	13	9½	6	6⅞	21	13¾	⅞
		48%																	
		324TS									50	18¾	12						
		326TS									51½								

STUFFING BOX 1510-PF, 1510-S, 1510-D

PUMP SIZE & DISCHARGE	SUCTION SIZE	MOTOR FRAME	PUMP DIMENSIONS (INCHES)																
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
		"S" FRAME								MAX.								MAX.	
2½B	3"	182T	34⅞	14⅞	28⅞	12⅞	7⅞	3	4⅞	3½	36⅞	17⅞	10⅞	9½	6	6⅞	16	13⅞	¾
		184T	39⅞		33⅞						37						16⅞		
		213T									39½								
		215T									41								

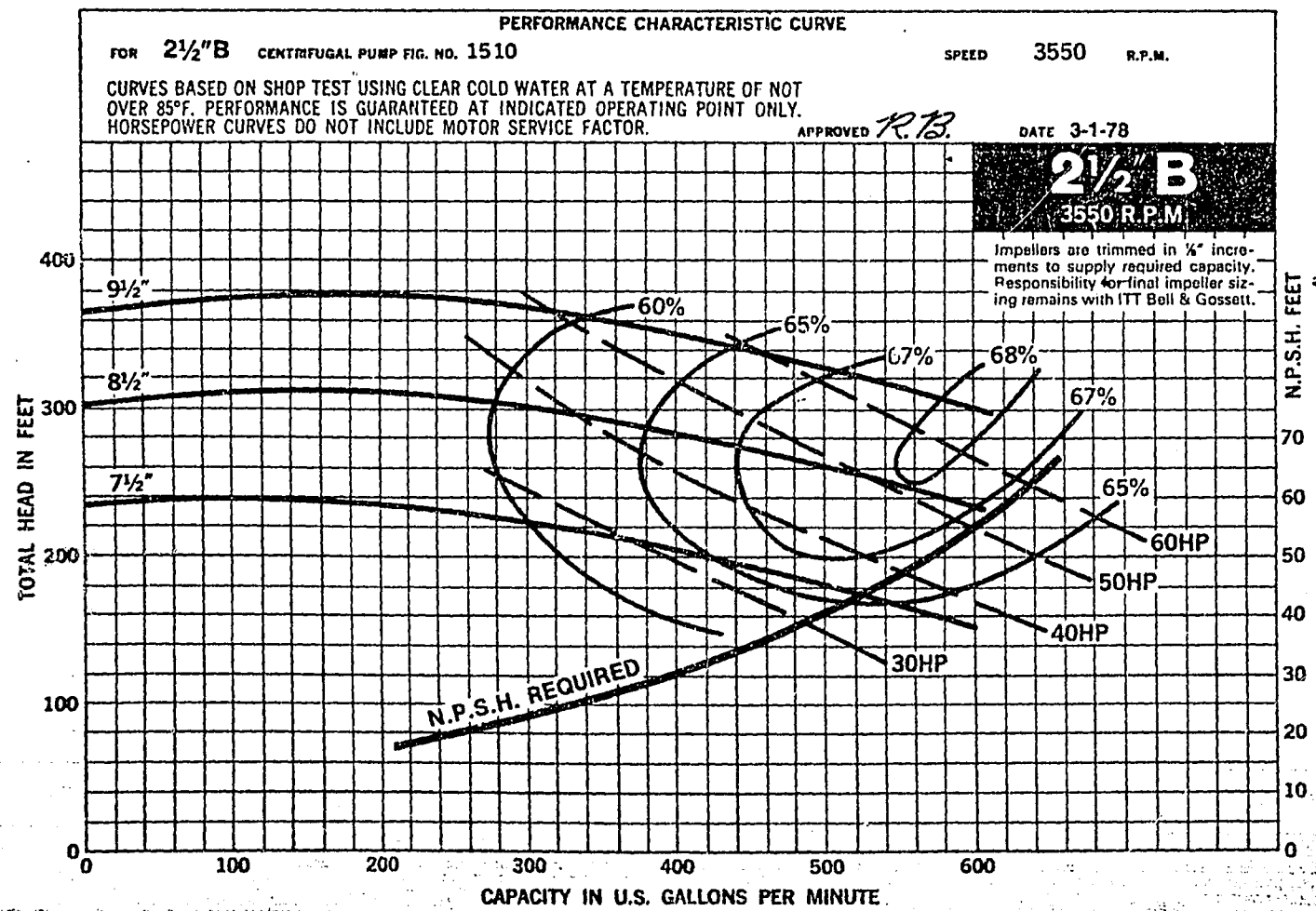
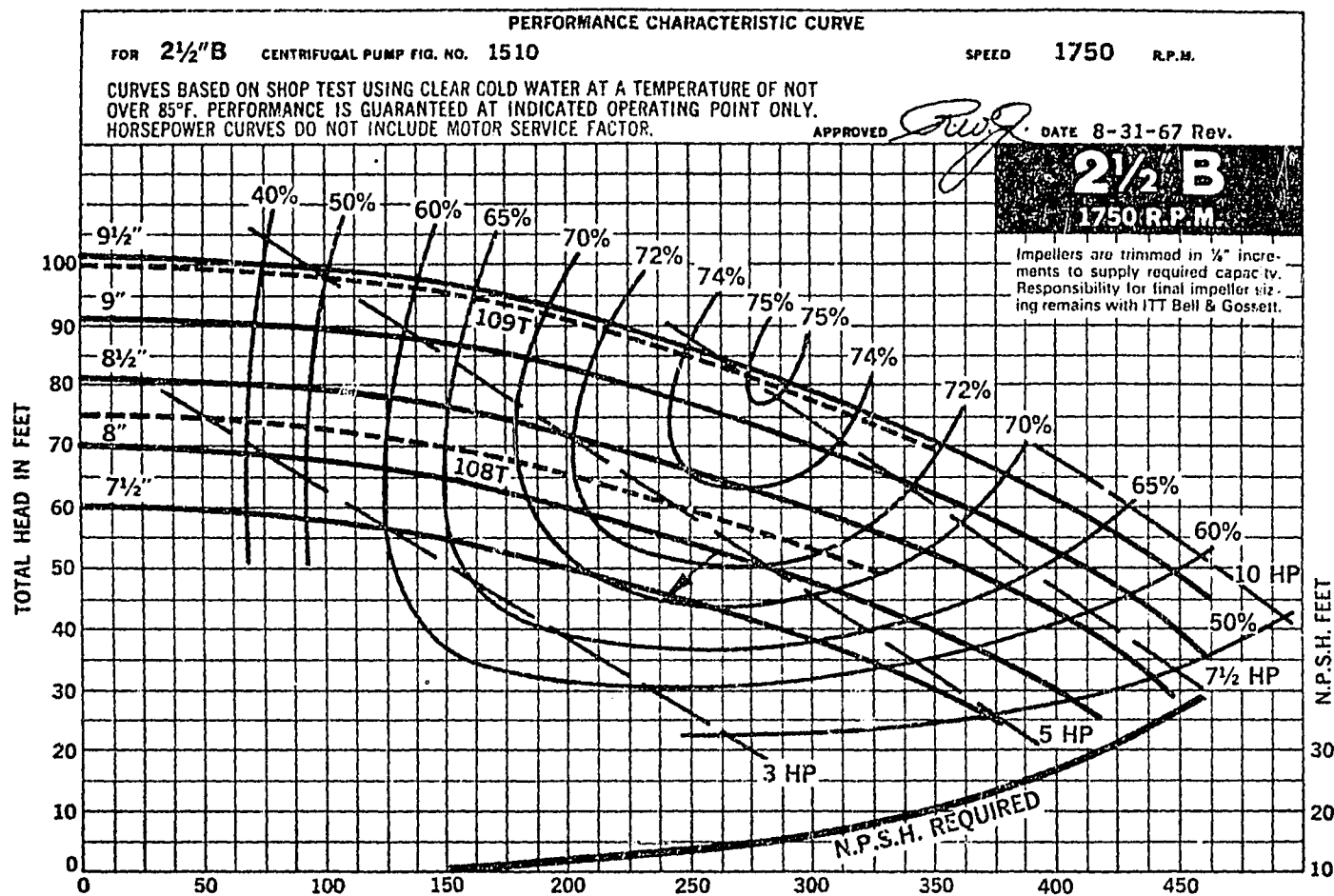
"L" FRAME

2½B	3"	284TS	51¼	16	41¼	14	8	5	5¾ ₁₆	3½	49	19¾	13	9½	6	6¾ ₁₆	21	13¾	7/8	
		286TS									50½						21			
		324TS									52½						12			21
		326TS									54						18¾			

BELL & GOSSETT **ITT**
FLUID HANDLING DIVISION

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1510 PERFORMANCE CURVES



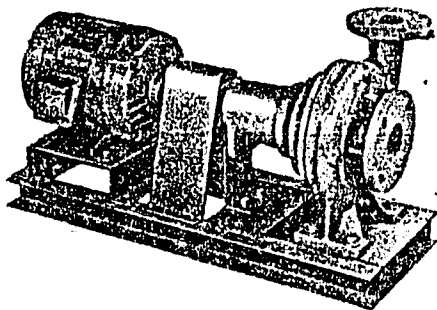
PRINTED IN U.S.A. 5-78

BELL & GOSSETT

8200 N. AUSTIN AVE. • MORTON GROVE, ILL. 60053
INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION



BELL & GOSSETT

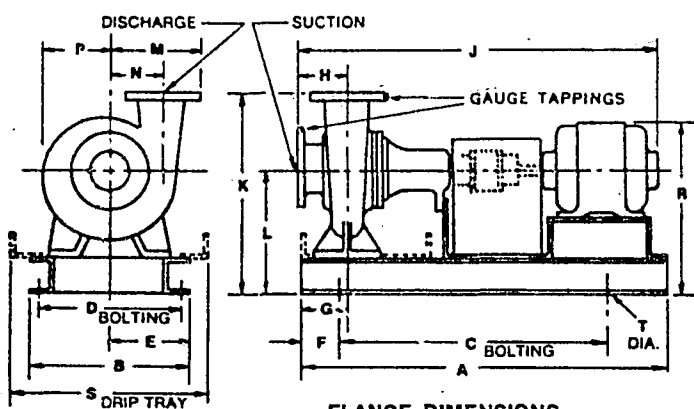


3CB SERIES 1510 Centrifugal Pumps — Base Mounted

SUBMITTAL

B-227.1
REVISION 2

JOB _____	B & G REPRESENTATIVE _____
UNIT TAG NO. <u>P-1 & P-2</u>	ORDER NO. _____ DATE _____
ENGINEER _____	SUBMITTED BY _____ DATE _____
CONTRACTOR _____	APPROVED BY _____ DATE _____



FLANGE DIMENSIONS		
SIZE	THICKNESS	O.D.
3"	1 1/8	8
4"	1 1/4	10

SPECIFICATIONS

240 GPM 114 FT.

MATERIALS OF CONSTRUCTION:
☒ BRONZE FITTED
☐ 1510 (Standard Seal)
☐ 1510-PF (Packing—Flushed)
☐ 1510-S (Single Seal)
☐ 1510-D (Double Seal)
☒ 175 psi W.P. with 125# ANSI flange drilling (Std.)
☐ 250 psi W.P. with 250# ANSI flange drilling optional with Stuffing Box Construction only.

ELECTRICAL DATA: 15 HP
460 VOLTS 60 CY. 3 PH.

MOTOR ENCL. _____

SPEC. CONSTR. _____

APPROXIMATE WEIGHT _____ LBS.

MAXIMUM WORKING PRESSURE 250 PSI
 FLANGES ARE 125# ANSI—STANDARD
 250# ANSI—AVAILABLE

DIMENSIONS STANDARD SEAL 1510

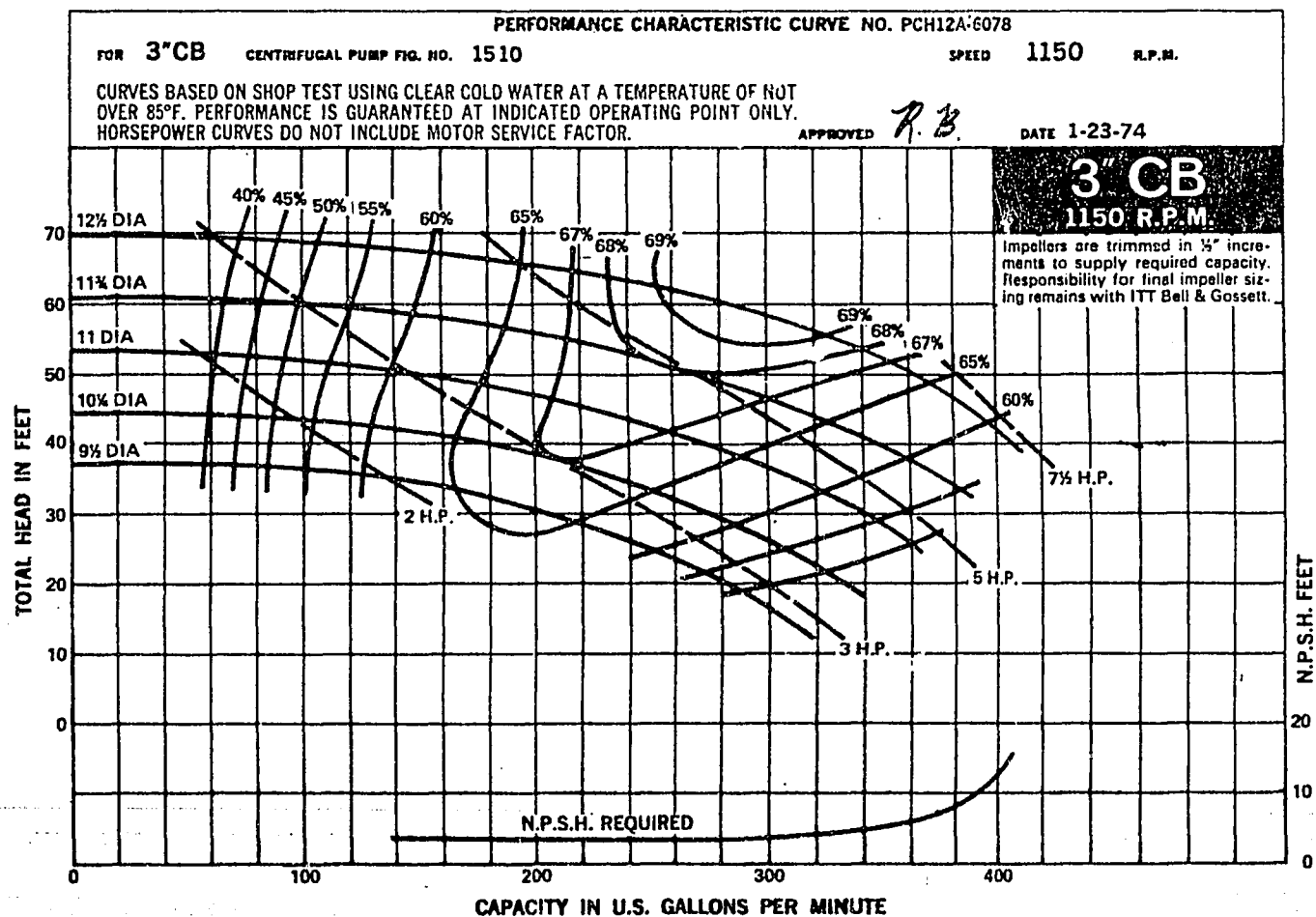
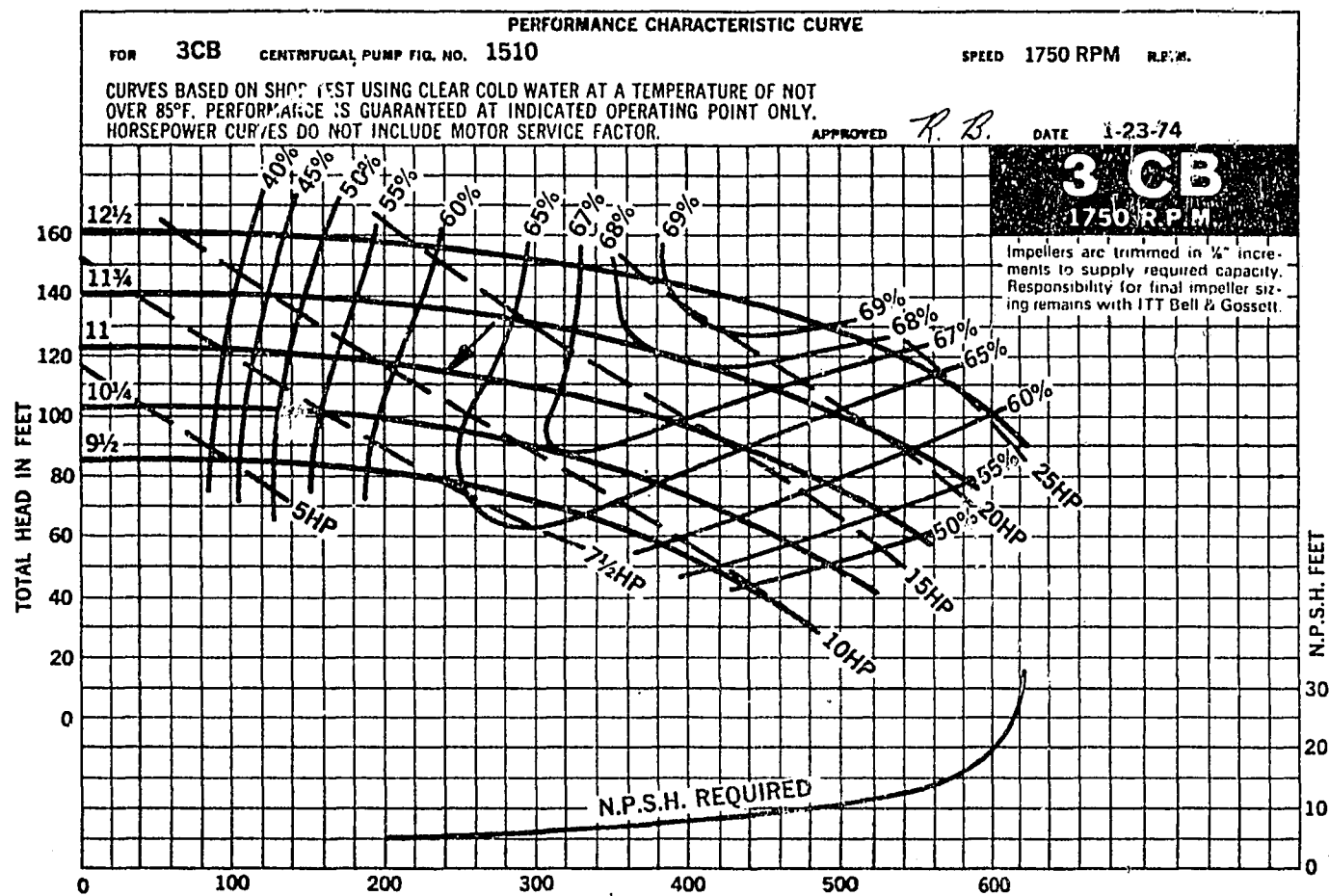
PUMP SIZE & DISCHARGE	SUCTION SIZE	MOTOR FRAME	PUMP DIMENSIONS (INCHES)																
			A	B	C	D	E	F	G	H	J (MAX.)	K	L	M	N	P	R (MAX.)	S	T
			"L" FRAME																
 3CB	4" 	213T									41 $\frac{1}{8}$								
		215T	46 $\frac{1}{2}$	16	36 $\frac{1}{2}$	14	8	5	6 $\frac{1}{2}$	5 $\frac{5}{8}$	42 $\frac{3}{4}$	23 $\frac{1}{2}$	14	12	8	9	19 $\frac{3}{8}$	18 $\frac{1}{2}$	$\frac{7}{8}$
		254T									46 $\frac{3}{8}$						20 $\frac{3}{8}$		
		256T									48 $\frac{1}{8}$								
		284T	51 $\frac{3}{4}$		41 $\frac{3}{4}$						48 $\frac{7}{8}$						22		

STUFFING BOX 1510-PF, 1510-S, 1510-D

PUMP SIZE & DISCHARGE	SUCTION SIZE	MOTOR FRAME	PUMP DIMENSIONS (INCHES)																		
			A	B	C	D	E	F	G	H	J (MAX.)	K	L	M	N	P	R (MAX.)	S	T		
		"L" FRAME																			
3CB	4"	213T	46½	16	36½	14	8	5	6½	5⅝	43½	23½	14	12	8	9	19⅞	18½	⅞		
		215T									45										
		254T	51¾		41¾												48¾				20⅞
		256T									50½										
		284T									51¼									22	

BELL & GOSSETT **ITT**
FLUID HANDLING DIVISION

1510 PERFORMANCE CURVES



PRINTED IN U.S.A. 6-78

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CALCULATED DIMENSION NOT FIXED

DESIGNED, CONSTRUCTED AND NAT'L BOARD
STAMPED IN ACCORDANCE WITH A.S.M.E. CODE
SECTION VIII, 1980 EDITION

DESIGN PRESS 125 P.S.I.
TEST PRESS 188 P.S.I.
DESIGN TEMP. 240 °F
HEATING SURFACE 124.97 Sq. Ft.
EST. WEIGHT 2700 Lbs.

MATERIALS

PLATES (27) MAT'L 304 S/S THK. 0.6 mm
FLANGES SA-105
COVERS SA-515-70
* COVER BOLTS 2 1/2" LG. SA-193-B7
NUTS SA-194-2H
GASKETS NITRILE
* CARRYING BARS 3 3/4" LG. SA-36
SA-479-304

NOTES

- * CAPACITY FOR 39 PLATES
- 1. BOLT HOLES TO STRADDLE MAIN CENTER LINE
- 2. SAND BLAST ALL CBN. STL. PARTS AND PRIME WITH CENTRIBLUE EPOXY PRIMER PER QA-110 AND FINISH WITH CENTRIBLUE PAINT PER QA-111
- 3. TOLERANCE $\pm .125$
- 4. UNIT PROVIDED WITH A PROTECTIVE SHROUD
- 5. DWG. SCALE $\frac{1}{16} = 1"$

NOZZLE SCHEDULE

ALL	C.S.	PIPE	SA-106B	SCH.	40
ALL		FITTINGS		SCH.	
ALL		PIPE		SCH.	
ALL		FITTINGS		SCH.	
T4					
T3					
T2					
T1					
S4	4"	150#	RF	C.S. OUTLET	CS
S3	4"	150#	RF	C.S. INLET	CS
S2	4"	150#	RF	H.S. OUTLET	CS
S1	4"	150#	RF	H.S. INLET	CS
LOC	SIZE	RATED	FACING	FUNCTION	MAT'L

CUSTOMER:

GRITTON & ASSOCIATES

P.O. NO. 498

ITEM NO.

TITLE

AM-10S

ASSEMBLY DWG.

AMERICAN HEAT DIVISION
OF ALFA-LAVAL THERMAL
SOMERVILLE, ILL.

DWN. SSA

DATE 12/17/80

CHK'D PID

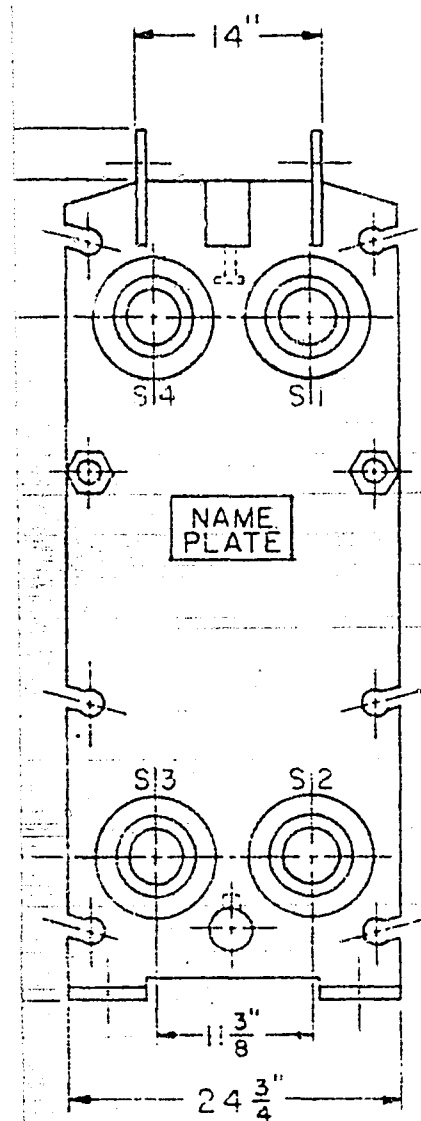
DATE 12/17/80

APP'D PID

DATE 12/17/80

DWG. NO.

978332-450



DATE	BY	CHK'D	APP'D

VP-8572

BB-1468

PLATAGE SPECIFICATION NO.

-1

DATE

801121

PLATE HEAT EXCHANGER TYPE AM10S
MANUFACTURING NO.
DRAWING NO.

QUANTITY

1

CUSTOMER
GRITTON & ASSOCIATES

REF.
498

AGENT

REF.

SUPPLIER
HVAC EQUIPMENT DIVISION

REF.
VP-8572

TO NO.

PLATES WITH PARALLEL FLOW.

THE PLATE PACK IS TIGHTENED TO 145 MM.

FURTHER TIGHTENING IS POSSIBLE TO MINIMUM 146 MM.

ALWAYS OBSERVE PLATE FROM ITS GASKET SIDE. A TEN FIGURE PART NUMBER PLUS ONE LETTER ARE STAMPED ON THE UPPER PART OF THE PLATE.

THE PLATES ARE ASSEMBLED, COUNTING FROM THE STATIONARY COVER TO THE MOVABLE COVER, IN SEQUENCE STATED BELOW WITH THE GASKET SIDE FACING THE MOVABLE COVER.

FOR INFORMATION ABOUT INSTALLATION, RUNNING, CLEANING ETC. SEE THE INSTRUCTION BOOK.

REMARKS

Adhesive GC-6

VP-8572

BB-1468

SECTION NO. 1
COOLERMEDIA
FLOWRATE
TEMP. PROGRAM
PRESSURE DROPWATER
240 GPM
72 TO 67 F
3.9 PSIWATER
240 GPM
60 TO 65 F
4.7 PSI

LOCATION OF CONNECTION

INLET
OUTLETS1
S2S3
S4

PLATES MATERIAL

AISI 304

THICKNESS

0.6 MM

FINISH

UNPOLISHED

GASKET MATERIAL

NITRILE

HEAT TRANSFER SURFACE

10.8 M2

GROUPING

1(9A101+ 4A102)

1(13A102)

VP-8572

BB-1968

PLATE NO.	PLATE CODE NO.	PUNCHED CORNER OF THE PLATE				FLOW DIRECTION ON THE GASKET SIDE OF THE PLATE
		UPPER LEFT	LOWER LEFT	LOWER RIGHT	UPPER RIGHT	
1	360220-0163B	0	0	0	0	UP
2	360120-0103A	0	0	0	0	DOWN
3	360220-0103B	0	0	0	0	UP
4	360120-0103A	0	0	0	0	DOWN
5	360220-0103B	0	0	0	0	UP
6	360120-0103A	0	0	0	0	DOWN
7	360220-0103B	0	0	0	0	UP
8	360120-0103A	0	0	0	0	DOWN
9	360220-0103B	0	0	0	0	UP
10	360120-0103A	0	0	0	0	DOWN
11	360220-0103B	0	0	0	0	UP
12	360120-0103A	0	0	0	0	DOWN
13	360220-0103B	0	0	0	0	UP
14	360120-0103A	0	0	0	0	DOWN
15	360220-0103B	0	0	0	0	UP
16	360120-0103A	0	0	0	0	DOWN
17	360220-0103B	0	0	0	0	UP
18	360120-0103A	0	0	0	0	DOWN
19	360220-0103B	0	0	0	0	UP
20	360220-0103A	0	0	0	0	DOWN
21	360220-0103B	0	0	0	0	UP
22	360220-0103A	0	0	0	0	DOWN
23	360220-0103B	0	0	0	0	UP
24	360220-0103A	0	0	0	0	DOWN
25	360220-0103B	0	0	0	0	UP
26	360220-0103A	0	0	0	0	DOWN
27	360220-0196B					

-1

CLEVELAND 801121 BY PLA004 9

538-340

VP-8572

BB-1468

PHE TYPE AM105

QUANTITY 1

DATE 801121

CUSTOMER GRITTON & ASSOCIATES

MANUF. NO.

ORDER NO. VP-8572

DRAW. NO.

TO NO.

PLATES

QUANTITY PER UNIT	TOTAL QUANTITY	PART NUMBER	DENOMINATION
9	9	360120-0103	CHANNEL PLATE
16	16	360220-0103	CHANNEL PLATE
1	1	360220-0163	END PLATE I
1	1	360220-0196	END PLATE II

DENOMINATION . PART NO . NO ORD . DELIV . ITEM PRICE . ACCOUNT NO

RAW PLATE 360120-0000

9

RAW PLATE 360220-0000

18

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

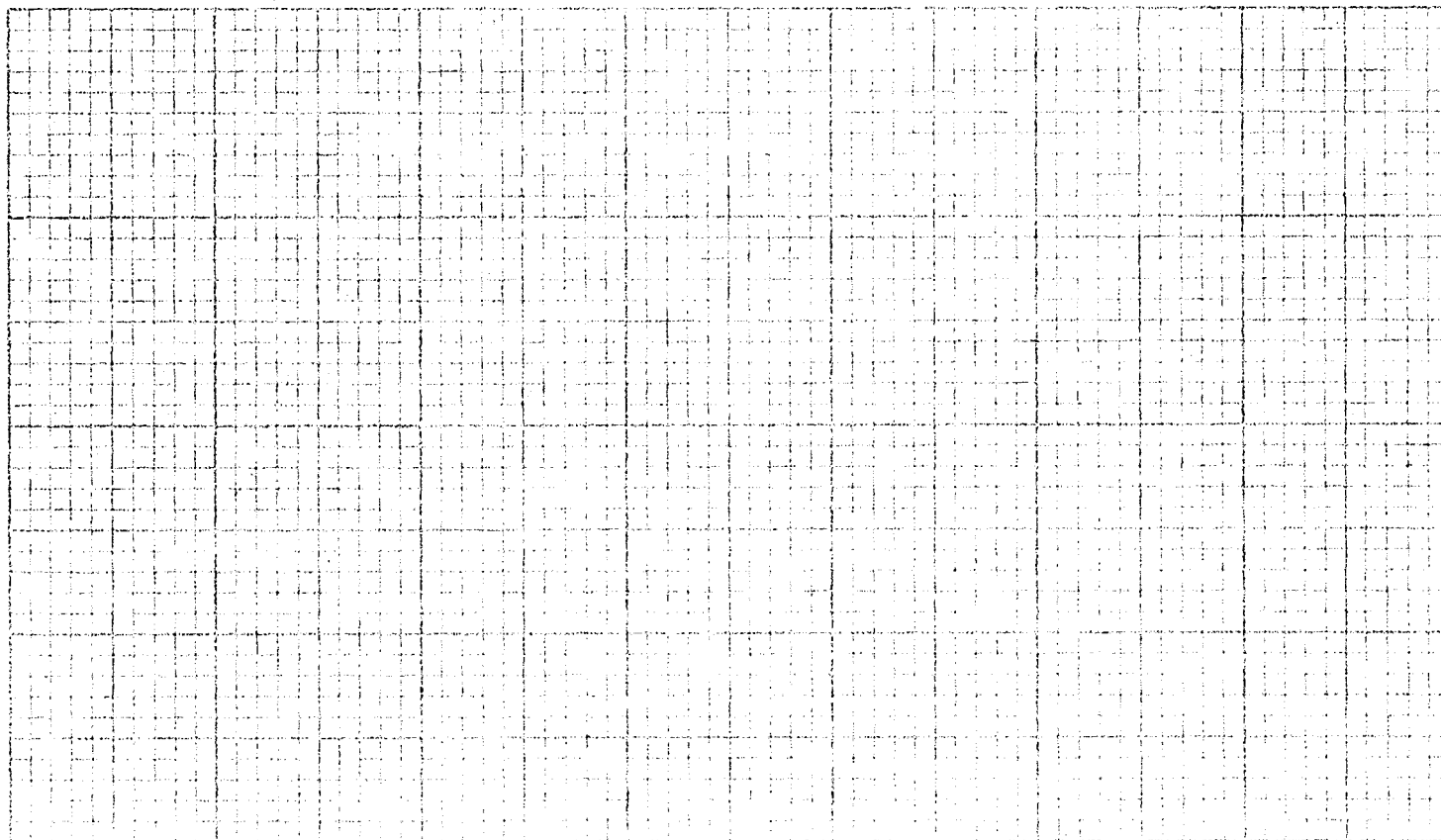
1. Owner: Oneida School Dist. # 351 Permit No. 15-7067
Current Address: 250 W. 400 N., Malad Idaho Phone No. 766-2255
2. Accompanied by: Dennis John EXAM. DATE: 5-26-87
Address: 420 South main Phone No. 766-4178
Relationship to Permit Holder: maintenance man
3. Source: Groundwater tributary to —

B. OVERLAP REVIEW

1. Other water rights with same place of use: N.A.
_____ ☐ Copies Attached
2. Other water rights with same point of diversion: N.A.
_____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☐ Copy of U.S.G.S. 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 or more).
☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

The two Gould motors with the Bell & Gossett pumps, are used only to circulate the hot water through the school after being run through the heat exchanger which uses both city water & well water. The well & city water is pumped through the heat exchanger. The well water is used to help heat the city water. Temperature of the city water which is heated and then pumped through the school was 83° at the time of exam. Dennis said the well water has a temperature of 82°

☒ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Gould	15	—	Bell & Gossett	1016369
	Gould	15	—	Bell & Gossett	1016368
Heat exchanger	American Heat	—	—	—	—
Electric	Peerless		PEB-1227		

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks

6. Place(s) of Use:

Indicate Method of Determination

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	

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N.A.						

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Ampsx .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. REMARKS AND OVERLAP REVIEW ANALYSIS

The two Bedford/Gossett motors/pumps are used to pump the water to a cooling tower outside of school. (each motor is 5hp., no S.N.).

The Peerless electric motor is used as an auxiliary motor to help heat the well water when it drops below a certain temperature.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Totals:				

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 |

J. AUTHENTICATION

Field Examiner's Name Richard Benson Jr.

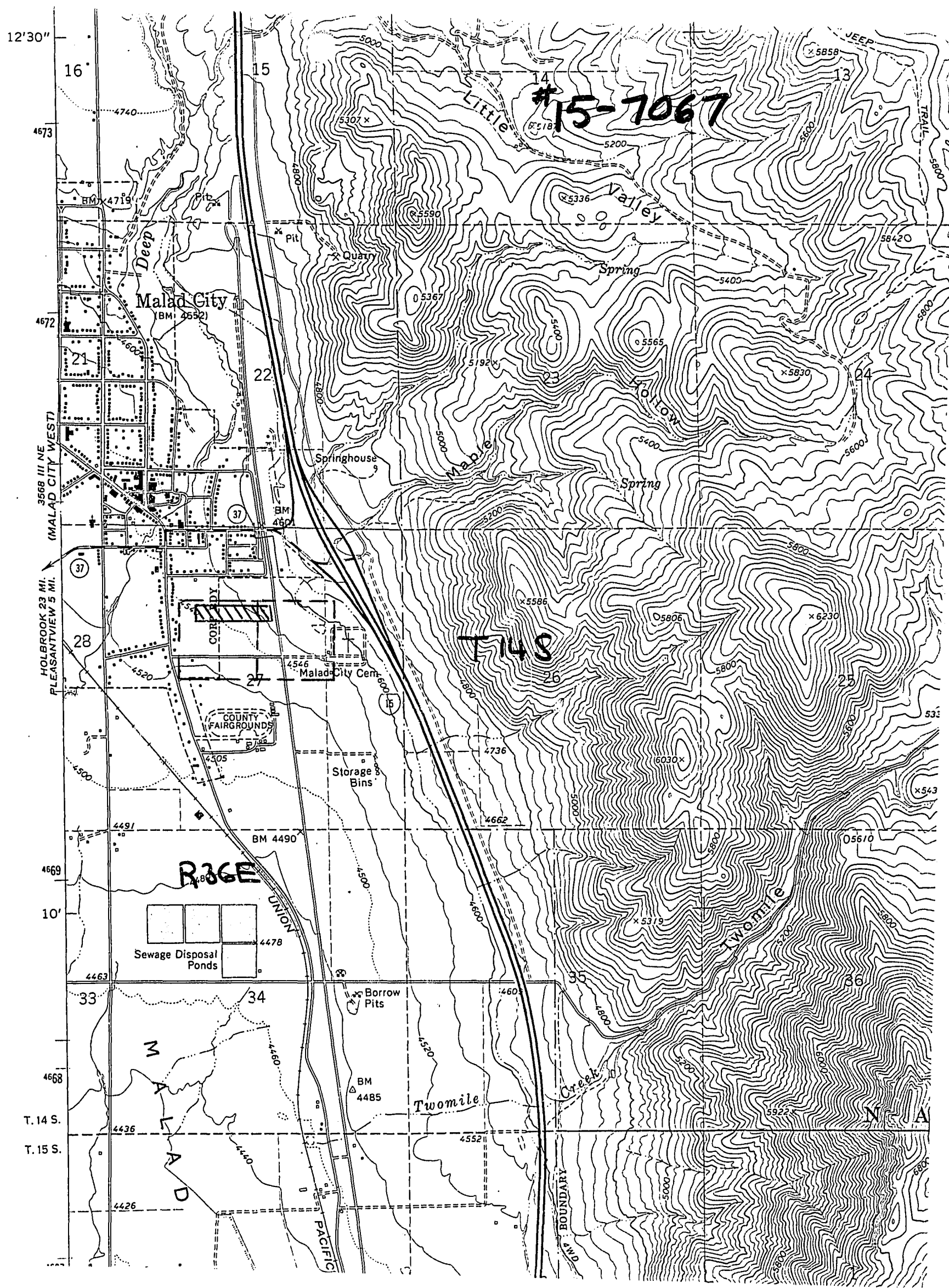
Signature Richard Benson Jr.

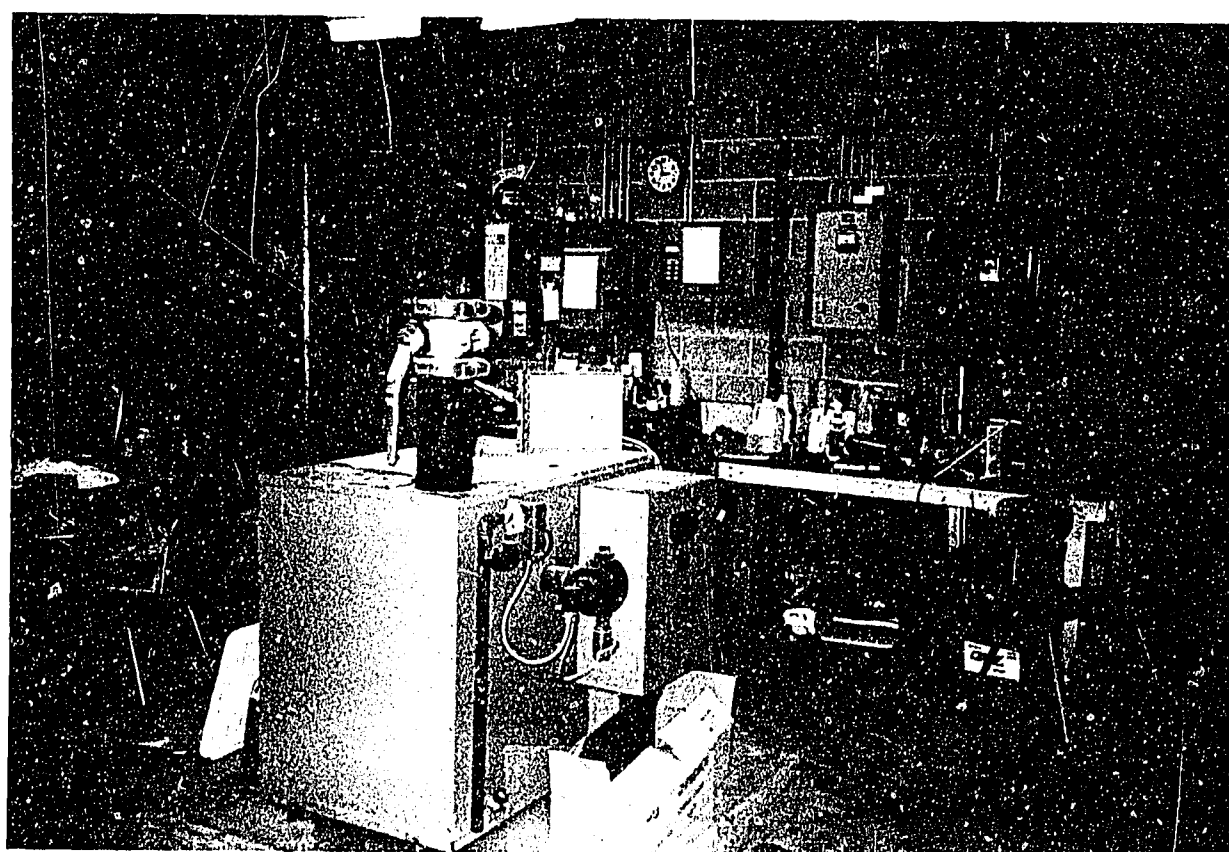
Certification Date _____

Field Report Preparation Date _____

CONSULTANT SEAL

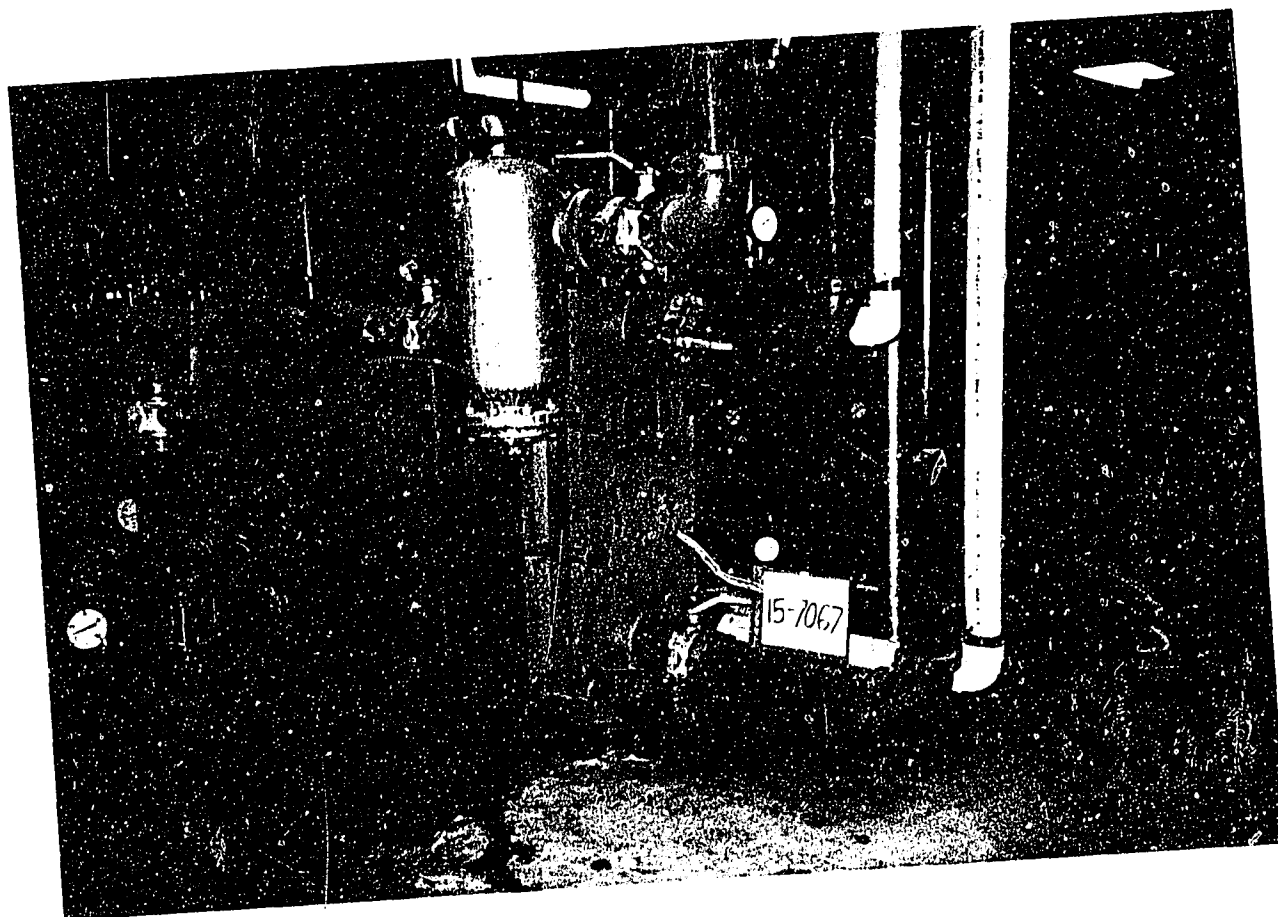
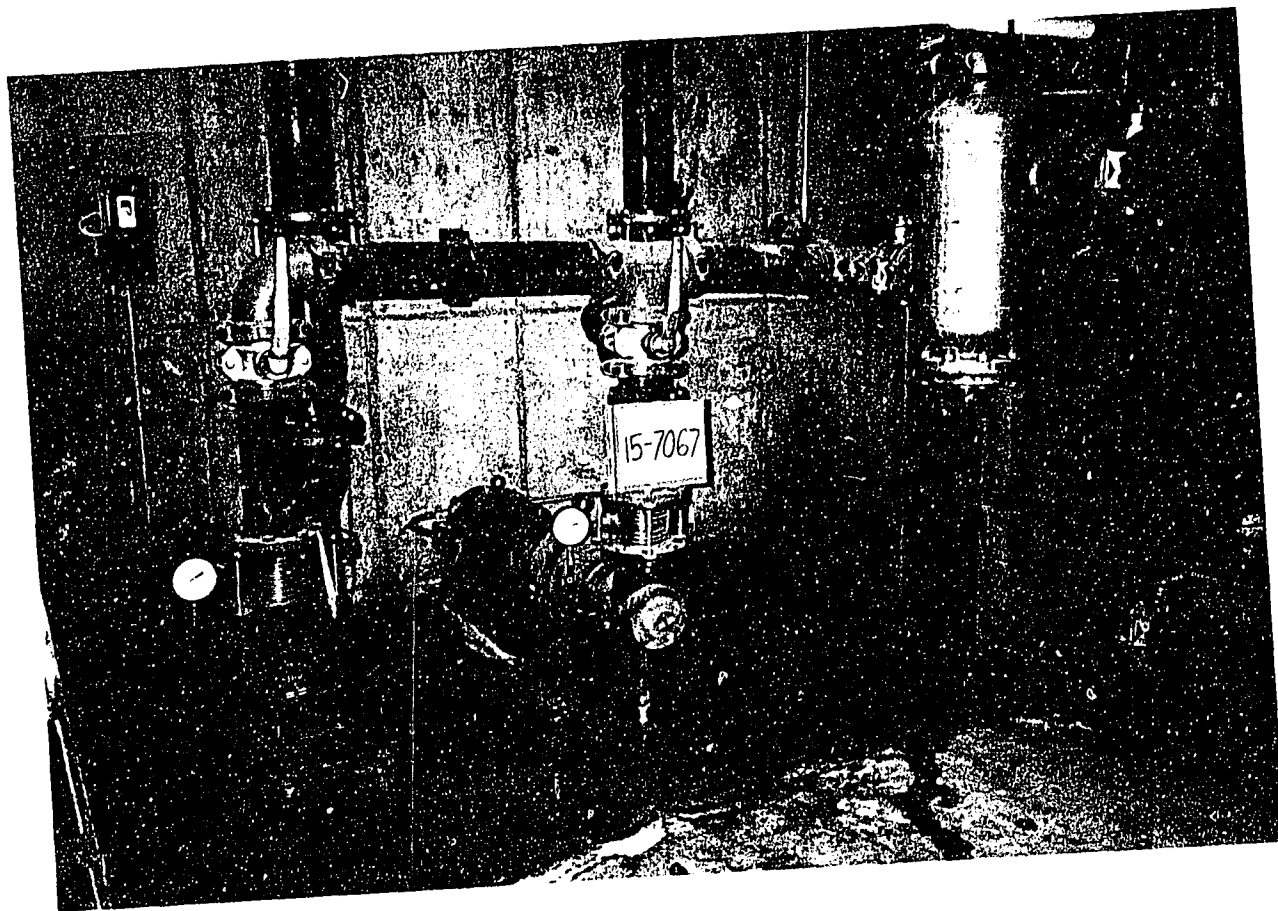
K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.





15-7067

15-7067

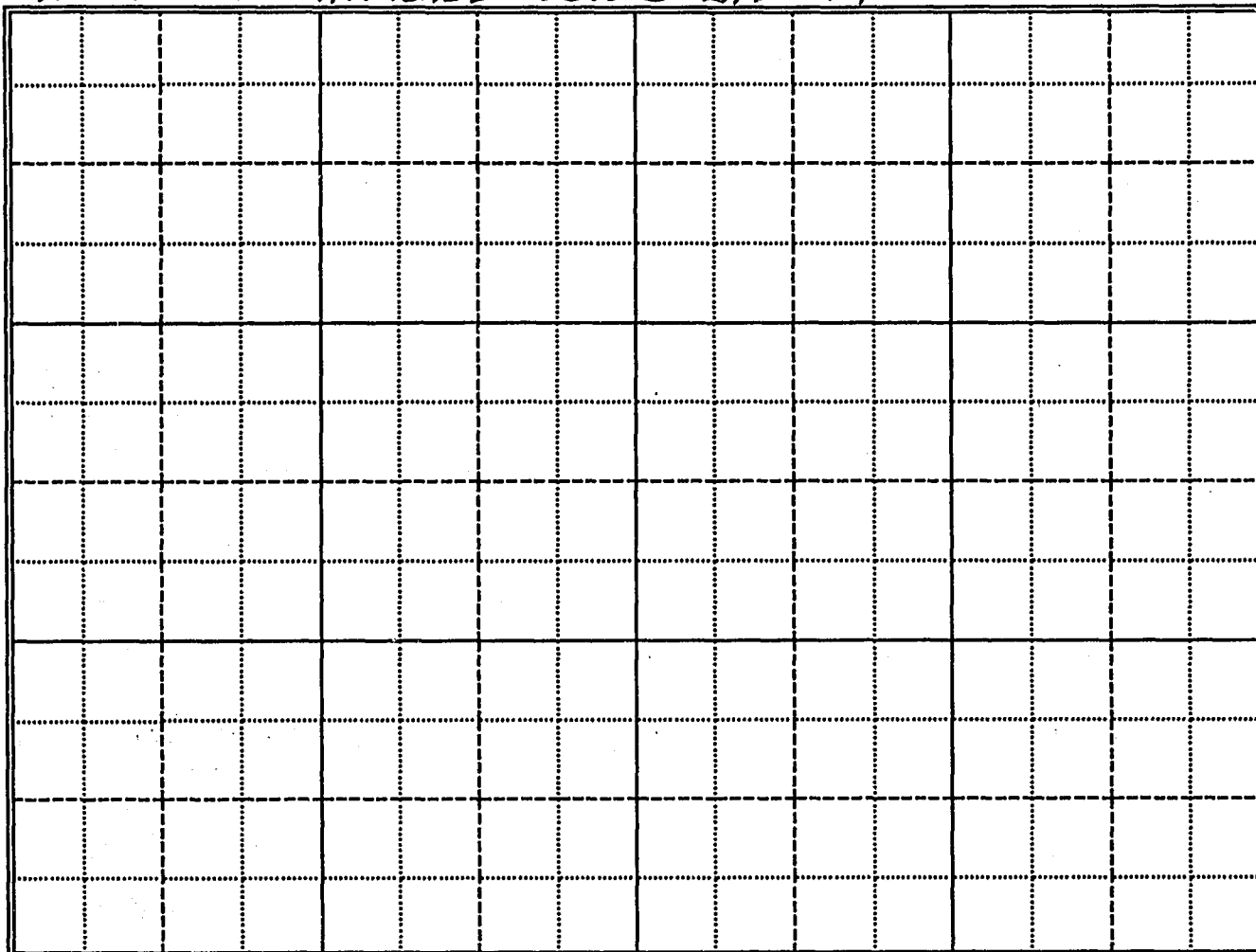


***FOR CLARITY
OF ANY
PHOTOGRAPHS
MICROFILMED,
SEE FILE.***

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate well size/ditch size/pipe I.d. as applicable. *SEE PHOTOGRAPHS*

REFER TO ATTACHED SCHOOL LAYOUT.



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
<i>ARTESIAN SYSTEM</i>					
<i>HEAT EXCHANGER</i>	<i>AMERICAN HEAT</i>				

*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
<i>PRESSURE GAGES</i>		<i>ASHCROFT</i>			<i>0-100</i>	

2. Measurements: *SONIC METER*

E. NARRATIVE/REMARKS/COMMENTS

ON 1/20/95 I CONDUCTED A FIELD EXAM AT HALAD HIGH SCHOOL. THE PERMIT IS FOR .33 CFS TO BE USED FOR HEATING AND COOLING. THE WELL SYSTEM USES ARTESIAN FLOW THROUGH PVC PIPING TO A HEAT EXCHANGER THEN BACK TO AN INJECTION WELL; THERE IS NO EXCHANGE OF CITY WATER AND THE ARTESIAN WATER. CITY WATER IS USED TO PRESSURE CHARGE THE SCHOOLS HEATING SYSTEM, BELL & GOSSETT PUMPS (2) ARE USED TO CIRCULATE THE HEATING OR COOLING WATER THROUGHOUT THE SCHOOL SYSTEM (CLOSED). A DEMAND VALVE (HEAT) REGULATES AMOUNT OF ARTESIAN FLOW THROUGH SYSTEM. SYSTEM PRESSURE WAS STEADY AT 11 PSI.

SONIC METER READING OF 1/20/95.

481.585 GPM

SONIC METER READING OF 1/25/95.

DEMAND VALVE NORMAL POSITION APPROX. 1/4 OPEN. 156.918 GPM
= 0.349 CFS

APPROX. DEMAND OPEN POSITION SHOWN FULL OPEN 656.467 GPM
= 1.46 CFS

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

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

*REFER TO SONIC METER PRINTOUT***G. VOLUME CALCULATIONS****1. Volume Calculations for Irrigation:** $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____**2. Volume Calculations for Other Uses:****H. RECOMMENDATIONS***PERMIT LIMITS TO .33 CFS***1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>HEATING / COOLING</i>	<i>1/1</i>	<i>12/31</i>	<i>.33</i>	
Totals:			<i>.33 cfs</i>	

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. AUTHENTICATIONField Examiner's Name *SIMPKINS* Date *5/22/95*Reviewer *[Signature]* Date *3/29/96*

SEAL

01-23 08:4800 *I
+000.30 % AI2

0141.8 MMSEC
100.71 % T0

01-23 08:4900 *I
+ E-1GPM

01-23 08:5000 *I
+795.950E-1GPM

01-23 08:5100 *I
+000.30 % AI2

0141.8 MMSEC
100.71 % T0

01-24 11:1100 *R
+003.10 % AI2

#15-7067

01-24 11:1100 *R
+003.10 % AI2

0145.4 MMSEC
100.16 % T0

01-24 11:1600 *R
+003.10 % AI2

OUTER DIAMETER
4.5000 IN

PIPE MATERIAL
? PVC

WALL THICKNESS 13751
0.3949 IN

INNER LINING
? NO LING.

SOUND VELOCITY
1400 M/S-

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
2.517 IN U

01-24 11:1900 *R Value
+156.918E-1GPM 1/4 Approx.

01-24 11:2100 *R Value
+409.995E-1GPM Open
11751

01-24 11:2400 *R Value
+656.467E-1GPM Open
54112.

01-24 11:3100 *R Value
+115.971E-1GPM Closed.

15-7067

01-23 08:4800 *I
+000.30 % AI2

0141.8 MMSEC
100.71 % T0

01-23 08:4900 *I
+ E-1GPM

01-23 08:5000 *I
+795.950E-1GPM

01-23 08:5100 *I
+000.30 % AI2

0141.8 MMSEC
100.71 % T0

01-24 11:1100 *R
+003.10 % AI2

#15-7067

01-24 11:1100 *R
+003.10 % AI2

0145.4 MMSEC
100.16 % T0

01-24 11:1600 *R
+003.10 % AI2

OUTER DIAMETER
4.5000 IN

PIPE MATERIAL
? PVC

WALL THICKNESS 13751
0.3949 IN

INNER LINING
? NO LING.

SOUND VELOCITY
1400 M/S-

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
2.517 IN U

01-24 11:1900 *R Value
+156.918E-1GPM 1/4 Approx.

01-24 11:2100 *R Value
+409.995E-1GPM Open
11751

01-24 11:2400 *R Value
+656.467E-1GPM Open
54112.

01-24 11:3100 *R Value
+115.971E-1GPM Closed.

1/20/95 1458 km.
X701.

OUTER DIAMETER
4.5000 IN

PIPE MATERIAL
? PVC

WALL THICKNESS
0.3866 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SPACING
2.716 IN U

00-00 00:3400 *R
+811.800E-16PM

00-00 00:3500 *R
+003.00 % AI2

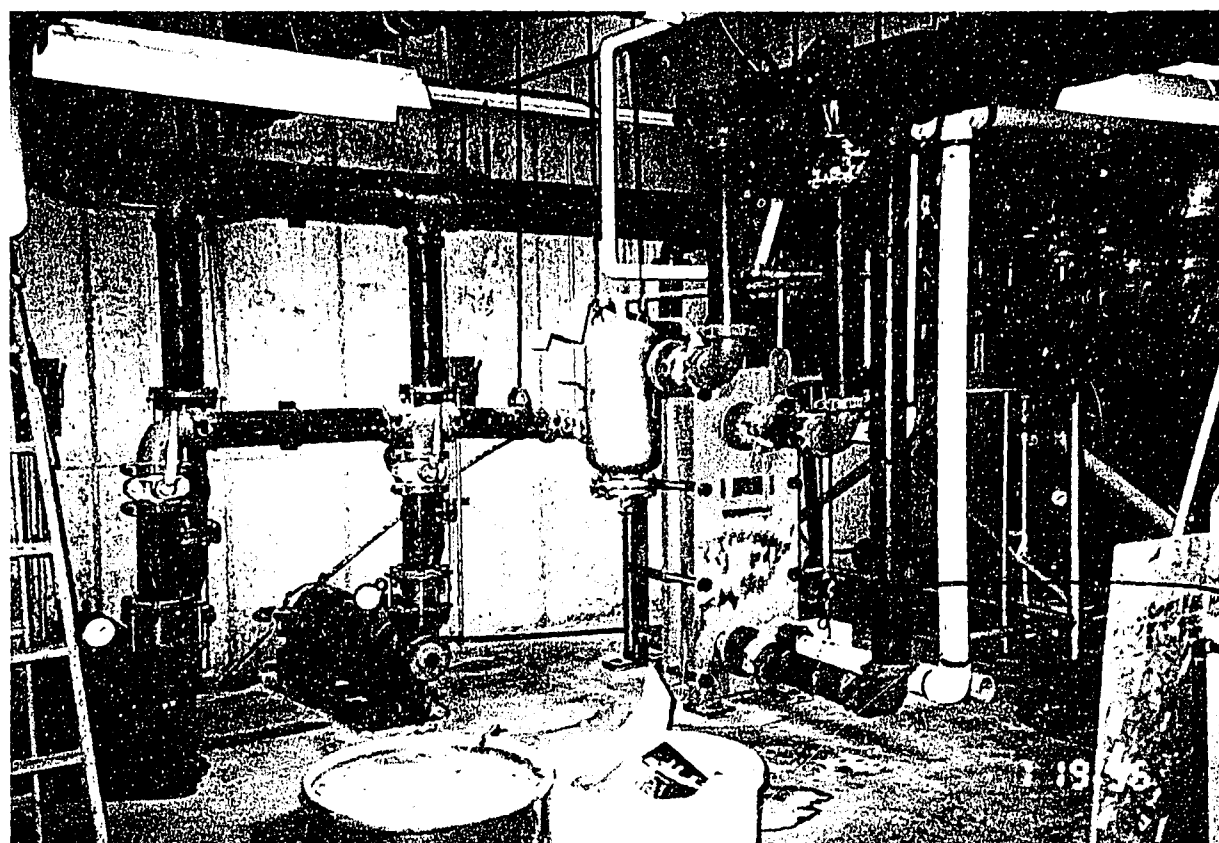
00-00 00:3700 *R
+481.585E 16PH

0141.8 MMSEC
101.82 % T0

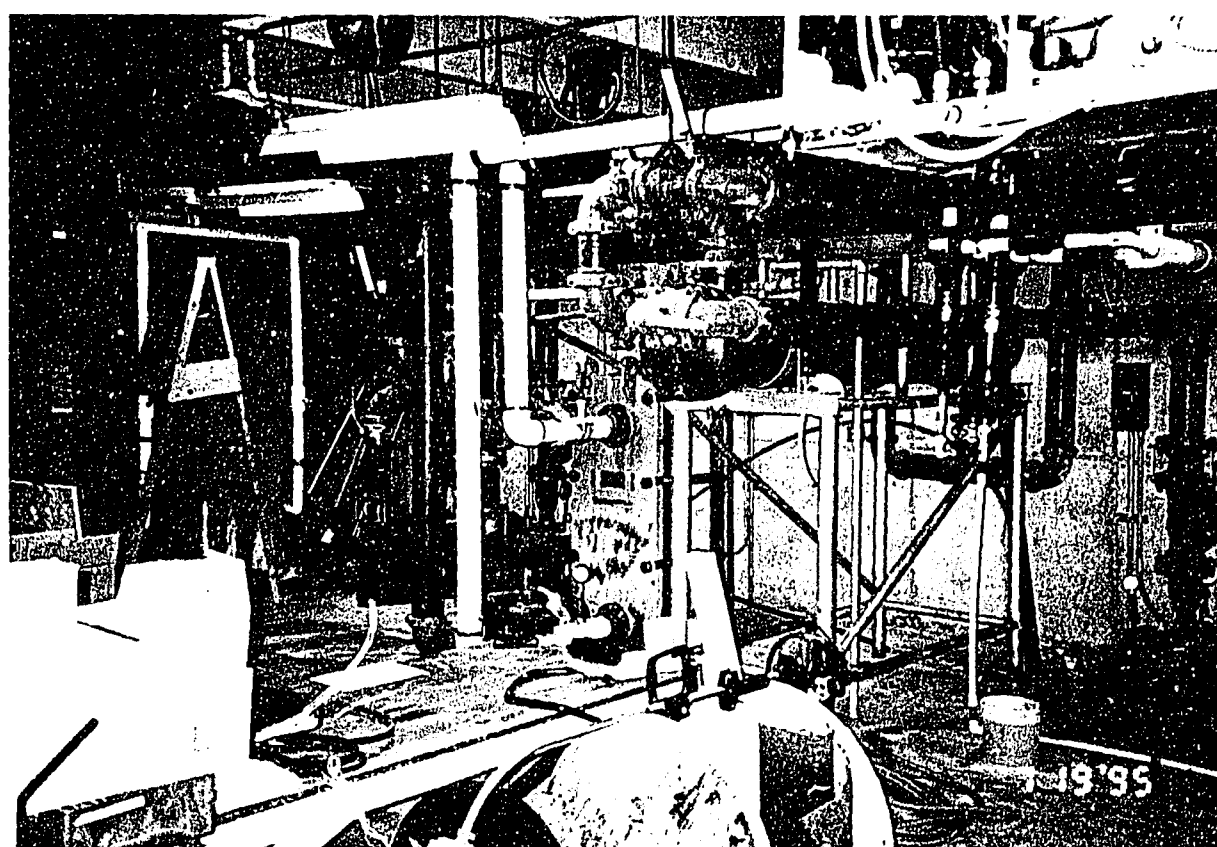
15-7067

①

HIGH SCHOOL HEAT/COOLING SYSTEM
WHITE PVC PIPING IS CLOSED SYSTEM



OUTGOING
PRESSURE
GAGE



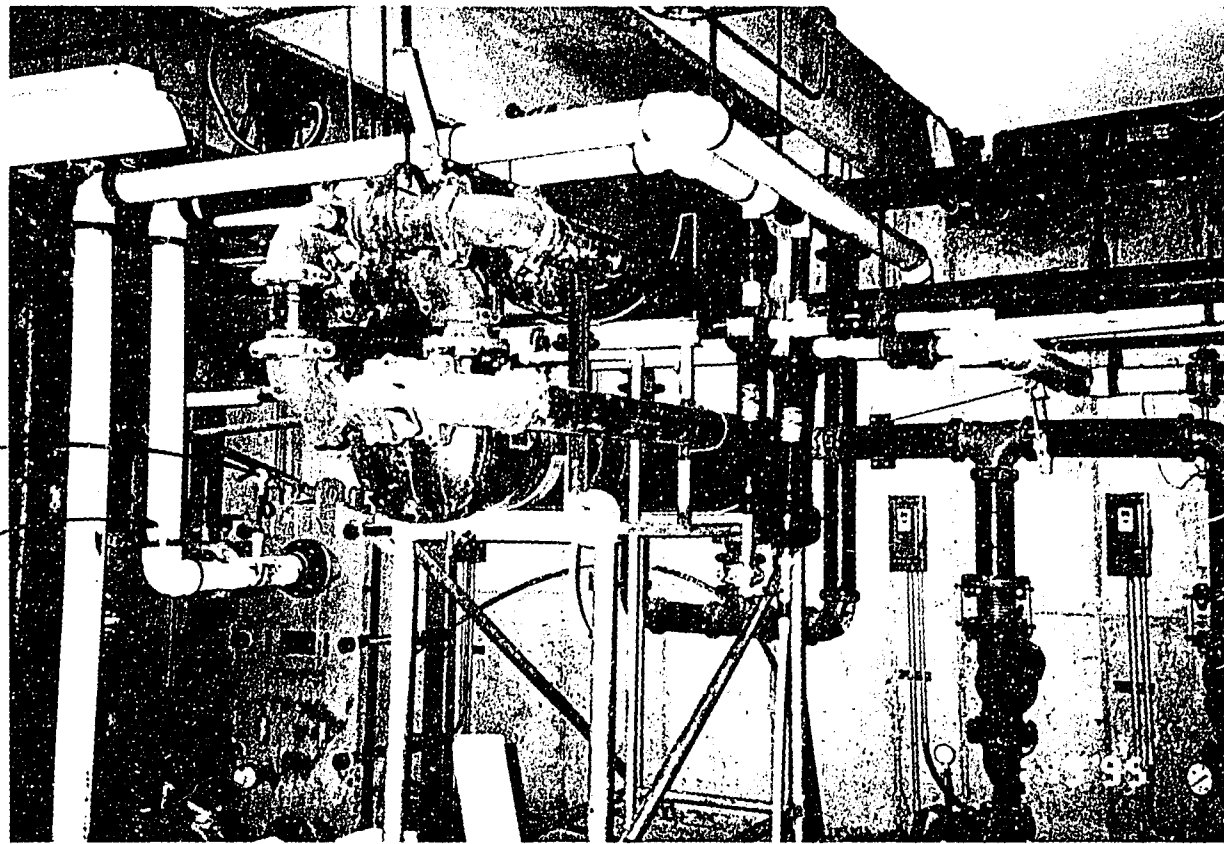
15-7067

②

HIGH SCHOOL HEAT/COOLING SYSTEM
WHITE PVC PIPING IS CLOSED SYSTEM

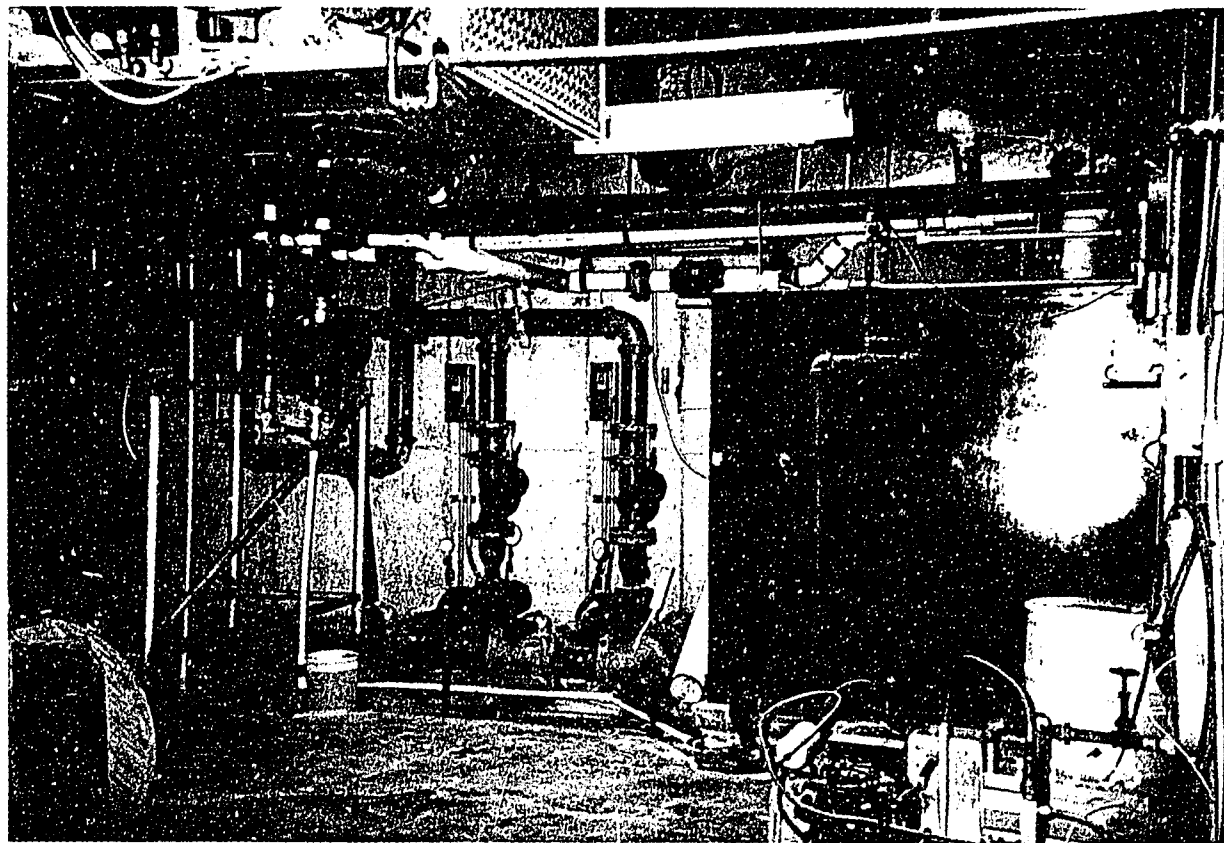
PRESSURE
GAGE

INCOMING
FROM
ARTESIAN
WELL



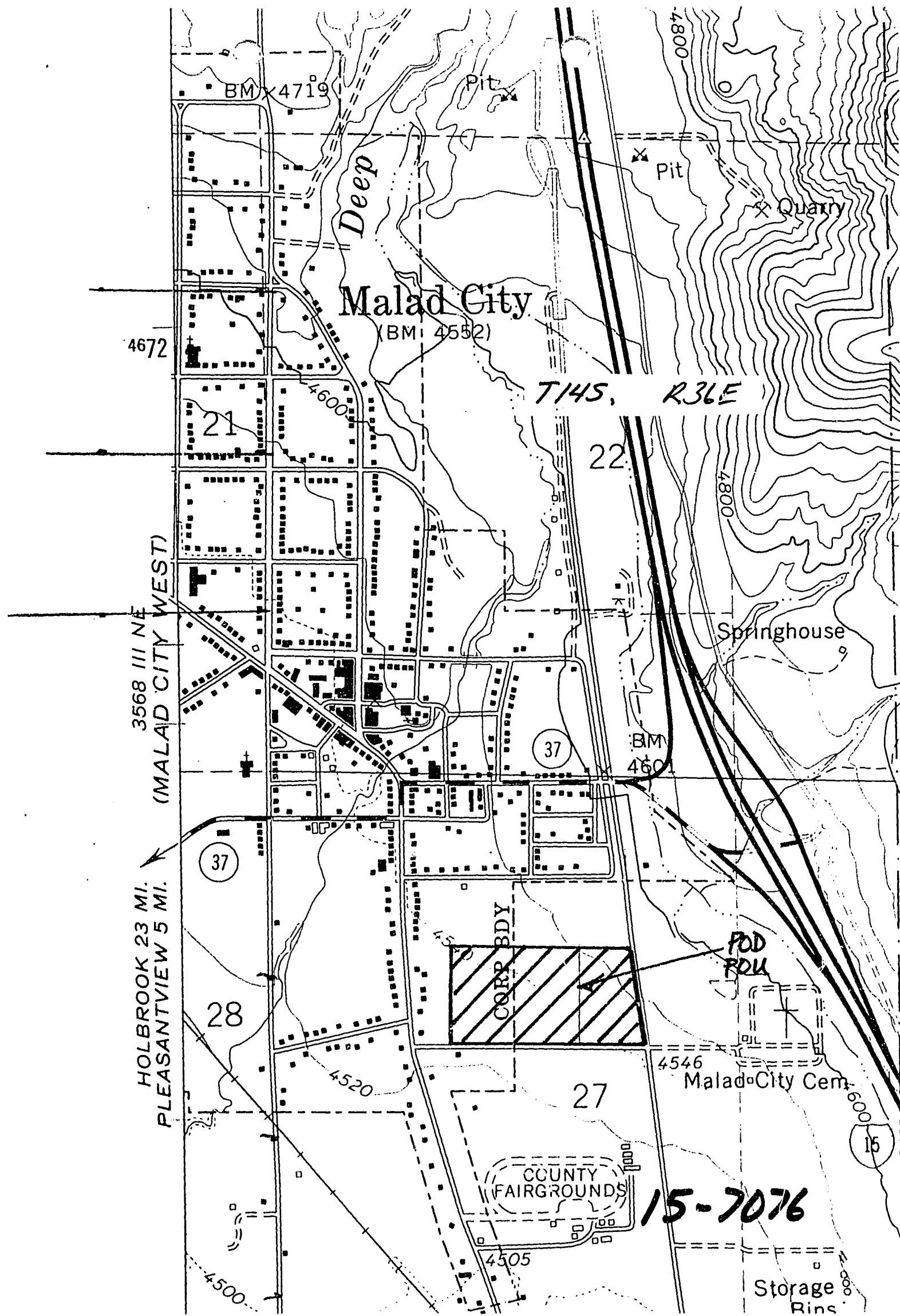
↑
OUT TO INJECTION WELL

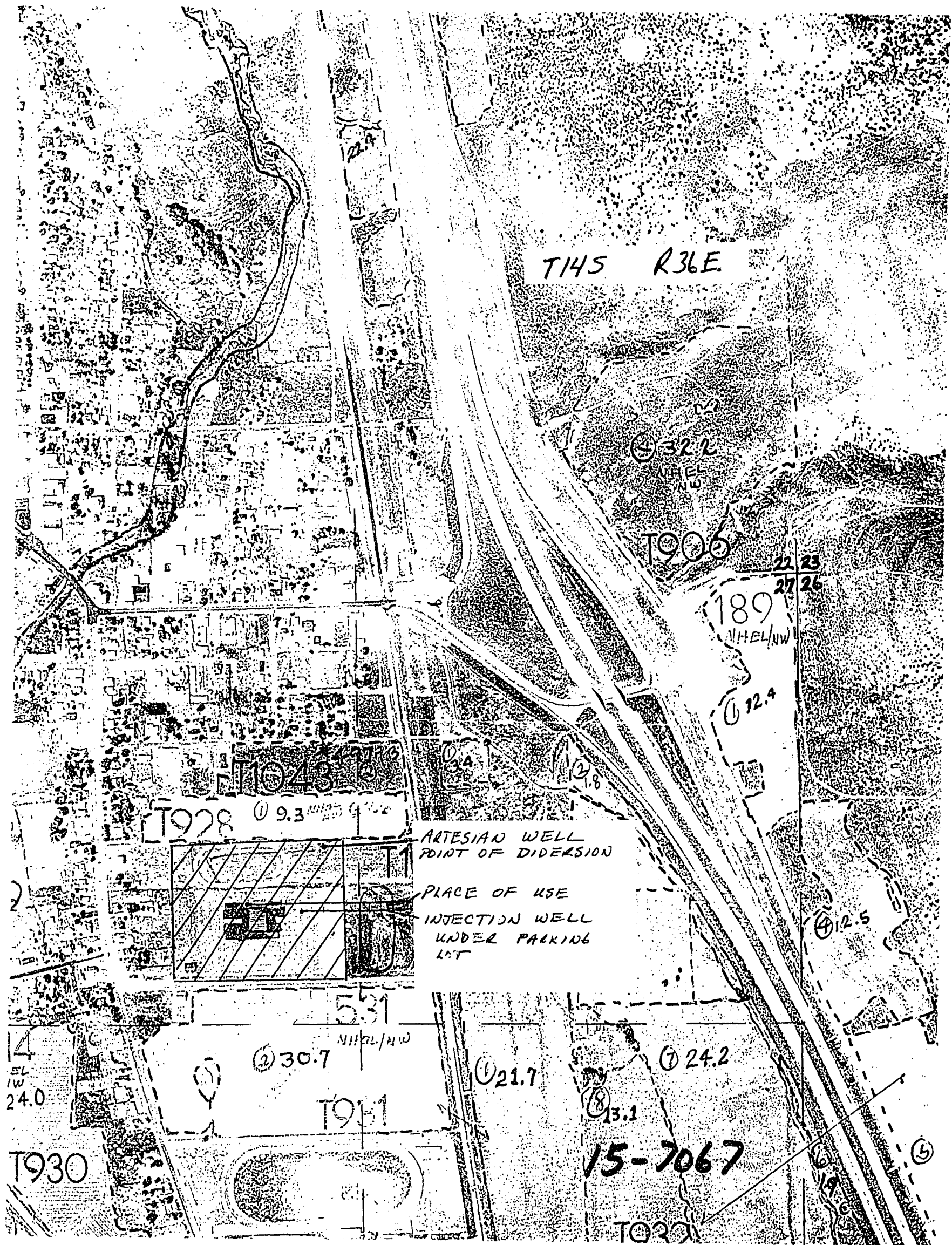
↑
SAND-TRAP REMOVAL
FROM INCOMING WELL



15-7067

***FOR CLARITY
OF ANY
PHOTOGRAPHS
MICROFILMED,
SEE FILE.***





DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

BALLPOINT PEN

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

copy to Ray

water use well

1. WELL OWNER
Name Oneida County School District Well #3
Address 250 W 400 N
Palad City, Idaho 83252
Owner's Permit No. _____

2. NATURE OF WORK
☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☒ Other Hot Well (specify type) _____

4. METHOD DRILLED
☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION
Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____
Thickness _____ Diameter _____ From _____ To _____
250 inches 12 inches + 1 feet 39 feet
250 inches 10 inches 1 feet 319 feet
250 inches 2 inches 1 feet 685 feet
Sch#200 PVC 6 inches 1 feet 800 feet
Was casing drive shoe used? ☐ Yes ☒ No
Was packer or seal used? ☐ Yes ☒ No 2 @ 690"
Perforated? ☐ Yes ☒ No 13 670"
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches
Number _____ From _____ To _____
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
Well screen installed? ☒ Yes ☐ No
Manufacturer's name Hydrophilic Industries Screen
Type PVC Screen Model No. _____
Diameter 4" Slot size #20 Set from 696 feet to 726 feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth 40+ Material used in seal: ☒ Cement grout
☐ Puddling clay ☐ Well cuttings
Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☒ Solvent
Steel Weld PVC
☐ Cemented between strings
Describe access port Well Cap

6. LOCATION OF WELL
Sketch map location must agree with written location.
Subdivision Name Department of Water Resources
Lot No. _____ Block No. _____
County Oneida
T. 27 S. 27 E. 36 W. 36 E. W.

7. WATER LEVEL
Static water level _____ feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ OF. Quality Good

8. WELL TEST DATA
☐ Pump ☐ Bailor ☐ Air ☐ Other _____
Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

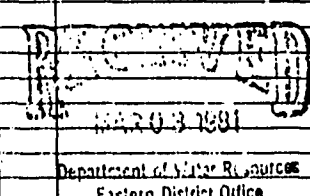
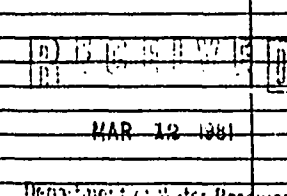
9. LITHOLOGIC LOG
Hole Diam. From To Material Water Yes No
14 0 24 Brown clay gummy. X
24 30 Clay & gravel. X
12 30 82 Gummy clay X
82 88 Clay & gravel. X
88 185 Gummy clay. X
185 224 Limestone & shale. X
224 279 Conglomerate. X
279 318 Gummy clay. X
10 318 342 Clay & gravel. X
342 350 Loose gravel. X
350 385 Clay & gravel. X
385 397 Loose gravel. X
397 444 Clay & gravel. X
444 496 Conglomerate. X
496 508 Hard limestone white. X
508 527 Broken limestone white. X
527 543 Firm limestone black. X
543 550 Hard limestone gray. X
550 593 Hard limestone gray. X
593 597 Broken gray limestone. X
597 663 Firm green & blue shale. X
663 683 Firm gray rock. X
683 686 Broken gray rock. X
8 686 696 Hard gray rock. X
696 700 Broken gray rock. X
700 712 Firm gray rock. X
712 725 Broken gray rock. X
725 730 Firm gray rock with cracks. X
730 770 Layers of firm & broken rock. X
770 778 Broken gray rock. X
778 788 Firm gray rock. X
788 800 Broken gray rock. X

10. DRILLER'S CERTIFICATION
We certify that all minimum well construction standards were complied with at the time the rig was removed.
Firm Name Andrew Well Drilling Firm No. 5
Cont. _____
Address 1242 E. 17th Street Date 12/30/87
Idaho Falls, Idaho 83402
Signed by (Firm Official) Harold J. Kline
and _____
(Operator) Dale Miller

RECEIVED
MAY 08 1987

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITE OR
BALLPOINT PENState 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.

1. WELL OWNER Name <u>Malad School</u> District No. <u>351</u> <u>Oneida County School</u> Address <u>250 West 400 North</u> <u>Malad City, Idaho 83252</u> Owner's Permit No. <u>15-7067</u>		7. WATER LEVEL Static water level <u>201.6</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality <u>Good</u>																																	
2. NATURE OF WORK ☐ New well ☒ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Baller ☐ Air ☐ Other _____																																	
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		<table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</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.	Pumping Level	Hours Pumped																													
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N																																			
		X																																	
W				E																															
				S																															
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Andrew Well Drilling</u> Firm No. <u>5</u> Contr. _____ Address <u>1268 East 17th Street</u> Date <u>1-16-81</u> <u>Idaho Falls, Idaho 83407</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u>																																			

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

1/78

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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.

1. WELL OWNER Name <u>ONEIDA School Dist #351</u> Address <u>MILFORD IDAHO</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>28</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>72</u> °F. Quality _____	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____ Discharge G.P.M. <u>APPROX 100</u> Pumping Level _____ Hours Pumped <u>4</u>	
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type) _____		9. LITHOLOGIC LOG Hole Diam. <u>6</u> Depth From To Material Water Yes/No <u>0</u> <u>28</u> <u>UNKNOWN</u> ☐ <u>28</u> <u>35</u> <u>SANDY CLAY</u> ☒ <u>35</u> <u>45</u> <u>SAND & GRAVEL</u> ☒ <u>45</u> <u>48</u> <u>CLAY & SAND</u> ☒ <u>48</u> <u>49</u> <u>STAND</u> ☒ <u>49</u> <u>50</u> <u>HARD WHITE</u> ☒ <u>50</u> <u>620</u> <u>LIME STONE</u> ☒ <u>620</u> <u>620</u> <u>LIME STONE WITH</u> ☒ <u>620</u> <u>620</u> <u>BLACK ROCK IN IT.</u> ☒ <u>620</u> <u>620</u> <u>APPROXIMATELY 100 G.P.M.</u> ☒ <u>620</u> <u>620</u> <u>@ 72° WATER</u> ☒	
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		10. RECEIVED APR 25 1980 Department of Water Resources Eastern District Office SEP 4 1980 Department of Water Resources	
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness inches <u>2.50</u> Diameter inches <u>6</u> From feet <u>12</u> To feet <u>445</u> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ feet to _____ feet Gravel pack? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☐ Pudding clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent ☐ Cemented between strata <u>See Arnold Henderson to confirm</u> <u>See started well Basin</u>		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>DUBBE DRILLING</u> Firm No. <u>148</u> Address <u>P.O. Box 4441, BERTHOLOTTA</u> Date <u>1/2/80</u> Signed by (Firm Official) <u>Mark Dubbe</u> and <u>Mark Dubbe</u> (Operator)	
6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ONEIDA</u> S.E. 1/4, Sec. 27, T. 14, N. 36, E. 14		12. ADDITIONAL INFORMATION USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT	

MEMORANDUM

TO: File 15-07067

FROM: Sharla

DATE: December 13, 1996

RE: Recommendation Adjustment(s)

The final license recommendations for Right 15-07067 are based on the following:

H. RECOMMENDATIONS

Heating	9/1 - 5/31	0.33 cfs	69.3 afa
---------	------------	----------	----------

Heating use requires an annual volume. Using 212 days as the basis for use when heating would probably be required out of the season of use identified, and figuring the use for 12 hrs/day yields a volume of 71.1 afa. However, the volume in this case is limited by the rate of flow (.33 X 212 days @ 12 hrs/day = 69.3 afa.

Well logs have been placed in the file for the water use well and the injection well. Helen Harrington confirmed there is a valid injection well permit (No. 15-W-1) which expires 6/30/97. She states that injection well permits are usually approved for 5 year periods.

Examiner: Don Simpkins
Exam Date: January 20, 1995



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

December 17, 1996

SCHOOL DISTRICT NO 351
250 W 400 N
MALAD ID 83252

RE: WATER RIGHT NO. 15-07067

Dear Water Right Holder(s):

The above referenced water right is in the process of being licensed. However, before a license can be issued, your permit must be amended to depict your water right as it has actually been developed.

The enclosed Application for Amendment contains information that will be included on the license when it is issued. The amendment reflects a change in the location of the point(s) of diversion. Please review carefully and if you concur, sign the amendment and return with the \$50.00 filing fee within 14 days.

The last page of the Application for Amendment form contains a list of Conditions of Approval and Remarks proposed for the license when it is issued. These conditions of approval and remarks may be modified upon further administrative review.

If you do not concur, or if you have any questions about this information, please contact me as soon as possible. My telephone number is (208) 327-7946.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:ph

Enclosure



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

January 7, 1997

SCHOOL DISTRICT NO. 351
250 W 400 N
MALAD ID 83252

RE: APPLICATION FOR AMENDMENT FEE

Dear Water Right Holder(s):

I have received your Application for Amendment of Water Right No. 15-07067. However, I have not received the required application fee of \$50.00.

I will hold your amendment for thirty (30) days. If I do not receive the filing fee within that time, I will assume that you no longer have an interest in pursuing the license, and steps will be taken to void your permit.

If you have any questions, please contact me. My telephone number is (208) 327-7946.

Sincerely,


Shelley W. Keen
Water Rights Supervisor

SWK:ph



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

January 21, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

SCHOOL DISTRICT NO 351
250 W 400 N
MALAD ID 83252

RE: WATER RIGHT NO. 15-07067

Dear Water Right Holder(s):

Enclosed is a copy of the Water Right License issued on the above referenced permit along with a copy of your approved Application for Amendment. Should you have any questions regarding these documents, please contact me.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:ph

Enclosure