

CES

Parklane 3N2E Sec 3 SWSE
(PD&PU)

UNRECORDED

AUG 27 1993

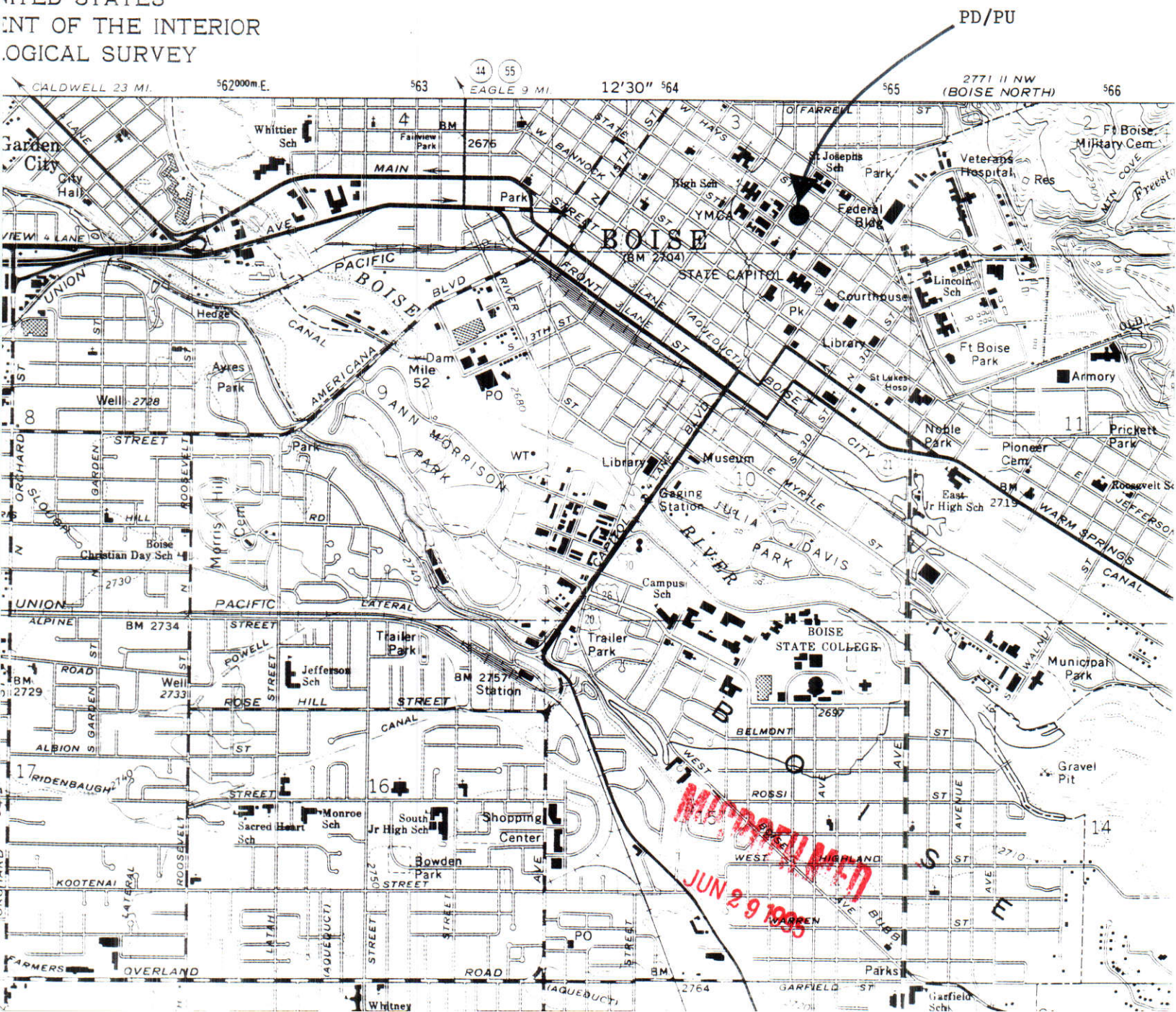


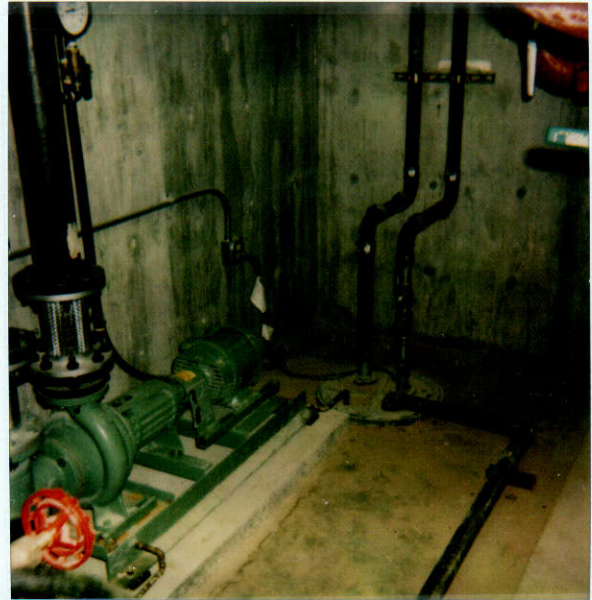
WATER RESOURCES

PERMIT #63-11993

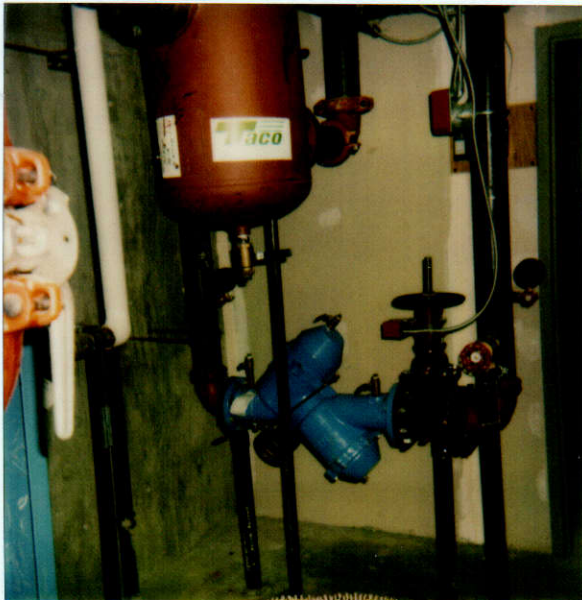
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
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GEOLOGICAL SURVEY

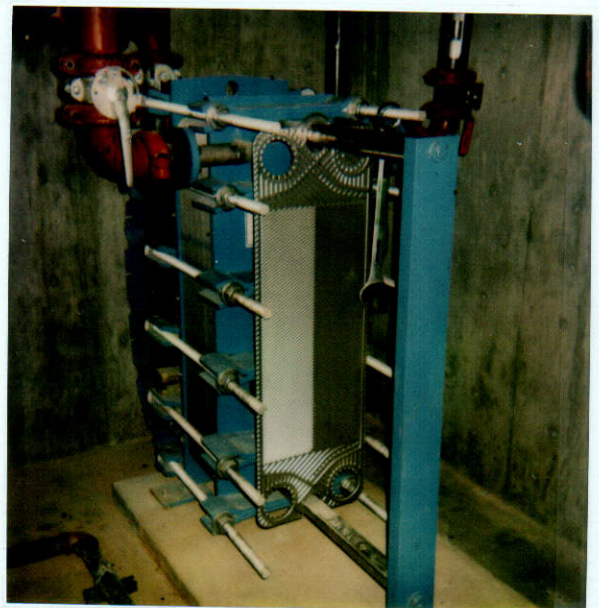




WELL & BOOSTER PUMP



CONTROL VALVING



HEAT EXCHANGER

MICROFILM
JUN 29 1995

63-11993

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 63-11993

Priority: February 12, 1993

Maximum Diversion Rate:

0.17 CFS

Maximum Diversion Volume:

17.1 AF

This is to certify, that PARKLANE CO

C/O KENNETH G HOWELL

PO BOX 2725

BOISE ID 83701-2725

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated February 12, 1993; and has submitted Proof of Beneficial Use on September 13, 1994. An examination indicates that the works have a diversion capacity of 0.290 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	/01 to 03/31	0.17 CFS	9.2 AF
COOLING	/01 to 09/30	0.17 CFS	7.9 AF
Totals		0.17 CFS	17.1 AF

LOCATION OF POINT(S) OF DIVERSION SWSE , Sec. 3, Township 03N, Range 02E
ADA County

PLACE OF USE: HEATING

TWN RGE SEC

03N 02E 3

SWSE

PLACE OF USE:

COOLING, same as HEATING use

CONDITIONS/REMARKS:

1. The maximum diversion is the maximum allowable volume of water which can be diverted annually from the source under this right. The amount of water which can be diverted 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. Return flow if discharged to a subsurface system must be authorized by a separate injection well permit.
6. Water used under this right if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
7. Use of water under this right shall be non-consumptive.

MICROFILMED

JUN 29 1995

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 63-11993

CONDITIONS/REMARKS:

8. Heating and cooling uses are for an office building.

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 16TH
day of JUNE, 1995.


Acting for KARL J. DREHER, Director



MICROFILMED
JUN 29 1995

Should questions arise during
the processing of this applica-
tion please contact:

SHERL L. CHAPMAN
410 S. Orchard, Suite 144
Boise, ID 83705
344-6690

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES
PROOF OF BENEFICIAL USE

For Office Use Only

Amt. of Fee \$

Date 9-13-94

Receipt No.

Received by 08

RECEIVED

SEP 13 1994

WATER RESOURCES
WESTERN REGION

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has/have 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.

1. Permit No. 63-11993 Telephone No. 345-32212. Name(s) of Permit Holder(s): Parklane Company c/o Kenneth G. Howell3. Post Office Address: P.O. Box 2725, Boise, ID 83701-27254. Source of Water: Groundwatera. If ground water, well driller's name: Hiddleston Drilling & Pump Date drilled: Aug. 26, 1993b. Pump horsepower: 5 Pressure (psi): 20 Dynamic pumping level (ft.): 50

5. Extent of Use:

Domestic _____ (No. of households) Irrigation _____ (No. of acres)

Stockwater _____ (No. and type of stock) Other Heating/Cooling6. Total rate and/or volume for which proof is submitted 0.17 cfs --- acre/feet

7. Refer to the approval conditions on your permit and respond accordingly:

Measuring device: Required? Yes X No Installed? Yes No

OR

Flow Measurement Port: Required? Yes X No Installed? Yes No8. Fee Enclosed: \$ -0- (See License Examination Fee Schedule)

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

N/A

Name

Telephone No.

Address

10. 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.

Date

8/31/94

Signature (and title if on behalf of a company or organization)

Kenneth G. Howell, President

MICROFILMED

Parklane Co.

JUN 29 1995

RECEIVED

JUN 30 1994

Department of Water Resources

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

For Office Use Only
\$15 Fee Received by Stf
Date 6-30-94
Receipt No. C030713

REQUEST FOR EXTENSION OF TIME

TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF
BENEFICIAL USE FOR A WATER RIGHT PERMIT

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time in which to complete development of water right under the provisions of Section 42-204, Idaho Code.

Permit No. 63-11993

Name(s) of Permit Holder: KENNETH G. HOWELL

Mailing Address: P.O. BOX 2725, B01SE, ID 83701

Date Proof is Due JULY 1, 1994 Telephone No. 345-3221

Describe what work has been completed toward the development of this water right:

(This must be filled out! If no work has been completed, show "none".)

CONSTRUCTION IS COMPLETE ON 805 WEST FRANKLIN STREET. SHERL L. CHAPMAN CONSULTING HAS

SCHEDULED THIS INSPECTION FOR 2-3 WEEKS FROM TODAY.

Costing \$

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

Permit holder(s) request an extension to AUGUST 31, 1994, 19 .

FEE: \$15.00

Kenneth G. Howell
(Signature)*

*If other than permit holder, Power of Attorney must be supplied.

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be APPROVED and the time within which to submit proof of beneficial use is extended to July 1, 1995.

Signed this 12th day July, 19 94

J. Blum Dayton
Chief, Water Allocation Bureau

AUG 10 1994

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-11993

Proposed Priority: February 12, 1993 Maximum Diversion Rate: 0.17 CFS
This is to certify, that **PARKLANE CO**

C/O KENNETH G HOWELL
PO BOX 2725
BOISE ID 837012725

has applied for a permit to appropriate water from: **GROUNDWATER**
and a permit is **APPROVED** for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
HEATING	01/01 to 12/31	0.17 CFS
COOLING	01/01 to 12/31	0.17 CFS
	Totals	0.17 CFS

LOCATION OF POINT(S) OF DIVERSION: SESWSE , Sec. 3, Township 03N, Range 02E
ADA County

PLACE OF USE: HEATING
TWN RGE SEC

03N 02E 3 SWSE

PLACE OF USE: COOLING, same as HEATING use

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before July 1, 1994.
2. Subject to all prior water rights.
3. The point of diversion identified in this right is located within the boundaries of the Boise Front Low Temperature Geothermal Resource Groundwater Management Area. The well driller must monitor water temperatures while drilling the well. If water with a temperature greater than 85 degrees Fahrenheit is encountered by the driller, drilling must immediately cease, and the Department must be notified. Drilling shall not resume until the Department has reviewed the drilling conditions, and established standards for construction with the driller.
4. Use of water under this right shall be non-consumptive.
5. Return flow if discharged to a subsurface system must be authorized by a separate injection well permit, and return flow if discharged to a surface water system shall meet Idaho Water Quality Standards.

REPRODUCED

AUG 27 1993

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-11993

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

28th day of July, 1993.

R. Keith Higginson
for R. Keith Higginson, Director



MICROFILMED

AUG 27 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
PERMIT TO DRILL A WELL
NO. 63-93-C-0698-000

1. This is to certify, that

PARKLANE COMPANY
C/O KENNETH G. HOWELL
PO BOX 2725
BOISE ID 83701

O
Receipt No. W015935

has applied for a permit on / / 0 to drill a well and a permit is
APPROVED for construction as follows:

2. Proposed Well Location: Township 03N, Range 02E, Sec. 3, SESW
ADA County

Street Address of Well Site: 805 WEST FRANKLIN ST.
BOISE ID

Lot, Block, and Subdivision: Lt 10, Lt 11
Blk 88
BOISE CITY ORIGINAL TOWNSHIP

3. Proposed Use of Well:

4. Well Construction Information:

- A. New Well
- B. Proposed Surface Diameter 6 In. Proposed Maximum Depth 84 Ft.
- C. Anticipated Bottom Hole Temperature: 85 F or less (Cold water well)

5. Construction Start Date: 4/ 1/1993

Anticipated Well Driller: _____

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

GENERAL CONDITIONS:

- 1. This well shall not be drilled more than 10% deeper than the proposed total depth or enlarged without prior authorization.
- 2. The well must be constructed or modified in compliance with the applicable statutes; specific conditions of approval shown on the water right permit, transfer, amendment, or injection well permit; and the rules and regulations of the Department for water appropriation, injection wells, and well construction.
- 3. This drilling permit is valid for two (2) months from approval date for the start of drilling.
- 4. This permit does not constitute any other local, county, state or federal approvals which may be required for construction or operation of a well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum distance of 50 feet and 100 feet respectively from a septic tank.

(Continued)

MICROFILMED

AUG 27 1993

5. The well shall be constructed by a driller licensed in the State of Idaho.
6. Approval of this drilling permit does not authorize trespass on the land of another party.
7. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
8. If a bottom hole temperature of 85 F or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
9. If this permit is for a replacement well, the well being replaced must be abandoned in accordance with Department Rules and Regulations.

SPECIFIC CONDITIONS:

10. IF THE WATER WITHDRAWN FROM THIS WELL AND CIRCULATED THROUGH THE CLOSED LOOP HEAT EXCHANGER IS REINJECTED INTO THE SUBSURFACE THROUGH ANOTHER WELL, A DRILLING PERMIT AND INJECTION WELL PERMIT ARE REQUIRED FOR THAT WELL. IN THIS EVENT, PLEASE CONTACT HELEN THORNTON @ 327-7950.

This permit is issued pursuant to the provisions of Section 42-235, Idaho Code, Witness the signature of the Director, or his authorized agent, this

16 day of July, 1993.

For: 
R. Keith Higginson, Director

EXTENSION OF DRILLING PERMIT: Approved by _____
Approval Date: _____ This extension expires: _____

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AUG 27 1993

50729
RECEIVED

FEB 12 1993

Form 202
6/85

Department of Water Resources
Western Regional Office

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

63-11993

Ident. No. 63-

To appropriate the public waters of the State of Idaho

PARKLANE COMPANY, KENNETH G. HOWELL

345-3221

1. Name of applicant _____ Phone _____
P.O. BOX 2725 BOISE, ID 83701
Post office address _____

2. Source of water supply GROUND WATER which is a tributary of N/A

3. Location of point of diversion is SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of SE * (per map) $\frac{1}{4}$, Govt. Lot N/A

Sec. 3 Township 3N Range 2E B.M. ADA County; additional
points of diversion if any: N/A

4. Water will be used for the following purposes:

Amount .176* for heating ~~cooling~~ purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount .176 for cooling purposes from 1/1 to 12/31 (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)

5. Total quantity to be appropriated is (a) 342,168* and/or (b) _____
~~cubic feet per second~~ acre feet per annum

6. Proposed diverting works: .176 cfs

a. Description of ditches, flumes, pumps, headgates, etc. _____

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.

c. Proposed well diameter is 6 inches; proposed depth of well is 84 feet.

d. Is ground water with a temperature of greater than 90°F being sought? NO

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

1 YEAR years (minimum 1 year).

* = CONTACT MUSGROVE ENGINEERING, DAVE ASMUS
** ~~FLOW EXCEEDS 5 cfs FOR HEATING AND COOLING~~ ADDITIONAL INFORMATION AS
FOLLOWS: DESIGN TEMP. 70-76 F., HEATABLE SQ. FT. 21,500, BEST ENERGY
EFFICIENCY, NO GEOTHERMAL SOURCE

** Changes made per telecon w/ Betsy Lloyd, Parklane Co. 2/22/93 cjt

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AUG 27 1993

384 0585

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. _____
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. _____
- e. Other; describe fully. SUPPLY WELL 6", APPROX. 84'

INJECTION WELL, SEE ATTACHED INJECTION WELL APPLICATION

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3N	2E	3											X				L		
3N	2E	3											X				G		

Total number of acres to be irrigated ~~342,168~~ 342,168 ac/yr

~~used for heating/cooling~~

N/A

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

* 11. a. Who owns the property at the point of diversion? ALLEN R. DERR Applicant (as of date of close)

b. Who owns the land to be irrigated or place of use? " N/A "

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

THE PROPERTY IS UNDER PURCHASE OPTION. EXPECTED DATE OF SALE IS 2/11/93. THE PROPERTY WILL THEN BE TRANSFERRED TO PARKLANE CO. INC, KENNETH HOWELL

12. Remarks: _____

PRESIDENT. THE WELL LOCATION AND DESIGN IS BY DEAN BRIGGS, BRIGGS

ENGINEERING.

Development AKA Franklin Plaza

* telecon 2/22/93 Parklane Co has purchased property

AUG 27 1993

DES

Parklane 3N2E Sec 3 SWSE ~~UNPROCESSED~~

(PD&PU)

AUG 27 1993

563

12' 30"

565

566

567

10'

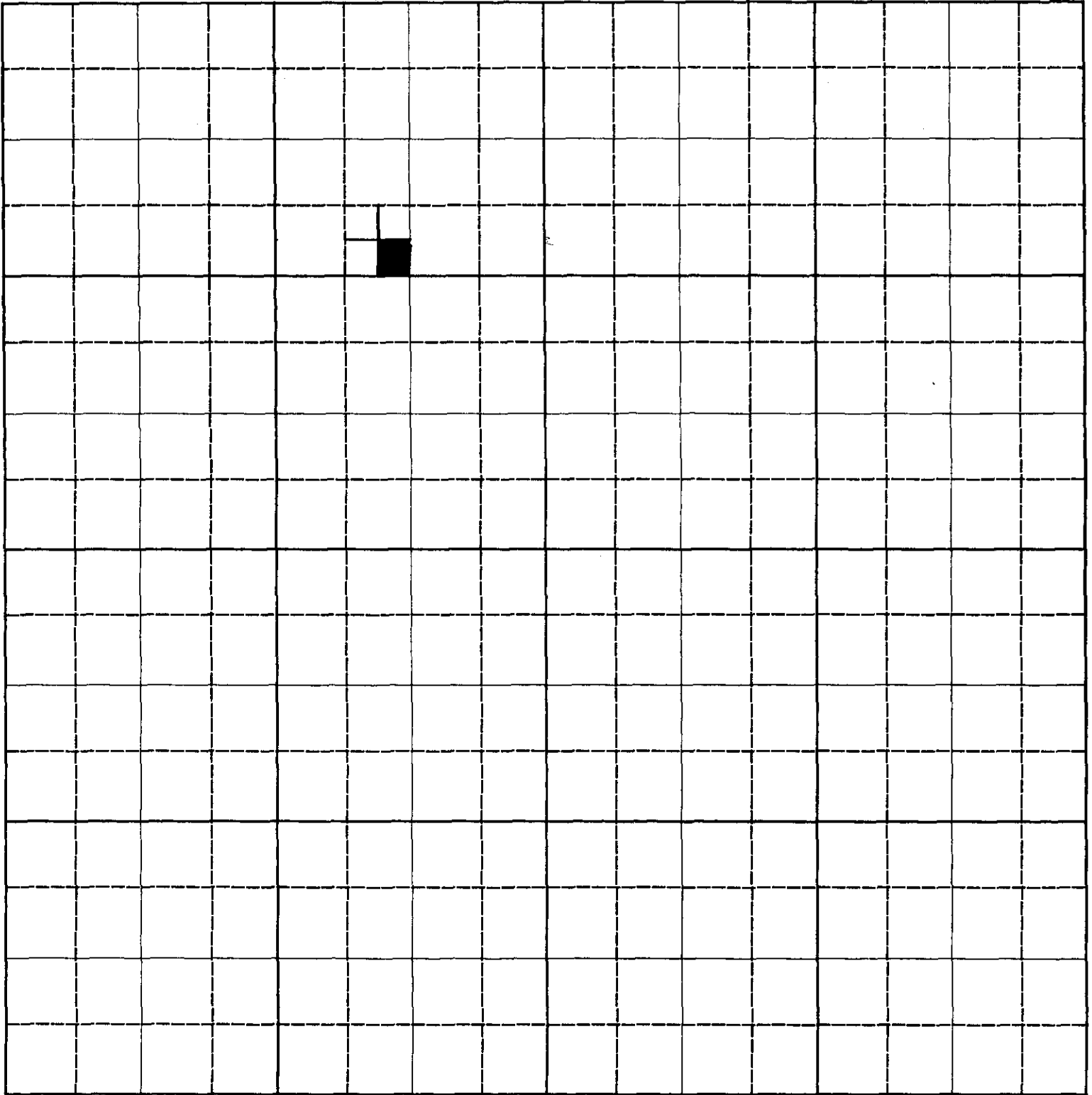


PARKLANE COMPANY
PROPOSED LOCATION FOR INJECTION AND SUPPLY WELLS
FOR FRANKLIN PLAZA



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AUG 27 1993

3N2E
13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number,
township and range number. SECTION 3



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.

R. C. Howes
(Applicant)

Received by JAD Date 2-12-93 Time 1:00p.m. Preliminary check by gy
Fee \$ 30⁰⁰ Receipted by JAD # W015935 Date 2-12-93
Publication prepared by GG Date 2/24/93 Published in ID Statesman
Publication approved ST Date 3-25-93 3/4 & 3/11/93

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. _____, and said application is hereby _____.

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 _____, 19 ____.

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. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

RECORDED

AUG 27 1993



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

June 16, 1995

PARKLANE CO
C/O KENNETH G HOWELL
PO BOX 2725
BOISE ID 837012725

RE: WATER RIGHT NO. 63-11993

Dear Water Right Holder(s):

Enclosed is a copy of the Water Right License issued on the above referenced permit. If you have any questions, please contact me within 10 days of receipt of this license.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosure

MICROFILMED

JUN 29 1995

LICENSE REVIEW CHECKLIST



PERMIT NO. 63-11993 DATE 6-6-95

NAME	Change OK ☒	Or Address Change? ☐
PRIORITY DATE	☒	Advance? ☐ Advanced to: _____ Order to reinstate needed? ☐ Incorrect fee for rate recommended? <u>N/A</u>
SOURCE	☒	<u>Certified Examined</u> Changes or just clarification of originally intended source? _____ Notice of Intent to Void necessary? ☐
POINT OF DIV	☒	Amendment needed? ☐ Overlaps? ☐
PLACE OF USE	☒	Amendment needed? ☐ Overlaps? ☐
DIV RATE	☒	Permit/fee limits: <u>.17 CFS</u> Meas Q = _____ Theo Q = <u>.38</u> Recommend: <u>.17</u> <u>8.8 x .7 x 5 HP</u> <u>35 + (2.3 x 20 psi) = .38</u> Pump Curve = <u>.29 CFS</u> Combined rates exceed capacity _____
ANNUAL VOLUME	☒	Volume Limit: <u>(New Season) Change from 1-1 to 12-31</u> Calculations: <u>79 gpm x 60 min = 4740 gal/hr</u> <u>1170 hrs/yr x 4740 = 17.9</u> Flow limit: <u>.17</u> cfs x <u>365</u> x 1.9835 = <u>101.48</u> Combined volumes exceed capacity/allowable _____
USES	☒	Change in Nature of Use or additional uses? ☐ Amendment necessary? ☐
ADDITIONAL INFO		Supplemental Groundwater ☒ PPU Scenario ☒ Irr/Dom Combination ☒ Shared G/W System ☒
NEW REMARKS	<u>YES</u>	Multiple p/d(s) in 1/4? ☐ Other <u>Heating & Cooling uses are for an office bldg.</u>
NEW CONDITIONS	☒	Watermaster control - District ☐ Measuring/Locking Devices ☐ Irrigation Overlap ☐ Other <u>KEEP 027 (FLOWS ARE RE-INJECTED)</u> <u>09E</u> Water Quality <u>ROT</u> Heat/Cool/Fish verified ☐

COMMENTS: _____

RECOMMENDATION	CFS	VOLUME
<u>Heating</u>	<u>.17</u>	<u>9.2</u>
<u>Cooling</u>	<u>.17</u>	<u>7.9</u>
<u>Total</u>	<u>.17</u>	<u>17.1</u>

SRBA Claim Filed NO
Adjustment Memo Needed YES
LICENSE JUN 29 1995
1ST AMEND LETTER _____
2ND AMEND LETTER _____

Should questions arise during the processing of this application please contact:

SHERL L. CHAPMAN
410 S. Orchard, Suite 144
Boise, ID 83705
344-6690

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
SEP 15 1994

RECEIVED
SEP 13 1994
WATER RESOURCES
WESTERN REGION

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 63-11993

1. Owner: Parklane Company c/o Kenneth G. Howell Phone No. 345-3221

Current Address: P.O. Box 2725, Boise, ID 83701-2725 (817 W. Franklin)

2. Accompanied by: Betsy Lloyd EXAM DATE: Aug. 18, 1994

Address: P.O. Box 2725, Boise, ID 83701-2725 Phone No. 345-3221

Relationship to Permit Holder: Employee

3. Source: Groundwater tributary to N/A

B. OVERLAP REVIEW

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

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

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
1		SE	SW	SE	3	3N	2E	Ada	Field/map/water right

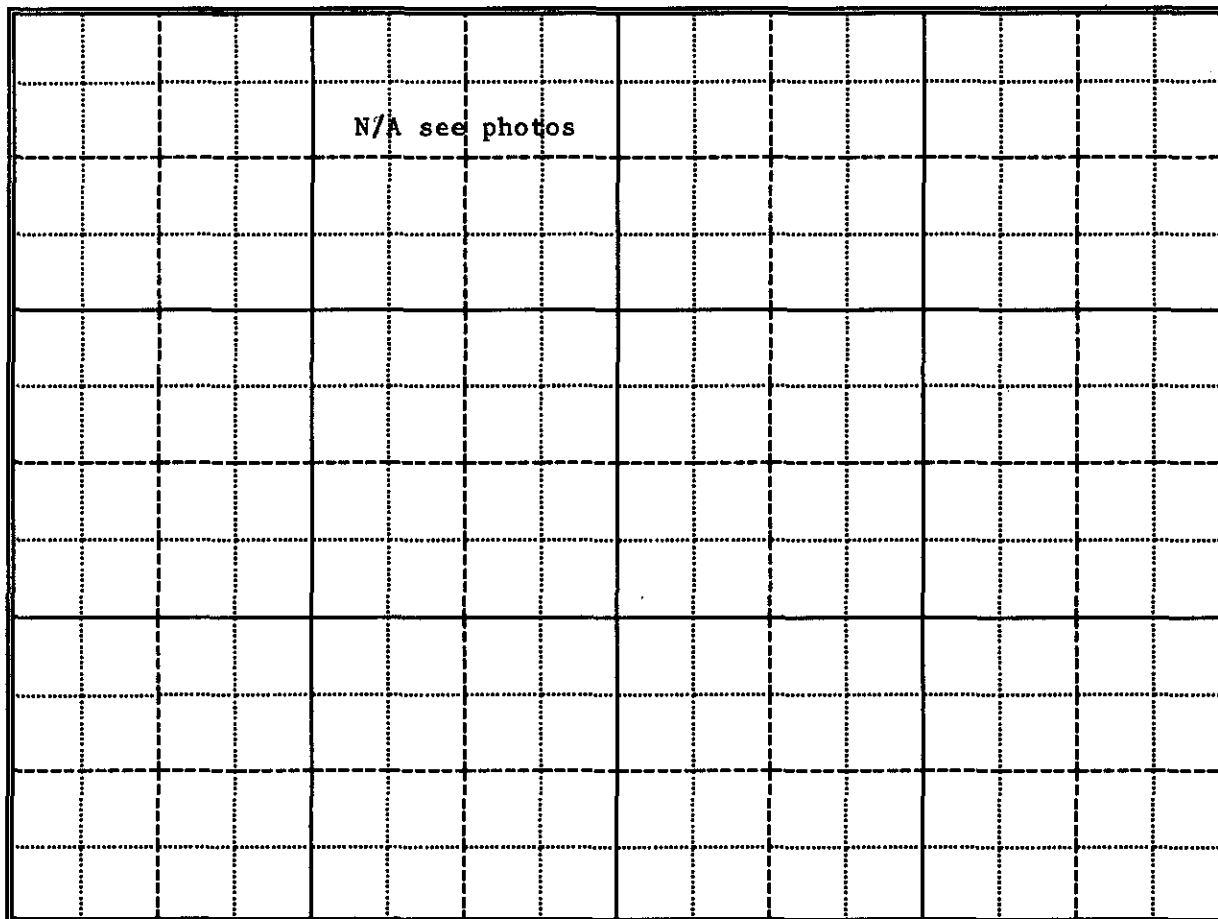
2. Place(s) of Use:

Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	2E	3															G/L		---

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JUN 29 1995

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



Scale: 1" = _____

XX 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)

XX 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
1	Franklin	5	Unavailable	Berkeley	6T5-90 (3")

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

D. FLOW MEASUREMENTS N/A

1.

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

2. **Measurements:** Calculated from pump curve. System does not allow physical measurement of flow. Delivery pressure estimated 20 psi to circulation pump. Water level estimated 50'. TDH estimated 96'. Q = 128 gpm

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JUN 29 1965

E. NARRATIVE/REMARKS/COMMENTS

Drilled well, submersible pump. Circulatory centrifugal pump and distribution
pipng. Operating at 82 psi, return pressure 54 psi. Circulation pump 7.5 HP,
US 3 phase mdl E805A, ID#W02V363R080F, TACO pump head SN 118929, water temp 92°F.

Have conditions of permit approval been met? XX yes no

APPROVED
JUN 29 1996

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

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

1. Recommended Amounts

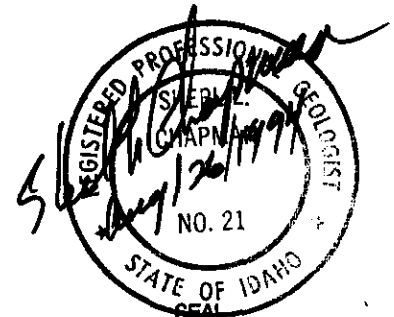
Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Heating/Cooling	1/1	12/31	0.17	N/A
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			0.17 cfs	_____

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above XX None
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATIONField Examiner's Name Sheri L. Chapman Date 8/25/94

Reviewer _____ Date _____

**MICROFILMED**

JUN 29 1995

MEMORANDUM

TO: File 63-11993 / Parklane Co.
FROM: Brenda Chapman
DATE: June 6, 1995
RE: Recommendation Adjustment(s)

=====

The final licensing recommendations for the above referenced water right are based on the information below:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Div	Annual Vol
Heating	10-01 to 03-31	.17	9.2
Cooling	04-01 to 09-30	.17	7.9

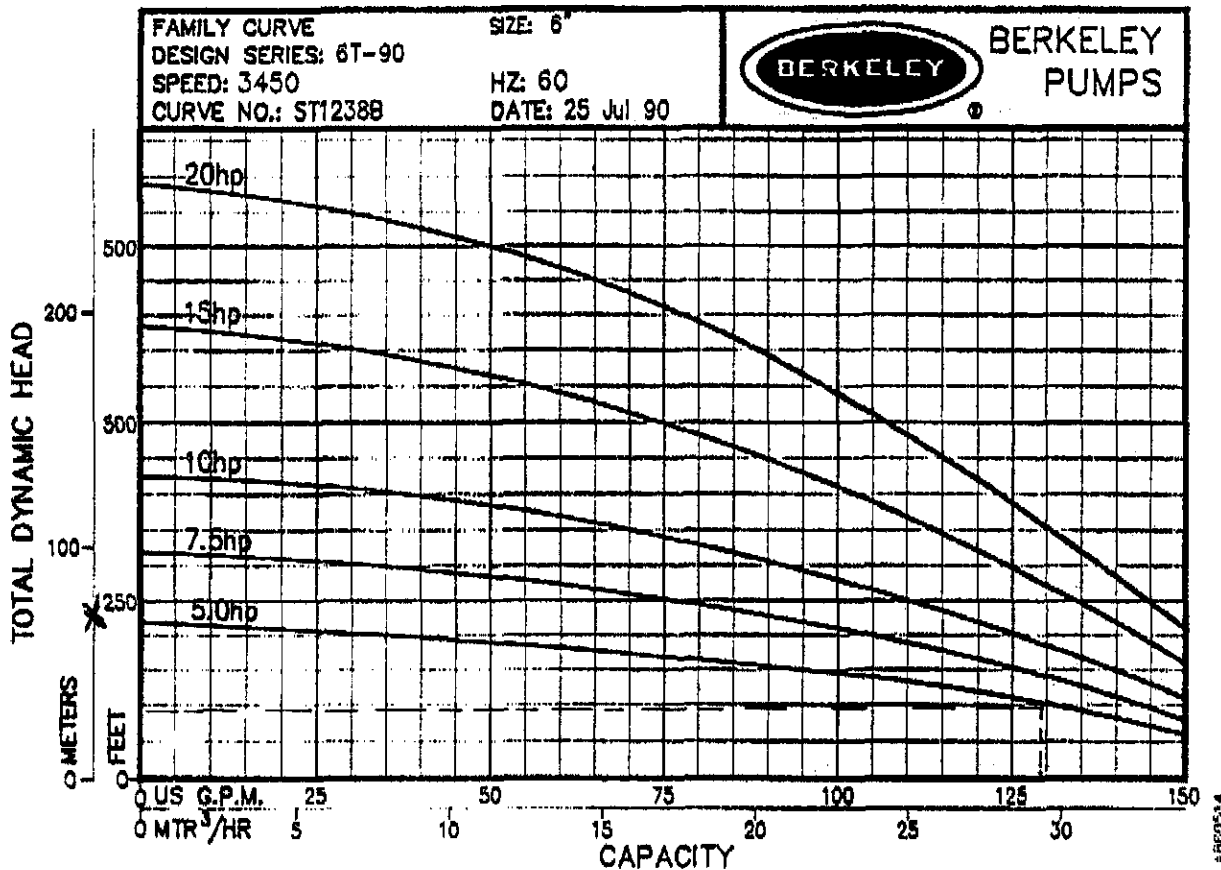
Rather than use the standard heating and cooling calculation guidelines, the recommendations are being made according to the system operating information in the file (provided by Musgrove Engineering).

A volume must be listed in conjunction with both uses; therefore, the recommendations are based on the number of hours associated with each use times the rate of flow.

ALSO NOTE: The seasons of use have been adjusted according to the period of time for each use listed in the system operation information.

MICROFILMED
JUN 29 1995

Submersible Turbine Model 6T-90



Specifications

LIQUID END WEIGHTS

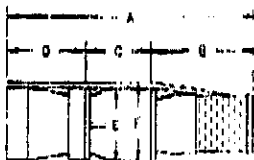
DESCRIPTION	WEIGHT LBS.	HP RATING	MOTOR FLANGE
ONE STAGE L.E.	43.17	5-20	8"
ONE STAGE L.E.			
ONE STAGE L.E.			
EACH ADDED STAGE	11.91	ALL	ALL

IMPELLER DATA

TYPE: ENCLOSED EYE AREA 2.66 Sq. in.
 THRUST CONSTANT K 1.85 Lbs./Ft of HEAD.

HP	IMPELLER No.	Stages	IMPELLER Dia.
5.0	P5-15C	4	4.07" @ 20" (3.84")
7.5	P5-15C	6	4.07" @ 20" (3.84")
10	P5-15C	8	4.07" @ 20" (3.84")
15	P5-15C	12	4.07" @ 20" (3.84")
20	P5-15C	16	4.07" @ 20" (3.84")

OUTLINE DIMENSIONS



- A- ONE STAGE LIQUID END LENGTH
- B- SUCTION CONNECTION LENGTH
- C- STAGE LENGTH
- D- DISCHARGE CONNECTION LENGTH
- E- BOWL DIAMETER
- F- DIAMETER ACROSS LEAD GUARD

BOWL DATA

BOWL No. P101-28FPUMP SHAFT Dia. 1"
 TYPE: THREADED DISCHARGE SIZE 3" NPT

NOTE: For each additional stage add 'C'

A	B	C	E	F	HP RATING	MOTOR FLANGE
18.56	11.00	3.94		5.63	5-20	8"

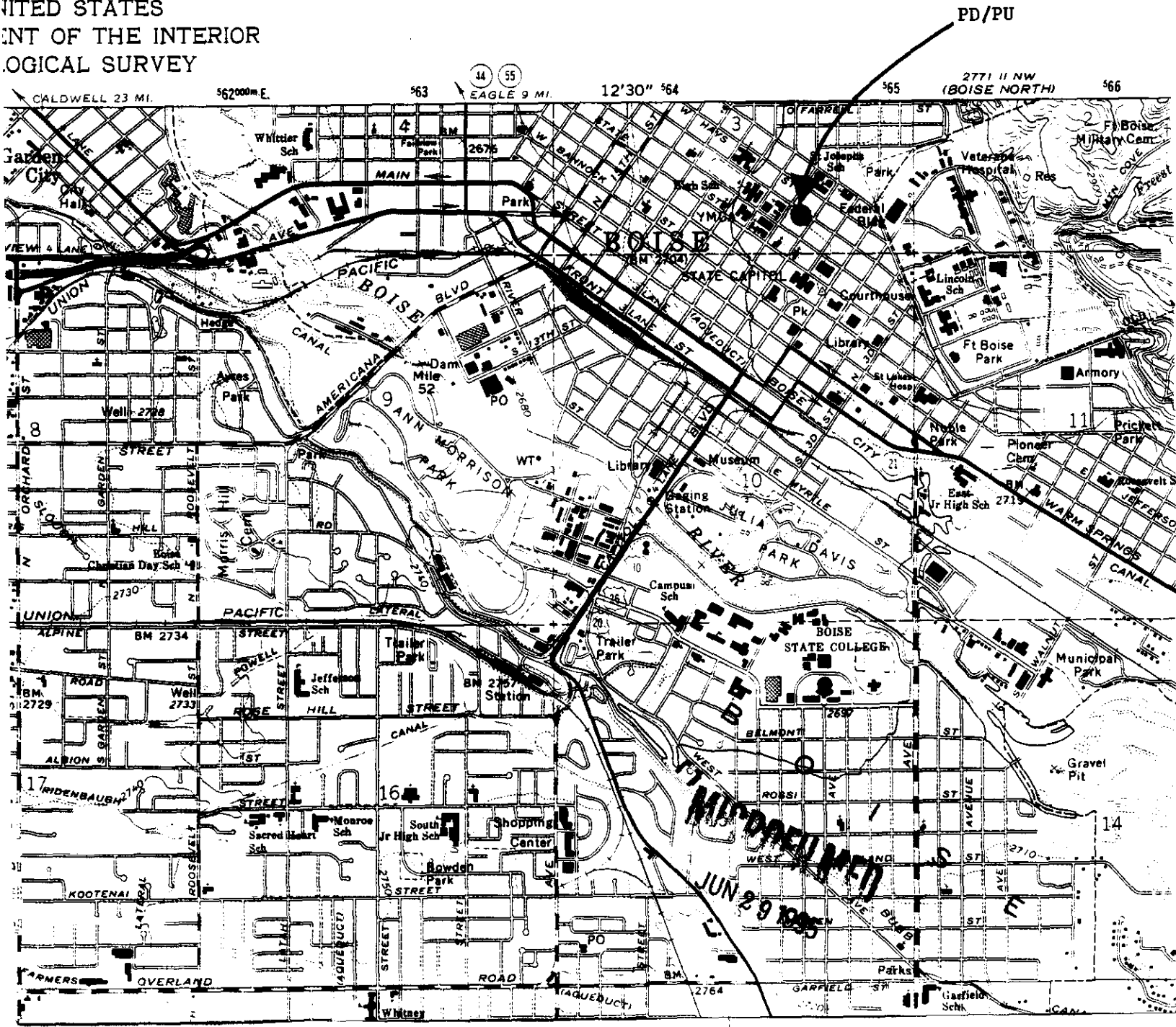
REVISED 25 Jul 90

ATER RESOURCES

PERMIT #63-11993

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

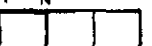


1. DRILLING PERMIT NO. 63-93-C-2698 - 000
Other IDWR No. _____

2. OWNER: PARKLANE COMPANY
Name C/O KENNETH G HOWELL CMC Company
Address P.O. Box 9725
City Sp. SE State ID Zip 83701

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



T. 3 North ☒ or South ☐
 E. R. 2 East ☒ or West ☐
 Sec. 3 SE $\frac{1}{4}$ SW $\frac{1}{4}$ 1/4
16 acres 16 acres 16 acres
 Gov't Lot _____ County ADA

Address of Well Site 805 WEST FRANKLIN ST
CHISEL
(Give at least Direction + Distance to Road or Landmark)

Lot No. 10 Block No. DE Subd. Name High City Original
Township

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other non-domestic

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
ACENTADITE	0	18	5	OVER CORE

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
8 3/4	2	69	250	X		☒	☐	☒	☐
6 5/8	65	69	250		X	☒	☐	☒	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 69 FT
Top Packer or Headpipe 45 FT Bottom Tailpipe 29

9. PERFORATIONS/SCREENS

☐ Perforations Method V-WIRE
☒ Screens Type _____ Material STAINLESS

From	To	Slot Size	Number	Diameter	Tag/Pipe Size	Coating	Uncoated
69	29	220		1.38	1.125	☐	☒
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Depth	Time
80 ±			

Temperature of water _____ Was a water analysis done? Yes ☐ No ☒

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

35 ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Date: Started Aug 25, 93 Completed Aug 26, 93

13. DRILLER'S CERTIFICATION

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

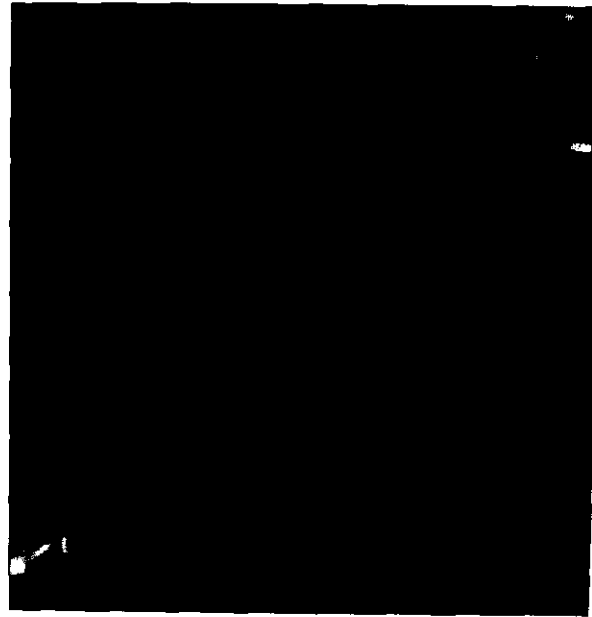
Firm Name _____

Firm Official _____

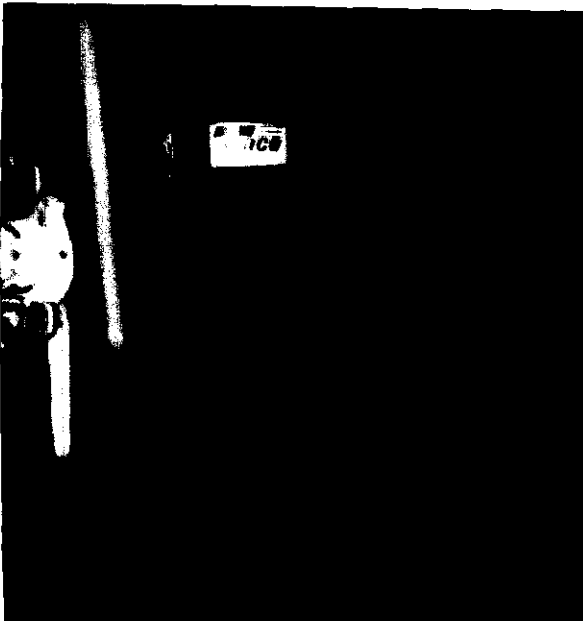
and

Supervisor or Operator _____ Date _____

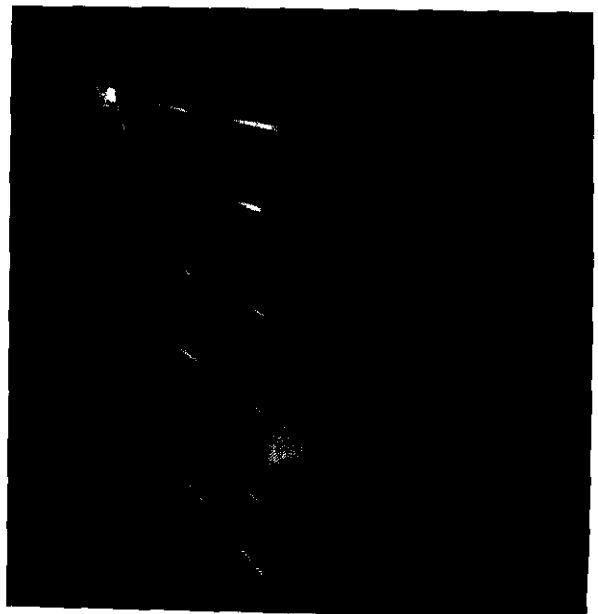
(Sign once if Firm Officer & Operator)



WELL & BOOSTER PUMP



CONTROL VALVING



HEAT EXCHANGER

RECEIVED
JUN 29 1995

63-11993

September 29, 1994

PARKLANE CO
C/O KENNETH G HOWELL
PO BOX 2725
BOISE ID 837012725

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 63-11993

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

If you have questions concerning this matter, please feel free to contact the WESTERN Regional Office in Boise at (208) 334-2190.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary

c: IDWR - Region

MICROFILMED

JUN 29 1995

July 13, 1994

Kenneth G. Howell
P.O. Box 2725
Boise, ID 83701

RE: Permit No. 63-11993

Dear Permit Holder:

Enclosed is a copy of the approved request for extension of time. The time within which to submit proof of beneficial use is extended to July 1, 1995. Please note that the department has granted this extension based on due diligence. It is important that you work diligently toward the completion of this project during the construction period allowed since the department will not be able to grant additional extensions based on due diligence.

If you have any questions or if I can be of any further assistance, please feel free to contact this office.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary

Enclosure

C: IDWR - Regional Office

AUG 10 1994

April 30, 1994

PARKLANE CO
C/O KENNETH G HOWELL
PO BOX 2725
BOISE ID 837012725

PROOF DUE NOTICE

RE: PERMIT NO. 63-11993

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 July 1, 1994. (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 complete 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.

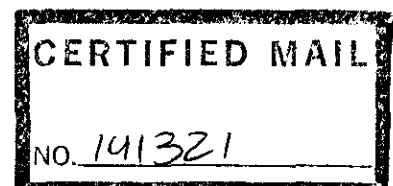
Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

AUG 10 1994





State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 2, 1993

PARKLANE CO
C/O KENNETH G HOWELL
PO BOX 2725
BOISE ID 83701-2725

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 63-11993

Dear Permit Holder(s):

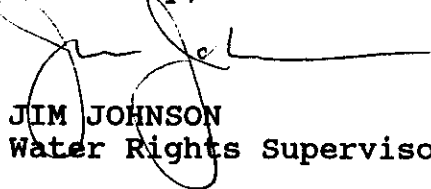
Enclosed is a copy of your approved application for permit. Please be sure to thoroughly review the "CONDITIONS/REMARKS:" listing on the permit.

Enclosed is a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed is a form entitled "Proof of Beneficial Use". If your project is already completed you should complete and submit this form immediately.

Also enclosed is a copy of the approved drilling permit submitted in connection with this water right.

You should be aware that you are located within a drainage basin where surface water diversions are regulated by a watermaster. It is possible that diversion of groundwater under your permit may cause a reduction of surface water flow. Siting your well as far as possible from surface water channels and casing your well so that groundwater tributary to surface water flows are not diverted will reduce the potential for the watermaster to regulate your water use.

Sincerely,



JIM JOHNSON
Water Rights Supervisor

JJ:dc

Enclosure

RECORDED

AUG 27 1993

State of Idaho
Department of Water Resources

RECEIVED

APPLICATION FOR DRILLING PERMIT FEB 1 2 1993

PARKLANE COMPANY, KENNETH G. HOWELL

Department of Water Resources
Western Regional Office

1. Applicant (please print) _____

2. Mailing Address _____ P.O. BOX 2725

City & State _____ BOISE, ID _____ Zip Code _____ 83701 _____ Telephone _____ (208) 345-3221

☒ Well Owner () Well Operator ☒ Other, specify HOLD OPTION TO PURCHASE PROPERTY

3. Proposed well location _____ SE _____ 1/4 _____ SW _____ 1/4, or Gov't Lot No. _____ N/A

Sec. _____ 3 _____, Twp. _____ 3N _____, Rge. _____ 2E _____, County _____ ADA

Street Address of Well Site _____ 805 WEST FRANKLIN ST.

Lot, block and subdivision _____ LOT 10, LOT 11 BOISE CITY ORIGINAL TOWNSHIP BLOCK 88

4. Proposed use of well:

() Domestic: The use of water for homes, organization camps, public campgrounds, livestock and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

Domestic does not include water for multiple ownership subdivisions, mobile home parks, commercial or business establishments, unless the use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

☒ Non-Domestic: Any beneficial use not included within the definition of domestic.

WATER SOURCE FOR CLOSED-LOOP HEAT EXCHANGE UNIT

() Injection

() Monitoring - A well bore schematic and map is required for each well.

No. of proposed wells: _____

() Other _____

(Describe)

5. Well construction information:

A. ☒ New well () Deepen () Modify () Replace - See Condition 9

B. Proposed Casing Diameter _____ 6" _____ Proposed Maximum Depth _____ 84'

C. Anticipated bottom hole temperature:

☒ 85°F or less (Cold water well)
☒ 85°F to 212°F (Low temp. geothermal well)
() 212° or more (Geothermal well)

6. Construction Start Date _____ APRIL 1, 1993

7. Anticipated Well Driller _____ UNKNOWN, WILL NOTIFY DEPT. WHEN DRILLER IDENTIFIED

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

8. Applicant's signature _____ Date _____ 2/10/93

Title _____ PARKLANE COMPANY, PRESIDENT

(Owner, Firm Representative, Other)

AUG 27 1993

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is _____ Date _____

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

GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
3. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Approval of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
7. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
8. If a bottom hole temperature of 85° or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
9. If this permit is for a replacement well, the well being replaced must be abandoned in accordance with Department Rules and Regulations.

SPECIFIC CONDITIONS:

Signature of Authorized Department Representative _____

Title _____

Receipt No. 20015935 Received by JAN Fee ~~\$3500~~ Date 2-12-93

200.00 cy

EXTENSION OF DRILLING PERMIT

NOT RECORDED

Extension approved by _____ Approval Date _____

AUG 27 1993

This extension expires: _____

MUSGROVE ENGINEERING, P.A.

Mechanical Engineer
4619 Emerald, Suite L
BOISE, IDAHO 83706

RECEIVED

JUN 14 1993

(208) 384-0585

Department of Water Resources

LETTER OF TRANSMITTAL

DATE 6-10-93	JOB NO.
ATTENTION CINDY	
RE: FRANKLIN PLAZA OFFICE BLDG. - BOISE	

TO CINDY ZIMMERMAN
DEPT. OF WATER RESOURCES
BOISE, ID.

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ CALC'S.

COPIES	DATE	NO.	DESCRIPTION
1			COMPUTER RUN FOR EXCHANGER FOR COOLING
1			" " " " " HEATING
1			WELL WTR. GPM - C.F.S. CALC.
1	EA.		BLOCK HEAT LOSS & COOLING LOAD CALC. FOR BUILDING.

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS SUPPORT DATA FOR WELL WATER RPT.

MAILED
AUG 27 1993

COPY TO FILE

40% Pre-Consumer Content • 10% Post-Consumer Content

SIGNED:

David H. Asmus

MUSGROVE ENGINEERING, P.A.
COOLING LOAD CALCULATIONS

PROJECT: FRANKLIN PLAZA	SHEET 1 OF
COMPUTED BY: DOM	DATE: 10-27-92
ROOM: BLDG BLOCK LOAD	CHKD. BY:
	DESIGN TIME: 5:00 PM

TRANSMISSION & SOLAR HEAT GAIN				
COMPONENT	AREA (FT ²)	TEMP. DIFF.	"U" FACTOR	BTUH
ROOF	6000	65°	.03	11,700
NORTH WALL	2888	25°	.05	3610
EAST WALL	3404	27°	.05	4595
SOUTH WALL	3148	31°	.05	4879
WEST WALL	3444	72°	.05	12,398
GLASS TRANSMISSION	3340	21°	.61	42,785

COMPONENT	AREA (FT ²)	SHGF	CLF	SC	
N. GLASS SOLAR	700	38	.75	.81	16,159
E. GLASS SOLAR	1120	216	.22	.81	43,110
S. GLASS SOLAR	440	109	.43	.81	16,704
W. GLASS SOLAR	1080	216	.64	.81	120,932
SKYLIGHT SOLAR					

INTERNAL HEAT GAIN			SENS.	LAT.
PEOPLE 7/1000 x 24,000	168 x 255 (SENSIBLE) & 255 (LATENT)		42,840	42,840
LIGHTS (2.5 W/FT ²)	30,000 x 2.5 WATTS x 3.4		255,000	
POWER 0.5	30,000 x 0.5 x 3.4		51,000	

OUTSIDE AIR HEAT GAIN						
SENSIBLE:	3360 CFM x	21 F x	.99 (CONSTANT)		69,854	-
LATENT:	CFM x	GR/LB x	(CONSTANT)		-	
SUBTOTAL					695,566	42,840
SAFETY FACTOR (10 %)					69,556	4284

NOTES:

TOTAL HEAT GAIN	765,122	47,124
GRAND TOTAL - BTUH	812,246	
- TONS	67.7	
TOTAL LOAD - FT ²	443	

AUG 27 1993

MUSGROVE ENGINEERING, P.A.
HEATING LOAD CALCULATIONS

PROJECT: FRANKLIN PLAZA	SHEET 2 OF
COMPUTED BY: DDM	DATE: 10-27-92
ROOM: BLDG BLOCK LOAD	

TRANSMISSION HEAT LOSS				
COMPONENT	AREA (FT ²)	TEMP. DIFF.	"U" FACTOR	BTUH
ROOF	6000	69°	.03	12,420
WALLS	12,884	69°	.05	44,449
GLASS	3340	69°	.59	135,971
FLOOR	—			

	PERIMETER	AVERAGE HEAT LOSS BELOW GRADE	TEMP. DIFF.	
BASEMENT WALLS	—			

	HEAT LOSS COEFFICIENT	AREA	TEMP. DIFF.	
BASEMENT FLOORS	—			

	HEAT LOSS @ GRADE	PERIMETER	TEMP. DIFF.	
CONC. FLOOR @ GRADE	.68	312	69°	14,639

INFILTRATION HEAT LOSS					
	VOLUME (FT ³)	AIR CHANGE RATE	CONSTANT	TEMP. DIFF.	
INFILTRATION	30,000 x 9	1 A.C./60	.99	69°	310,500

OUTSIDE AIR HEAT LOSS				
	CFM	TEMP. DIFF.	CONSTANT	
OUTSIDE AIR	3360	69°	.99	229,521

NOTES:

TOTAL LOAD - BTUH	1,147,500
- KW	333.1
- BTUH/FT ²	114.75

AUG 22 1993

Well water cool ~ 2 ROD'S.

FRANKLIN PLAZA

Well operation -

$$10 \text{ HR. DAY} \times 5 \text{ DAYS/WK.} = 50 \text{ HRS./WK}$$

COOLING ONLY 6 MONTHS / YR.

$$3 \text{ MONTHS (12 WKS.)} \times 50 \times 60\% = 360 \text{ HRS.}$$

$$3 \text{ MONTHS (12 WKS.)} \times 50 \times 30\% = 180 \text{ HRS.}$$

540 HRS. TOTAL/YR.

$$\begin{array}{r} 79 \\ @ 70 \text{ GPM} \times 60 = 4200 \text{ GALL/HR.} \end{array}$$

$$\begin{array}{r} \times 540 \text{ HRS.} \\ 2559600 \\ \hline 2268000 \text{ GALL/HR. GALL./YR.} = 303127 \text{ CF/YR} \\ 7.48052 \text{ GALL./CU.FT.} \\ \hline 448.831 \end{array}$$

$$\begin{array}{r} 79 \\ 70 \text{ GPM} \\ \hline 448.831 \end{array} = \frac{79}{448.831} \text{ CU. FT./SEC.} = .176$$

$$\begin{array}{r} 79 \text{ GPM} \times \frac{1 \text{ MIN}}{60 \text{ SEC}} = .176 \text{ FT/SEC} \\ \times 7.48 \text{ GALL/FT}^3 \end{array}$$

HTG. & COOLING 12 MONTH / YR.

$$6 \text{ MONTHS } (\pm 26 \text{ WKS.}) \times 50 \times 60\% = 780 \text{ HRS.}$$

$$6 \text{ MONTHS } (\pm 26 \text{ WKS.}) \times 50 \times 30\% = 390 \text{ HRS.}$$

1170 HRS. TOTAL/YR.

$$79 \times 60 = 4740 \text{ GALL/HR.}$$

MICROFILMED

AUG 27 1993

WORST COND. FOR 24 HR. PERIOD

$$\begin{array}{r} 24 \\ \times 60\% \\ \hline \end{array}$$

14.4 HRS.

$$\begin{array}{r} 14.4 \\ \times 4740 \text{ GALL/HR} \\ \hline \end{array}$$

68,256 GALL.

CUSTOMER: MUSGROVE (OWNER)
DAVE ASMUS
S/N 89201667
FROM DIANA PON

PROPOSAL NO. SC 036446-DCP
ITEM NUMBER
SALES TECH. BAC

ENER-CHANGER MODEL NO.: EC 5-088-2

ASME

NO. OF UNITS IN PARALLEL: 1 HEAT TRANSFER AREA: 347.1 SQ FT / UNIT

RUN NUMBER: 5838

* PERFORMANCE	** HOT SIDE **** COLD SIDE **
FLUID CIRCULATED	* WATER * WATER *
TOTAL FLOW RATE	* 219.00 * 79.00 * GPM
UNIT FLOW RATE	* 219.00 * 79.00 * GPM
SPECIFIC HEAT	* 1.00 * 1.00 * BTU/LB xF
SPECIFIC GRAVITY	* .99 * 1.00 *
THERMAL CONDUCTIVITY	* .36 * .35 * BTU/HR FT xF
VISCOSITY	* .78 * .89 * CP AT AVG TEMP
INLET TEMPERATURE	* 95.00 * 60.00 * xF
OUTLET TEMPERATURE	* 82.40 * 94.85 * xF
PRESSURE DROP	* 36.69 * 5.24 * PSI
OPERATING PRESSURE	* UNKNOWN * UNKNOWN * PSIG
HEAT EXCHANGED	***** 1373238.0 ***** BTU/HR UNIT

* CONSTRUCTION	* PASS ARRANGEMENTS
DESIGN PRESSURE	* 100 * PSIG
TEST PRESSURE	* 150 * PSIG 2 X 2
DESIGN TEMPERATURE	* 150 * xF
UNIT NET WEIGHT	* 1814 * POUNDS

* UNIT DIMENSIONS	* NOZZLE SPECIFICATIONS
A (MAX) *	11.61"
A (MIN) *	11.09"
B *	41.56"
C *	47.19"
T *	.88"

LOCATION 3 H/O- 4"-STR
LOCATION 4 C/I- 4"-STR
LOCATION 7 C/O- 4"-ELB
LOCATION 8 H/I- 4"-ELB

* MATERIALS

- PLATES * 304 SS
- GASKETS * NBR
- NOZZLES * HOT-316LSS COLD-316LSS (FLANGED)
- FRAME * CS EPOXY PAINTED
- BARB * STAINLESS STEEL CLAD
- BOLTS * CD PLATED CS

* REMARKS:

cooling loops

*EXISTING
PLATE EXCHANGER*

MIDDELMED

AUG 27 1993

CUSTOMER: MUSGROVE (OWNER)
DAVE ASMUS
S/N 89201667
FROM DIANA PON

PROPOSAL NO. SC 036446-DCP
ITEM NUMBER
SALES TECH. BAC

ENER-CHANGER MODEL NO.: EC5-088-2

ASME

NO. OF UNITS IN PARALLEL: 1 HEAT TRANSFER AREA: 347.1 SQ FT / UNIT

RUN NUMBER: 5839

* PERFORMANCE ** HOT SIDE *** COLD SIDE **

FLUID CIRCULATED	*	WATER	*	WATER	*
TOTAL FLOW RATE	*	79.00	*	219.00	* GPM
UNIT FLOW RATE	*	79.00	*	219.00	* GPM
SPECIFIC HEAT	*	1.00	*	1.00	* BTU/LB xF
SPECIFIC GRAVITY	*	1.00	*	1.00	*
THERMAL CONDUCTIVITY	*	.34	*	.33	* BTU/HR FT xF
VISCOSITY	*	1.31	*	1.45	* CP AT AVG TEMP
INLET TEMPERATURE	*	60.00	*	40.00	* xF
OUTLET TEMPERATURE	*	40.19	*	47.13	* xF
PRESSURE DROP	*	5.81	*	38.99	* PSI
OPERATING PRESSURE	*	UNKNOWN	*	UNKNOWN	* PSIG
HEAT EXCHANGED	*****	785650.0	*****		BTU/HR UNIT

* CONSTRUCTION * PASS ARRANGEMENTS

DESIGN PRESSURE	*	100	* PSIG	
TEST PRESSURE	*	150	* PSIG	2 X 2
DESIGN TEMPERATURE	*	150	* xF	
UNIT NET WEIGHT	*	1814	* POUNDS	

* UNIT DIMENSIONS * NOZZLE SPECIFICATIONS

A (MAX) *	11.61'	LOCATION 3	H/O- 4'-STR
A (MIN) *	11.09'	LOCATION 4	C/I- 4'-STR
B *	41.56'	LOCATION 7	C/O- 4'-ELB
C *	47.19'	LOCATION 8	H/I- 4'-ELB
T *	.88'		

* MATERIALS

- PLATES * 304 SS
- BASKETS * NBR
- NOZZLES * HOT-316LSS COLD-316LSS (FLANGED)
- FRAME * CS EPOXY PAINTED
- BARS * STAINLESS STEEL CLAD
- BOLTS * CD PLATED CS

* REMARKS:

heating loop

*EXISTING
PLATE EXCHANGER*

MICROFILMED

AUG 27 1993

MEMORANDUM

DATE: April 19, 1993
TO: File 63-11993
FROM: Cindy Zimmerman
SUBJECT: Additional Information

=====

During the review of this application with Jim Johnson, we determined that additional information was required to support the request of 0.176 cfs for heating & cooling. I telephoned Musgrove Engineering, Dave Asmus, requesting documentation of the calculations leading to the 0.176 cfs. I also telephoned Parklane Co., Betsy Lloyd, informing her of our request for addition information backing up the 0.176 cfs for heating. Ms. Lloyd stated that the figure was a combined effort of herself, Musgrove Engineering, and Briggs Construction, and that she would further pursue supplying the Department with the additional information.

UNRECORDED

AUG 27 1993

Parklane Co

Cyt 2/22/93

A = 21,500, multiple story

$t_i = 73$

$t_o = 4$ - winter = 90 - summer

$e = .28$

$S = 55$ (est)

Heating

$$E = [.28 \times 69] 21,500 = 415,380(.8) = 332,304$$

$$\Delta T_s = (.3)(55 - 73) = 5.4$$

$$Q = \frac{332,304}{(500) 5.4} = \frac{123.1}{5.4} \text{ gpm} = \frac{.27 \text{ cfs}}{.27 \text{ cfs}}$$

Cooling

$$E = [.28 \times 17] 21,500 = 102,340(.8) = 81,872$$

$$\Delta T_s = (.3)(55 - 73) = 5.4$$

$$Q = \frac{81,872}{(500) 5.4} = \frac{30.3}{5.4} \text{ gpm} = \frac{.07 \text{ cfs}}{.07 \text{ cfs}}$$

Note: Calculations are for standard dwelling space heating. This building is a 4-story office complex. Engineering specs were used by applicant to obtain the rate of flow specified.

$\therefore$ utilize requested flows (which appear to be reasonable in light of these calcs) Dr. **NOT RECOMMENDED**

AUG 27 1993

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due

\$144.75

Account Number 047628		Identification NOTICE OF APPLICATION OF WATER RIGHT	
Ordered By Gail Garrett	P.O. Number	Rate NT	Run Dates March 4, 11, 1993
State of Idaho Department of Water Resources Western Region 2735 Airport Way Boise, Idaho 83705		Estimated Inches	Real Inches
		# Affidavits 1	Legal Number 4350

Thursday, March 11, 1993 7B

LEGAL NOTICES

LEGAL NOTICES

LEGAL NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-11990
SOUTH COUNTY WATER COMPANY
PO BOX 7361
BOISE, ID 83707

Source: GROUNDWATER
Diversion Pt: SENE Sec 16 T 03N R 01E in ADA County.
Use: IRRIGATION (3.500 CFS)
DOMESTIC (.940 CFS)
FIRE PROTECTION (3.500 CFS)
Total Diversion: (3.500 CFS)
1/27/1993

Date Filed:
In: ADA County
T03N R01E S15 NENW NWNW SWNW SENW
S16 NENE NWNE SWNE SENE
260.0 ACRES TOTAL

63-11991

OKINS, ROGER D
OKINS, BETTY M
2022 N EAGLE RD
EAGLE, ID 83616

Source: WASTE WATER Tributary: DRY CREEK
Diversion Pt: NWNWSW Sec 4 T 04N R01E in ADA County.
Use: IRRIGATION (.080 CFS)
Total Diversion: (.080 CFS)
2/11/1993

Date Filed:
In: ADA County
T04N R01E S04 NWSW
2.5 ACRES TOTAL

63-11992

CHURCH OF JESUS CHRIST LATTER DAY SAINTS
PO BOX 15309
2710 W SUNRISE RIM RD STE 200
BOISE, ID 83715

Source: GROUNDWATER
Diversion Pt: SWNW Sec 4 T 04N R 01E in ADA County.
Use: DOMESTIC (.200 CFS)
FIRE PROTECTION (2.700 CFS)
Total Diversion: (2.900 CFS)
2/11/1993

Date Filed:
In: ADA County
T04N R01E S04 SWNW

63-11993

PARKLANE CO
C/O KENNETH G. HOWELL
PO BOX 2725
BOISE, ID 83701

Source: GROUNDWATER
Diversion Pt: SESWSE Sec 3 T 03N R 02E in ADA County.
Use: HEATING (.176 CFS)
COOLING (.176 CFS)
Total Diversion: (.176 CFS)
2/12/1993

Date Filed:
In: ADA County
T03N R02E S03 SWSE
The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before March 22, 1993.
R. Keith Higginson, Director
Pub. March 4, 11, 1993

PAN

, being duly
That she is the Principal Clerk of The
ewspaper printed and published at Boise,
, and having a general circulation therein
has been continuously and uninterruptedly
uring a period of twelve consecutive
blication of the notice, a copy of which is
notice was published in The Idaho
th Section 60-108, Idaho Code as

consecutive daily ☐ single ☐ odd skip

the issue of MARCH 4, 1993

MARCH 11, 1993

if

Rayne - Wilson

ss.

ay of MARCH in the year of
, a Notary Public, personally appeared
PAN, known or identified to
name subscribed to the within instrument,
worn, declared that the statements therein
to me that she executed the same.

Public for Idaho

at BOISE, ID

ission expires: 11-27-93

MICROFILMED

AUG 27 1993

63-11993

PARKLANE CO
C/O KENNETH G HOWELL
PO BOX 2725
BOISE, ID 83701

Source: GROUNDWATER

Diversion Pt: SESWSE Sec 3 T 03N R 02E in ADA County.

Use: HEATING (.176 CFS)
COOLING (.176 CFS)
Total Diversion: (.176 CFS)

Date Filed: 2/12/1993

In: ADA County
T03N R02E S03 SWSE

RECORDED

AUG 27 1993