

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

REQUEST FOR EXTENSION OF TIME OCT - 8 2003
TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF Department of Water Resources
BENEFICIAL USE FOR A WATER RIGHT PERMIT

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

Permit No. 95-08996

Name(s) of Permit Holder: HARMON'S PROPERTY OWNERS ASSOCIATION c/o ROBERT ASKINS

Mailing Address: 154 S. MIKA PARK DRIVE SPOKANE, WA 99206

Date Proof is Due: 12/1/03 Telephone No. 509 534 1030

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

EXISTING WELL HAS BEEN UPGRADED TO 42 GPM. A SITE FOR A
SECOND WELL HAS BEEN ACQUIRED AND ENGINEERING SUBMITTED
FOR CONSTRUCTION OF SECOND WELL AND ASSOCIATED SYSTEM
IMPROVEMENTS Costing \$ 9,300

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

THE TIME REQUIRED TO DETERMINE A SUITABLE SITE AND ACQUIRE
THE PROPERTY TOOK LONGER THAN EXPECTED. MORE TIME IS
NEEDED FOR THE CONSTRUCTION OF THE WELL AND IMPROVEMENTS

Permit holder(s) request an extension to 12/1/08, 19__.

FEE: \$50.00

Robert Askins
(Signature)*

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

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be
APPROVED and the time within which to submit proof of construction of
works is extended to December 1, 2008.

Signed this 10th day of October, 1903.

Gary Spackman
GARY SPACKMAN

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 95-08996

Proposed Priority: October 7, 1998

Maximum Diversion Rate:

0.20 CFS

This is to certify, that **HARMONS PROPERTY OWNERS ASSN**
1511 S MICA PARK DR
SPOKANE WA 99206

has applied for a permit to appropriate water from: **GROUNDWATER**

and a permit is **APPROVED** for development of water as follows:

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

MUNICIPAL

01/01 to 12/31

0.20 CFS

LOCATION OF POINT(S) OF DIVERSION: Lot 3(NWSW), Sec. 19, Township 47N, Range 03W
Lot 4(SWSW), Sec. 19, Township 47N, Range 03W
KOOTENAI County

PLACE OF USE: MUNICIPAL

TWN RGE SEC

47N 03W 19	Lot 2 (SENW)	Lot 3 (NWSW)	Lot 4 (SWSW)
04W 24	Lot 1 (NENE)	SENE	

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works shall be submitted on or before December 1, 2003.
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. The issuance of this right does not grant any right-of-way or easement across the land of another.

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State of Idaho
Department of Water Resources**Permit To Appropriate Water**

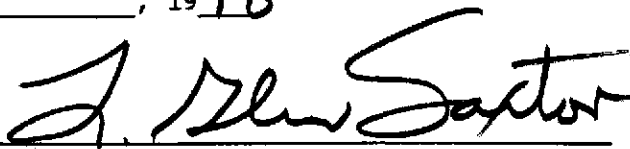
NO. 95-08996

CONDITIONS OF APPROVAL AND REMARKS

7. Place of use is located within the service delivery area of Harmons Property Owners Association in Harmons First and Second Additions.
8. This right authorizes the reservation of water for reasonably anticipated future needs within a planning horizon of 20 years. The right holder must construct works capable of diverting and carrying the authorized diversion rate by the date set forth in condition no. 1. However, application of water to beneficial use need not occur until 20 years from the date of this approval.

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

18th day of December, 1998


Karl J. Dreher, Director
for

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Ident. No. 95-08996

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DEC 04 1998

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

Department of Water Resources

Name of Applicant HARMON'S PROPERTY OWNERS ASSOCIATION Phone 509 922 8363
 Mailing address 1511 S. MICA PARK DRIVE SPOKANE, WA 99206
 Source of water supply WELL (GROUNDWATER) which is a tributary of NA
 Location of point of diversion is Township 47N Range 3W Sec. 19 in the 1/4,
NE SW 1/4, SW 1/4, Govt. Lot 4, B.M., KOOTENAI County;
 additional points of diversion if any: ACRE T. 47N, R. 3W, SEC. 19, NW 1/4 SW 1/4, GOVT. LOT 3

Water will be used for the following purposes:

Amount .20 CFS for MUNICIPAL DOMESTIC purposes from JAN 1 to DEC 31 (both dates inclusive)
 (cfs or acre-feet per annum)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per annum)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per annum)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per annum)
 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) .20 and/or (b) NA
 cubic feet per second acre feet per annum

6. Proposed diverting works:

- a. Describe type and size of devices used to divert water from the source EXISTING WATER DISTRIBUTION SYSTEM PERMITTED UNDER PERMIT NO. 95-08623
 b. Height of storage dam NA feet; active reservoir capacity NA acre-feet; total reservoir capacity NA acre-feet
 c. Proposed well diameter is NA inches; proposed depth of well is NA feet
 d. Is ground water with a temperature of greater than 85°F being sought? NO
 e. If well is already drilled, when? 1983; Drilling firm UNITED DRILLING
 Well was drilled for (well owner) GIL HARMON; Drilling Permit No. UNKNOWN

7. Time required for completion of works and application of water to proposed beneficial use is 30 years (minimum 1 year)

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

- a. Hydropower; show total feet of head and proposed capacity in KW. NA
 b. Stockwatering; list number and kind of livestock. NA
 c. Municipal; show name of municipality. NA
 d. Domestic; show number of households. 43
 e. Other; describe fully. NA MICROFILMED

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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.

[illegible]

- WATER RIGHT LICENSE No. 95-08028

- HARMONY PROPERTY OWNERS ASSOCIATION
ASSOCIATION MEMBERS

1. ROBERT ASHINS, MAKE THIS KILLING ON BEHALF OF THE

- Remarks: Business Property Owners Association
(Service)
Place of use is located within delivery area of Hazardous Products

- Sec. RETN BR161702

- YICB ROBERT ASH/MS

- place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters

0001 2 1 400

ROBERT ASKINS, Vice President HPOA

Time

Week by

55

Date _____

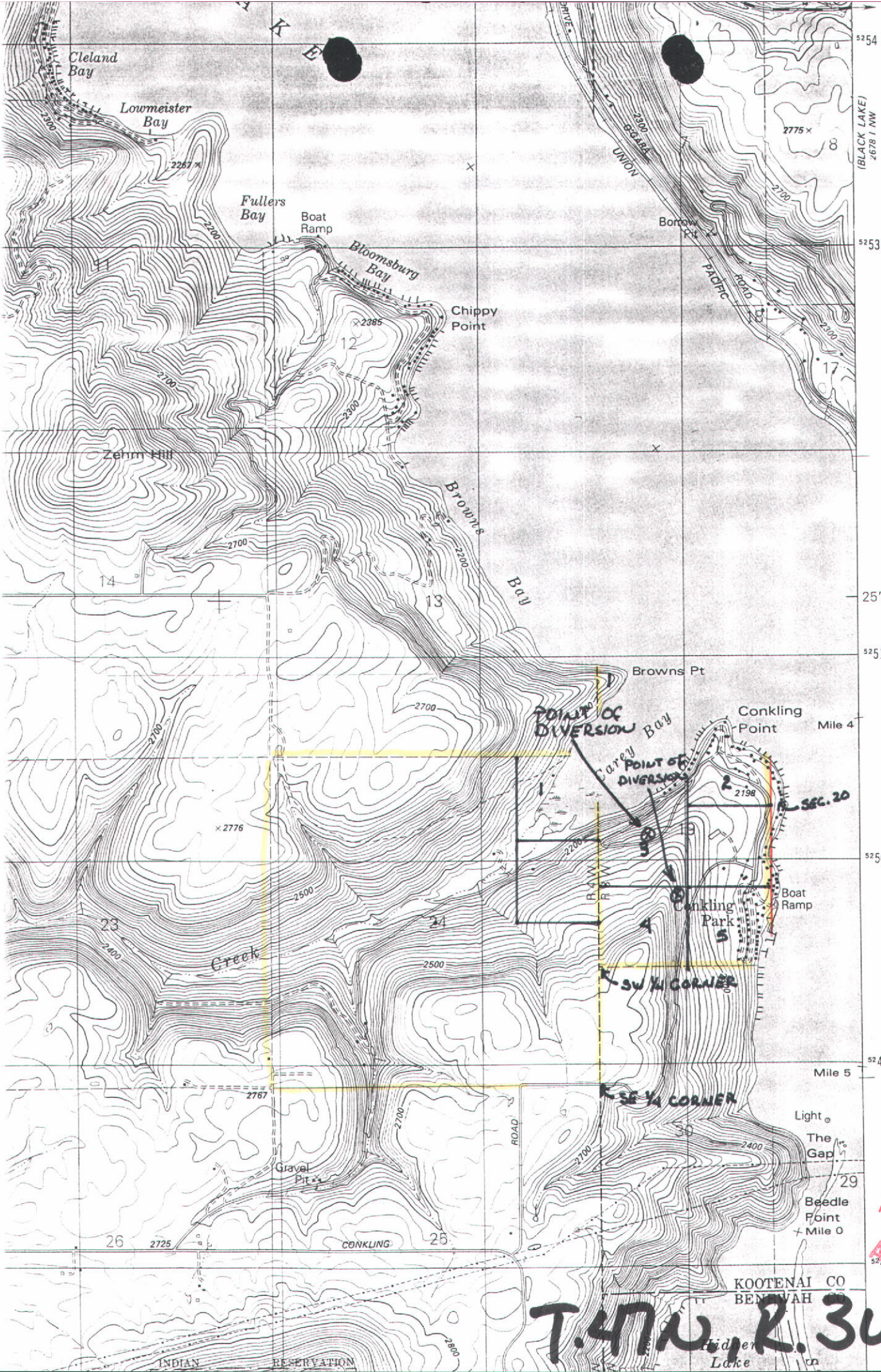
Date _____

Prepared by

Publication approved.

Date _____

8612111



5254
(BLACK LAKE)
2678 1 NW

5253

25'

5251

5250

5249

5248

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T.47N, R.3W.

KOOTENAI CO
BEN WAH

INDIAN RESERVATION

W.B.M. 47N04W-24-

LOT 1

COEUR D'ALENE LAKE
LITTLE SQUAW BAY
(aka CAREY BAY)

LITTLE SQUAW BAY
(aka CAREY BAY)

COEUR D'ALENE LAKE

SARGENT PARK TRACTS

2

HARMONS AMENDED ADDITION

HARMONS 2ND ADDITION

HARMONS 2ND ADDITION

LOT 3
47.55
AC (47.50)

LOT 4
45.74
AC

SARGENT LOOP RD

CONKLING PARK RD

24 '19

P4C
P3C

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ANALYSIS SHEET FOR EXTENSION OF TIME

Permit No.: 95-8996

Reviewed By: dgibson

Date: October 10, 2003

	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>
Request received timely?	X		Is delay by a government agency?		
Appropriate fee	X		Is supporting documentation needed to support the file?		
Additional Amount Due:					
Receipt No.:	C071170		Has the permit been involved in litigation?		X
Name and signature same as permit?	X		Is supporting documentation needed to support the file?		
Is address same as permit?	X		Is the project more than 25,000 acre feet for irrigation or 10,000 acre feet for a reservoir?		
Has adequate work been completed to demonstrate due diligence?	X				

Priority Calculation

Extension request received	10/08/2003	New proof due date	12/01/2008
Date proof due	- 12/01/2003		
Lapse notice sent	-		
No. of days late	= 0		
Holiday allowance	+		
Priority date	+ 10/07/1998		
New priority date	= 10/07/1998		

Action Taken

Acknowledge Request for Extension of Time and extend proof deadline to 12/1/2008.

(of construction of works)

APPLICATION FOR PERMIT STATE OFFICE ANALYSIS

by *Cindy*No.: 95-08996 Name: Harmon's POA Date: 12/8/98 Ad OK? ☒ ☒ Gvmt Lts: AREA OF CONCERN: - No/Yes: Mor / GWMA / Trust / Non-trust

PROTESTED: - 020 (Protest Agreement) or *W19 (Order)

SYSTEM COMPLETED:

- > 1 year - 26A(P17)
- ≤ 1 year/no proof - P16

GROUNDWATER: (✓ FLO-CH)

- WMD (✓ MAP) - North / East / West
- > 0.24 cfs/5 acres - 067 or No MD (in-stream stock or power)
- ≤ 0.24 cfs/5 acres - No MD
- WMD Supplemental use - 065-079 (if GW use SW 1st-statewide)-(cannot move SW off)
- > 0.24 cfs/5 acres - 01M (report when notified)
- ≤ 0.24 cfs/5 acres - No MD

DRILLING PERMIT:

- All wells (✓ WDQ3) - 046(P23)
- In Basin 34? - 085
- Irr. within WD - P05 (new well location)

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

- FISH & GAME CONTACTED: - YES / NO; RESPONSE:
- IN/ABOVE MIN. STR. FLOW (✓ MAP) - *WB9
- WD (✓ MAP & LISTING) - R04 (WD #)
- > 0.10 cfs - 01J-P08 (MD & LD)
- ≤ 0.10 cfs - 01H-P01 (LD), 01P or No MD (in-stream stock)
- WMD (✓ MAP) - 067 or No MD (in-stream stock or power)
- > 0.24 cfs/5 acres - No MD
- ≤ 0.24 cfs/5 acres - No MD

SPRINGS/SINK, INACTIVE WD & REST OF STATE

- > 0.24 cfs/5 acres - 01M or No MD (in-stream stock or power)
- ≤ 0.24 cfs/5 acres - No MD

RIVER BASINS: (*Surface water):

- Snake R (01) - *W22 -P04, NA
- (02/03-irr) - 007 (w/ remark *WB9 if above Weiser), NA
- Payette R(65) - *W22 (regulated uses), 047-P04 (Payette Lake), NA
- Salmon R (70's) - 029 (fish screens), NA
- Weiser R (67) - 086, 087

USE:

- ~~Domestic~~ surface - *WB5 (Big Wood R or Boise R ↑ Star Bridge); 27A (Payette River); NA
- >1 in rest. area - 071-070
- Fire Protection - 077
- Fish Propagation - 029(70's only)-007-042(req)-081 (WQ)-P10
- Heating/Cooling - R07 (injection well)
- Irr ≤ 5 acres - R66/R67/R68/R69 (0.03 cfs/acre + 3.0/3.5/4.0/4.5 AF)
- > 5 acres - R62/R63/R64/R65 (0.02 cfs/acre + 3.0/3.5/4.0/4.5 AF)
- Mining - 054(req) -081-P10
- Municipal - 022, 075, 004 (+memo?), NA (not in restricted area)
- Power - 17H/17K(+uses)-08A-025(P18)-01N-028-081(P10)-027 (if no other cons. use); 17G (FERC) or 17M (FERG); 18B-P09; >25 cfs-P18
- Stockwater - R37 (BLM/USFS); NA
- Storage (✓3 compo.) - 18A (in & out MD for on-stream storage), 18B-P09 (>10' dam), NA

LOCATION:

- 42-248 area - P84 (in 20/30/40/50/60/70/80 (87) basin)
- Boise Front LoGeo - 058 (<85° GW temp only)
- In-stream dev. - P52 (stream channel alteration)
- Mitigation - 120
- SWAN FALLS FLAG (See Code Chart) -
- Trust - 051-052-053-P74 (Consumptive Uses), NA
- Non-Trust (1) - 048-049 (Consumptive Uses), NA

OWNERSHIP:

OTHER CONDITIONS:

STANDARD REMARKS:

BENEFICIAL USE DUE:

COMMENTS:

- ① w/60 ~~0000~~ ②- 11/1/ 2003

MEMORANDUM

DATE: December 16, 1998
TO: File No. 95-08996
FROM: Cindy Zimmerman
SUBJECT: Application Review

This application for municipal use within Harmon's First and Second Additions is intended to provide:

1. A second well required to satisfy public water supply requirements, and
2. Water right coverage on any and all remaining undeveloped lots.

This subdivision is also covered by 3 other rights. Those rights are described on the attached spreadsheet "Harmon Addition Overlap Analysis".

Section 42-202(2) of the Idaho Code states that "an application proposing an appropriation of water by a municipal provider for reasonably anticipated future needs" must be accompanied by documentation related to the service area, planning horizon, etc.

Per latest exam on 95-08623, the system capacity prior to this application is 0.20 cfs. Per subdivision plats, homes exist on 47 lots. Per "Maximum Instantaneous Water Requirements for Domestic Use (In-house)" table, 40 homes require 0.30 cfs and 50 homes require 0.33 cfs. This application adds 0.20 cfs to the system through an additional well. It is reasonable to assume some beneficial use will occur as soon as the additional well is developed and, therefore, this application should not be considered an appropriation for reasonably anticipated future needs.

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2nd Addition (total 52 lots):

***Also: Arrington Lot**

Blk. 1:					Blk. 2:					Blk. 3:				
"A"	"B"	"C"	Total		"A"	"B"	"C"	(some)		"A"	"B"	"C"	Total	
Lots:	23	23	23		Lots:	11	11	11		Lots:	18	18	18	
Homes:	0	4	11	11	Homes:	0	1	4	4	Homes:	0	0	6	

P.L. = Privately owned lots

***= When all rights combined limited to 45 homes, 0.20 cfs, and 12 acres.
****= $0.07 + 0.20 = 0.27$ on 12 acres = 0.0225 cfs/ac

D = 95-08996	Municipal	0.20
(appl.)		(42 lots)

IDAHO DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

APPLICATION # 95-02996

INITIAL REVIEW

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WRI
WRA
BCA

APPLICANT: HARMON'S PROPERTY OWNERS ASSOCIATION

BY: [Signature]

DATE: 10/7/98

DEPARTMENT OF WATER RESOURCES

ITEM REQUIRED INFORMATION

1. ☒ Name and Address
2. ☒ Source
3. ☒ Point of Diversion & County
4. ☒ Quantity
 - ☒ Nature of Proposed Use
 - ☒ Period of Use
5. ☒ Total Quantity
6. ☒ Description of diverting works
7. ☒ Time required for b/u
8. ☒ Proposed use
9. ☒ Place of use or acres irrigated
10. ☒ Other water Rights
11. ☒ Ownership
12. ☒ Map
 - ☒ Signature
 - ☒ Fee (Amt, receipt, acknowledgement)

*** Send info sheet Y() N()

ADDITIONAL INFORMATION

- Yes() No()
- ☒ Field check: by _____
 - ☒ Field report attached
 - ☒ Analysis Supp. attached(>5cfs/500af)
 - ☒ Water delivered by water master?
 - Water District # _____

PROCESSING

(Yes)(No)

PRIORITY DATE: 10/7/98

☒ (Include Moratorium Remark)

☒ Statewide Advertising: (Diversion rate greater than 10 cfs or 1,000 af).

ADVERTISE IN: KOOTENAI County

LETTERS SENT REQUESTING:

() Dam Information () Fish Information

() Power Information () Other: N/A

INFORMATION RECEIVED:

() Dam Information () Fish Information

() Power Information () Other: N/A

GROUNDWATER SECTION

Permit No.'s:	Type:	Fees	Receipt No.	Upgrade Needed?
_____	Dom. Non-Dom. _____	Paid \$ _____	_____	Y () N ()
_____	Dom. Non-Dom. _____	Paid \$ _____	_____	Y () N ()
_____	Dom. Non-Dom. _____	Paid \$ _____	_____	Y () N ()

- ☐ Groundwater management area
- ☐ Critical ground water area
- ☐ Well Drilling Permit required
- ☐ Well Drilling Application and Fees received
- ☐ Well Drilling Application approved?

Remarks: _____

FINAL REGIONAL PROCESSING/REVIEW

- Yes() No()
- ☐ Notice of pending void order issued. Final order response date: _____/_____/_____
 - ☐ Further information required from applicant
 - ☐ Affidavit of publication received
 - ☐ Application published correctly. If not, record action taken: _____

11/23/98 Publication dates and paper recorded on application Sr. Agent initial [Signature]

☒ Protests received, Final protest date: 11/23/98

☒ Measuring device required

☒ Measuring port required

☒ Special conditions:

☒ Special conditions of approval supplement and/or cover letter attached?

Approval Recommended by: [Signature]

Date: 11/30/98

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Department of Water Resources

RECEIVED

FEB 26 1998

NORTHERN REGION
IDWR

February 1998

**HARMON PROPERTY ASSOCIATION WATER DEVELOPMENT PLAN FOR THE
HARMON FIRST AND SECOND ADDITIONS.**

Submitted to: Idaho Department of Water Resources (IDWR), Mr. Robert Haynes,
Director of the Northern Region, Couer d' Alene, Idaho.

Applicant : Harmon Property Owners Association,
Betty J Neuenschwander, President. Her correct mailing address is: Betty J.
Neuenschwander, 1437 Pine Cone Road, Moscow, Idaho, 83843. Telephone : 208 -
882 -1403. FAX : 208 - 882 - 1403.

Water Source: The property owners in Harmon First and Second Addition
formed the Harmon Property Owners Association (HPOA) in part to provide
water to their members. The HPOA well is located in Worley, Kootenai County,
Idaho -- Government Lot 4 (SWSW), Section 19, Township 43, Range 03 West. The
well was established in December, 1982 by Gill Harmon. The Well Number is 96 -
- 82 -- N -- 32. The Permit to Appropriate Water, No. 95 - 08623, for 0.10 Cubic
Feet per Second (CFS) (which is 44.8 gallons per minute) was received by IDWR
on September 28, 1989 and recognizes domestic use for 80 homes and irrigation
for 40 acres.

Purpose and Need: The above water source is the only currently available water
for Harmon Property Owners Association (HPOA) for Harmon First and Second
Additions. The water rights petition including a one time extension was filed in
August, 1997. Currently, the association has 43 of the potential 86 parcels using
water. We project that in 35 years the HPOA will have 69 houses and the
remaining members will have sold or developed their lots.

The members of the Harmon Property Owners Association in the First and Second
Additions request to amend our water rights to reasonably anticipate our future
needs.

Authorities: The Harmon Addition Restrictive Conveyances states on page 5 for
the First Addition and page 4 for the Second Addition that "no other water source
other than association water is permitted for use within the Association." HPOA
is the supplier of water to its members.

Department of Environmental Quality (DEQ) considers HPOA as a municipal
water supplier according to Idaho Code 39 - 103 # 15. The Code indicates that

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Municipal water supplier provides water to 10 or more households. HPOA currently has 68 members, 86 potential lots and 43 lots with water hook - ups.

HPOA requests that priority water rights for well number 95 - 82 - N - 32 and its aquifer be amended under Idaho Code 42 - 202 which indicates that a municipal water provider may appropriate water for reasonable anticipated future needs. The Code requires a water development plan.

Growth Development Plan

1. Location and Description. The Harmon First and Second Additions are located approximately 8 miles East of Worley, Idaho along the South West banks and uplands of Carey Bay (Little Squaw Bay) of Lake Coeur d' Alene. (General Location Map, 1.). The combined Additions comprise the Harmon Property Owners Association (HPOA). The Association currently has 68 members and some own more than one lot. The legal description is: Township 47, Range 03 West, Section 19. (Harmon Association Map, 2). The area's historical landmark is the Conkling Park Store and Marina which is about a mile away.

Conkling Park is about 45 minutes from Coeur d' Alene, Idaho, about 50 minutes from Spokane, Washington, 65 minutes from Moscow, Idaho and the same from Pullman, Washington. Conkling Park is a favorite recreation area for these communities. The entire area near the Southwest shore of Lake Coeur d' Alene is commonly referred to as Conkling Park, however, at least 10 separate Associations make up the area with about 389 building lots and a commercial marina and cafe. The area is about 56% developed.

Idaho Department of Water Resources (IDWR) lists 10 wells as water sources for the Conkling Park area, but 3 of these wells are not functional at this time.

The Conkling Park area's economy is primarily recreation associated with the lake and retirement living along its shores. The largest employer in the Worley area is the Coeur d' Alene Tribe. The Conkling Park Associations are private inholdings within the Tribe's Reservation.

Conkling Park's proximity to Spokane and Coeur d' Alene combined with retirement living, lake recreation and Tribal resorts and gaming, will likely increase the employment, recreational use and the population near and in Conkling Park area.

2. Harmon First and Second Addition -- Current Status. The Harmon First and Second Additions were combined to form the Harmon Property Owners Association (HPOA). The Association currently has 68 owners and 86 lots. The primary role of the Association is to provide water to its members, maintain the community water system, maintain the association roads, maintain right of ways, maintain common areas, maintain the community docks and deal with important issues as they arise. In this role, the Idaho Department of Environmental Quality (DEQ) has classified the HPOA as a community water provider and community water source under 39 - 103 #15 of the Idaho Code. Two wells were drilled by Gill Harmon as private residence wells for First and Second Additions and then turned over to the HPOA but one became dysfunctional. The current Association water source is one functional well (95.- 82 - N - 32).

2. 1. Well. The HPOA well was drilled by Gill Harmon in December, 1982 (permit number 95-82-N-32) and it services the Harmon First and Second Additions. The Association hired John Riley, a hydrogeologist from Pyrite Hydrochem, Post Falls, Idaho in October, 1997 to establish the base line data on the Association well and aquifer. He has conducted two tests. This is what we know about the well and aquifer:

1. The initial well blow test was about 50 gallons per minute.
2. The estimated pump yield is approximately 25 gallons per minute. This calculation was based on the pump curve and estimated total dynamic head.
3. The daily water yield at 25 gallons per minute is 36,000 gallons per day.
4. The maximum pump yield is 32 gallons per minute.
5. The pump intake is 374 feet.
6. The well is 402 feet deep.
7. The pumping elevation is 2170 and the depth is 30 to 40 feet above Couer D' Alene Lake.
8. The static water level was reported at 193, 196 and 206 feet.
9. Oct. 29th, 1997: Well pumping level was 319 feet below the top of the casing.
10. Nov. 4th, 1997: During a 5 hour test (constant rate) the pumping level after one hour was 259 feet below the top of the casing. After one hour with a discharge rate of 23 gallons per minute, the draw down level was about 59 feet.
11. Nov. 18, 1997: During a 24 hour test (constant rate) the pumping level after one hour with discharge rate of 30 gallons per minute was 294 feet below the top of the well casing. This resulted in a 101 feet of draw down. The pumping level was 305 feet below the top of the well casing after 24 hours of pumping. This resulted in 112 feet of draw down. Well recovery was rapid (100 feet in 30 minutes) and trends were similar to the draw down.
12. Specific capacity of the well is 0.27 gallon per minute per foot of draw down (30 gallons per minute / 112 feet draw down).

13. The maximum sustainable production possible from the well is approximately 40 gallons per minute (based on the specific capacity, static water level and pump setting).
14. The radius of the cone of depression is 200 to 300 feet after 4 hours of pumping. Any additional wells should be located twice that distance from the HPOA well to minimize interference between the wells.

2. 2. Water Delivery. The HPOA examined the Association water delivery system and we have found:

- Water storage is two 5,000 gallon small tanks and one 40,000 gallon large tank:
- Water delivery varies from 3 to 1 inch main lines for the 36 potential users in the Harmon's First Addition and a 6 inch line for the 50 potential users in the Second Addition.
- Standard 4 inch fire hydrants are present in the Second addition but not the First. The small main line in the First Addition will not support a standard 4 inch fire hydrant.

3. Data for the Plan. HPOA gathered or located data to build this water development plan.

- We completed a telephone survey of the Harmon Property Owners. IDWR previewed a draft of the survey and indicated that we should proceed. We contacted 72 of the 86 lot owners (84%). The telephone survey identified the current lot owners, their water use and future plans. From the survey we prepared Graphs 1 & 2.
- We conducted a walk through lot by lot inventory and independently determined the building improvements, presence of water fixtures and water use potential. The inventory was used to verify the Survey and HPOA records. The walk through inventory counted 43 current water users.
- We requested the HPOA records for water hook - up and water use fees paid by the Association members. HPOA records verified the walk through inventory and allowed the Survey base level to be adjusted to 86 lots.
- We gathered historic and future population growth projections from Idaho Power Co., the US Forest Service Interior Columbia Ecosystem Analysis Project and the University of Idaho Small Business Development Center. Since all population growth projections were similar, we decided to use Kootenai County population growth rate projections from Idaho Power as provided by Dr. Hank Robison from the University of Idaho. We updated their projections with Idaho

Department of Commerce records. Idaho Power is projecting future population expansion of Kootenai County at 2.25% per year (Graph 3.).

- We requested records from the Coeur d' Alene Tribe but none have been forthcoming. We examined records from Panhandle Area Development Council but their records were from the 1990 census and are not current. We called and visited Kootenai County Building and Planning Departments and collected pertinent records. Building projections for local areas were not available.
- We contacted First Security Bank and they agreed to provide us the "Idaho Construction Report" by Dr. Kelly Matthews. It contains a yearly summary for the building activity in Kootenai County. We summarized the annual reports from 1975 to 1996 and regressed the line of best fit (Graph 4).
- We provided IDWR a progress report with these data and requested to proceed on November 19th, 1997. Bob Haynes said he sent the progress report to Boise for further review. He thought we should proceed with the plan and that we did not need additional data at this time.

4. Results. The data inquiry, survey and future projections suggest the following conclusions:

- Our results show that the HPOA has a future growth rate of 1.22 house per year and a 2.88 persons per year population increase. (See attached graphs with unadjusted data from our survey, Graph, 1 & 2). Kootenai County population growth is 2.25% per year. The HPOA population growth(2.88% per year) is about the same as Kootenai County.
- The regression projections for the population growth rate for Kootenai County suggest 2,036.60 (Graph, 3) additional people per year and the best fit regression for building growth rate is 486.59 building units per year (Graph, 4). Since the structure of the regressions are the same for HPOA and Kootenai County, a simple comparison of the ratio of population growth to building units is possible and meaningful. This computation suggests that 79% more building units (houses) per population unit growth occur in HPOA as compared to the County as a whole.

ratio:	Population / building units
Kootenai County	= 2036.60 / 486.59 = 4.19
HPOA	= 2.88 / 1.23 = 2.34
Kootenai County / HPOA = 1.79	

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- HPOA has 86 Lots in the Association and provides water to at least one non Association owner. When completely developed, the current well and pump will supply only 418 (36,000 gallons per day / 86 potential households) gallons per day per lot. That is, for a single one inch gate valve that is completely open, each lot will have about 55 minutes of free flowing water per day (418 gallons per day / 7.5 gallons per minute). We measured a kitchen fixture and the water flow was about 2 gallons per minute (3.4 hours of water per lot per day). A water conservation efforts and an irrigation plan will be needed in the future. This may be enough water for domestic use and conservative irrigation but the data also suggest that HPOA may need an additional well sometime in the future.

5. The Plan. Idaho code 42 - 202 provides for municipal water authorities and associations to reserve water for reasonably planned future needs. The law states that a water development plan must be written and approved. The plan must contain future needs and a reasonable time horizon.

The data presented in this water development plan shows that HPOA has reasonable anticipated need for future water. The data also demonstrate the need for a 35 year planning horizon. We currently have 26 homes (43 association water users). These homes require domestic water and 66% also require water for irrigation. For the year 2032 (1997 + 35 years), we project 43 additional homes for a total of 69 houses. This is 80% of the potential lots that could be developed. The remaining 20% (17 lots) should have time either to be sold or to be improved. And within this planning horizon future lot owners will have time to determine their water needs.

We request that the number of water rights granted be extended to all 86 lots in the Harmon First and Second additions. HPOA Conveyance states that water can not be obtained from any other source than from Association water. We have only one working water source and the underlying aquifer. The well is marginal for the 86 lots and will with it current pump only supply 418 gallons per lot per day per household when all the lots are developed. If we pump the maximum capacity of the well (40 gallons per minute), then we could supply 662 gallons per day per house hold. We were told that IDWR uses 1,000 gallons a day per household and DEQ uses 800 to 1200 gallons per day in their water development planning. We are about half of that. Any change in the well characteristics or in available water from the aquifer could adversely impact our only water supply.

Obviously, the HPOA must provide water for all 86 lots in the Harmon First and Second Additions. We do not have the water to extend membership to additional developments, associations, or to even additional lots. Therefore, under this plan,

the 86 lots in HPOA will be the final and total number of lots (parcels) requesting water rights under the HPOA.

Our owners naively assumed that because they have water to their lots and homes that they must also have water rights. We know now that this assumption was wrong. Thus, we prepared this plan so IDWR can protect the water for use by the current and future property owners in the HPOA, especially, for owners who do not currently have water rights. Idaho code 42 - 202 is good legislation and it is designed to help communities such as ours.

6. Plan Approval: This plan was approved by:

The Harmon Property Owner Association, President, Betty J. Neuenschwander.

Signature: Betty Neuenschwander Date: 2/25/98

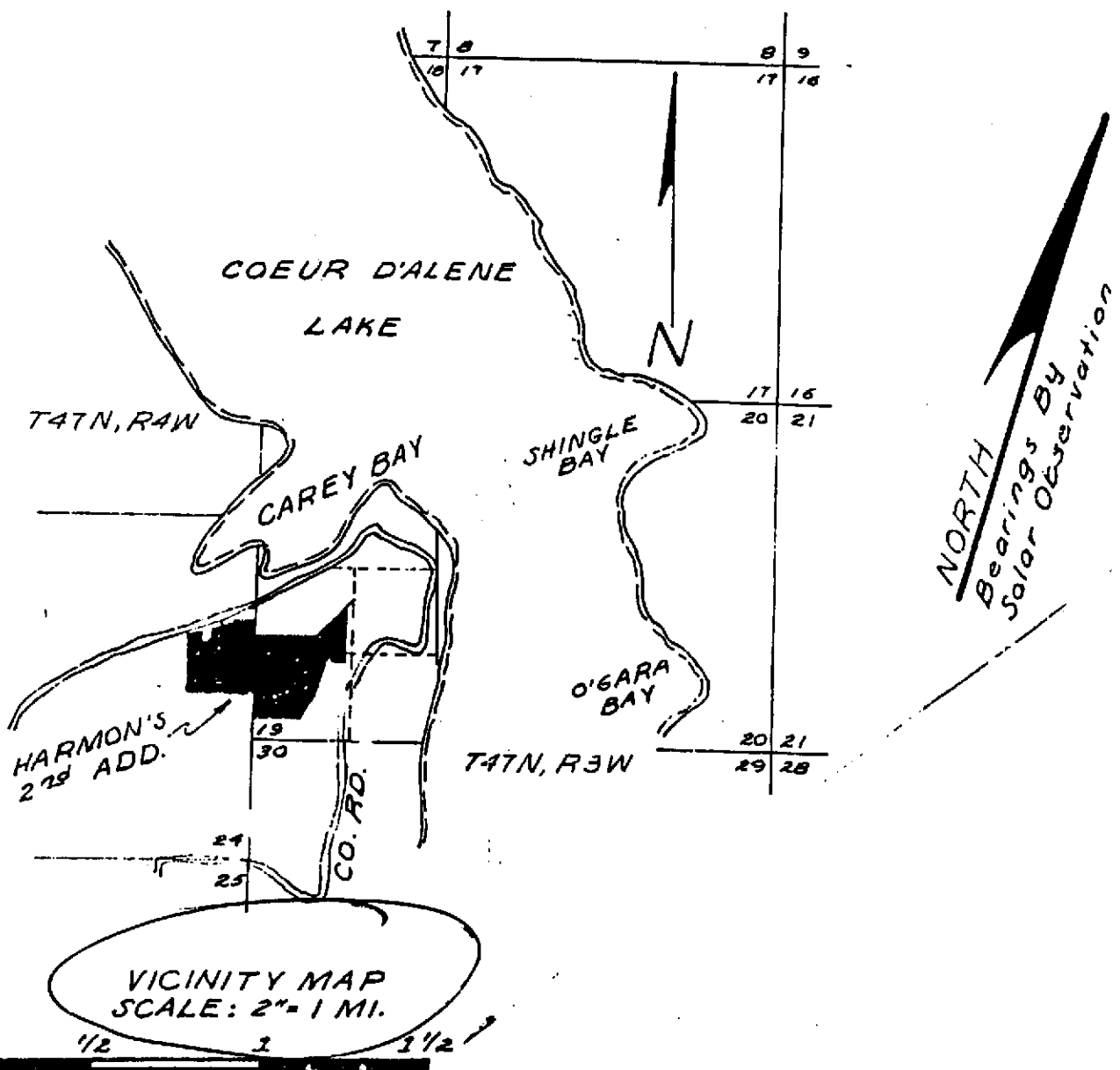
The Idaho Department of Water Resources, Regional Director, Robert Haynes.

Signature: _____ Date: _____

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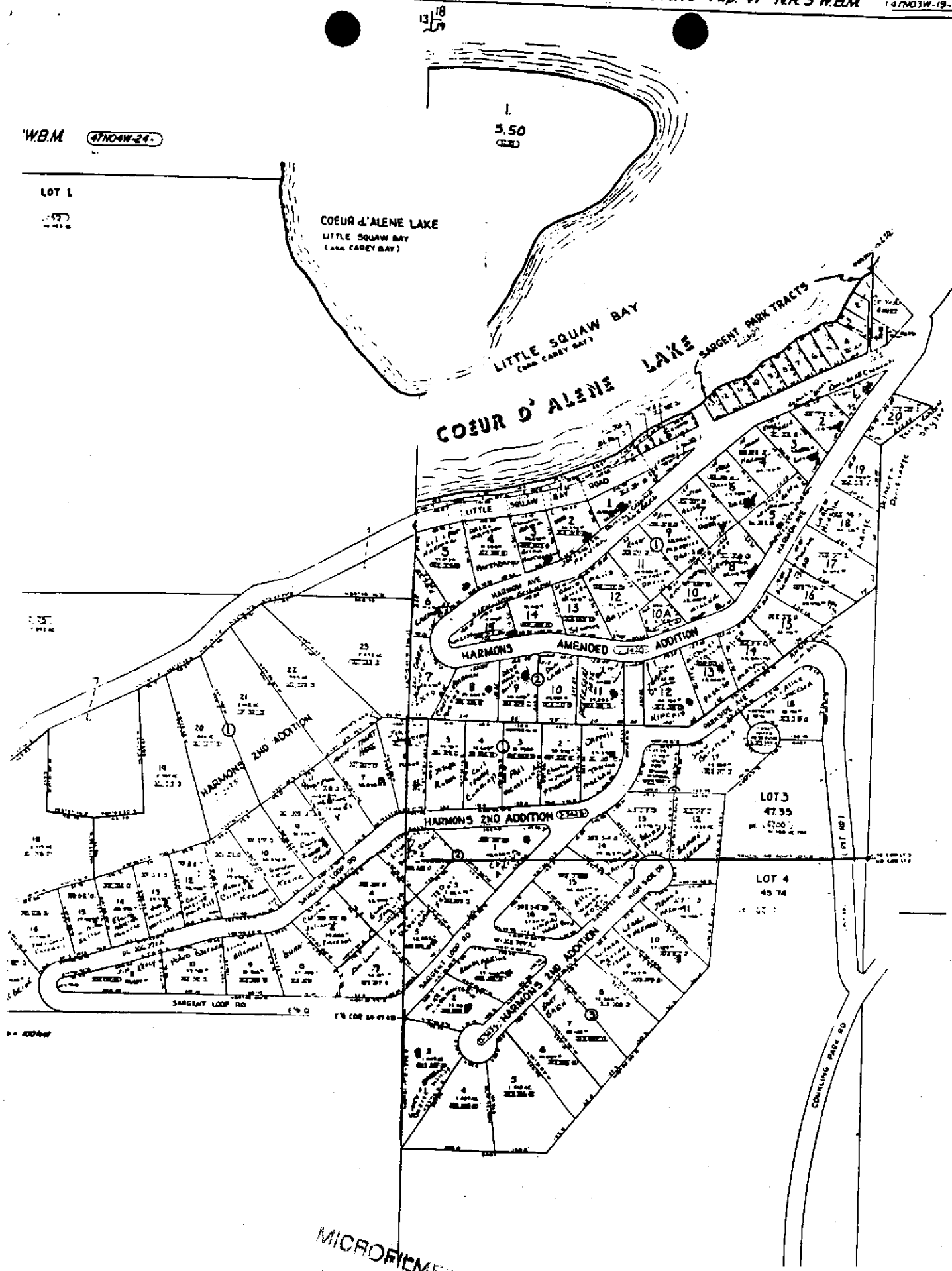
HARMON'S SECOND ADDITION

PART OF GOV'T. LOTS 3 & 4, SEC. 19, T47N
R3W & NE 1/4, SEC. 24, T47N, R4W
KOOTENAI COUNTY, IDAHO

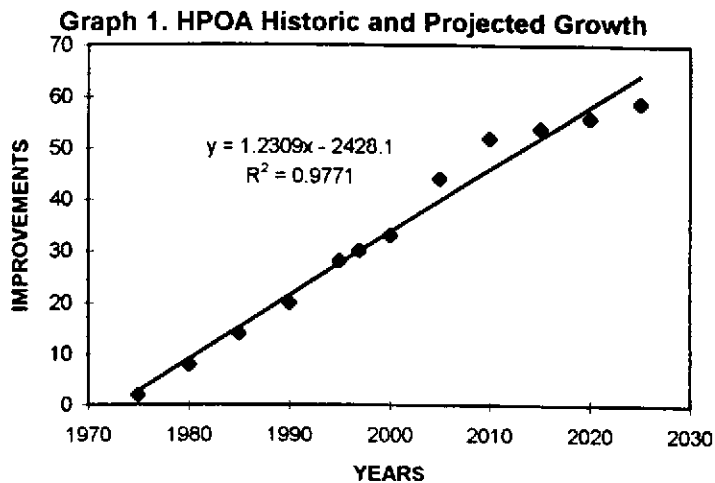


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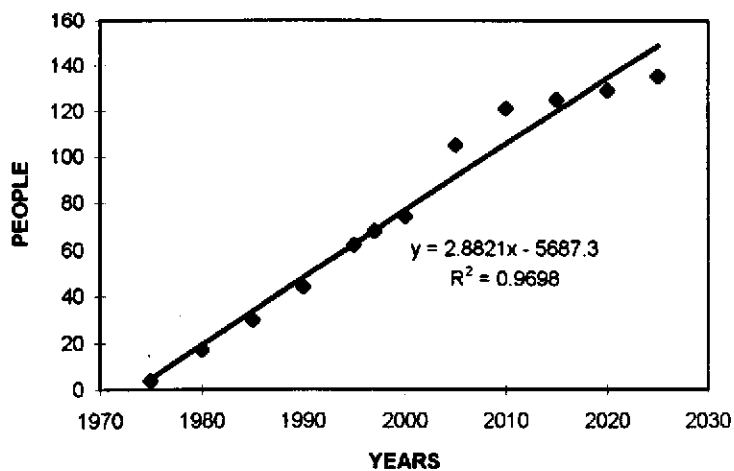
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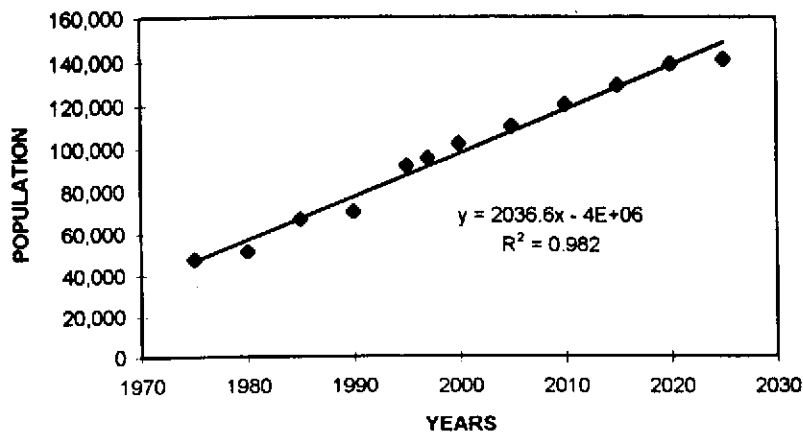
MICROFILMED
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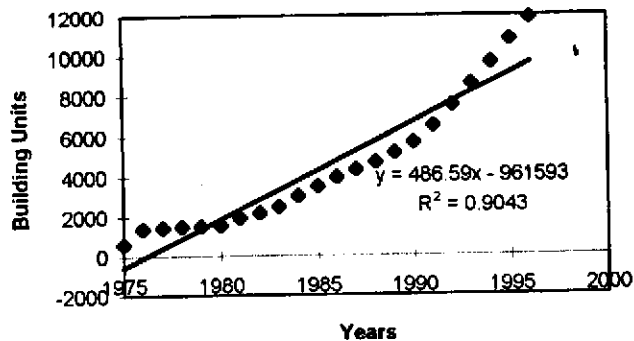
Graph 2. HPOA Future Resident Projections



Graph 3. Idaho Power Population Estimates for Kootenai County



Graph 4. Building Units in Kootenai County



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CAREY BAY

SAMPLING SCHEDULE

#1 - MAY 91

#2 - JUNE 91

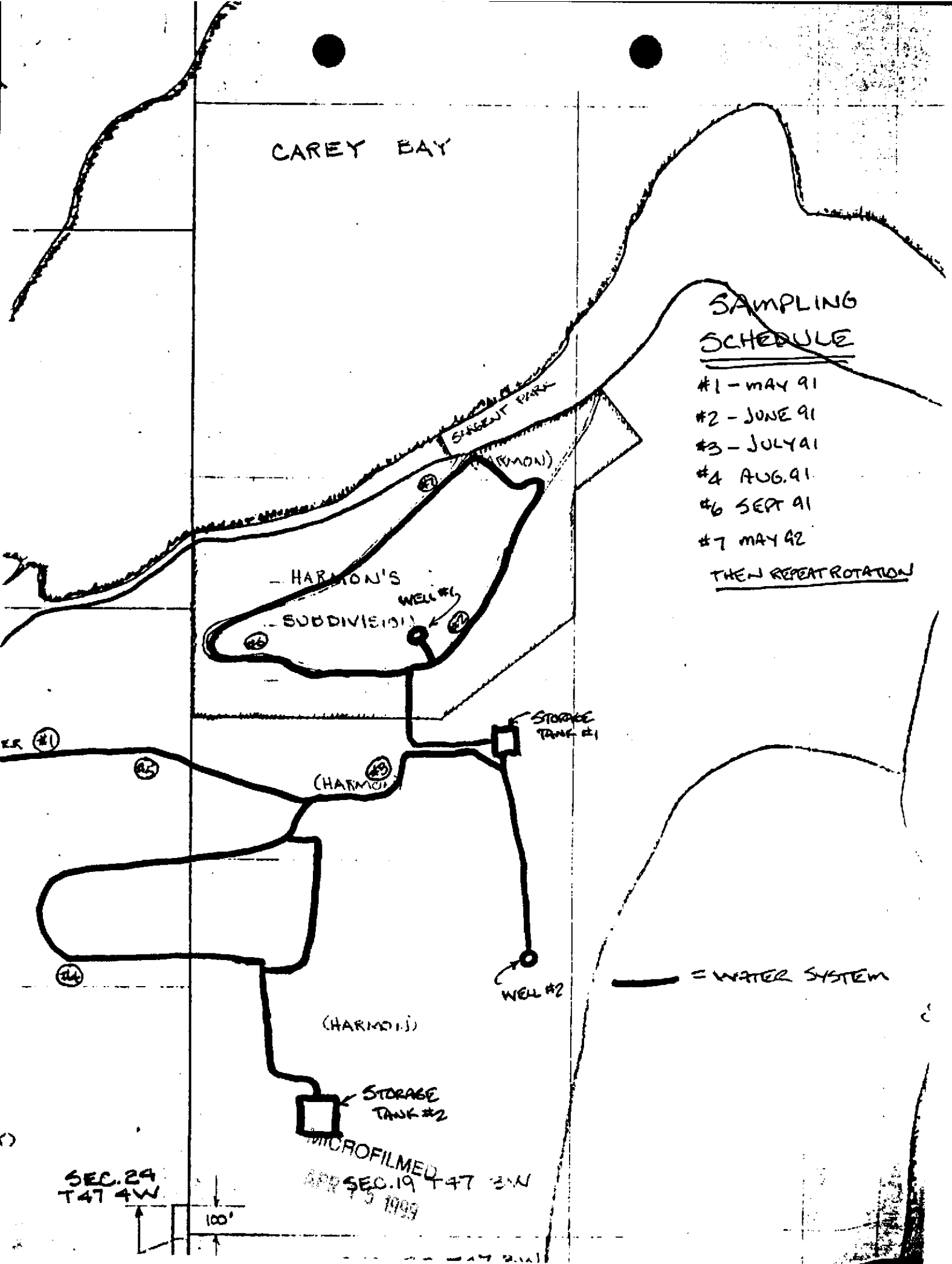
#3 - JULY 91

#4 AUG. 91

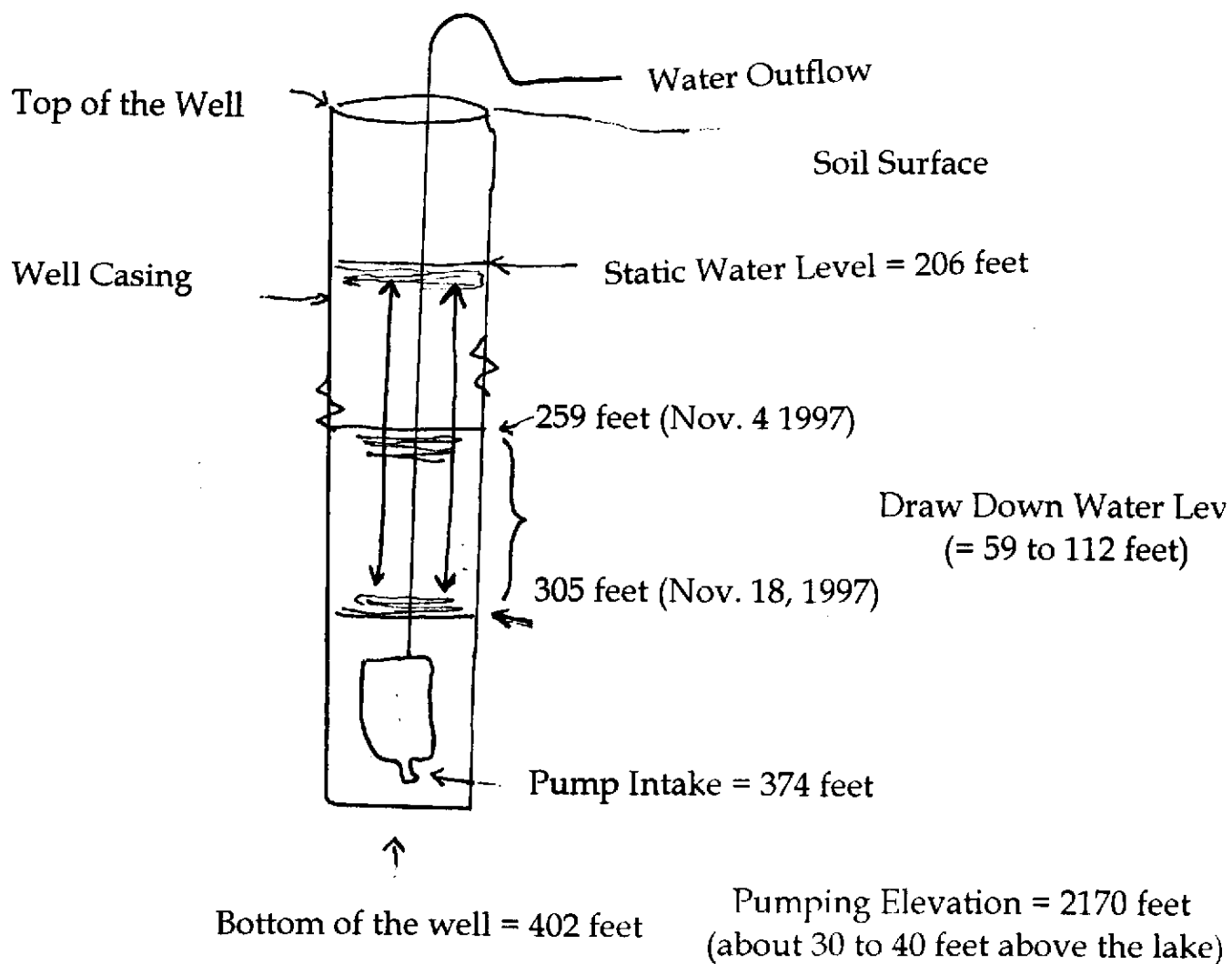
#6 SEPT 91

#7 MAY 92

THEN REPEAT ROTATION



Harmon Association Well



Pump = 25 gallons per minute
Maximum Capacity = 40 gallons per minute
Blow Test = 50 gallons per minute
Cone of Depression (= 200 to 300 feet)

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Harmon Assn.

November 4, 1997

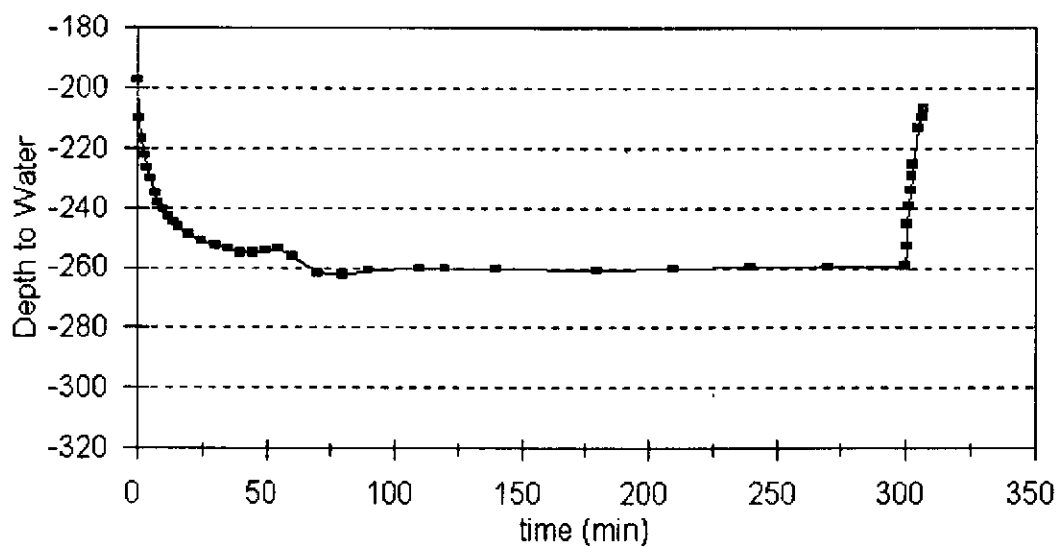


Figure 1. Pumping Level and Recovery, Harmon Property Owners Association, Test 1.

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Harmon Assn.

November 18, 1997

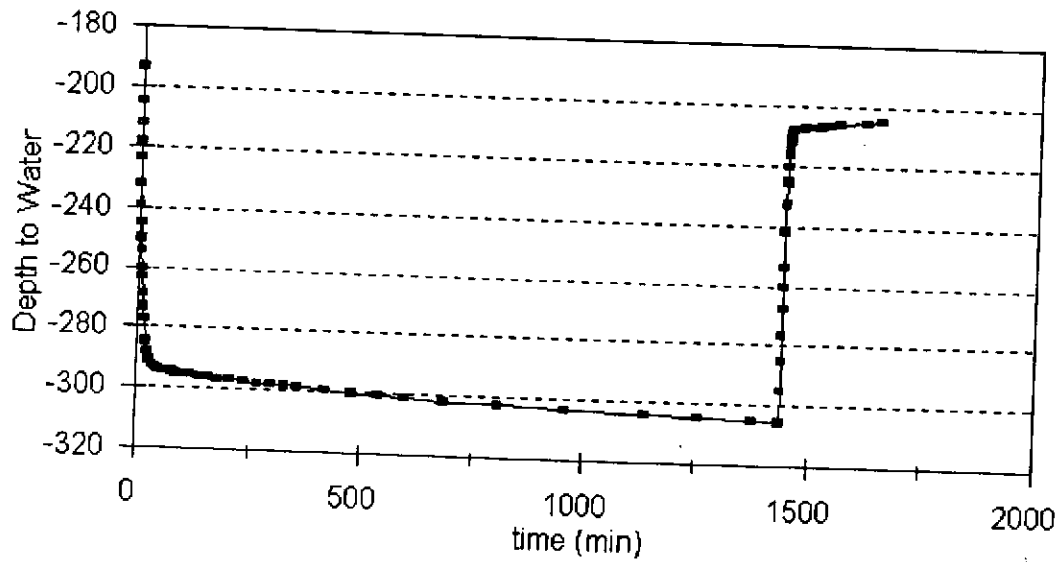


Figure 2. Pumping Level and Recovery, Harmon Property Owners Association, Test 2.

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Harmon Assn.

November 18, 1997

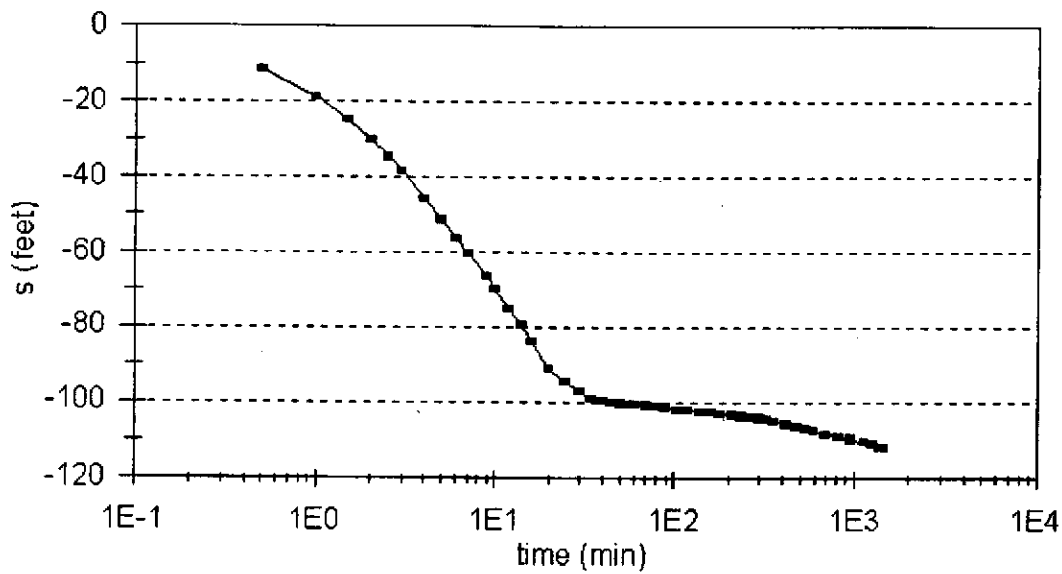
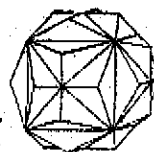


Figure 3. Drawdown versus log time, Harmon Property Owners Association, Test 2.

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John A. Riley
Consulting
Hydrogeologist



MEMORANDUM

Date: February 20, 1998

To: Betty Neuenschwander, Harmon Property Owners Assn.

From: John A. Riley, Hydrogeologist

Subject: Corrections to Water Development Plan

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FEB 26 1998
NORTHERN REGION
IDWR

I have reviewed the December, 1997 draft of the above mentioned document. I suggest making the following changes to Section 2.1 Well:

1. John Riley is a hydrogeologist, not a water engineer.
2. A full report will be prepared by February 25, 1998.
3. (#2.) **Change to read:** Estimated yield of the pump is approximately 25 gallons per minute, based on the pump curve and estimated total dynamic head. This results in an approximate daily yield of 36,000 gallons.
4. (#8.) **Change to read:** Oct. 29th, 1997: Pumping level was 319 feet below the top of the casing.
5. (#9) **Change to read:** Nov. 4th, 1997: During a 5 hour, constant rate test, pumping level was 259 feet below the top of the casing after one hour, at a discharge rate of 23 gallons per minute. This results in 59 feet of drawdown.
6. (#10) **Change to read:** Nov. 18th, 1997: During a 24 hour, constant rate test, pumping level was 294 feet below the top of the casing after one hour, at a discharge rate of 30 gallons per minute. This results in 101 feet of drawdown. The pumping level was 305 feet below the top of the casing after 24 hours. This results in 112 feet of drawdown. Well recovery (as is).
7. (#11.) **Change to read:** Specific capacity of the well is 0.27 gallons per minute per foot of drawdown (30 gallons per minute / 112 feet of drawdown).
8. (#12.) **Change to read:** The maximum production possible from the well is approximately 40 gallons per minute, based on the specific capacity, static water level and pump setting.
9. (#13.) **Change to read:** The radius of the cone of depression is between 200 and 300 feet after 4 hours of pumping. Any additional wells should be located twice that distance from the HPOA well to minimize interference between the wells.

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My forthcoming report will provide additional calculations as support for these results. The values may change slightly, but the above values are not misleading or false.

If you have any questions or comments, please contact me at 208.773.5223. FAX number is the same, via automatic switching device.

John A Riley

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