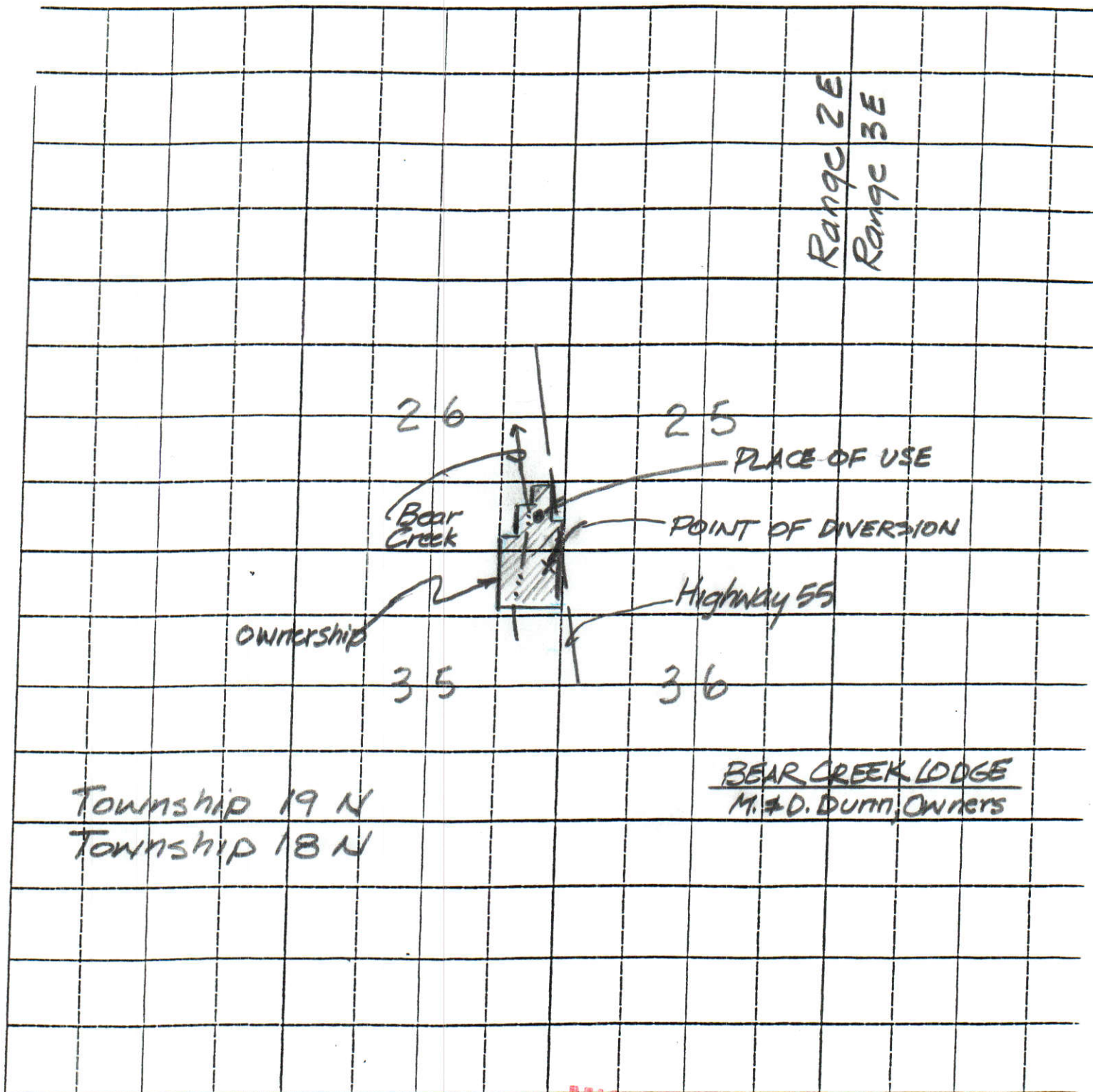


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

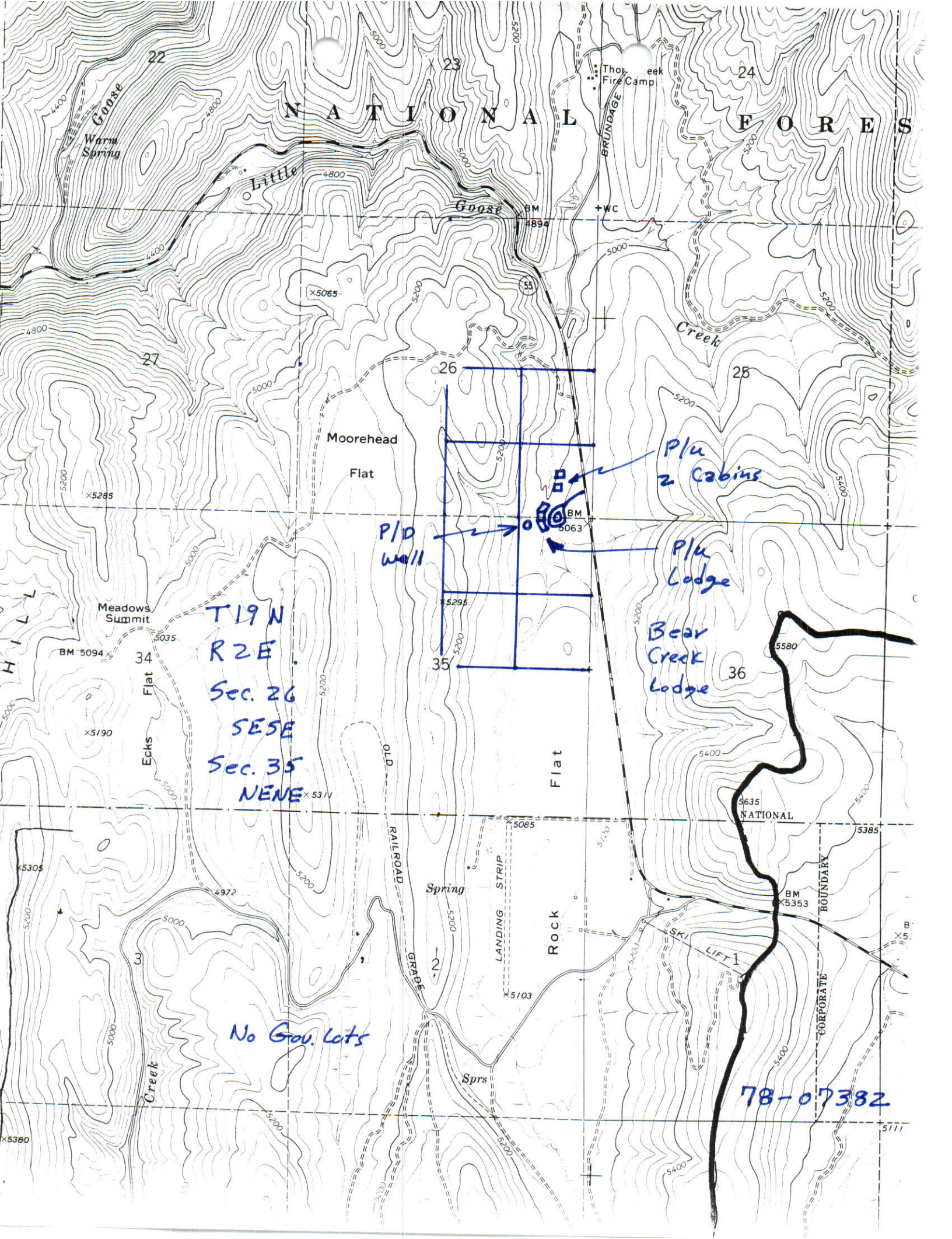
BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

RECORDED

JAN 26 1996

[Signature]

(Applicant)



DOMESTIC WATER SYSTEM BEAR CREEK LODGE



SCALE: 1"=60'



WELL
P/D

78-07382

RECORD DRAWINGS

This record drawing has been prepared for improvements designed and constructed by others, and is not intended to demonstrate or represent the quality of design or installation. It has been prepared, in part based upon information furnished by others. While this information is believed to be reliable, we cannot assure its accuracy, and thus are not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

Date: 21-JUN-96

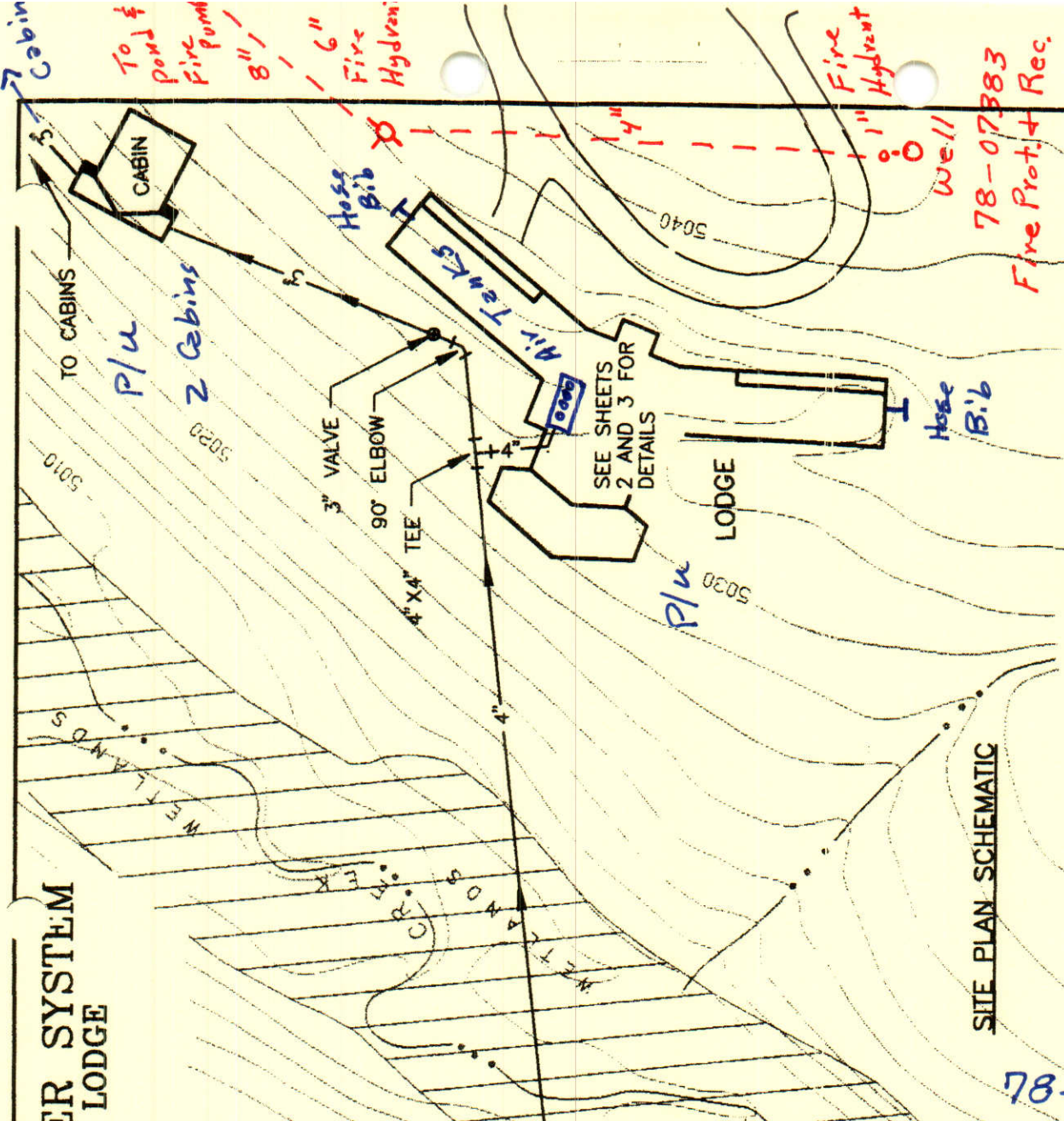
TOOTHMAN-ORTON ENGINEERING CO.

SITE PLAN SCHEMATIC

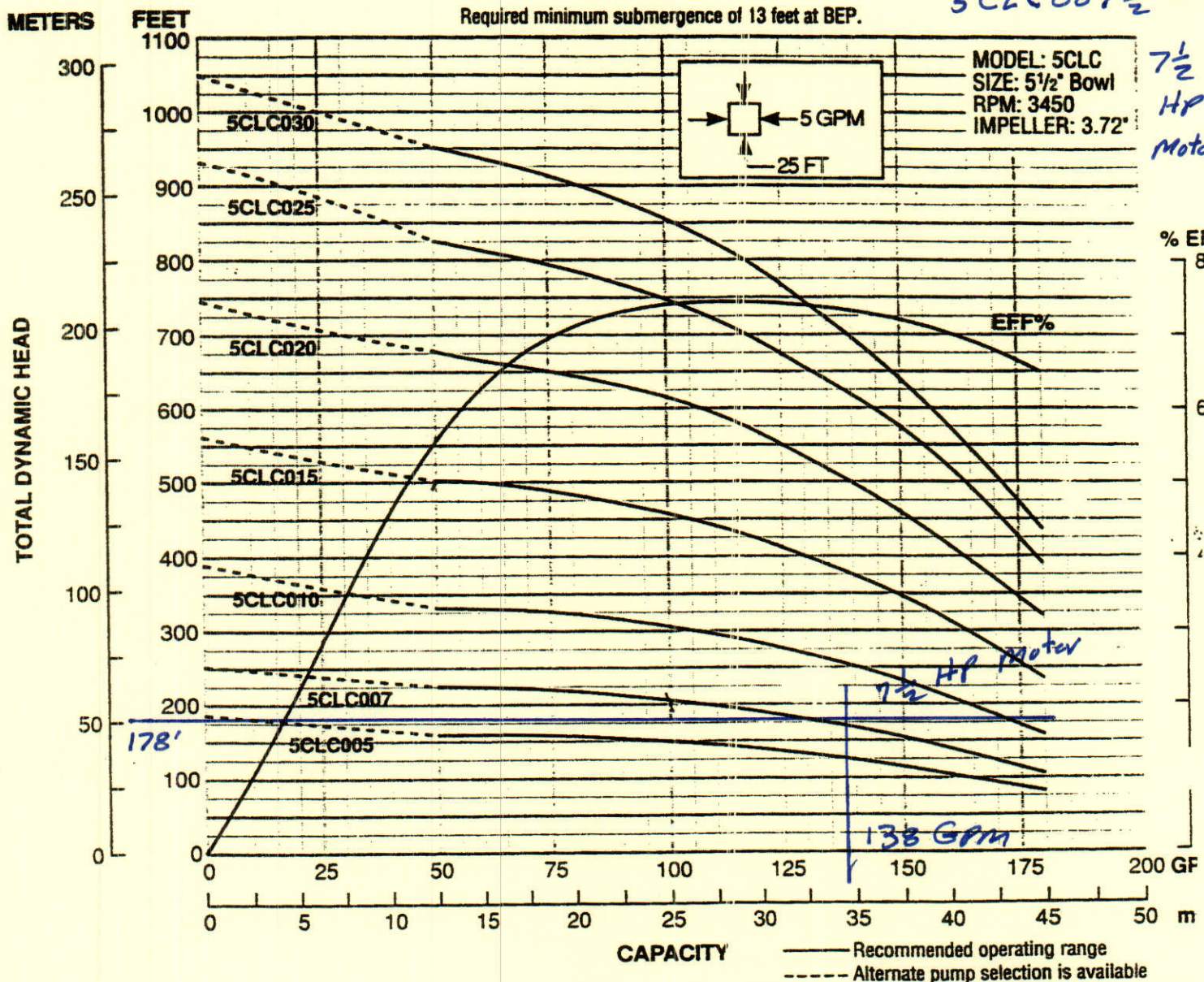
78-07382

TOOTHMAN-ORTON ENGINEERING COMPANY
9777 CHINDEN BLVD.
BOISE, ID 83714
DATE: 21-JUN-96
E-FILE: ASBSCHM.DWG

McCALL AIR TAXI BLDG.
McCALL, ID 83638
PROJECT NUMBER: 95007
SHEET 1 OF 5



5CLC007 1/2



Dimensions and Weights

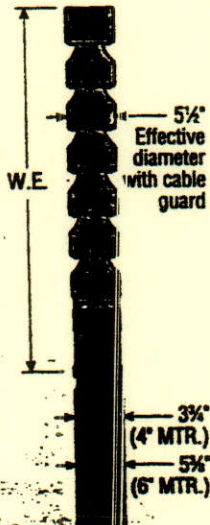
HP	Stages	W.E. Order Number	W.E. Length	W.E. Wt. (lbs.)
5	3	5CLC00544CTB	25 1/4	73
		5CLC00564CTB	28 1/4	75
7 1/2	4	5CLC00744CTB	30 3/4	86
		5CLC00764CTB	32 13/16	88
10	6	5CLC01064CTB	42 27/32	114
15	9	5CLC01564CTB	56 23/32	153
20	12	5CLC02064CTB	71 1/2	192
25	15	5CLC02564CTB	85 5/8	231
30	17	5CLC03064CTB	95 1/4	257

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)

PLEASE NOTE:

- Order motors separately.
- For intermediate horsepower pumps consult factory.
- Solid line is recommended operating range. The dotted line (---) signifies an alternate pump selection is available.
- Please specify all options changes in W.E. order number.

4" NPT DISCHARGE CONNECTION

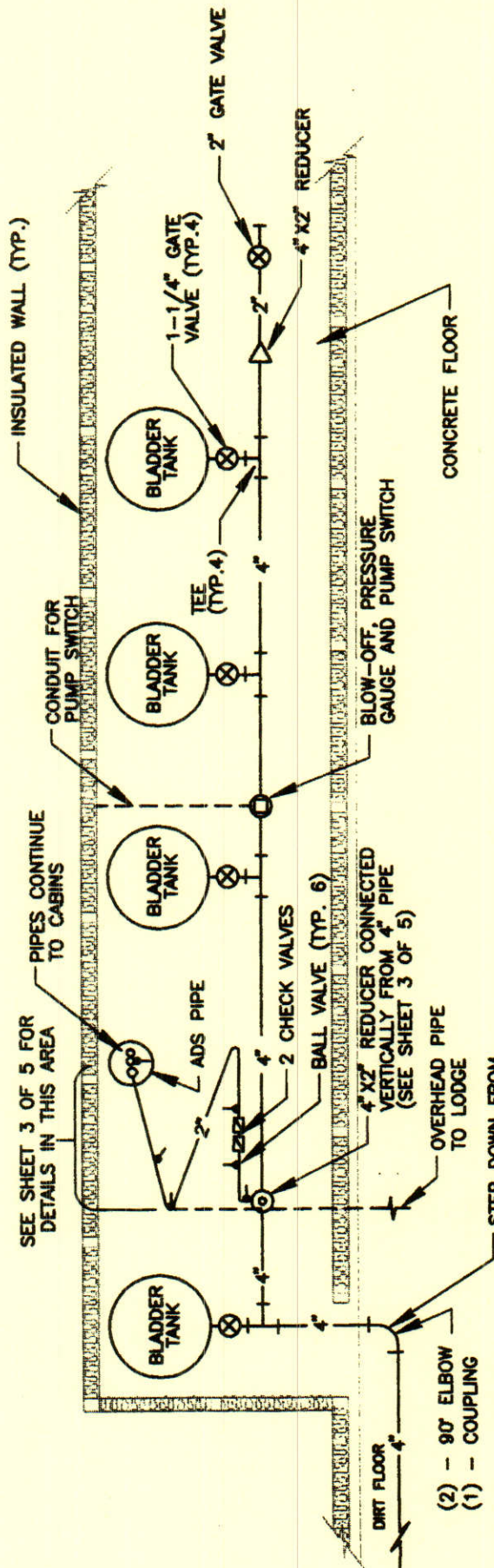


Materials of Construction

Part Name	Material
Shaft	ASTM A582 TYPE 410
Coupling	ASTM A582 S41600 C
Suction Adapter	ASTM A48 CL 40
Discharge Bowl	ASTM A48 CL 30B
Bronze Bearings	ASTM B584
Discharge Bowl Bearing	ASTM B584
Taperlocks	ASTM A108 GR 101
Bowl	ASTM A48 CL 30B
Upthrust Collar	ASTM A276 S4140
Impeller	ASTM B145-4A
Fasteners	SAE J429 GR 8
Cable Guard	ASTM A240 S 3040
Suction Strainer	ASTM A240 S 3040

78-07382

DOMESTIC WATER SYSTEM BEAR CREEK LODGE



*Air Tanks
in basement*

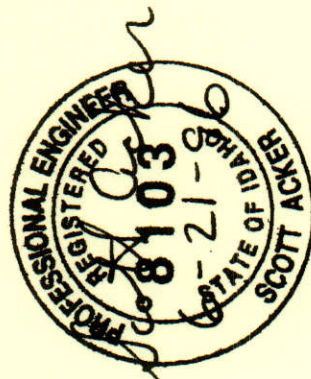
SCHEMATIC PLAN VIEW
UNDER LODGE

NTS

RECORD DRAWINGS

This record drawing has been prepared for improvements designed and constructed by others, and is not intended to demonstrate or represent the quality of design or installation. It has been prepared, in part based upon information furnished by others. While this information is believed to be reliable, we cannot assure its accuracy, and thus are not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

Date: 21-JUN-96
TOOTHMAN-ORTON ENGINEERING CO.



78-07382

TOOTHMAN-ORTON ENGINEERING COMPANY
9777 CHINDEN BLVD.
BOISE, ID 83714
DATE: 21-JUN-96
E-FILE: WATSCHM.DWG
McCALL AIR TAXI BLDG.
McCALL, ID 83638
PROJECT NUMBER: 98007
SHEET 4 OF 5

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS: This well provides domestic water
for Bear Creek Lodge and 2 cabins.

Dan Tomich, Water Rights Examiner
Signature of Dept. Representative & Title

7-7-99
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:





1 of 3

P/D

Well

Plu

Bear

Creek

Lodge



P/D

Air Tanks,

Press. gas,

Press.

switch,

etc.

in

basement

of Lodge.

78-07382

2 of 3



Plu

Lodge



Plu

Lodge

78-07382

3 of 3



Plus
Cabins.

2 units
in each
cabin



Plus
one of
2 Horse
Bibs at
Cedar
for yard
irrigation.

78-07382

Publisher's Affidavit of Publication

STATE OF IDAHO

} .SS

County of Valley

I, Ramona A. French, being duly sworn and say, I am the receptionist of The Central Idaho Star-News, a weekly newspaper published at McCall, in the County of Valley, State of Idaho; that said newspaper is in general circulation in the county of aforesaid and is a legal newspaper; that the NOTICE OF APPLICATION FOR WATER RIGHTS, a copy of which is enclosed hereto and is a part hereof, was published in said newspaper once a week for two consecutive weeks in the regular and entire issue of every number there of during the period of time of publication, and was published in the newspaper proper and not in a supplement; and that publication of such notice began October 5, 1995 and ended October 12, 1995.

Ramona A. French
Subscribed and sworn before me this the 12th day of October, 1995.
STATE OF IDAHO

COUNTY OF VALLEY }

On this 12th day of October, in the year of 1995, before me, a Notary Public, personally appeared Ramona A. French, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Tom Grote
Tom Grote
Notary Public for Idaho
Residing at McCall, Idaho
Commission Expires: 1999

RECEIVED
NOV 01 1995
WATER RESOURCES
WESTERN REGION

NOTICE OF APPLICATION FOR WATER RIGHT

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

78-07382 *vet*

DUNN, DEBRA
DUNN, MIKE
HC 33 BOX 3205
BOISE, ID 83706

Source: GROUNDWATER

Diversion Pt: NENE Sec 35 T 19N R 02E
in ADAMS County.

Use: IRRIGATION (0.200 CFS)
COMMERCIAL (0.150 CFS)

Total Diversion: (0.350 CFS)

Date Filed: 9/13/1995

In: ADAMS County

T19N R02E S26 SESE
S35 NENE

10.0 ACRES TOTAL

Permits will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec. 42-203A, Idaho Code. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 together with a protest fee of \$25.00 on or before OCTOBER 23, 1995. The protestant must also send a copy of the protest to the applicant.

KARL J. DREHER, Director 2/10/12

JAN 26 1996

- O. Recovery of Tools. In the event of loss of tools or equipment during any phase of the work, the Contractor shall not be entitled to any payment for time spent or expense incurred in an attempt to fish or recover the tools or equipment prior to possible abandonment of well.
- P. Protection of Water Quality. The Contractor shall take all necessary precautions to prevent contamination of the water in the well by the introduction of any foreign substances, including contaminated water, oil, etc.
- Q. Completion and Clean-up. Upon acceptance of the well by the Owner, the Contractor shall cut off the casings at a point not less than 24 inches above ground level or as designated by the Engineer. The casing shall be further protected by covering with a 1/4 inch thick steel plate tack welded to the casing. The well site shall be cleaned up by removing all equipment, materials, and supplies, and by filling all pits or excavations and performing any site grading necessary to leave the site in a neat and orderly fashion.
- R. Drilling Permit. The Contractor shall post, in a visible location, a copy of the approved Drilling Permit. He shall comply with all requirements of said permit.

DRILLING PROGRAM

- A. Surface Seal. The surface seal shall consist of a bentonite grout from the land surface to a depth of 80 feet or to a depth at which a clay layer may be penetrated at least four feet.
- B. Filling Below Surface Seal. Place bentonite in the annular space between the well bore and casing, in the zone above the gravel pack and below the surface seal. Backfill shall occur after well development.

Work in this section will be paid for by the applicable bid item.

- C. Drilling. The well shall be drilled to accommodate a nominal 6-inch diameter permanent casing. It is estimated that all drilling will be in sediments such as clay, silt, sand or gravel. Basalt rock may be encountered. The Contractor shall provide the well drilling rig and well tools as required, and all other equipment, materials and supplies required for drilling and completing the well. All such equipment shall be in good condition and properly maintained.

The well shall be drilled to accommodate a minimum 6-inch O.D. casing to a depth of about 140 feet, as directed by the Engineer.

Measurement for payment for drilling shall be of the depth below ground surface of the hole actually drilled. No classification of materials will be made and payment for drilling shall be at the unit price listed in the Bid Schedule regardless of the type of materials encountered.

JAN 26 1996

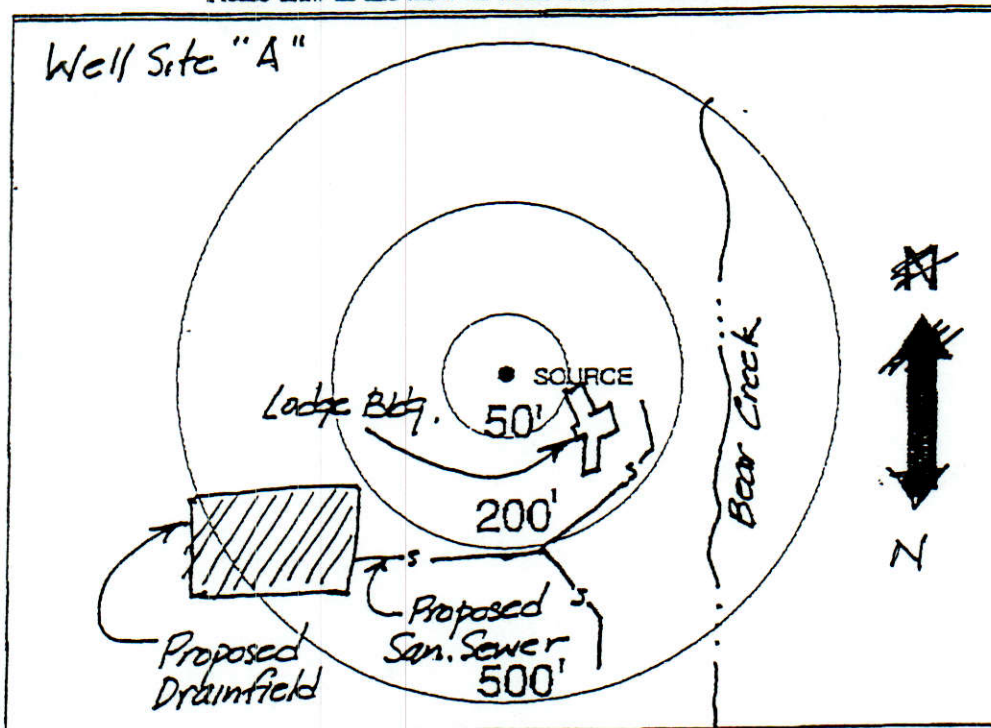
GWUDI FIELD SURVEY

PWS # _____

System Name: <u>Bear Creek Lodge</u>	Source Name: <u>Groundwater</u>
Source Type: <u>Well</u> (spring, well, infiltration gallery)	Maximum Pumping Rate: <u>120 gpm</u>
System Representative: <u>Briggs Engineering, Inc.</u> <u>David N. Torgeson, P.E. & L.S.</u>	Date: <u>8-16-95</u>

MAP OF SOURCE VICINITY

Please draw in and label all items from the checklist below



Map Checklist:

- | | |
|---|---|
| ☒ Surface water within 500' | ☐ Stormwater disposal systems within 500' |
| ☒ On-site sewage systems or lagoons within 500' | ☐ Injection Wells within 500' |
| ☒ Municipal or on-site sewer lines within 200' | ☐ Other sources of contamination within 500' |
| ☐ Dairies or livestock feeding operations within 500' | |

Determination: ☒ Ground Water		☐ Influenced by Surface Water		☐ Ground Water Further	
Evaluation:		Evaluation:		Evaluation:	
DEQ or HD Representative:		Date:			

EVALUATION COMMENTS ON REVERSE SIDE

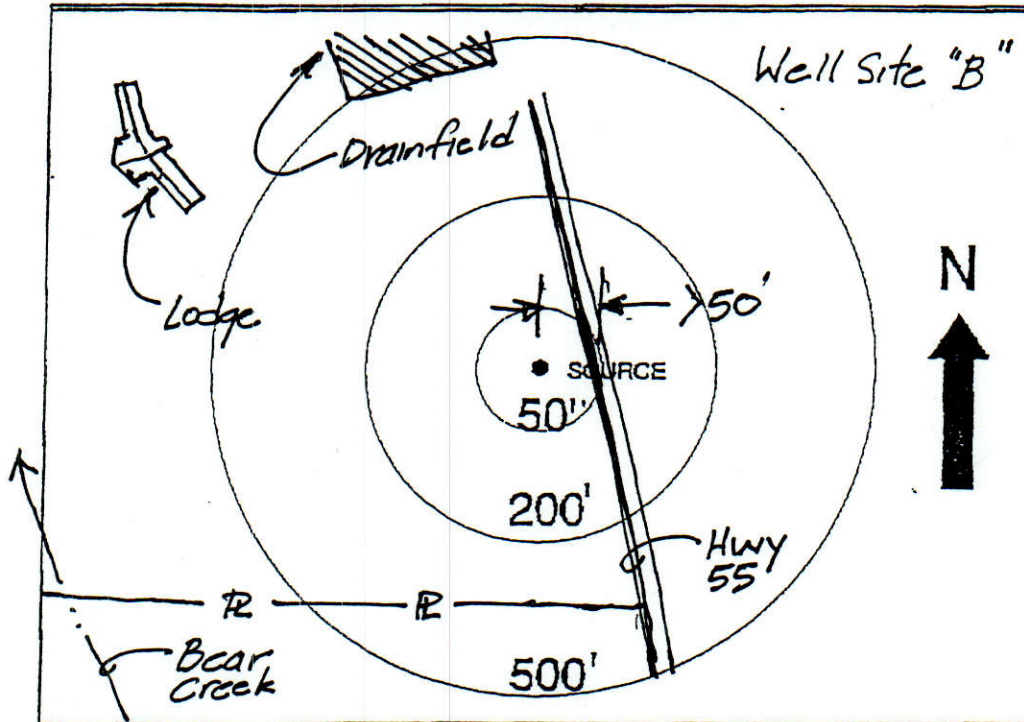
GWUDI FIELD SURVEY

PWS # _____

System Name: Bear Creek Lodge Source Name: _____
 Source Type: Well Maximum Pumping Rate: 65 gpm
(spring, well, infiltration gallery)
 System Representative: Briggs Engineering Inc.,
David N. Torjesen, P.E. & L.S. Date: 9-12-95

MAP OF SOURCE VICINITY

Please draw in and label all items from the checklist below



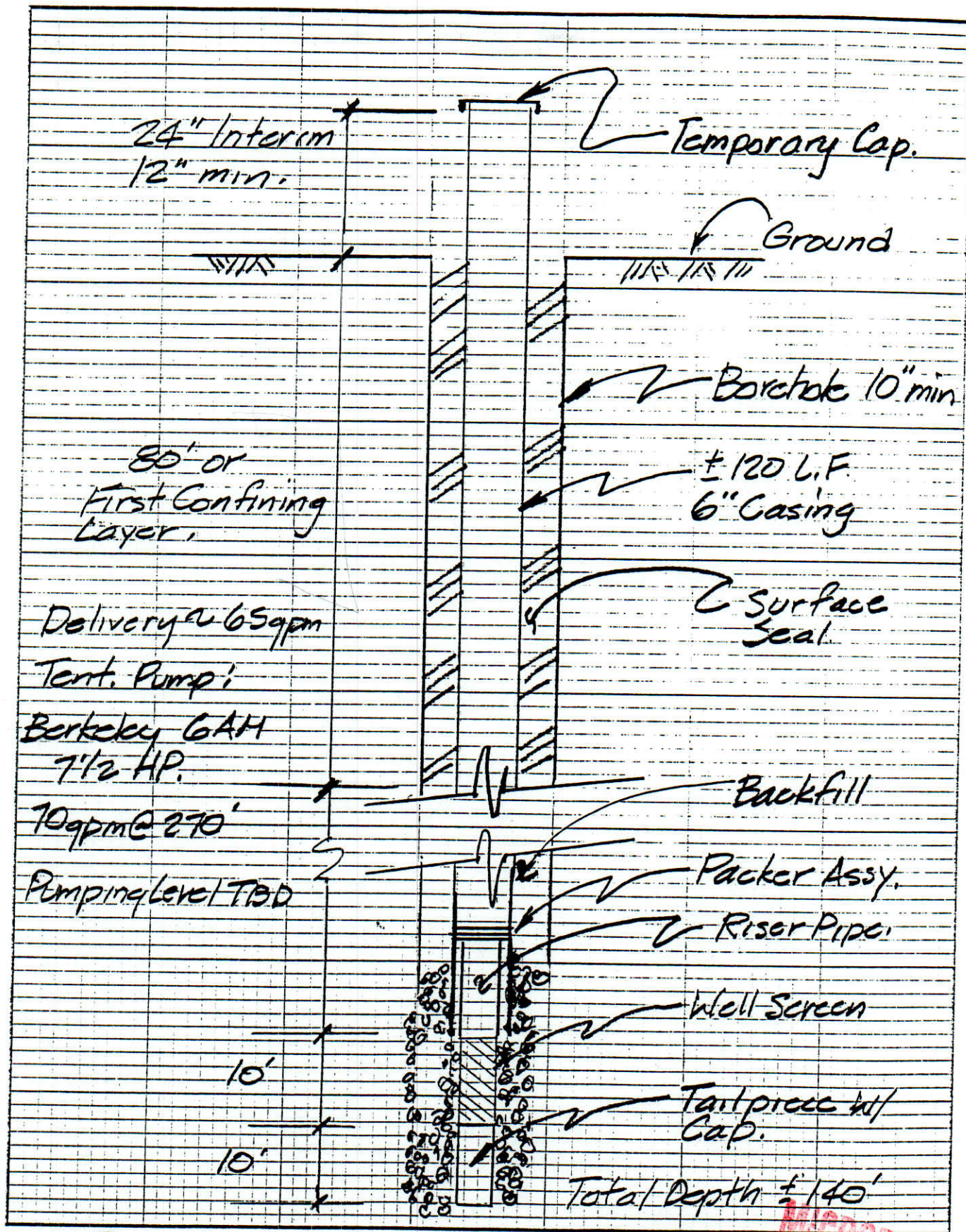
Map Checklist:

- | | |
|--|---|
| ☐ Surface water within 500' | ☐ Stormwater disposal systems within 500' |
| ☐ On-site sewage systems or lagoons within 500' | ☐ Injection Wells within 500' |
| ☐ Municipal or on-site sewer lines within 200' | ☐ Other sources of contamination within 500' |
| ☐ Dairies or livestock feeding operations within 500' | |

Determination: ☒ Ground Water		☐ Influenced by Surface Water		☐ Ground Water Further	
Evaluation:		Evaluation:		Evaluation:	
DEC or HD Representative:		Date:			

EVALUATION COMMENTS ON REVERSE SIDE

MAILED
JAN 26 1996



Project Bear Creek Lodge
Proposed Well - Section

Job No. 950516

By DNT

Ck'd _____

Sheet _____

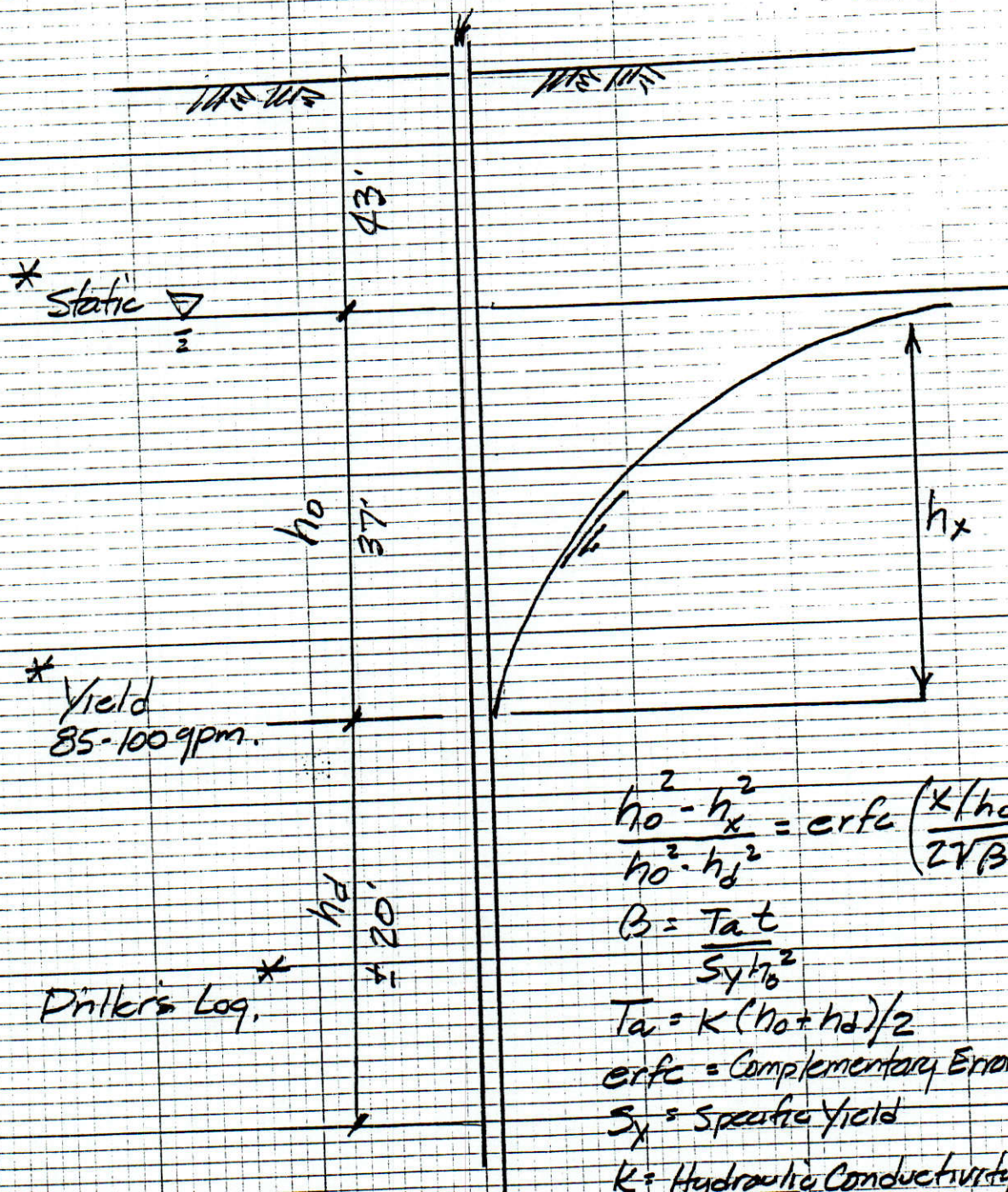
Date 9-12-95

Date 6 1996



BRIGGS ENGINEERING, INC.

Model Based on Transient Flow to Linear Drain



$$\frac{h_0^2 - h_x^2}{h_0^2 \cdot h_d^2} = \operatorname{erfc} \left(\frac{x/h_0}{2\sqrt{B}} \right)$$

$$B = \frac{T_a t}{S_y h_0^2}$$

$$T_a = K(h_0 + h_d)/2$$

erfc = Complementary Error Funct.

S_y = Specific Yield

K = Hydraulic Conductivity

t = time since flow started.

Project Bear Creek Lodge

Job No. 950516

Sheet 1/2
Date 9-12-95

By DNT

Analyze Well Drawdown

Ck'd

Date JAN 26 1996



BRIGGS ENGINEERING, INC.

Let Specific Yield = 10%

Assume Eff. Grain Size = 0.20 mm (Med. Sand)

$$\therefore K = 400 \text{ ft/day.}$$

$$T_a = 400 (37 + 20)/2 = 11.4 \times 10^3$$

$$B = \frac{11.4 \times 10^3 \times t}{10 \times 37^2} = 0.833 t$$

Let $t = 24 \text{ hr. day}$ (Conservative - see Note below.)

$$B = 0.833$$

Calc. greatest extent, i.e., $h_x = 0.99 h_o$

$$\frac{(h_o^2 - (0.99 h_o)^2)}{(h_o^2 - 20^2)} = \left\{ \right\} \quad \text{Guess } X = 280$$

$$\left\{ \right\} = 0.0075 \times \left(\frac{280}{37} \right) \left(\frac{1}{2 \times 0.833} \right) = 0.022$$

$$0.022 \stackrel{?}{=} \frac{1369 - 1341.76}{1369 - 400} \neq 0.028 \text{ but very close.}$$

Analysis indicates Radius of drawdown cone is about 275 feet with continuous 24 hr. pumping @ 85-100 gpm. Actual rate will be ~65 gpm.

Actual withdrawals will be intermittent, on the order of 2-3 hrs. max.

Proposed well is about 500 feet from ~~draw~~field.

Project Bear Creek Lodge

Job No. 950516

Sheet

2/2

By

DNT

Date

9-12-95

Analyze Well Drawdown.

Chk'd

Date

BRIGGS

BRIGGS ENGINEERING, INC.

RECEIVED

OCT 26 1998

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Department of Water Resources

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form 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, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 78-07382 Telephone No. 634-3551
2. Name(s) of Permit Holder(s): Mike Dwyer - Debra Dwyer
3. Mailing Address: P.O. Box 8 New Meadows ID 83654
4. Source of Water: Groundwater If GROUNDWATER (well), Date Drilled: mo. 10 / yr. 95
 - a. Well Driller: MENASCO Drilling Permit Number: 78-95-W-0021-000
 - b. OPTIONAL:
Pump Horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft): _____

5. Use(s) (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): 10 acres Other: COMMERCIAL

6. Total rate of diversion and/or volume for which proof is submitted: 1.55 cfs OR _____ acre feet

7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device:	Is a measuring device required?	Yes _____ or No ☒
	Has the measuring device been installed?	Yes _____ or No ☒
Flow Measurement Port:	Is a flow measurement port required?	Yes _____ or No ☒
	Has the measurement port been installed?	Yes _____ or No ☒

8. Fee Enclosed: \$ 100⁰⁰ (See Fee Schedule on back of the instructions for filing proof of beneficial use)

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: Debra Dwyer Telephone Number: 634-3551

Address: P.O. Box 8 New Meadows ID 83654

10. The information given on this form 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.

Signature of permit holder: [Signature] Date: 10/26/98
(include your title, if on behalf of company or organization)

NOV 27 1998

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 78-07382

Proposed Priority: September 13, 1995 Maximum Diversion Rate: 0.35 CFS

This is to certify, that **MIKE DUNN**
DEBRA DUNN
HC 33 BOX 3205
BOISE ID 83706

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>
IRRIGATION	04/15 to 10/15	0.20 CFS
COMMERCIAL	01/01 to 12/31	0.15 CFS
	Totals	0.35 CFS

LOCATION OF POINT(S) OF DIVERSION:

NENE , Sec. 35, Township 19N, Range 02E
ADAMS County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>		<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
19N	02E	26	SESE	5.5			5.5
		35	NENE	4.5			4.5

Total number of acres irrigated: 10.0

PLACE OF USE: COMMERCIAL, same as IRRIGATION use

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before December 1, 1998.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. Construction of the well must comply with Idaho well construction standards.
7. The rate of diversion of water for irrigation under this right and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

JAN 26 1996

State of Idaho
Department of Water Resources

Permit To Appropriate Water

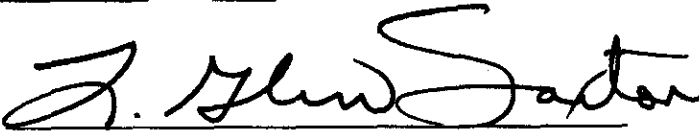
NO. 78-07382

CONDITIONS OF APPROVAL AND REMARKS

8. Two points of diversion are located within NENE, S35, T19N, R02E.
9. Commercial use for Bear Creek Lodge and cabins and to provide for fire protection.

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

17th day of November, 1995.


Karl J. Dreher, Director
for

NOV 24 1995

RECEIVED

NOV 15 1995

Ident. No. 78-07382

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Department of Water Resources

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: DEBRA DUNN 208-344-8393
Address: HC 33 BOX 3205
BOISE ID 83706
AND/OR
Name: MIKE DUNN 208-344-8393
Address: HC 33 BOX 3205
BOISE ID 83706

2. Source: GROUNDWATER Trib. to:
3. Location of Point of Diversion: NENE Sec. 35, Township 19N, Range 02E
ADAMS County

4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
IRRIGATION	04/15	10/15	0.200		
COMMERCIAL	01/01	12/31	0.150		

5. Total quantity to be appropriated is:
0.350 CFS (and/or) AF

6. Proposed diverting works:
- Description of ditches, flumes, pumps, headgates, etc.
TWO WELLS, STORAGE SYSTEM AND DISTRIBUTION SYSTEM
 - 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.
 - Proposed well diameter is 6 inches; proposed depth of well is 140
feet.
 - Is groundwater with a temperature greater than 85F being sought? NO
 - If well is already drilled, when?
Drilling Firm NOTE: STORAGE TO FILL IN 24 HRS. OR LESS CONTEMPLATED SO
Well was drilled for STORAGE AS BENEFICIAL USE N/A

7. Time required for the completion of the works and application of
the water to the proposed beneficial use is 3 year(s).

JAN 26 1996

8. Place of Use: IRRIGATION

TWN	RGE	SEC	ACRES	ACRES	ACRES	TOTAL
19N	02E	26	SESE	05.5		5.5
		35	NENE	04.5		4.5

Total number of acres irrigated: 10

Place of Use: COMMERCIAL, same as IRRIGATION use

9. a. Who owns the property at the point of diversion?
APPLICANT
- b. Who owns the land to be irrigated or place of use?
APPLICANT
- c. If the property is owned by a person other than the applicant,
describe the arrangement enabling the applicant to make this filing.

10. Remarks:

Commercial use for Bear Creek Lodge and cabins and to provide for
fire protection.

Two points of diversion located in NENE S35, T19N, R02E.

11. Map of proposed point of diversion and place of use attached? ☒

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.

See original
Applicant

Received by RBW Date 9/14/95 Time 11:30 Preliminary check by SL

* Fee \$ 300.00 Receipted by Jy #C033548 Date 9/14/1995

Publication prepared by AT Date 10-4-95 Published in Star News

Publication approved AT Date 11-8-95

* \$100 W.R. Appl.
\$200 d.p. Appl.

JAN 26 1996

Comments: Date: 9/ 18/ 1995 User-ID: SLESTER

Subject:
DRILLING PERMITS

Applicant proposes 2 wells in tract. Has obtained 2 drilling permits already but both not related to project. Application came from on-site visit by RBW in well construction inspection.

D.P. 78-95-W-0012 relates to "well site A" - this well will most likely be abandoned since appears will be probable contaminate site (down-gradient from drain field). D.P. 78-95-W-0018 is for applicants' home south of project site and also will not be used in this project. Therefore, applicants propose 2 other wells to be drilled & used for lodge, cabins etc. Project known as Bear Creek Lodge.

At this time, applicants filed appl. for another d.p.; RBW has 78-95-C-0021 (pending). See fax dated 9/14/95 for DEQ comments.

RECEIVED

JAN 26 1996

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant MIKE AND ~~DEBRA~~ DUNN Phone 344-8393
Post office address HC 33, BOX 3205, BOISE, IDAHO 83706

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

3. Location of point of diversion is NE $\frac{1}{4}$ of NE $\frac{1}{4}$ of NE $\frac{1}{4}$, Govt. Lot _____
Sec. 35 Township 19N Range 2E B.M. ADAMS County; additional
points of diversion if any: 2 pts. Same Q.A.

4. Water will be used for the following purposes:

Amount 0.15 CFS for COMMERCIAL purposes from JAN. 1 to DEC. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 0.20 CFS for IRRIG. purposes from APR. 1 to NOV. 1 (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) 0.35 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. 7 1/2 SUBMERSIBLE PUMP.
APPROX. 90,000 GALLONS ABOVE-GROUND FIRE STORAGE, ~~IN~~ ~~STEEL~~ ~~TANKS~~

might be tanks or ponds but w/ total capacity with 2
24 hr. fill rate *

b. Height of storage dam N/A 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 140 feet.

d. Is ground water with a temperature of greater than 85°F being sought? NO.

e. If well is already drilled, when? N/A; Drilling firm _____

Well was drilled for (well owner) _____

7. Time required for the completion of the works and application of the water to be proposed beneficial use is
3 years (minimum 1 year).

* per discussion w/ RBW who assisted
applicant in this matter - JL 4/18/95

Original
JAN 26 1996

8. Description of proposed uses (if irrigation only, go to item 9):
- a. Hydropower; show to 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 BEAR CREEK LODGE AND CABINS. FILL FIRE STORAGE TANKS.

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	
19N	2E	35	45																4.5
19N	2E	35	C																
19N	2E	26																5.5	5.5
19N	2E	26																C	

Total number of acres to be irrigated 10.0

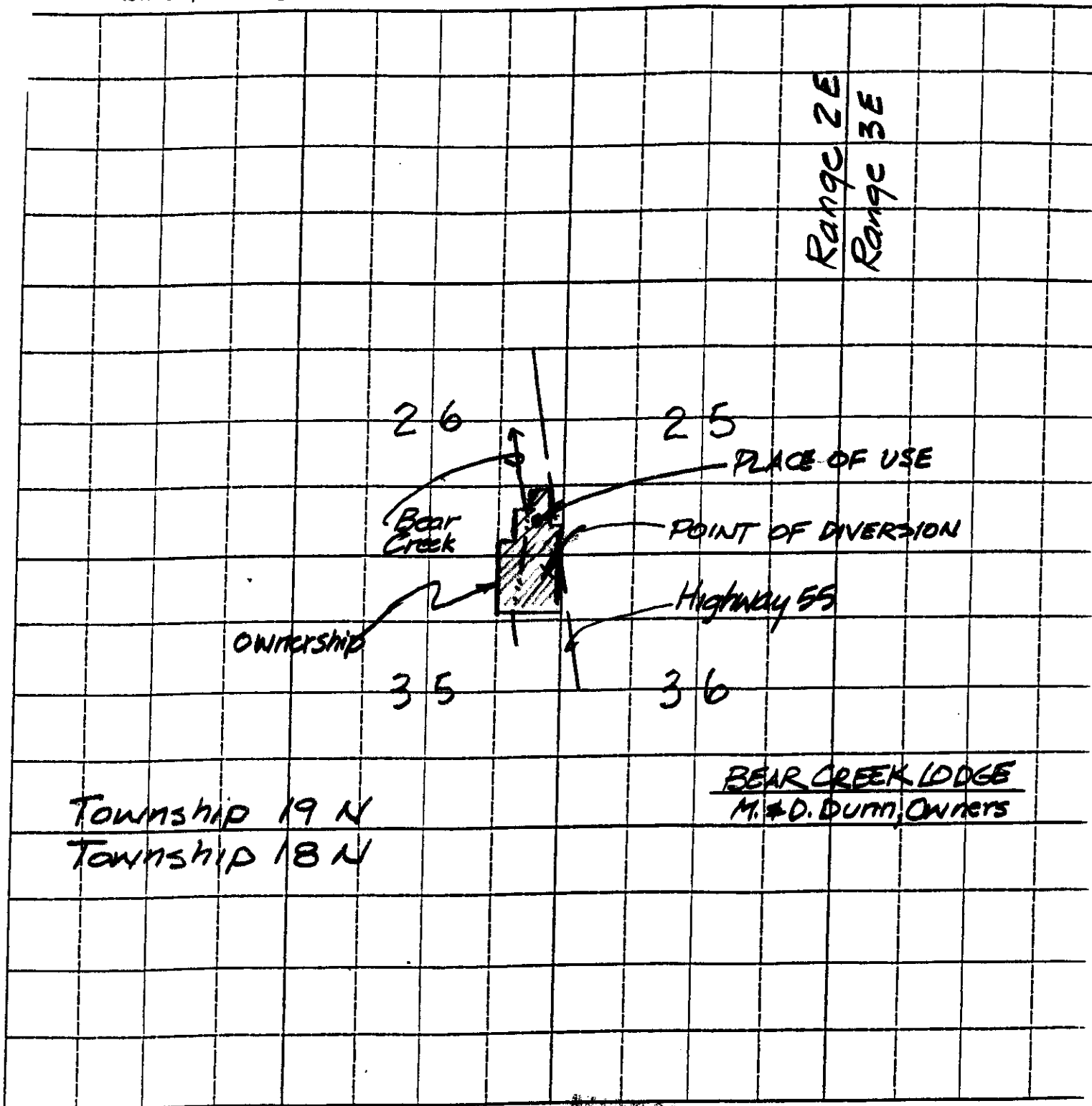
10. Describe any other water rights used for the same purposes as described above. _____
11. a. Who owns the property at the point of diversion? APPLICANTS.
- b. Who owns the land to be irrigated or place of use? APPLICANTS.
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: _____

[Handwritten signature]

JAN 26 1996

13. 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.

JAN 26 1996

[Signature]

(Applicant)

Received by PW Date 9-13-95 Time 11:30 A preliminary check by _____
Fee \$ 100.00 Received by J.Y. # C033548 Date 9-14-95
Publication prepared by _____ Date _____ Published in _____
Publication approved _____ Date _____

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:

JAN 26 1996

[illegible]

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

See enclosed drawings for water system					
The Main Lodge has: Kitchen					
office Bathroom					
2 outside hose bibs					
8 Rooms					
1 Suite (large Room)					
Hot tub					
(No laundry)					
There are also 2 Cabins					
w/ 2 units in each Cabin					
(4 Rooms total)					

Scale: 1" = NONE

☒ 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	W. E. order Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		7 1/2	5CLC 0076 4CTB	Goulds	Model 5CLC 4 stage

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: None Op. Press. 10-60 psi
50 psi on Press. Gage

57 Cond. 9 - Fire Protection is in WR 78-07383

E. NARRATIVE/REMARKS/COMMENTS

for

1. This permit was¹ Irrigation of 10 AC. and Commercial use at Bear Creek Lodge. There is no irrigation development other than some yard irrigation around the lodge from 2 these Bibs. The water use found was Commercial use in the lodge and 2 cabins. Irrigation would be up to 1/2 AC. for the yard.

2. Cond. 8 in the Permit indicates 2 points of diversion. There is only one well for commercial use for this permit. Another well for WR 78-07383 is located between the lodge and shop building and is a separate system used for fire protection and recreation at a nearby pond. Apparently, the fire protection well (78-07383) was drilled to provide domestic water for the lodge, but it did not meet EPA/DEQ Code for distance from the Septic System. The well for this permit was then drilled, and the first (fire) well converted to Fire and Rec. use under 78-07383. Only one P/D.

3. There is a third well (78-95-W-0012-000) used for domestic water at a home located south of the lodge. The fire well is 78-95-W-0018-000.

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

For Commercial only

4. Apparently the Dumas filed for 10 AC. of irrigation because that is about the size of their property.

+ 1/2 AC.
yard irrigation

$$Q_T = 0.26 \text{ cfs} > 0.17 \text{ cfs (Rec.)}$$

$$Q_P = 0.31 \text{ cfs}$$

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: None - Theoretical Cal. + Pump Curve + Pump Test

@ 60 psi

$$Q_T = \frac{(8.8)(7.5 \text{ HP})(70\%) }{39' + (60 \text{ psi}) \left(\frac{34'}{14.7 \text{ psi}} \right)} = 0.26 \text{ cfs}$$

Pump Curve:

$$\text{TDH} = 39' + (60 \text{ psi}) \left(\frac{34'}{14.7 \text{ psi}} \right) = 178'$$

$$Q_P = 138 \text{ Gpm} = 0.31 \text{ cfs}$$

5-28-96

Pump Test:

$$Q = 132 \text{ Gpm} = 0.29 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{Commercial } 0.15 \text{ cfs} + 0.02 \text{ cfs yard Irrigation}$$

2. Volume Calculations for Other Uses: Commercial + 1/2 Ac. yard irrigation

$$1) \text{ Rooms} - (13 \text{ rooms}) \left(\frac{60 \text{ GPD}}{\text{Rm}} \right) = 780 \text{ GPD}$$

$$2) \text{ Kitchen} - \left(\frac{3 \text{ GPD}}{\text{Guest}} \right) \left(\frac{30 \text{ Guests}}{\text{Day}} \right) = 90 \text{ GPD}$$

$$3) \text{ Office Bathroom} - \left(\frac{40 \text{ GPD}}{\text{Every 2 Weeks}} \right) = 40 \text{ GPD}$$

$$4) \text{ Hot Tub (Fill + Change/Weeks)} = 105 \text{ GPD} \pm$$

H. RECOMMENDATIONS

1500 Gal. / change

1015 GPD

Commercial =

$$= (1015 \text{ GPD}) \left(\frac{365 \text{ Days}}{\text{Ann}} \right)$$

$$\left(\frac{\text{AF}}{325,850 \text{ Gal.}} \right)$$

$$= 1.14 \text{ AFA}$$

$$+ 0.60 \text{ yard Irrig.}$$

$$1.74 \text{ Allow } 2.0$$

$$\text{Annual Volume } V \text{ (afa)}$$

$$\text{Total}$$

1. Recommended Amounts

Beneficial Use

Period of Use
From To

Rate of Diversion
Q (cfs)

Annual Volume
V (afa)

Commercial
(yard irrigation)

0.15

1.4

Total

(0.02)

(0.6)

Commercial: Totals:

0.17

2.0

2. Recommended Amendments

___ Change P.D. as reflected above

___ Add P.D. as reflected above

☒ None

___ Change P.U. as reflected above

___ Add P.U. as reflected above

___ Other

I. AUTHENTICATION

Field Examiner's Name

Don Turner

Date

12-6-99

Reviewer

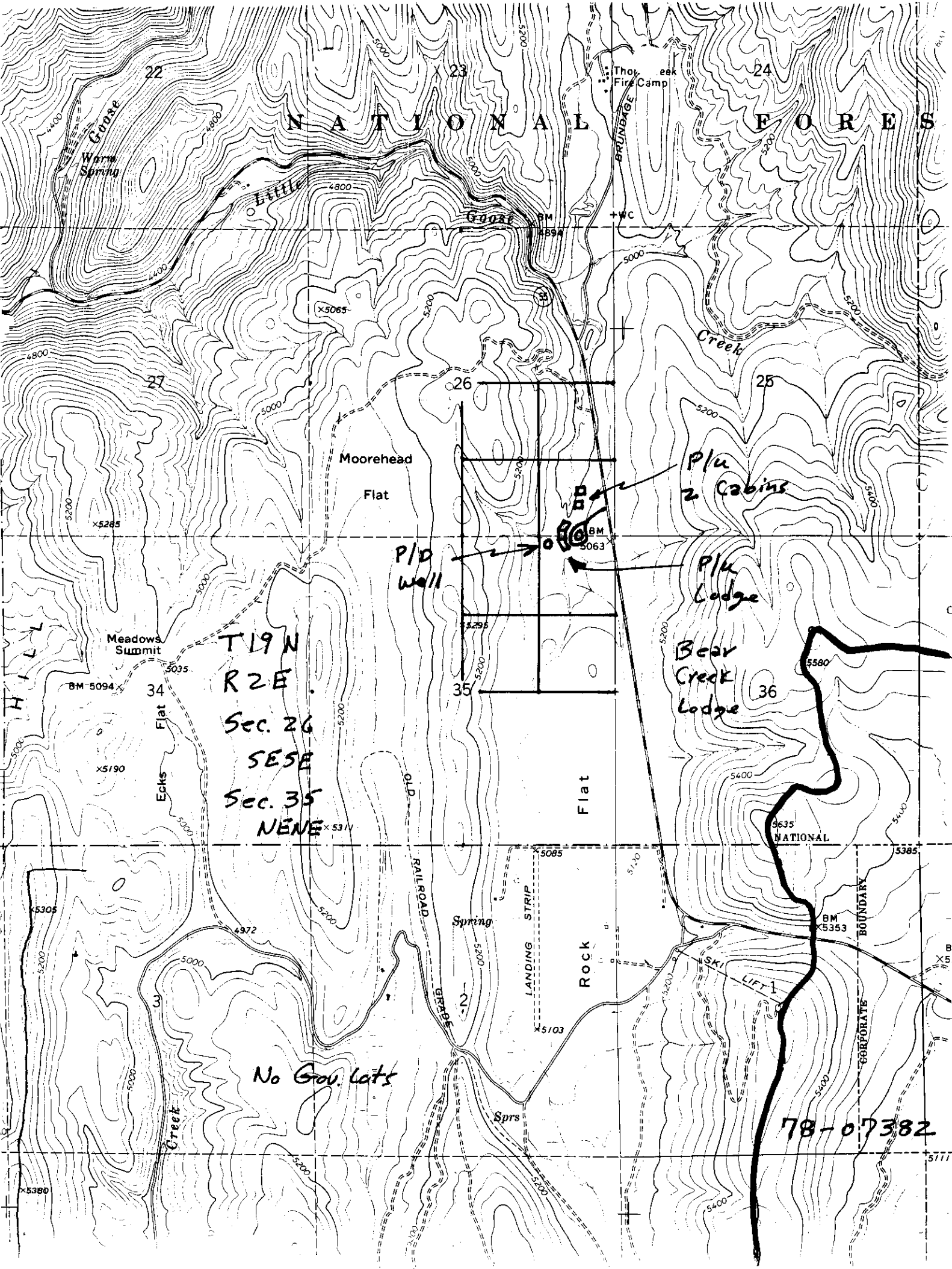
Date

SEAL

No other

irrigation.

Increase Commercial
Div. Rate ~~to~~ To
include yard
irrigation.



PROFESSIONAL ENGINEER
REGISTERED
8103
6-21-96
STATE OF IDAHO
SCOTT ACKER

WELL

P/D

78-07382

RECORD DRAWINGS

This record drawing has been prepared for improvements designed and constructed by others, and is not intended to demonstrate or represent the quality of design or installation. It has been prepared, in part based upon information furnished by others. While this information is believed to be reliable, we cannot assure its accuracy, and thus are not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

Date: 21-JUN-96

TOOTHMAN-ORTON ENGINEERING CO.

SITE PLAN SCHEMATIC

TOOTHMAN-ORTON ENGINEERING COMPANY

9777 CHINDEN BLVD.
BOISE, ID 83714

DATE: 21-JUN-96

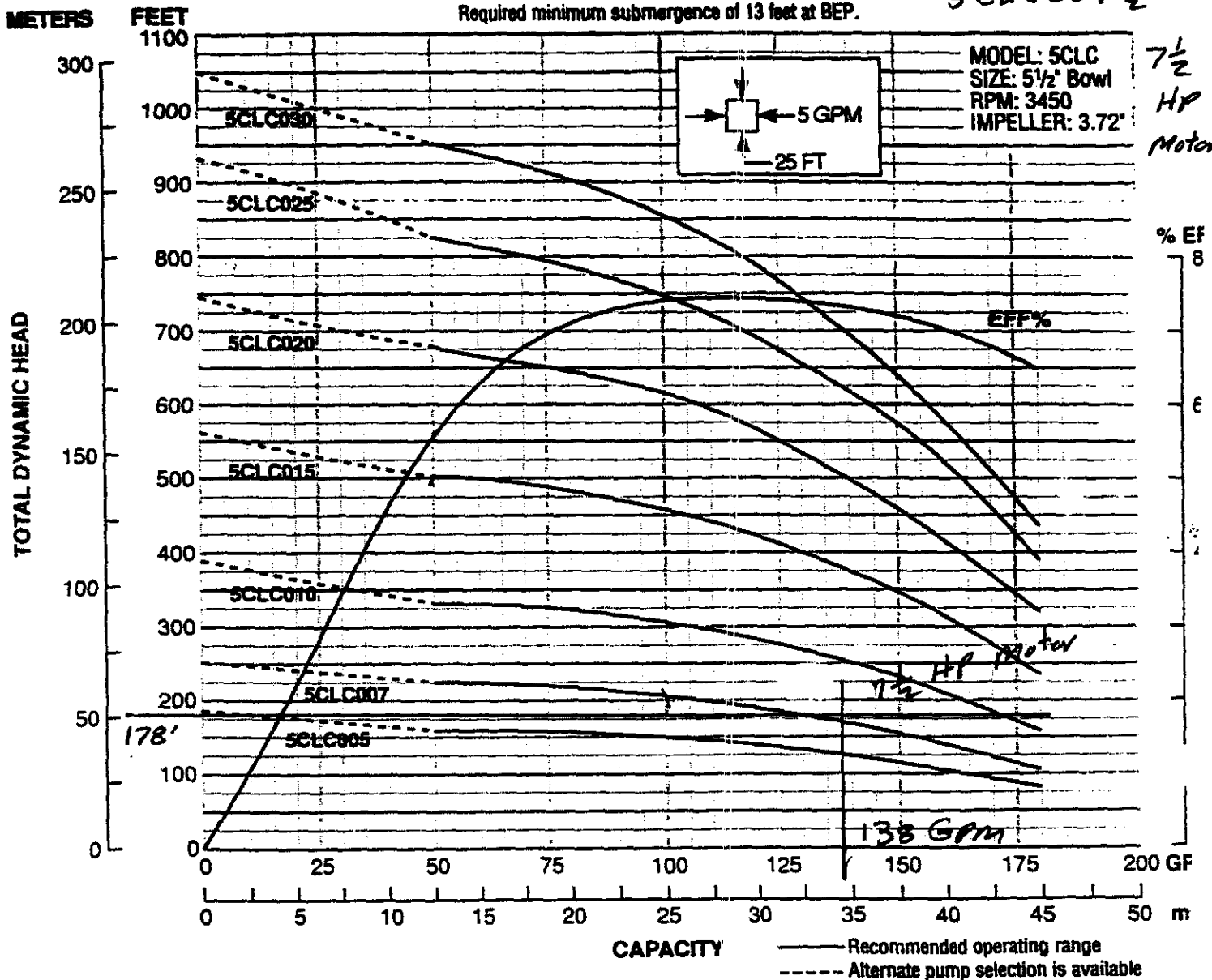
E-FILE: ASBSCHEM.DWG

McCALL AIR TAXI BLDG.
McCALL, ID 83638

PROJECT NUMBER: 95007

SHEET 1 OF 5

5CLC007 1/2



Dimensions and Weights

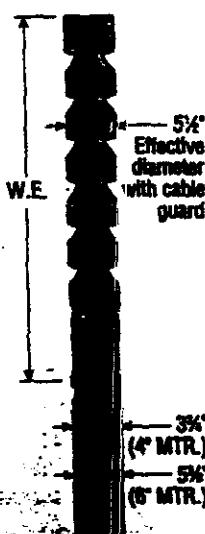
HP	Stages	W.E. Order Number	W.E. Length	W.E. Wt. (lbs.)
5	3	5CLC00544CTB	25 1/4	73
		5CLC00564CTB	28 1/4	75
7 1/2	4	5CLC00744CTB	30 3/4	86
		5CLC00764CTB	32 3/4	88
10	6	5CLC01064CTB	42 3/4	114
15	9	5CLC01564CTB	56 3/4	153
20	12	5CLC02064CTB	71 1/2	192
25	15	5CLC02564CTB	85 1/2	231
30	17	5CLC03064CTB	95 1/4	257

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)

PLEASE NOTE:

- Order motors separately.
- For intermediate horsepower pumps consult factory.
- Solid line is recommended operating range. The dotted line (---) signifies an alternate pump selection is available.
- Please specify all options changes in W.E. order number.

4" NPT DISCHARGE CONNECTION

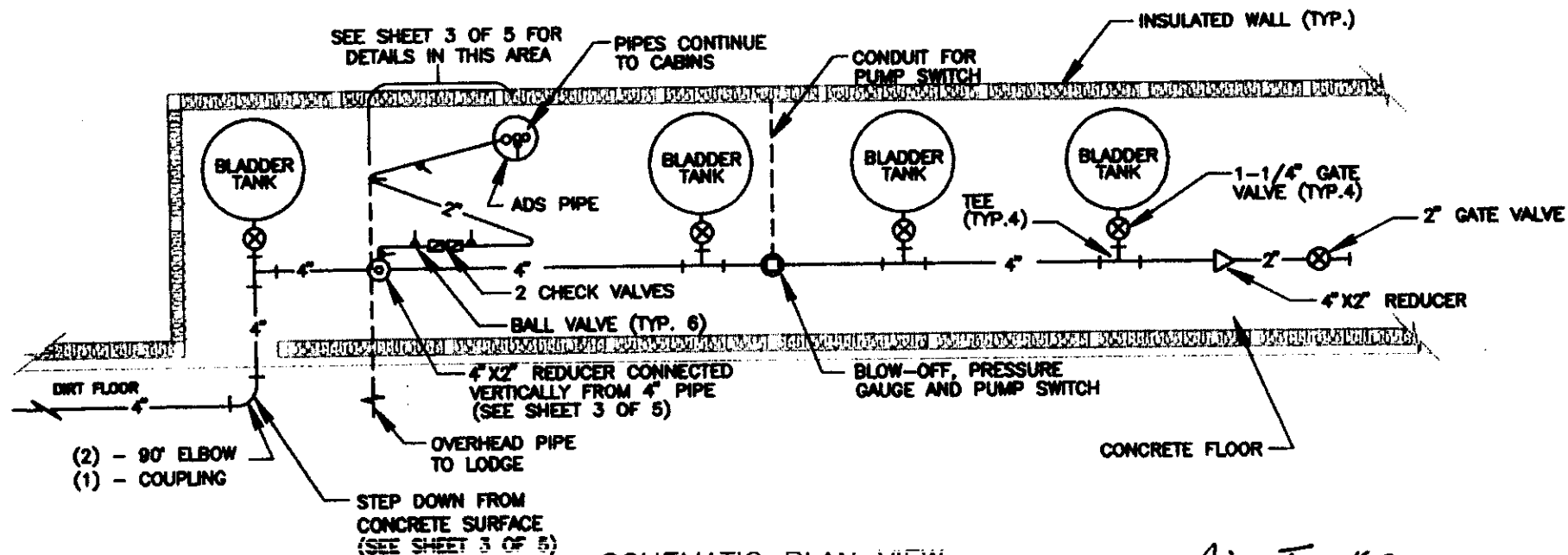


Materials of Construction

Part Name	Material
Shaft	ASTM A582 TYPE 411
Coupling	ASTM A582 S41600 C
Suction Adapter	ASTM A48 CL 40
Discharge Bowl	ASTM A48 CL 308
Bronze Bearings	ASTM B584
Discharge Bowl Bearing	ASTM B584
Taperlocks	ASTM A108 GR 101
Bowl	ASTM A48 CL 308
Upthrust Collar	ASTM A276 S4140
Impeller	ASTM B145-4A
Fasteners	SAE J429 GR 8
Cable Guard	ASTM A240 S 304
Suction Strainer	ASTM A240 S 304

78-07382

DOMESTIC WATER SYSTEM BEAR CREEK LODGE



SCHEMATIC PLAN VIEW
UNDER LODGE

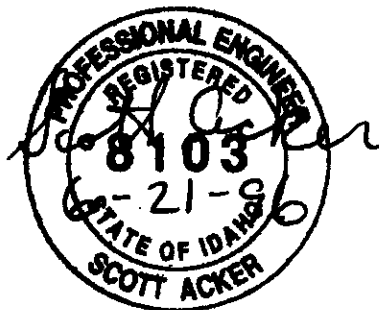
N T S

*Air Tanks
in basement*

RECORD DRAWINGS

This record drawing has been prepared for improvements designed and constructed by others, and is not intended to demonstrate or represent the quality of design or installation. It has been prepared, in part based upon information furnished by others. While this information is believed to be reliable, we cannot assure its accuracy, and thus are not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

Date: 21-JUN-96
TOOTHMAN-ORTON ENGINEERING CO.



78-07382

TOOTHMAN-ORTON ENGINEERING COMPANY

9777 CHINDEN BLVD.
BOISE, ID 83714
DATE: 21-JUN-96
E-FILE: WATSCHM.DWG

McCALL AIR TAXI BLDG.
McCALL, ID 83638
PROJECT NUMBER: 98007
SHEET 4 OF 6

BEAR CREEK LODGE
PUMP TEST
MAY 28, 1996

Pump Test by
Toothman - ORTON
Engineering Co.
McCall, ID

TIME	DRAWDOWN (ft)
11:40 a.m.	39
11:42 a.m.	59
11:44 a.m.	61
11:46 a.m.	61
11:48 a.m.	58
11:50 a.m.	59
12:00 p.m.	58
12:15 p.m.	59
12:30 p.m.	59
12:45 p.m.	59
1:00 p.m.	59
1:15 p.m.	59
1:30 p.m.	59
1:45 p.m.	59
2:00 p.m.	59
2:15 p.m.	59
2:30 p.m.	59
2:45 p.m.	59
3:00 p.m.	59
3:15 p.m.	59
3:30 p.m.	59
3:45 p.m.	59
4:00 p.m.	59
4:15 p.m.	59
4:30 p.m.	59
4:45 p.m.	59
5:00 p.m.	59
5:15 p.m.	59
5:30 p.m.	59
5:45 p.m.	59

$$Q = 132 \text{ GPM} \\ = 0.29 \text{ cfs}$$

NOTES:

1. STATIC WATER LEVEL IS AT A DEPTH OF 39'.
2. FLOW WAS 132 GPM.

78-07382

IDAHO DEPARTMENT OF WATER RESOURCES
WELL INSPECTION FORM

Tag A0004298

1. DRILLING PERMIT NO: 78-95-C-0021-022 OTHER APPLICABLE NO: 78-07382
2. OWNER: Mike & Debra Dunn Phone: (208) 634-3551
Address: 3492 Hwy 55, PO Box 8, New Meadows, ID
83654-0008
3. WELL LOCATION: Twp 19N, Rge. 2E, Sec. 35, NE 1/4 NE 1/4
County Adams (Provide sketch map and photo on reverse.)
4. DRILLER: Menasco Drilling Lic. No. 391
When Drilled? 10-20-95 to 11-5-95
5. WELL CONSTRUCTION:
Casing Diameter 6 inches Water tight cap? ☒ Yes ☐ No Access Port: ☒ Yes ☐ No
Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____
Depth of Casing 100 ft. Method Drilled Air Rotary
Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____
Control Valve? ☒ Yes ☐ No Pressure Gauge: ☒ Yes ☐ No
Condition of Piping and Valving Good - New
Auger to a depth of _____ ft. Evidence of Annular Seal ☒ Yes ☐ No
Are there obvious construction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)
6. HYDROLOGIC INFORMATION:
Depth to Static Water 25 ft. Water Temperature 54 °F
Flowing Artesian ☐ Yes ☒ No Pressure: _____ (psi)
Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____
7. WELL USE:
☐ Domestic ☐ Irrigation ☐ Stock
☐ Test ☐ Municipal ☐ Industrial
☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used
☒ Other: Commercial

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS: This well provides domestic water
for Bear Creek Lodge and 2 Cabins.

Dan Tomich, Water Rights Examiner 7-7-99
Signature of Dept. Representative & Title Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:



1 of 3

P/D

Well

Plu

Bear

Creek

Lodge



P/D

Air Tanks,

Press. gas,

Press.

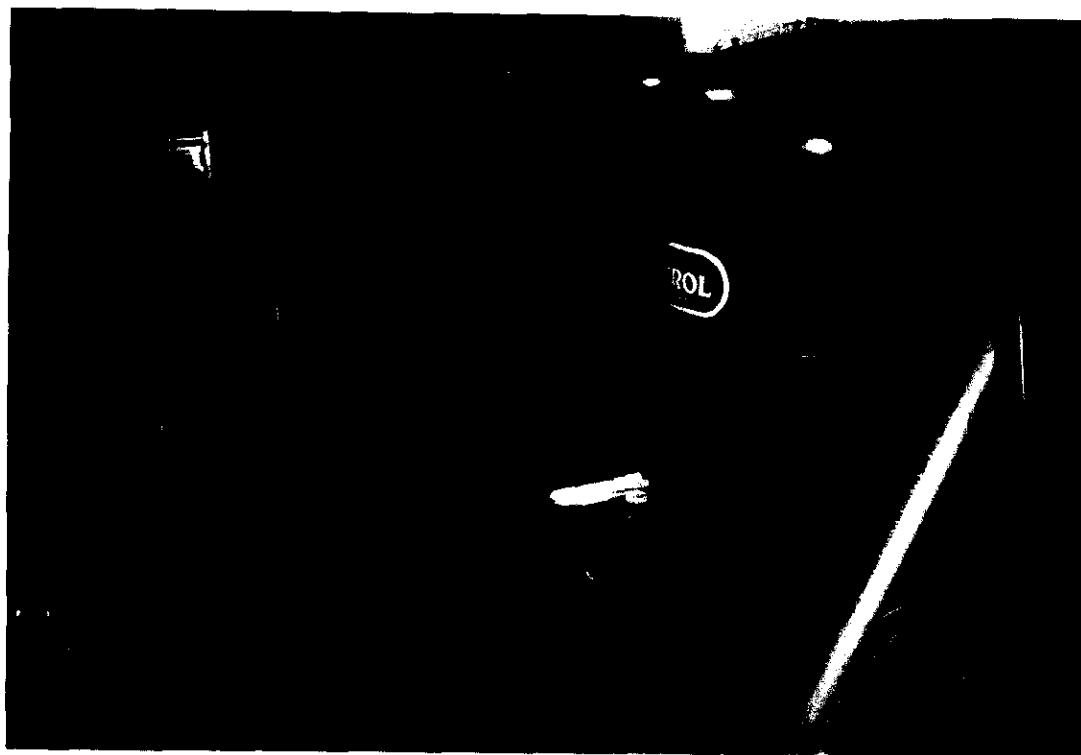
switch,

etc.

in

basement

of Lodge.



78-07382

2 of 3



Plu

Lodge



Plu

Lodge

78-07382

3 of 3



Plu
Cabins.

2 units
in each
Cabin



Plu
one of
2 Horse
Bibs at
Cedar
for yard
irrigation.

78-07382

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 78-07382 Reviewed by Jay Date 11-12-98

GENERAL CONSIDERATIONS

TYPES OF USE

yes Name same as permit?

Irr., comm.

NO Address same as permit?

yes Proof timely received?

Correct Uses? yes

If not, complete calculation below.

SOURCE OF WATER

 Surface water source

✓ Ground water source

yes Drilling permit required?

NO Copy in the file?

Drilling Permit No. 78-95-0-0021-000

200- Amount paid for permit

yes Correct?

yes Well log in the file?

LICENSE EXAMINATION FEE

MEASURING DEVICE

yes Required?

NO Required?

100- Amount Submitted

1 Installed?

yes Correct?

 Waiver requested?

PRIORITY CALCULATION

Date proof received

Date proof due

No. of days late

Priority Date

New Priority Date

DEFICIENCIES OR ACTION ITEMS

Proof Acceptable

DATA ENTRY

New Address P.O. Box 8
New Meadows, 83654

Proof Made 10-26-98



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

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

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

November 12, 1998

Mike and Debra Dunn
PO Box 8
New Meadows ID 83654

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 78-07382

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.

Be advised that Section 42-248, Idaho Code, requires you or the owner of this water right to maintain current ownership and address records on file with the department. Forms to file a change of ownership of a water right and/or a change in the address of the water right owner are available from any department office.

If you have questions concerning the field examination, please contact the **WESTERN** Regional Office of the department in Boise at (208)334-2190.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary, Water Allocation Bureau

c: IDWR - Regional Office

MICROFILMED

NOV 27 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

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

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

October 20, 1998

DWD Enterprises
PO Box 8
New Meadows ID 83654

RE: Water Right Permit No. 78-07382

Dear Permit Holder:

One of the conditions of approval of the above referenced water right permit was that proof of the extent of beneficial use must be submitted to this office on or before December 1, 1998. The forms were originally sent by certified mail on September 30, 1998, to the name and address listed on the permit (Mike and Debra Dunn), but they were returned undelivered by the postal service.

It has come to our attention that you may own the property this water right pertains to. If you now have an interest in the property and the water right, the former property owner can assign the water right to you by completing the enclosed assignment form. Additionally, I have enclosed a copy of the water right permit for your reference.

Please read the original enclosed letter, complete the necessary forms and return them to this office on or before the proof due date of December 1, 1998. The department can only accept the proof due notice from you if the former property owner has assigned you the water right or you can show some claim to the property.

If you have any questions concerning this matter, please contact me at (208)327-7953.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary, Water Allocation Bureau

Enclosures

MICROFILMED

NOV 27 1998

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
01 North Orchard Street
Boise, Idaho 83706-2237

CERTIFIED

Z 238 915 272

MAIL

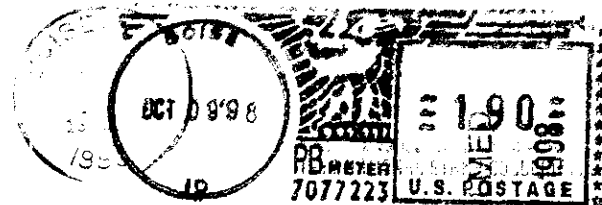
RETURNED TO
SENDER

Inclamed _____
Unknown _____
Insufficient Address _____
Moved, Left no address _____
No such street _____
Undeliverable as addressed _____
POSTAGE DUE _____
CENTS _____

DWD Enterprises
PO Box 8
New Meadows
83654

PER ASSESSOR
10-16-98

FOE



RECEIVED

OCT 14 1998

Department of Water Resources

September 30, 1998

MIKE DUNN
DEBRA DUNN
HC 33 BOX 3205
BOISE ID 83706

PROOF DUE NOTICE

RE: PERMIT NO. 78-07382

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 December 1, 1998. (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.

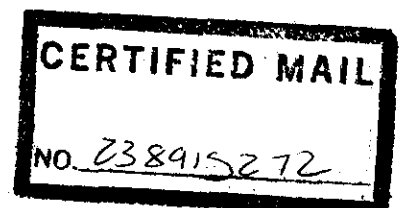
SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

MICROFILMED

NOV 27 1998



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :
☒ Air ☐ Flowing Artesian

1. DRILLING PERMIT NO. 78-95-C-0021-000
Other IDWR No. 78-0738.2

2. OWNER:
Name Mike & Debra Dunn
Address HL 33 Box 3205
City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W E S
Twp. 19 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 35 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County ADAMS
Lat: : : Long: : :
Address of Well Site Hwy 55
WEST of Little Lake Hill City McCall
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Commercial (Lodge)

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
<u>Cement</u>	<u>0</u>	<u>104.578</u>	<u>578</u>	<u>Overbore.</u>

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>1</u>	<u>100</u>	<u>250</u>	<u>Steel</u>	☒	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

25 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 160 ft. Describe screens or control devices: WELL CAP

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal./min.	Drawdown	Pumping Level	Time
<u>150</u>	<u>---</u>	<u>120'</u>	<u>6 Hrs.</u>

Water Temp. 54° Bottom hole temp. _____

Water Quality test or comments: Clear

140/160 Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
<u>9.5</u>	<u>0</u>	<u>1</u>	<u>Clay + Boulders</u>			
<u>9.5</u>	<u>1</u>	<u>20</u>	<u>Broken Basalt</u>			
	<u>20</u>	<u>34</u>	<u>"</u>			
	<u>34</u>	<u>43</u>	<u>Solid Basalt</u>			
	<u>43</u>	<u>45</u>	<u>Basalt</u>			
	<u>45</u>	<u>55</u>	<u>Solid Basalt</u>			
	<u>55</u>	<u>65</u>	<u>Fractured Basalt</u>			
	<u>65</u>	<u>77</u>	<u>Yellow Clay/Claystone</u>	X		
	<u>77</u>	<u>80</u>	<u>Basalt</u>			
<u>9.5</u>	<u>80</u>	<u>128</u>	<u>Solid Basalt</u>			
<u>9.5</u>	<u>128</u>	<u>130</u>	<u>Fractured Basalt</u>			
	<u>130</u>	<u>147</u>	<u>Yellow Clay/Claystone</u>	X		
<u>9.0</u>	<u>147</u>	<u>165</u>	<u>Fractured Basalt</u>	X		

RECEIVED
DEC 12 1995
RECEIVED
DEC 15 1995
WATER RESOURCES
WESTERN REGION
Department of Water Resources

Completed Depth 165' (Measurable)
Date: Started 10-20-95 Completed 11-5-95

13. DRILLER'S CERTIFICATION

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

Firm Name Menaslo Drilling Firm No. 391

Firm Official [Signature] Date 11-20-95

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)



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

November 20, 1995

MIKE DUNN
DEBRA DUNN
HC 33 BOX 3205
BOISE ID 83706

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 78-07382

Dear Permit Holder:

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

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed.

The Department will send you a "Proof Due Notice" approximately 60 days prior to the above referenced date requesting you to file either a Proof of Beneficial Use form or a Request for Extension of Time form.

If a well has not already been constructed you are required to obtain a "drilling permit" from the department. The right to drill a well is not a part of this permit to appropriate water.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosures

RECEIVED
JAN 26 1996

APPLICATION FOR PERMIT
STATE OFFICE REVIEW
by Cindy Zimmerman

No.: 78-7382 Name: Dunn Date: 11/16/95 Ad OK? ✓
Correct Fee? ✓ Receipt #: C033548 Priority: 9/14/95 ✓ Gvmt Lts: ✓

AREA OF CONCERN? - No/Yes S/C Mor GWMA Trust/Non-trust
PROTESTED: - 020(Protest Agr) or W19(See Final/Prelim Order)

SYSTEM COMPLETED:

Yes/proof filed - NA
1 year/no proof - P16
+1 year - 26A-P17

GROUNDWATER: <✓ FLO-CH>

+ 0.2 cfs - 01M
=/- 0.2 cfs - No MD
=/+ 5 a. - 01M, 065(if GW use SW 1st)

Drilling Permit:

Existing well - ~~NA~~ (pre 7/1/87)
Included w/permit - Permit No. , P99
No WD permit? - 046-46B-P23 (post 7/1/87)
irr. in WD - P05 (new well)

~~SURFACE WATER~~ <✓ FLO-CH> (Surface water that doesn't sink is regulated):

Water District(~~dem~~) - 005 (req) WD # <SEE MAP & LISTING>
+ 0.2 cfs - 028(may report)-01J(meas dev)-P08
=/- 0.2 cfs - 028(may report)-01H(lock dev)-P01 or No MD
=/+ 5 a. irr. - 028(may report)
~~In-WD~~ + 0.2 cfs - 01M or No MD (in-stream)
- 0.2 cfs - No MD
=/+ 5 a. irr. - 01M

RIVER BASINS (*Surface water):

Snake R (01) - 11A-P04, NA
(02/03-irr) - 007-P07 (w/remark WB9-↑ Weiser), NA
Boise R (63) - 05A (if WD), 11E (not 42-111 use), NA
Payette R (65) - 064(regulated uses), 047-P04(Payette Lake), NA

USE:

Domestic (surface) - 021(Boise R ↑ L Peak); 27A(Payette R); NA
Fish Propagation - 07A-042(rq)-010/06A/09E(WQ)-P10; 044(N 1000 Spr)
Irr <POU> =/- 5 a - 057 (0.03 cfs/A)
+ 5 a - 03A (0.02 cfs/A)
Mining - 054 (req) & 06A/010/09E-P10
Power - 08A-17K-025-027-01M-01F(P19)-09E(P10);
+25 cfs-P18; 17G(FERC) or 17M(FERC); 18B-P09
Storage(✓ 3 compo.) - 18A(multi MD in WD), 18B-P09 (+10' dam), NA

LOCATION:

Boise Front LoGeo - 058 (-85° GW temp only)
In-stream dev. - P52 (stream channel alteration)
Irr Dist/Canal Co. - 023 (Twin Falls area)
Swan Falls Flag - B <SEE CODE CHART>
Trust - 051-052-053-P74 (Consumptive Uses), NA
Non-Trust <1> - 048-049 (Consumptive Uses), NA

OWNERSHIP: Non-land owner - 004 (PD/PU)

OTHER CONDITIONS:

STANDARD REMARKS:

① Comm/Bear Cr. Lodge & cabins, & fire prot.

BENEFICIAL USE DUE:

12-1-1996

COMMENTS:

1/95

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: SLDATE: 9/18/95APPLICATION: 78-07382REQUIRED INFORMATION

Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.)

Address:

Source: (See USGS Quad for names of water sources)

Point of Diversion: (10 acres for spring, lot & block descriptions for Subdivisions, local name)

County:

Quantity: (flow and/or volume)

Period of use:

Nature of proposed use: (Include description of use)

Description of diverting works:

Time required for beneficial use of water:

Place of use or acres irrigated:

Map: (show T, R, S, QQ &/or QQQ)

Subdivision plat: (for > 1 home in restricted area. ≥ 5 homes in non-restricted area)

Signature: (If applicant is corp., partnership, or municipality, title of signatory is required)

Fee:

Yes ☐ No* In form to receipt:

Gov't. Lots:

☒ P/D☐ P/UADDITIONAL INFORMATION

YES NO

Overlapping place of use: (Describe source & relationship to present application on the back.)

Overlapping point of diversion:

Field check required: Field check by: _____

Field report attached:

Critical groundwater area:

Groundwater management area:

1992 moratorium:

Copy to SCA staff: (perennial stream, non-pump diversion)

Copy to Dam Safety staff: (for any storage)

Basin 63 mitigation plan: (where ground water replaces surface water for irrigation, request additional information &/or mitigation plan to address reduced aquifer recharge)

Send power requirement letter:

Send fish farm requirement letter:

Power residency affidavit:

Power efficiency form:

Diversion greater than 5 cfs or 500 af or irrigation greater than 200 acres: (If yes, attach Large Diversion supplementary analysis sheet.)

*REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

DATE REQUESTED: _____

Additional information on reverse side:

RECEIVED
NOV 15 1995
Department of Water Resources

PROCESSING

APPLICATION

78-07382

YES NO

☒ ☐
☒ ☐
☒ ☐

In form for advertising:

Statewide advertising: (> 10 cfs &/or 1000 af)

Fee amount, receipt number and date recorded on application:

SEND COPIES TO

YES NO

☐ ☒
☐ ☒
☐ ☒
☐ ☒
☐ ☒

I.D. Health and Welfare

I.D. District Health

I.D. Fish and Game

I.D. Lands

Adjudication Bureau

YES NO

☐ ☒
☐ ☒
☐ ☒
☐ ☒

U.S. BLM

U.S. Forest Svc.

Water Dist. #

Other

FINAL REGIONAL PROCESSING REVIEW

YES NO

☒ ☐
☒ ☐

Affidavit of publication received:

Application published correctly: If not, record action taken.

Publication dates and paper recorded on application:

Protests received. Final date for protest

Protest dates, resolution of protest recorded on application:

Recommendations attached: *Approved, ECR*

Measuring device required:

Measuring port required:

Water delivered by water master? District #

Special conditions of approval or cover letter:

26A (Allow 3 yrs), 46

See below for additional information

Recommended Date or Priority 9/14/95

Recommended by: *Dor*

Date

11/12/95

STATE OFFICE REVIEW

See below for additional information. By

Date

ADDITIONAL INFORMATION

NOTE: Comment into from DEQ - see FAX of 9/14 from
 Bill Freeman to RBW ; RBW has 78-95-C-0021
 (pending) it need to disinv.

Publisher's Affidavit of Publication

STATE OF IDAHO

} .SS

County of Valley

I, Ramona A. French, being duly sworn and say, I am the receptionist of The Central Idaho Star-News, a weekly newspaper published at McCall, in the County of Valley, State of Idaho; that said newspaper is in general circulation in the county of aforesaid and is a legal newspaper; that the NOTICE OF APPLICATION FOR WATER RIGHTS, a copy of which is enclosed hereto and is a part hereof, was published in said newspaper once a week for two consecutive weeks in the regular and entire issue of every number there of during the period of time of publication, and was published in the newspaper proper and not in a supplement; and that publication of such notice began October 5, 1995 and ended October 12, 1995.

Ramona A. French
Subscribed and sworn before me this the 12th day of October, 1995.

STATE OF IDAHO

COUNTY OF VALLEY

On this 12th day of October, in the year of 1995, before me, a Notary Public, personally appeared Ramona A. French, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Tom Grote
Tom Grote

Notary Public for Idaho
Residing at McCall, Idaho
Commission Expires: 1999

RECEIVED
NOV 01 1995
WATER RESOURCES
WESTERN REGION

NOTICE OF APPLICATION FOR WATER RIGHT

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

78-07382

DUNIT, DEBRA

DUNIT, DEBRA

HC 33 BOX 3205

PO BOX 314179

Source: GROUNDWATER

Diversion Pt. NONE Sec 50 T 19N R 02E

in ADAMS County

Use: IRRIGATION

(0.200 CFS)

COMMENTS:

(0.200 CFS)

Total Diversion: 0.390 CFS

Date Filed: 9/13/1995

In ADAMS County

ADAMS COUNTY

ADAMS COUNTY

ADAMS COUNTY

Petition will be subject to all prior water
rights. Petents may be informed based on the
critique of Sec. 48-202A, Idaho Code. Any
protest against the approval of this application
must be filed with the Director, Dept. of Water
Resources, Western Region, 2735 Airport Way,
Boise, Idaho 83705 together with a protest fee
of \$25.00 on or before OCTOBER 23, 1995.
The petitioner must also send a copy of the
protest to the applicant.

KARL J. DREHER, Director 2/10/12

JAN 26 1996

78-07382

DUNN, DEBRA
DUNN, MIKE
HC 33 BOX 3205
BOISE, ID 83706

Source: GROUNDWATER

Diversion Pt: NENE Sec 35 T 19N R 02E in ADAMS County.

Use: IRRIGATION	(	0.200 CFS)
COMMERCIAL	(	0.150 CFS)
Total Diversion:	(	0.350 CFS)

Date Filed: 9/13/1995

In: ADAMS County	
T19N R02E S26	SESE
S35	NENE

10.0 ACRES TOTAL

RECORDED

SEP 26 1996

BEAR CREEK LODGE

78-07382

DOMESTIC WATER WELL SPECIFICATIONS

WELL PUMP AND APPURTENANCES

A. General

Contractor shall supply all equipment, labor and materials to provide for a complete system as shown in this specification and related drawings.

All equipment supplied under this section shall be UL approval and installation shall meet all local, state, or federal requirements.

- B. Contractor's base bid shall include furnishing and installing the pump listed below. However, the pump shall not be ordered until after the well is drilled, tested and accepted by the owner. If the pump specifications are changed from what is listed here, the contractor will be credited or debited the net change in invoice amount plus 15% for overhead and profit.

Well Pump:

Submersible Turbine

7-1/2 HP - 65 GPM @ 270' TDH

Power: Single Phase, 230 V, 60 Hz

Assumes: 1) Pump setting = 120'
2) 6" column
3) Well = 140' deep

- C. Pump installation shall include setting the pump and pump column, installing well seal, 6-inch pipe, check valve, pitless adaptor and miscellaneous appurtenances. The pump controls will be installed in a pumphouse and the pumphouse will be constructed by others.
- D. The pump column shall include a check valve located within 5 feet of the top of the pump bowls.
- E. All wiring shall be placed in rigid conduit and placed below grade per applicable code requirements.

WELLS

- A. General. The work contemplated in this section comprises the drilling of one public water supply well. The work includes, but is not limited to, drilling, installation of casing and screen, well development, and testing for yield and drawdown. Depth of the well is estimated at 140 feet.

DEQ COMMENTS
from BILL FREEMAN, faxed
TO RBW 9/14/95.

RECEIVED
JUN 26 1996

It is the intent of these Specifications that the Contractor shall furnish all necessary labor, equipment, and materials and he shall perform all operations required for the completed water supply well. It is expected that several items in the Schedule of Items and Prices will be adjusted according to the actual conditions encountered during drilling. Said adjustments shall be agreed to in writing by the Owner and Contractor.

- B. Specifications. The Specifications under which it is proposed to execute this work consists of the information bound herewith.
- C. Estimated Quantities. The estimate of quantities of work to be done is approximate only and is solely for the basis of estimating the total well construction costs.
- D. Conditions of Work. The Contractor has informed himself of the conditions relating to the work and it is assumed that he has inspected the site of the work and has made himself familiar with the Specifications. Failure to do so will not relieve the Contractor of his contractual obligation to complete the work in accordance with the Specifications. The Contractor must also inform himself on all laws and statutes relative to the execution of the work, employment of labor, protection of public safety and private property, right-of-way and access to the work, and similar requirements.

This well will be drilled to accommodate an 6" submersible pump capable of pumping 65 gpm. (Paragraph B in Section WELL PUMP AND APPURTENANCES.)

Culinary water is not available at the site. The Contractor will be responsible for providing drilling water, as may be required by his selection of drilling method.

- E. Licenses. The Contractor shall be a duly licensed well drilling contractor within the existing provisions of the Idaho State Laws and work under a current Idaho Public Works License. Work shall not commence until a drilling permit has been obtained from the Department of Water Resources.
- F. Scope. This section covers the complete drilling, casing, screening, development, and testing of the water supply well. As stated herein, the estimated quantities are only approximate. The Owner reserves the right to increase or decrease individual items in such amount as may be, in his sole judgement, to his best interest depending upon conditions encountered or observed during drilling.
- G. Location. The general location of the well is shown on the vicinity map. The exact location of the well will be staked in the field.
- H. Minimum Well Construction Standards. The Contractor shall be required to conform to the applicable portions of the Minimum Well Construction Standards established by the Idaho Department of Water Resources.

APPROVED
JAN 26 1996

- I. Mobilization. The Contractor shall move in all necessary tools, equipment and supplies required for the work, and upon completion of the work, shall remove all such items from the premises promptly and leave the site in a neat and orderly fashion.
- J. Testing. Upon completion of drilling and development of the well, the Contractor shall test the well to determine the yield and drawdown. Testing equipment shall be capable of delivering a continuous supply of at least 150 percent of desired yield from a depth of 120 feet. Testing shall be with a standard turbine pump. The Contractor shall furnish and install all necessary equipment for testing, including a suitable means for measuring accurately the discharge from the well and the water level in the well during the testing operation. Test pumping shall be conducted in an uninterrupted manner until the drawdown has stabilized for 60 minutes at the target flow rates. If the target flow rate is not available, the flow test will be stopped as directed by the Engineer. The Contractor shall be responsible for providing a means for safe refueling during operation to prevent even brief shut-downs during the test.
- The Contractor shall be responsible for making arrangements for satisfactory disposal of water during the test period.
- A log shall be kept by the Contractor during the test pumping that shows the pumping rate, drawdown, and water table level every 15 minutes. Whenever pumping is discontinued, the water table recovery time and level shall be recorded.
- K. Plumbness and Alignment. The well shall be drilled straight and plumb in accordance with the provisions of this paragraph. The casing, upon completion of development, shall be sufficiently straight to permit the installation of a standard submersible turbine pump at a depth of approximately 120 feet without friction or binding. The casings shall be reasonably plumb and the maximum deviation from vertical permissible shall be 2-inches per 100 feet of depth. It shall be the responsibility of the Contractor to see that the well is constructed straight and plumb within these limits at all items. The Owner may at any time make such test or tests as are necessary to determine whether these limitations are being met.
- L. Abandonment. In the event that the Contractor shall fail to complete the well to the depth specified or to a greater depth as may be determined during the actual drilling or should he abandon any well because of loss of tools or equipment or for any other cause, or if the well shall fail to meet the requirements for plumbness and alignment as previously set forth, the Contractor, if requested and as directed by the Engineer, shall fill the abandoned well with clay or cuttings and salvage and remove such casing as can be salvaged. The materials furnished by the Contractor shall remain his property.
- M. Utilities. The Contractor shall be responsible for furnishing or arranging for electricity or other utilities required in the drilling of the well.

RECEIVED
JAN 26 1996

- O. Recovery of Tools. In the event of loss of tools or equipment during any phase of the work, the Contractor shall not be entitled to any payment for time spent or expense incurred in an attempt to fish or recover the tools or equipment prior to possible abandonment of well.
- P. Protection of Water Quality. The Contractor shall take all necessary precautions to prevent contamination of the water in the well by the introduction of any foreign substances, including contaminated water, oil, etc.
- Q. Completion and Clean-up. Upon acceptance of the well by the Owner, the Contractor shall cut off the casings at a point not less than 24 inches above ground level or as designated by the Engineer. The casing shall be further protected by covering with a 1/4 inch thick steel plate tack welded to the casing. The well site shall be cleaned up by removing all equipment, materials, and supplies, and by filling all pits or excavations and performing any site grading necessary to leave the site in a neat and orderly fashion.
- R. Drilling Permit. The Contractor shall post, in a visible location, a copy of the approved Drilling Permit. ~~He shall display the permit on the well site.~~

DRILLING PROGRAM

- A. Surface Seal. The surface seal shall consist of a ~~bentonite grout~~ from the land surface to a depth of 80 feet or to a depth at which a clay layer may be penetrated at least four feet.
- B. Filling Below Surface Seal. Place bentonite in the annular space between the well bore and casing, in the zone above the gravel pack and below the surface seal. Backfill shall occur after well development.

Work in this section will be paid for by the applicable bid item.

- C. Drilling. The well shall be drilled to accommodate a nominal 6-inch diameter permanent casing. It is estimated that all drilling will be in sediments such as clay, silt, sand or gravel. Basalt rock may be encountered. The Contractor shall provide the well drilling rig and well tools as required, and all other equipment, materials and supplies required for drilling and completing the well. All such equipment shall be in good condition and properly maintained.

The well shall be drilled to accommodate a minimum ~~6-inch~~ casing to a depth of about 140 feet, as directed by the Engineer.

Measurement for payment for drilling shall be of the depth below ground surface of the hole actually drilled. No classification of materials will be made and payment for drilling shall be at the unit price listed in the Bid Schedule regardless of the type of materials encountered.

JAN 26 1996

- D. Casing. It is contemplated that the well, when completed, shall be cased with a nominal 6-inch permanent casing which shall extend from the ground surface to a maximum depth of 120 feet with 10 feet of 4-inch screen below the 6-inch casing, followed by 10 feet of 1" casing. The screen shall consist of nominal 4-inch section of commercial well screen as set forth elsewhere in this Specification. The 6-inch and 4-inch casings shall have minimum wall thickness of 0.250 inches and shall conform to ASTM A-53, Grade B - Domestic Prime Specifications.

All casing shall be joined with full penetration welds made by properly qualified welders. The 6-inch casing shall be capped with a 1/4" thick plate tack welded to the casing.

Measurement and payment for installation of the casings shall consist of the actual length of casing that remains in the well after completion, not including the length of screens. Payment for the casing installation shall be at the unit price bid in the Bid Schedule and shall include furnishing the casings, transporting all casing to the job sites, handling casing at the job sites, and installation of casings in the well. The actual time spent in pulling back the casing to expose and develop the screens shall be incidental to screen installation. The cost of furnishing and installing any drive shoes or packers shall be included in the bid price for casing installation.

The method of connecting the casing to the 4-inch screen shall be approved by the Engineer.

- E. Screens. The Contractor shall furnish and install the appropriate 4-inch diameter well screen with lengths and slot-sizes as directed by the Engineer. It is estimated that 10 feet of 4-inch screen will be used. The actual length and placement of screens shall be determined after the drilling of the well and the screen slot size and gravel pack shall be determined after samples of water-bearing formations have been properly analyzed for size gradation. Screens shall be stainless steel (Houston Perma-Bond or approved equal).

Measurement for payment for screen installation shall be of the actual length of such item installed in the well. Payment for screen shall be at the unit price bid in the Bid Schedule and shall include all costs for furnishing and installation, together with welding rings and the packer, packing rings or other connection between the screen assembly and the permanent casing.

- F. Development. Upon completion of the drilling, installation of the casing and screen and installation of the gravel filter, the Contractor shall develop the well by compressed air, or other method approved in advance by the Engineer. Development shall continue until no appreciable amounts of material are brought into the well after 30 minutes of vigorous surging. Upon completion of development, all materials shall be thoroughly cleaned from inside the casing and screen. If clay, bentonite or similar substance has been added to the well during construction, the Contractor may be required to use dispersant and/or mud removing chemicals to remove the clayey materials from the well.

Measurement for payment for development shall be of the actual hours spent in surging or developing the well and shall not include time spent in installation or removal of equipment or for any repairs or maintenance work. Payment shall be at the hourly rate bid in the Bid Schedule for developing, which shall include the cost of furnishing the equipment or materials required. The Contractor shall notify the Engineer when the process of well development is begun and to provide daily reports of progress during development.

- G. Disinfection. Disinfect the well following installation of pump, in accordance with AWWA C 654. Complete specifications for disinfection are available upon request to the Engineer.

No payment will be made to the contractor for performing disinfection. Cost for this work shall be included in unit prices for other items shown in the Bid Schedule.

- H. Records and Samples. An accurate-detailed log or record shall be kept by the Contractor on a form suitable to the Engineer which shall indicate for each shift worked the general character, thickness and type of material encountered, the depth at which the water level stands in the well at the beginning and end of each shift, and the nature and extent of all other work performed. The log shall be kept carefully and accurately at the time the work is being done; a copy of the log shall be maintained at all times at the job site and shall be available at any time for inspection by the Owner. Upon completion of the work, a complete copy shall be furnished the Owner and the Contractor shall further file with the State Department of Water Resources the necessary log and record on forms obtainable from the Department.

Samples of all materials penetrated during drilling shall be taken at every formation change. These samples shall be saved and maintained on the job site by the Contractor. These samples shall be at least one pint size, shall be kept in clean waterproof containers to be provided by the Contractor, and shall be clearly labeled to show the depth from which collected. Every effort shall be made by the Contractor to insure that samples are representative of the materials penetrated.

No payment will be made to the Contractor for keeping the prescribed records or collecting samples and the cost of all such work shall be included in the amount bid for drilling in the Bid Schedule. Failure to comply with any of the foregoing shall be justification for withholding payment for work performed by the Contractor.

Post-it Fax Note	7671	Date	9/14	# of pages	6
To	ROB WHITNEY	From	B FREEMAN		
Co. Dept	IDWR	Co	DEQ		
Phone #	334-2190	Phone #	373-0550		
Fax #	334-2348	Fax #	373-0287		

JAN 26 1996

LETTER OF TRANSMITTAL

BRIGGS ENGINEERING, Inc.

1111 So. Orchard St., Suite 600 Boise, Idaho 83705

PHONE: (208) 345-2881 FAX NO: (208) 345-2950

DATE 9-13-95 ID NO. 950516

TO Bill Freeman
DEQ
1445 N. Orchard
Boise, ID 83706

JOB NAME _____

JOB ADDRESS _____

CITY, STATE _____

☒ WE ARE SENDING YOU

☐ WE ARE RETURNING

- ☐ SHOP DRAWINGS
- ☐ CHANGE ORDER
- ☐ COPY OF LETTER
- ☐ PLANS
- ☐ ORIGINALS
- ☐ FINAL PLAT
- ☐ SPECIFICATIONS
- ☐ COMPUTER DISK
- ☐ OTHER _____

☒ ENCLOSED

☐ UNDER SEPARATE COVER VIA

☐ FEDERAL EXPRESS

☐ COURIER

☐ _____

COPIES	DATED	ID NO.	DESCRIPTION
1			Well Siting Checklist
			(includes proposed section/drawdown calcs.)
1			Domestic Water Well Spec.
1			Topo @ 1"=200' w/ Well sites

THESE ARE TRANSMITTED AS CHECKED BELOW :

- ☐ FOR APPROVAL
- ☐ FOR YOUR INFORMATION
- ☐ AS REQUESTED
- ☐ FOR REVIEW AND COMMENT
- ☐ FOR BIDS DUE _____
- ☐ APPROVED AS SUBMITTED
- ☐ APPROVED AS NOTED
- ☐ RETURNED FOR CORRECTIONS
- ☐ PRICE _____
- ☐ RESUBMIT _____ COPIES FOR APPROVAL
- ☐ SUBMIT _____ COPIES FOR DISTRIBUTION
- ☐ RETURN _____ CORRECTED PRINTS
- ☐ _____

REMARKS _____

JAN 26 1996

COPY TO D & M Dunn SIGNED David Torgerson

- O. Recovery of Tools. In the event of loss of tools or equipment during any phase of the work, the Contractor shall not be entitled to any payment for time spent or expense incurred in an attempt to fish or recover the tools or equipment prior to possible abandonment of well.
- P. Protection of Water Quality. The Contractor shall take all necessary precautions to prevent contamination of the water in the well by the introduction of any foreign substances, including contaminated water, oil, etc.
- Q. Completion and Clean-up. Upon acceptance of the well by the Owner, the Contractor shall cut off the casings at a point not less than 24 inches above ground level or as designated by the Engineer. The casing shall be further protected by covering with a 1/4 inch thick steel plate tack welded to the casing. The well site shall be cleaned up by removing all equipment, materials, and supplies, and by filling all pits or excavations and performing any site grading necessary to leave the site in a neat and orderly fashion.
- R. Drilling Permit. The Contractor shall post, in a visible location, a copy of the approved Drilling Permit. ~~He shall comply with all requirements of said permit.~~

DRILLING PROGRAM

- A. Surface Seal. The surface seal shall consist of a ~~bentonite grout~~ from the land surface to a depth of 80 feet or to a depth at which a clay layer may be penetrated at least four feet.
- B. Filling Below e Seal. Place bentonite in the annular space between the well bore and casing, in the zone above the gravel pack and below the surface seal. Backfill shall occur after well development.

Work in this section will be paid for by the applicable bid item.

- C. Drilling. The well shall be drilled to accommodate a nominal 6-inch diameter permanent casing. It is estimated that all drilling will be in sediments such as clay, silt, sand or gravel. Basalt rock may be encountered. The Contractor shall provide the well drilling rig and well tools as required, and all other equipment, materials and supplies required for drilling and completing the well. All such equipment shall be in good condition and properly maintained.

The well shall be drilled to accommodate a minimum ~~6-inch O.D.~~ casing to a depth of about 140 feet, as directed by the Engineer.

Measurement for payment for drilling shall be of the depth below ground surface of the hole actually drilled. No classification of materials will be made and payment for drilling shall be at the unit price listed in the Bid Schedule regardless of the type of materials encountered.

JAN 26 1996

WELL SITING CHECKLIST:

Step I - Administrative Information

- A. Date Received _____
- B. Name & Location of Project
BEAR CREEK LODGE
SE 1/4 SE 1/4 SEC. 26, T 19N, R 2E, B.M.
ADAMS COUNTY
- C. Is this Project New X or an Addition _____
- D. Owners Name, Address & Phone
DEBRA & MIKE DUNN
HC 33, BOX 3205
BOISE, IDAHO 83706
- E. Consulting Engineers Name, Firm's Name, Address & Phone
DAVID N. TORGESON, P.E. & L.S.
BRIGGS ENGINEERING, INC.
1111 SOUTH ORCHARD, SUITE 600
BOISE, IDAHO 83705 PHONE: (208) 344-9700
- F. Others Name, Address & Phone
- G. DEQ and/or PWS No. _____
- H. DEQ Address & Phone
Division of Environmental Quality
Southwest Idaho Regional Office (SWIRO)
1445 N Orchard
Boise, ID 83706-2239 (208) 334-0550

Step II Local Information

A. Land Use:

- | | | |
|----|-------------------------------------|--------------|
| a. | ☐ | Residential |
| b. | ☒ | Commercial |
| c. | ☐ | Industrial |
| d. | ☐ | Agricultural |
| e. | ☐ | Range |
| f. | ☐ | Forest |
| g. | ☐ | Mining |

B. Type of Terrain:

- | | | |
|----|-------------------------------------|----------|
| a. | ☐ | Plain |
| b. | ☐ | Plateau |
| c. | ☐ | Desert |
| d. | ☒ | Valley |
| e. | ☐ | Flat |
| f. | ☐ | Slope |
| g. | ☐ | Foothill |
| h. | ☐ | Mountain |

C. Geology - PER WELL DRILLERS REPORT DATED 6-13-95

- a. Type of Top Soil
TYPE NOT STATED
- b. Depth of Top Soil
2 FEET
- c. Type of Intermediate Zone Material
SOIL MIXED WITH ROCK FRAGMENTS

JAN 26 1996

d. Depth to Water Table 43 FEET

e. Aquifer Type per Figure 2.18a

- | | | |
|----|--|---|
| 1. | | Eastern Snake River Plain Basalt |
| 2. | | Unconsolidated Alluvium |
| 3. | | Mixed Volcanic & Sedimentary - Primarily Volcanic |
| 4. | | Minor Aquifer |

f. Get Existing Well Logs

ATTACHED

RECEIVED
JAN 16 1996

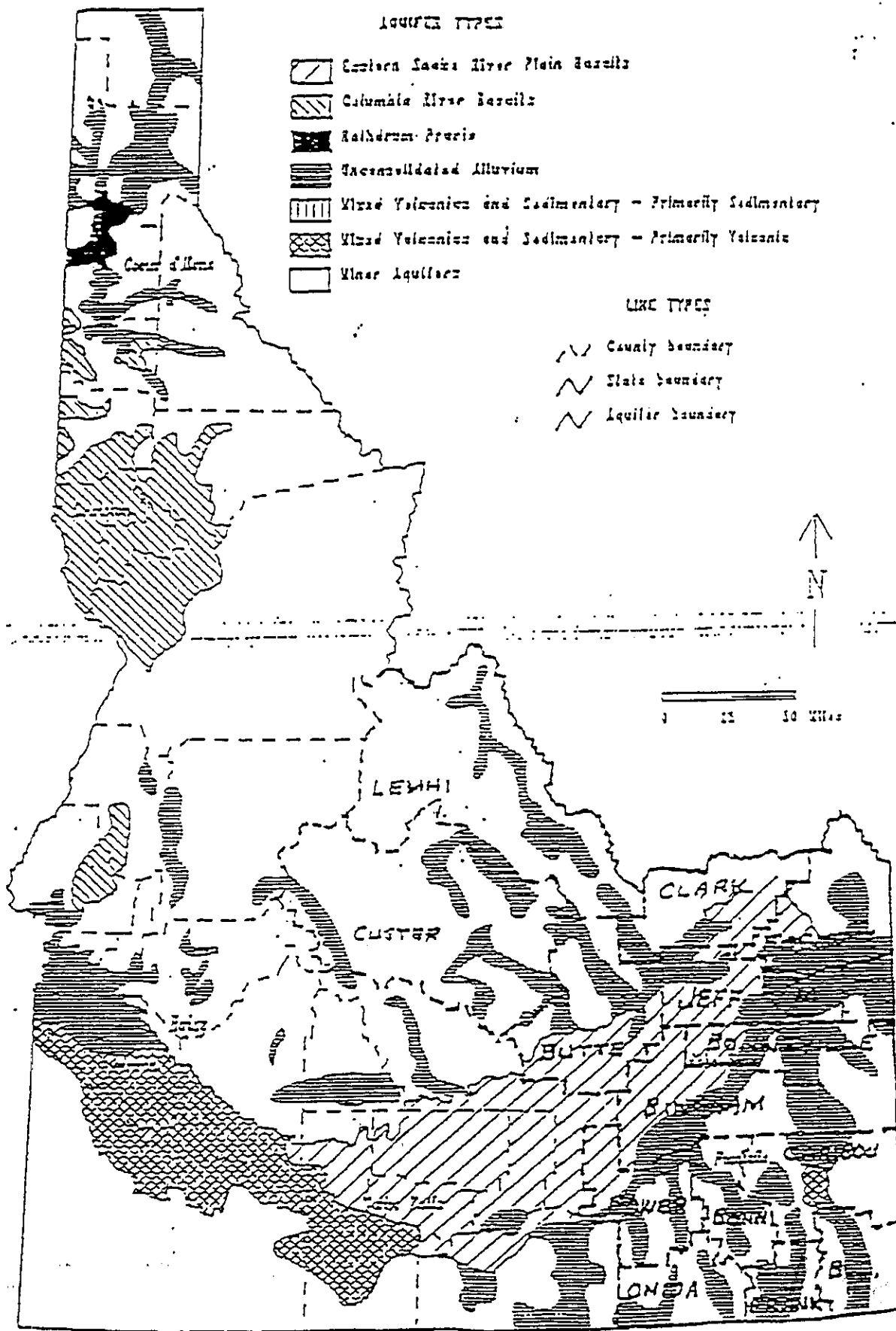


Figure 2.18a. Aquifer types in Idaho.
 (Copied from Well Head Protection in Idaho; sponsored by IDWR-DEQ, 1996
 in cooperation with Idaho Water Resources Institute, Univ. of Idaho.)

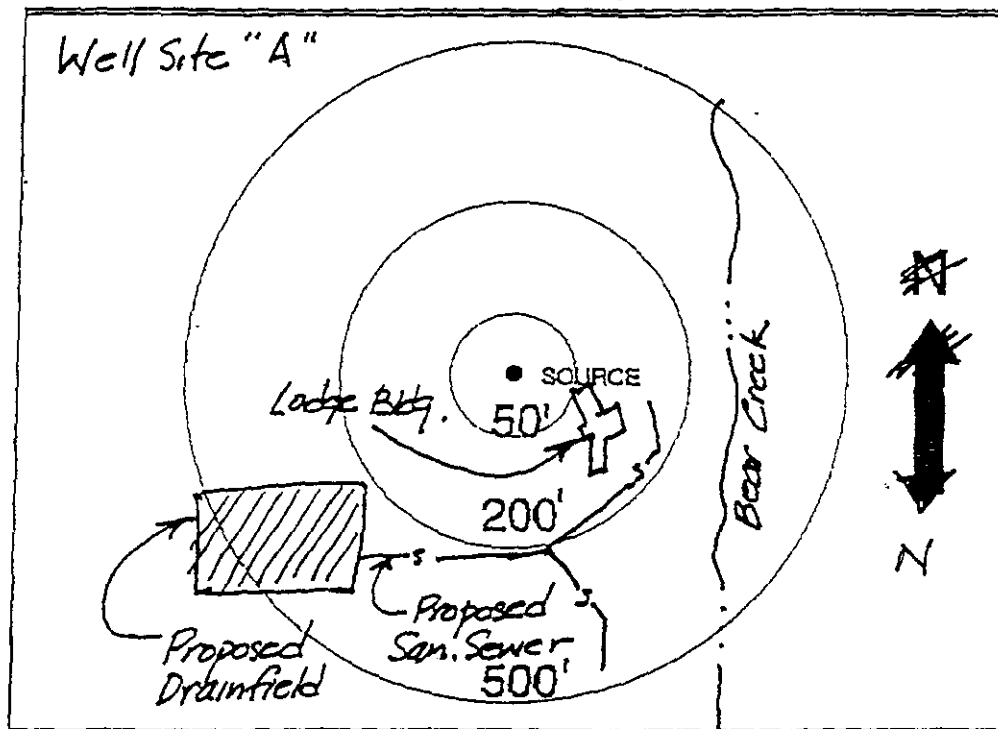
GWUDI FIELD SURVEY

PWS #

System Name: <u>Bear Creek Lodge</u>	Source Name: <u>Groundwater</u>
Source Type: <u>Well</u> (spring, well, infiltration gallery)	Maximum Pumping Rate: <u>120 gpm</u>
System Representative: <u>Briggs Engineering, Inc.</u> <u>David N. Torgeson, P.E. & L.S.</u>	Date: <u>8-16-95</u>

MAP OF SOURCE VICINITY

Please draw in and label all items from the checklist below



Map Checklist:

- | | |
|---|---|
| ☒ Surface water within 500' | ☐ Stormwater disposal systems within 500' |
| ☒ On-site sewage systems or lagoons within 500' | ☐ Injection Wells within 500' |
| ☒ Municipal or on-site sewer lines within 200' | ☐ Other sources of contamination within 500' |
| ☐ Dairies or livestock feeding operations within 500' | |

Determination: ☒ Ground Water		☐ Influenced by Surface Water		☐ Ground Water - Further Evaluation	
Date of H.D. Representative: <u> </u>					

EVALUATION COMMENTS ON REVERSE SIDE

VOID

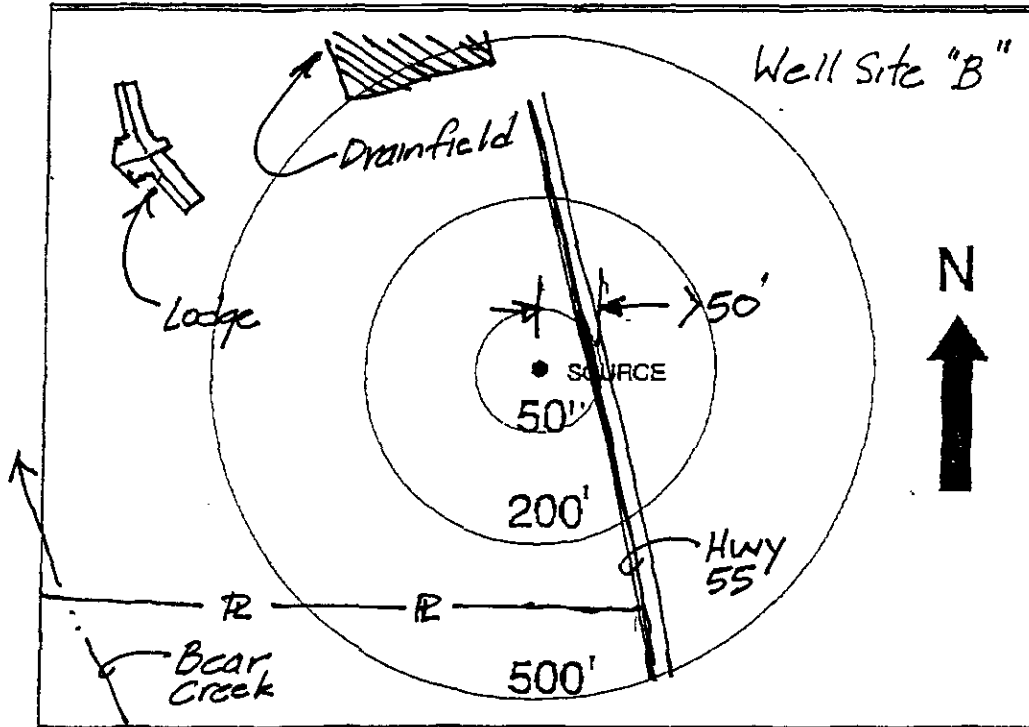
GWUDI FIELD SURVEY

PWS # _____

System Name: <u>Bear Creek Lodge</u>	Source Name: _____
Source Type: <u>Well</u> (spring, well, infiltration gallery)	Maximum Pumping Rate: <u>65 gpm</u>
System Representative: <u>Briggs Engineering, Inc.</u> <u>David N. Torgeson, P.E. & L.S.</u>	Date: <u>7-12-95</u>

MAP OF SOURCE VICINITY

Please draw in and label all items from the checklist below



Map Checklist:

- | | |
|--|---|
| ☐ Surface water within 500' | ☐ Stormwater disposal systems within 500' |
| ☐ On-site sewage systems or lagoons within 500' | ☐ Injection Wells within 500' |
| ☐ Municipal or on-site sewer lines within 200' | ☐ Other sources of contamination within 500' |
| ☐ Dairies or livestock feeding operations within 500' | |

Determination: ☒ Ground Water ☒ Influenced by Surface Water ☒ Ground Water ☒ Other		OFFICE USE ONLY
EVALUATION		
DEC or HD Representative: _____		Date: _____

EVALUATION COMMENTS ON REVERSE SIDE

Well Site Information

Topography

WELL SITE		
A	B	C
SE - NW	E - W	
10%	10%	

- a. Slope Direction
- b. Slope Grade
- c. Surface Flow To or Away

Sources of Contamination: Estimated Direction (DIR), Horizontal Distance (HD) & Vertical Distance (VD) From the Well Site to the Nearest Part of an Existing or Proposed Contaminant.

	DISTANCE FROM WELL SITE								
	A			B			C		
	HD	VD	DIR	HD	VD	DIR	HD	VD	DIR
a. Septic System (PROPOSED)	200'	+10'	ESE	500'	+8'	N			
b. Privy									
c. Sewer Line (PROPOSED)	200'	+2'	S	500'	0	NW			
d. Livestock									
e. Lake, Pond, Reservoir									
f. River or Stream (100 year Floodplain)	300'	-28'	W	850'	-30'	W			
g. Canal or Ditch									
h. Airborne Contaminates									
i. Surface Contaminates									
j. Buried Contaminates									
k. Other									

Get Subdivision Plat or Survey

~~11/2/12~~
11/2/12

Step VI Well Head Protection Using Basic Approach

- A. Pumping Rate in G.P.M. 120 (FIRE STORAGE)
~~65 (DOMESTIC)~~
- B. Aquifer Type per Page 3/9
- C. Calculated Radii per Tables 4.1a & 4.1b
- D. Zone IA Minimum Radius Wells 50', Springs 100'
- E. Zone IB 2-Year Time of Travel _____ Radius
- F. Zone II 5-Year Time of Travel _____ Radius

Table 4.1a. Basic delineation, calculated radii.

E. SNAKE RIVER PLAIN BASALTS										
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	6000 GPM	7000 GPM
2 YEAR TOT	1800'	1000'	2000'	2300'	2700'	3100'	3500'	3900'	4200'	4600'
5 YEAR TOT	4400'	4400'	4700'	5000'	5600'	6000'	6500'	6900'	7300'	7700'

COLUMBIA RIVER BASALTS										
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	6000 GPM	7000 GPM
2 YEAR TOT	300'	400'	900'	1300'	2200'	2900'	3700'	4500'	5300'	6000'
5 YEAR TOT	400'	600'	1300'	2000'	2900'	3700'	4600'	5400'	6200'	7000'

UNCONSOLIDATED ALLUVIUM										
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	6000 GPM	7000 GPM
2 YEAR TOT	6500'	6600'	7100'	7700'	8000'	10000'	11000'	12000'	13000'	14000'
5 YEAR TOT	16000'	16000'	17000'	18000'	19000'	20000'	21000'	22000'	23000'	24000'

GPM = Gallons per minute

TOT = Time of Travel

(Copied from Well Head Protection in Idaho; sponsored by IDW-IDO, in cooperation with Idaho Water Resources Research Institute, Univ. of Idaho.)

FOUO: SW 303 October 14, 1974

Step V Site Evaluation

1. Well Site A Evaluation

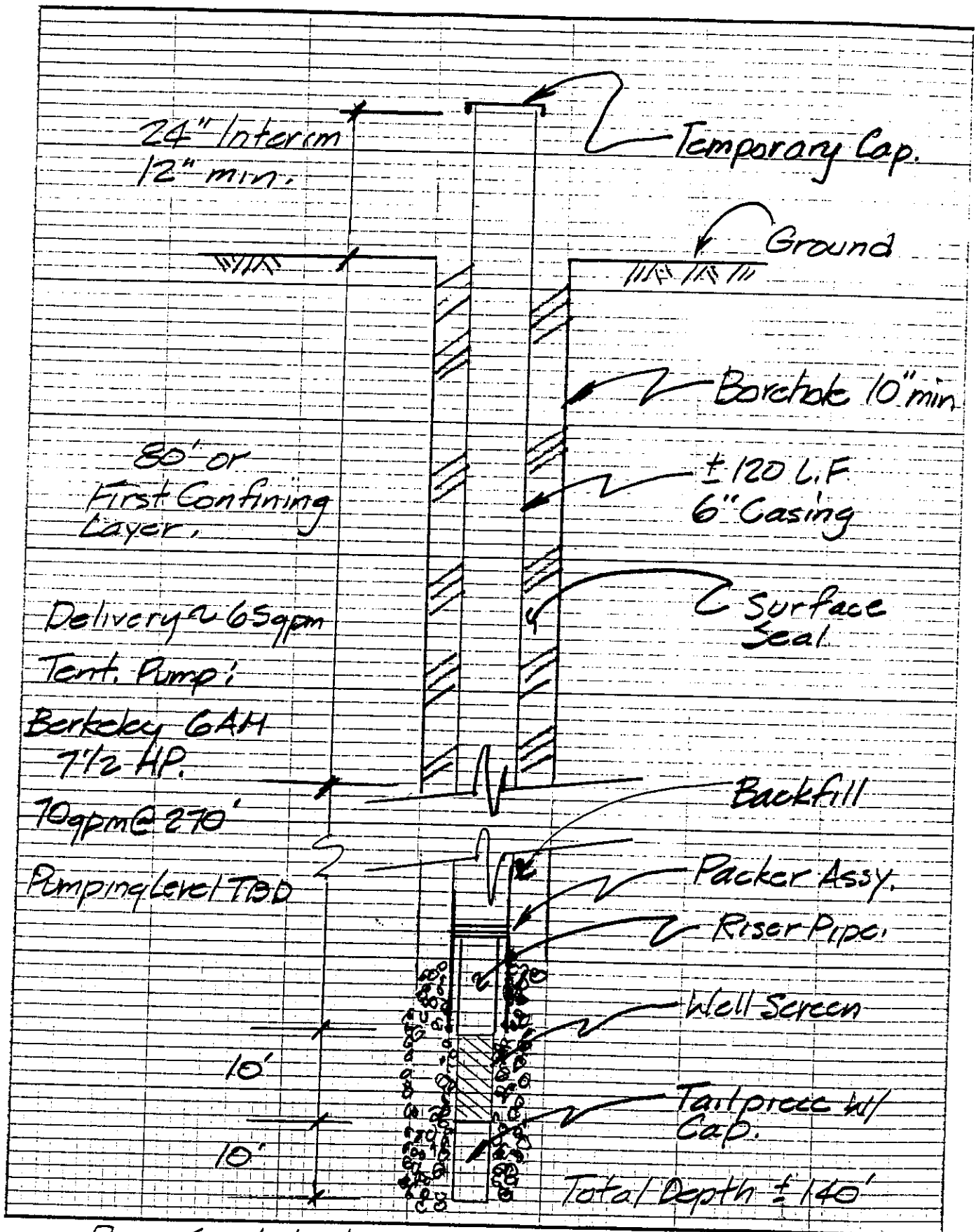
THE LOCATION OF THE BEAR CREEK LODGE WELL HAS BEEN SELECTED TO PROVIDE MAXIMUM SEPARATION FROM POTENTIAL SOURCES OF CONTAMINATION. IT IS MORE THAN 200 FEET FROM THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM, 50 FEET FROM THE LODGE BUILDING, AND 200 FEET FROM PRESSURE SEWER LINES. THE WELL, WHICH WAS RECENTLY DRILLED, HAS BEEN REVIEWED BY IDAHO DEPT. OF WATER RESOURCES, WHO HAS DETERMINED THAT THE CONSTRUCTION DOES NOT DEPART FROM STANDARDS APPLIED TO WELLS USED FOR PUBLIC WATER SUPPLY. THE SITE APPEARS TO PRESENT FEW RISKS FOR CONTAMINATION, BASED UPON INFORMATION FROM TOPOGRAPHIC MAPS AND DRILLERS LOGS. IN THE ABSENCE OF ADVERSE FINDINGS REVEALED THROUGH ON-SITE INSPECTION, THE WELL IS RECOMMENDED FOR THE INTENDED USE.

This well is not approved for public water supply.

3. Well Site B Evaluation

Location has been selected to position well outside of potential gradient of wastewater disposal area. Separation from lodge and disposal field is about 500 feet. Well is physically upslope from potential sources of contamination. Theoretical drawdown is confined to area of horizontal separation.

C. Well Site C Evaluation



Project Bear Creek Lodge
Proposed Well - Section

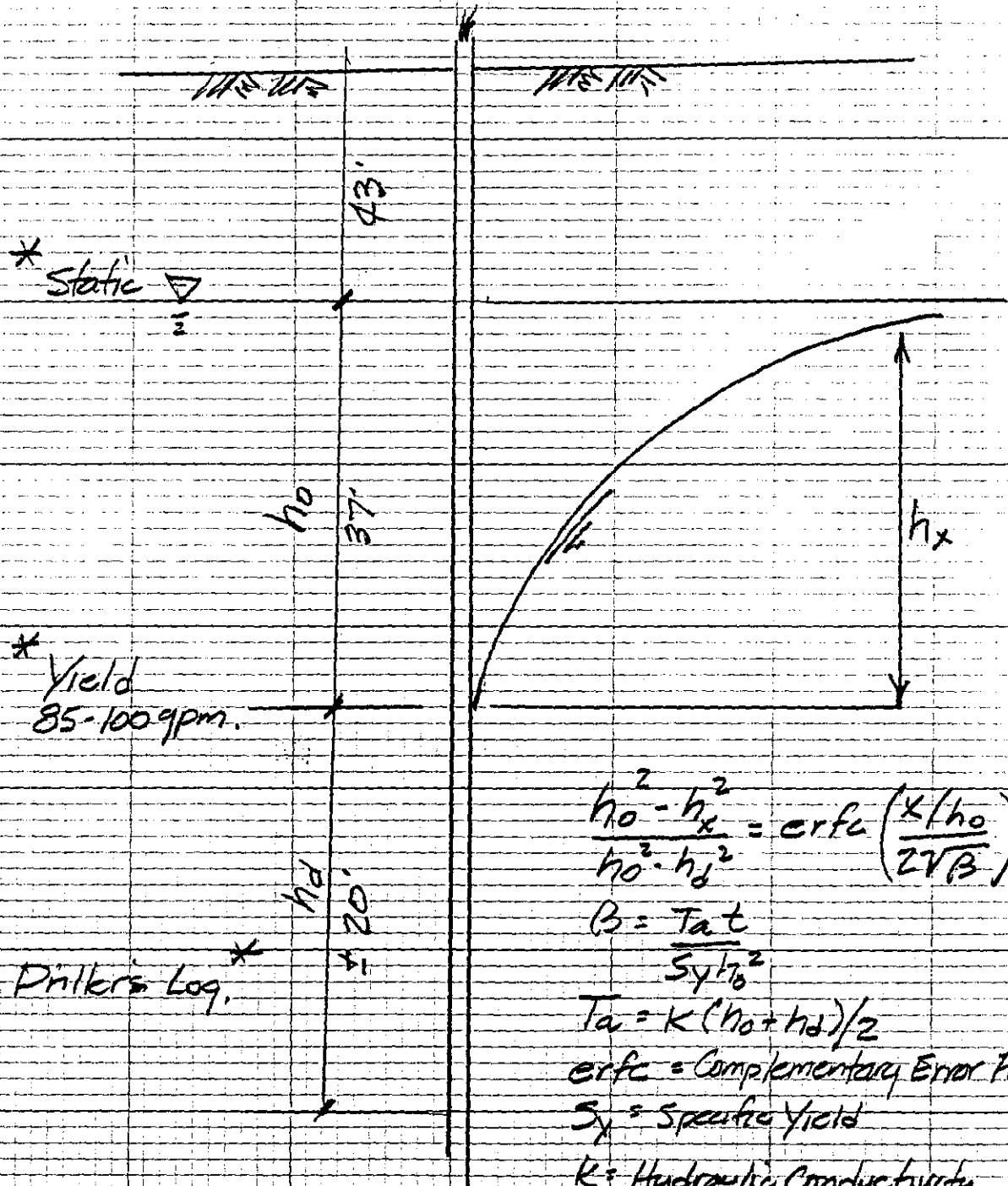
Job No. 950516
By DNT
Ck'd _____

Sheet _____
Date 9-12-95
Date _____



BRIGGS ENGINEERING, INC.

Model Based on Transient Flow to Linear Drain



$$\frac{h_0^2 - h_x^2}{h_0^2 \cdot h_d^2} = \text{erfc} \left(\frac{x/h_0}{2\sqrt{B}} \right)$$

$$B = \frac{T_a t}{S_y h_0^2}$$

$$T_a = K(h_0 + h_d)/2$$

erfc = Complementary Error Funct.

S_y = Specific Yield

K = Hydraulic Conductivity

t = time since flow started.

Project Bear Creek Lodge

Job No. 950316

Sheet 1/2

Analyze Well Drawdown

By DNT

Date 9-12-95

Ch'd

Date



BRIGGS ENGINEERING, INC.

Let Specific Yield = 10%

Assume Eff. Grain Size = 0.20 mm (Med. Sand)

$$\therefore K = 400 \text{ ft/day.}$$

$$T_a = 400 (37 + 20)/2 = 11.4 \times 10^3$$

$$B = \frac{11.4 \times 10^3 \times t}{10 \times 37^2} = 0.833 t$$

Let $t = 24 \text{ hr.} \times \text{day}$ (Conservative - see Note below.)

$$B = 0.833$$

Calc. greatest extent, i.e., $h_x = 0.99 h_o$

$$\frac{(h_o^2 - (0.99 h_o)^2)}{(h_o^2 - 20^2)} = \left\{ \right\} \quad \text{Guess } K = 280$$

$$\left\{ \right\} = 0.0075 \times \left(\frac{280}{37 \sqrt{0.833}} \right) = 0.022$$

$$0.022 \stackrel{?}{=} \frac{1369 - 1341.76}{1369 - 400} \neq 0.028 \text{ but very close.}$$

Analysis indicates Radius of drawdown cone is about 275 feet with continuous 24 hr pumping @ 85-100 gpm. Actual rate will be ~65 gpm.

Actual withdrawals will be intermittent, on the order of 2-3 hrs max.

Proposed well is about 500 feet from drainfield.

Project Bear Creek Lodge

Job No. 950516

Sheet 2/2

By DNT

Date 9-12-95

Analyze Well Drawdown.

Ch'c

Date

BRIGGS

BRIGGS ENGINEERING, INC.

Use Typewriter
or
Ball Point Pen

950516

11. WELL TESTS:

☐ Pump ☐ Boiler ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
25/1000		20'	3 hrs.

Water Temp. 52° Bottom hole temp. —
Water Quality test or comments: clear

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

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

Firm Name MENASLO Drilling Firm No. 391

Firm Officer Carroll Date 6-13-95

Supervisor or Operator _____ Date _____

 (Sign once if Firm Official & Operator)

Feb 12 1944. 1945


 Typ. 19 North ☒ or South ☐
 Rge. 2 East ☒ or West ☐
 Sec. 26 1/4 SE 1/4 SE 1/4
 Gov't Lot _____ County ADAMS
 Address of Well Site 1 mile S Little
Shi Hill Hwy 55 City MCALL
 (Give at least three of road - distance to Road or Landmark)
 L. _____ Bk. _____ Sub. Name _____

4. PROPOSED USE:

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

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	Seals of Pounds	
Permt	0	3.5	6.5 lbs	PIPE JOBS P' CASING

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 23'
Was drive shoe seal tested? Y ☒ N ☐ How? 1/2 in

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	liner	Welded	Threading
6"	1	22'	1750	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Coating	Layer
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

43 ft. below ground Artesian pressure — lb.
Depth flow encountered 23' ft. Describe access port or
control devices: WELL CAP.

LETTER OF TRANSMITTAL

BRIGGS ENGINEERING, Inc.

1111 So. Orchard St., Suite 600 Boise, Idaho 83705

PHONE: (208) 345-2881 FAX NO: (208) 345-2950

DATE 9-13 ID NO. 950516

TO Debra & Mike Dunn
Bear Creek Lodge

JOB NAME _____

JOB ADDRESS _____

CITY, STATE _____

☐ WE ARE SENDING YOU

☐ SHOP DRAWINGS

☐ ENCLOSED

☐ CHANGE ORDER

☐ UNDER SEPARATE COVER VIA

☐ WE ARE RETURNING

☐ COPY OF LETTER

☐ FEDERAL EXPRESS

☐ PLANS

☒ COURIER Via Rob Whitney

☐ ORIGINALS

☐ FINAL PLAT

☐ SPECIFICATIONS

☐ COMPUTER DISK

☐ OTHER _____

☐ _____

COPIES	DATED	ID NO.	DESCRIPTION
1	—		Original Application for Permit - Water Rights
1			Original Application for Drilling Permit
1			Copy Permit Applications
1			Copy DEQ Submittal.

THESE ARE TRANSMITTED AS CHECKED BELOW :

☐ FOR APPROVAL

☐ APPROVED AS SUBMITTED

☐ RESUBMIT _____ COPIES FOR APPROVAL

☐ FOR YOUR INFORMATION

☐ APPROVED AS NOTED

☐ SUBMIT _____ COPIES FOR DISTRIBUTION

☐ AS REQUESTED

☐ RETURNED FOR CORRECTIONS

☐ RETURN _____ CORRECTED PRINTS

☐ FOR REVIEW AND COMMENT

☐ PRICE _____

☐ FOR BIDS DUE _____

☐ _____

REMARKS Please sign applications where tagged.
Fees are \$100 for water rights; \$200 for
Drilling Permit. Please make checks payable
to "IDWR" and return with signed originals.

COPY TO _____

SIGNED David Torgeson

From: DWR03::JCARLSON 1-SEP-1995 15:51:55.48
To: DWR80::RWHITNEY
CC: JCARLSON
Subj: Bear Crk Lodge well and septic

Good Day Mr. Whitney:

Mr. Brian Elsworth is having a meeting with DEQ SW Dist. Health on September 7 1995. The drilling permits were 78-95-W-0012-000 & 0018-000. The permits are in the name of Dunn with the facility name Bear Ck Lodge.

The Meeting will be on site at 1:00 PM on that thur. Please come by and talk to Mark before heading up there. Mr. Elsworth phone number is 345-8944.

Please let Mark know if you are not able to attend.

Thanks
jdc.

10/1/95
10/1/95