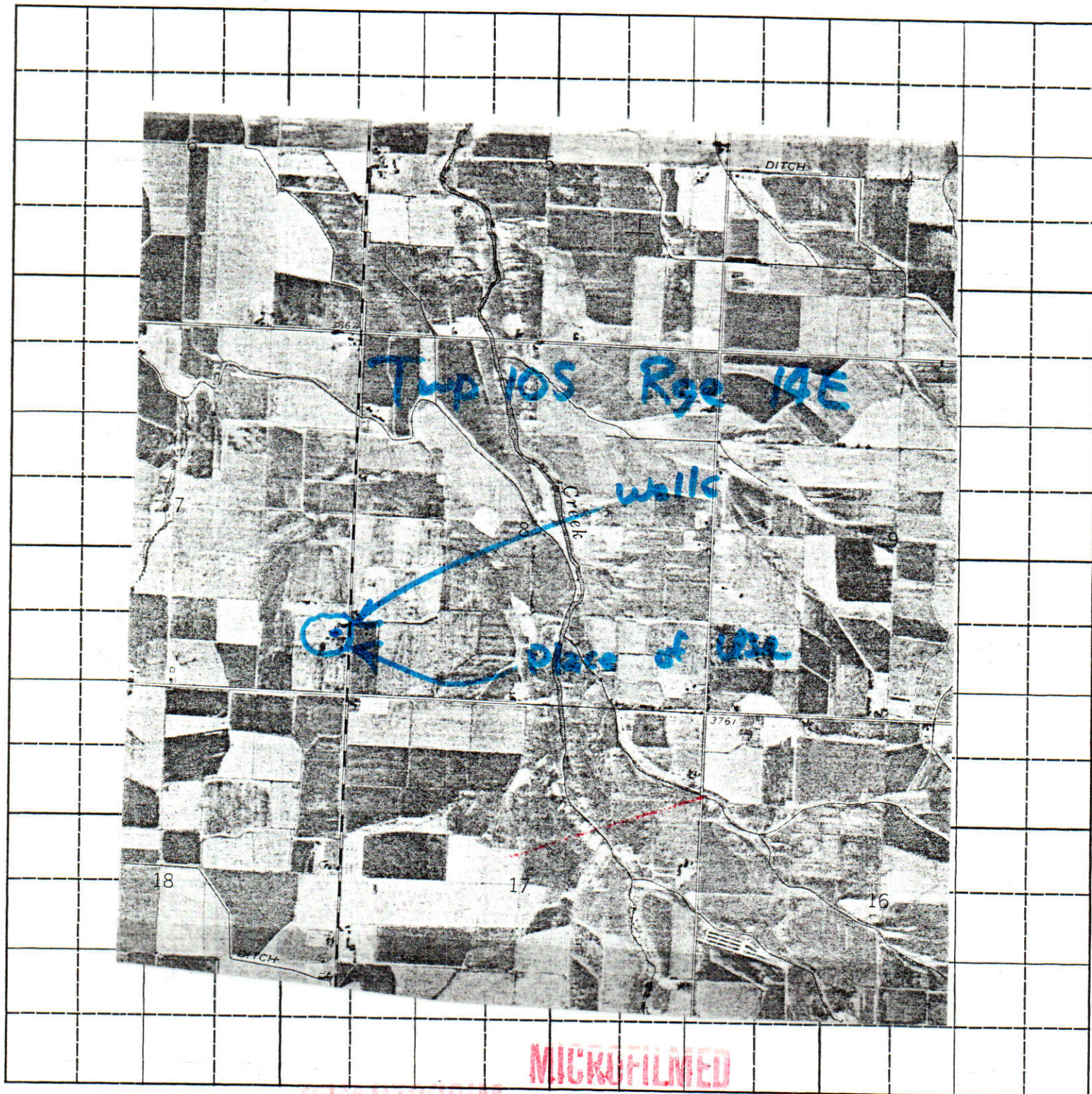


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



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.

[Signature]
(Applicant)

T10S

T. 9 S.

T. 10 S.

4717

35'

4716

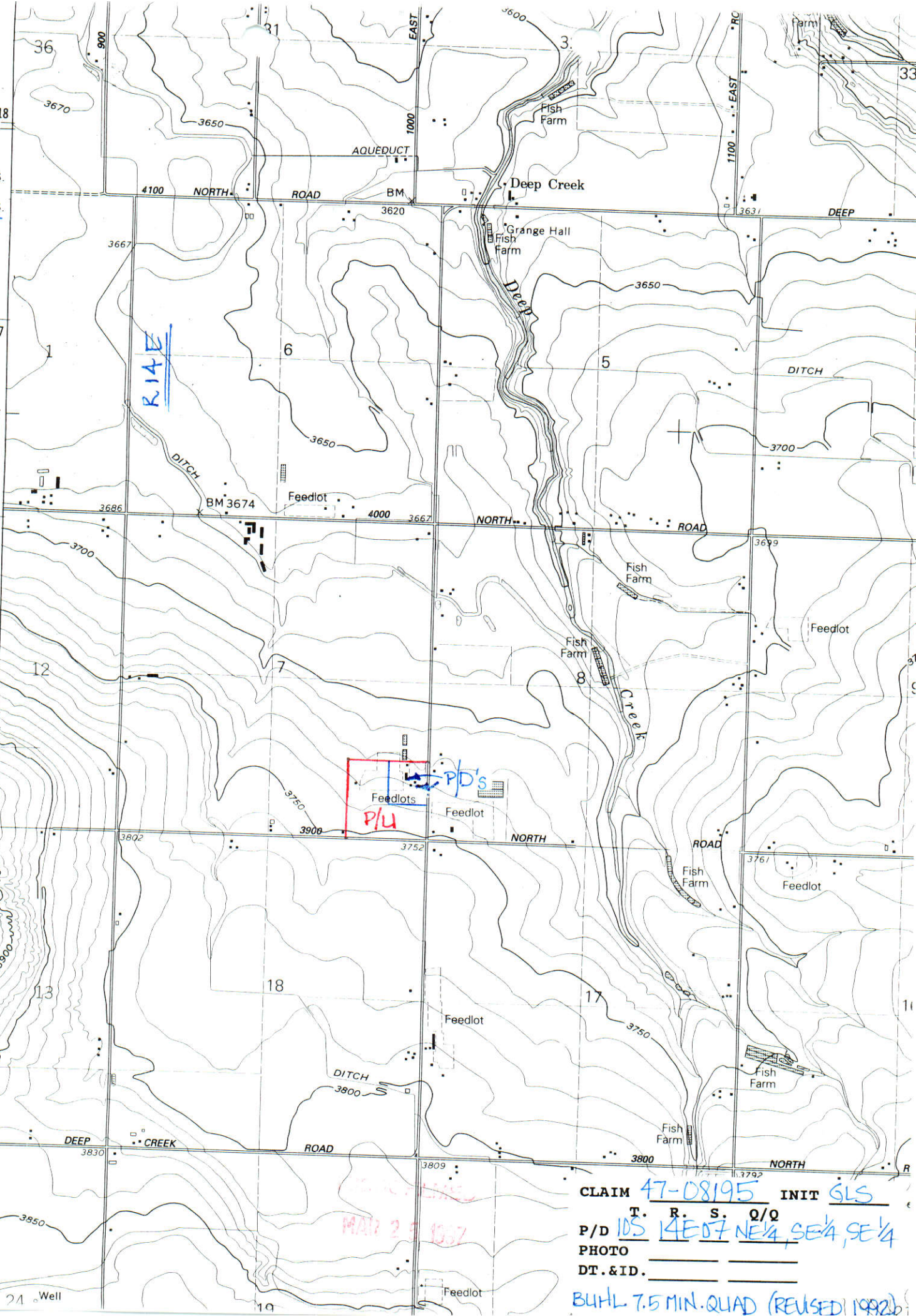
4715

4714

4713

4712

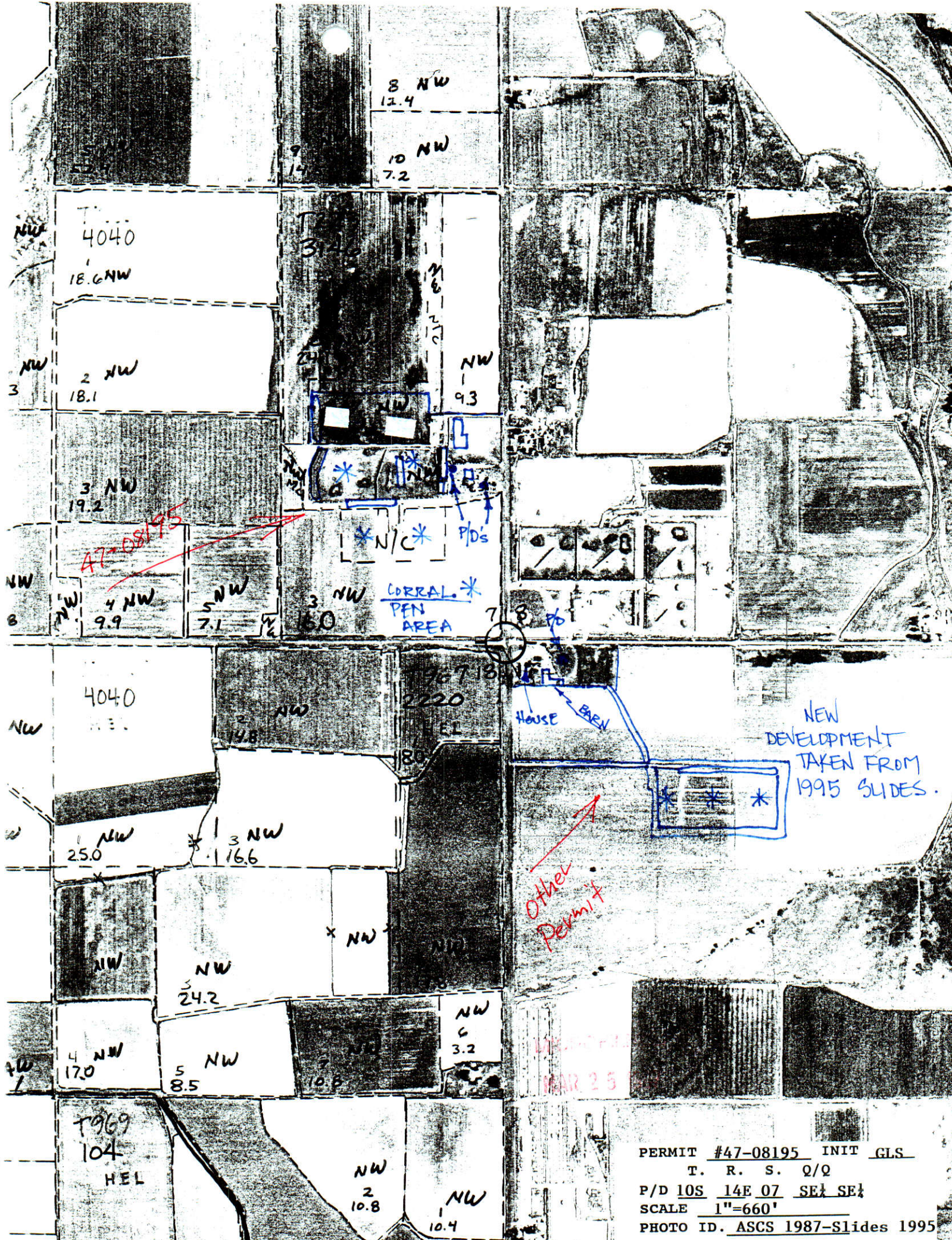
(BALANCED ROCK)



NO. 14 LINE
MAY 2 1937

CLAIM 47-08195 INIT GLS
T. R. S. Q/Q
P/D 10S 14E07 NE 1/4, SE 1/4, SE 1/4
PHOTO _____
DT. & ID. _____

BUHL 7.5 MIN. QUAD (REUSED 1992)



PERMIT #47-08195 INIT GLS
T. R. S. Q/Q
P/D 10S 14E 07 SE 1 SE 1
SCALE 1"=660'
PHOTO ID. ASCS 1987-Slides 1995

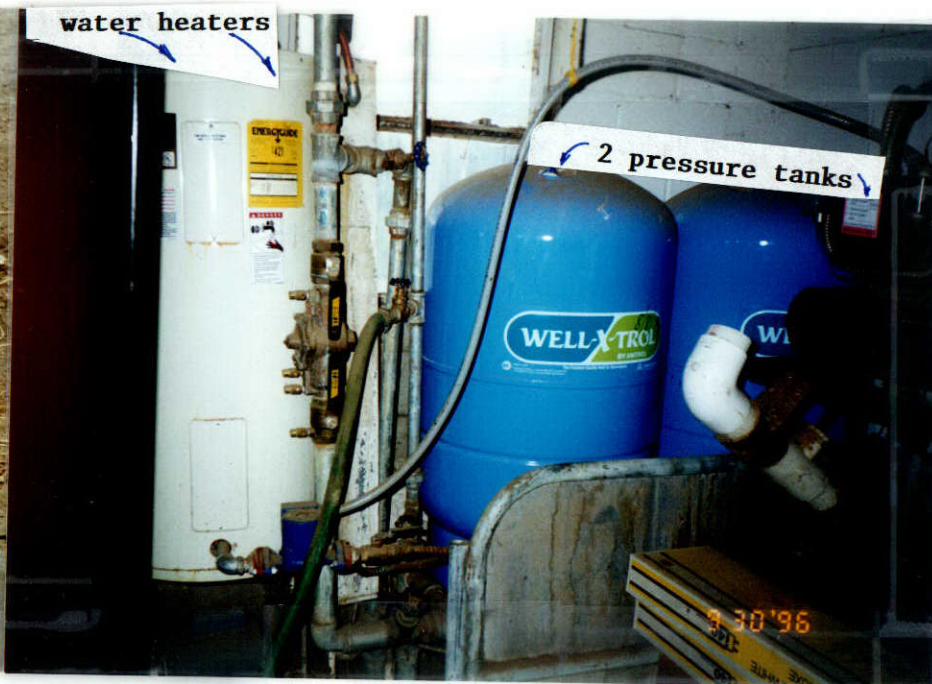
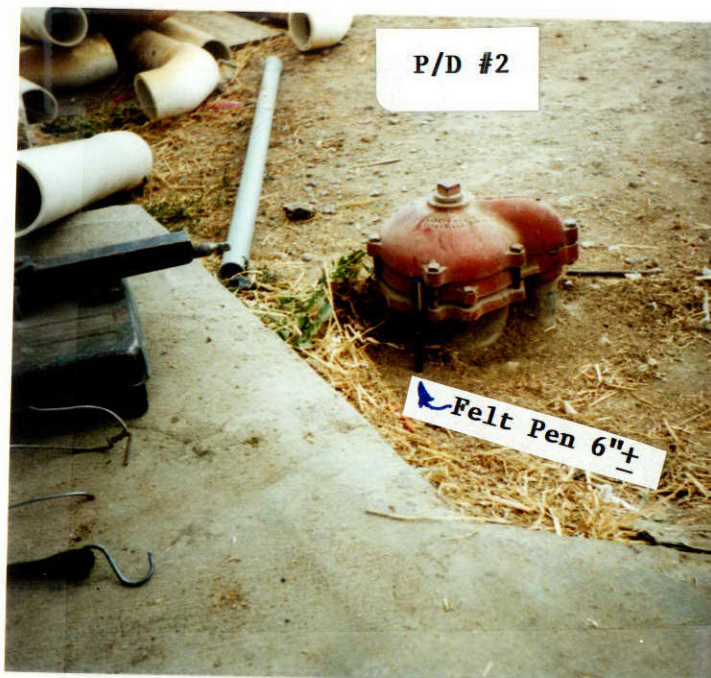


P/D #1 pumphouse

MICROFILMED
MAR 25 1997



#47-08195 Approximate Time 1400 hrs.
Date of Exam: 30 Sept 96
Examiner: Satterlee, G.

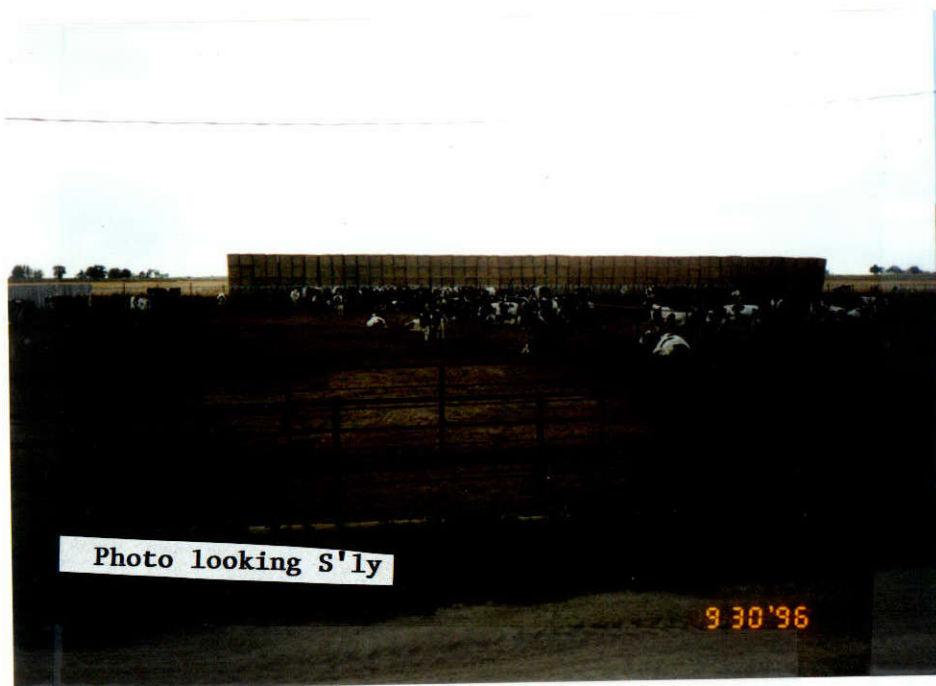


4000 gal. milk cooler



#47-08195 Bokma, Harry & Flora
Date: 30 Sept 1996

P/D=Section 7, T10S, R14E SE $\frac{1}{4}$ SE $\frac{1}{4}$



RECORDED
MAR 25 1997

#47-08195 Approximate Time: 1400 hrs
Date of Exam: 30 Sept 1996
Examiner: Satterlee, GL
P/U Sec 7, T10S, R14E SE¼ SE¼



Approximately 8 Stock Tanks of Various Sizes

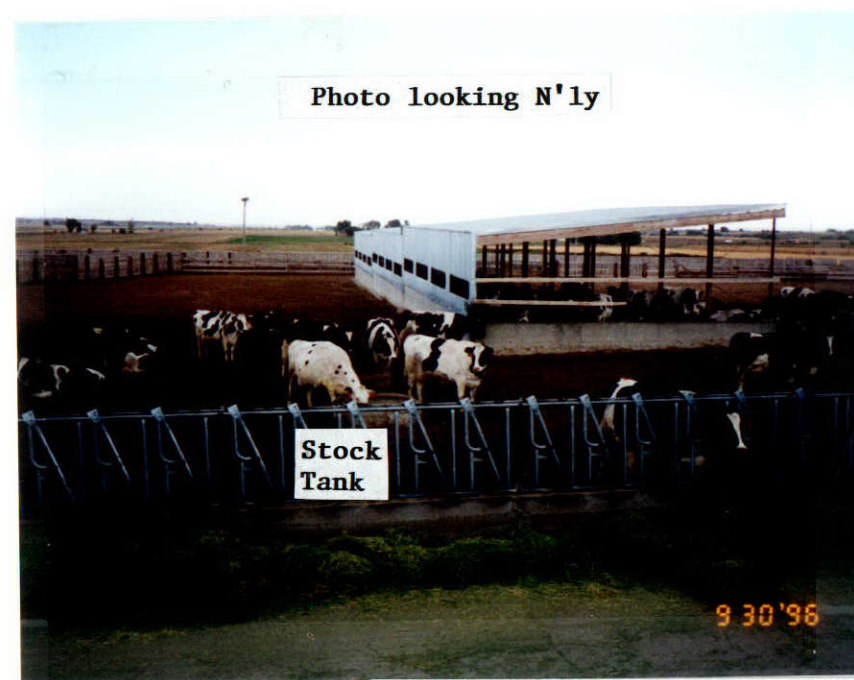
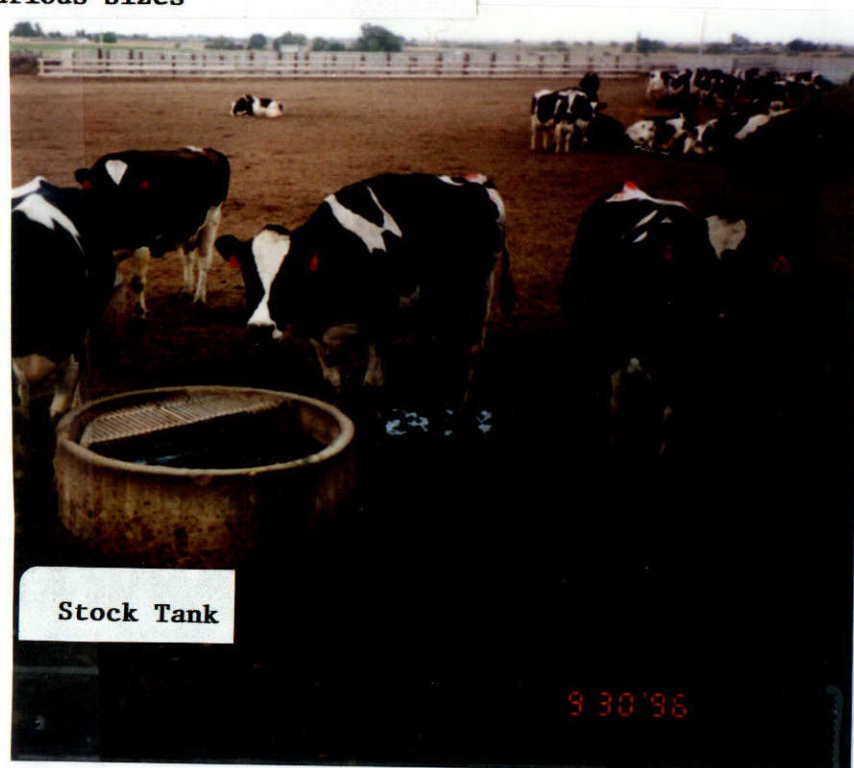


Photo looking N'ly

#47-08195 Approximate Time: 1400 hrs.
Date of Exam: 30 Sept 1996
Examiner: Satterlee, GL

MAR 25 1997

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 47-08195

Priority: January 3, 1989

Maximum Diversion Rate:

0.20 CFS

Maximum Diversion Volume:

29.0 AF

This is to certify, that HARRY BOKMA
FLORA BOKMA

3919A N 1000 E

BUHL ID 83316

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated January 3, 1989; and has submitted Proof of Beneficial Use on July 23, 1991. An examination indicates that the works have a diversion capacity of 0.200 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.20 CFS	22.5 AF
COMMERCIAL	01/01 to 12/31	0.20 CFS	6.5 AF
	Totals	0.20 CFS	29.0 AF

LOCATION OF POINT(S) OF DIVERSION:

SESE, Sec. 7, Township 10S, Range 14E
TWIN FALLS County

PLACE OF USE: STOCKWATER

TWN RGE SEC

10S 14E 7

SESE

PLACE OF USE:

COMMERCIAL, same as STOCKWATER use

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Two points of diversion are located within SESE, S07, T10S, R14E.
6. Commercial use is for a dairy.

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 47-08195

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 7TH
day of MARCH, 1997.


KARL J. DREHER, Director
Acting for

RECEIVED

JUL 23 1991

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

For Office Use Only
 Amt. of Fee \$ 50.00
 Date 7-25-91
 Receipt No. 6021276
 Received by M.H.

Department of Water Resources

PROOF OF BENEFICIAL USE

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

1. Permit No. 47-08195 Telephone No. 208-543-4546

2. Name(s) of Permit Holder(s): HARRY or FLORA Bokma

3. Post Office Address: Rt 2, 3919 N-1000 E, Buhl, ID, 83316

4. Source of Water: _____

a. If ground water, well driller's name: Cramer Date drilled: old well 1935
New well 1983

b. Pump horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft.): _____

5. Extent of Use:

Domestic 2 1/2 (No. of households) Irrigation _____ (No. of acres)

Stockwater 570 DAIRY COWS (No. and type of stock) VARIES Other _____
8 DAIRY BULLS

6. Total rate and/or volume for which proof is submitted .20 cfs _____ acre/feet

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

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

OR

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

8. Fee Enclosed: \$ 50.00 (See License Examination Fee Schedule)

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

Harry or Flora Bokma 208-543-4546
 Name Telephone No.

Rt 2, 3919 N-1000 E, Buhl, ID, 83316
 Address

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

7-7-91
 Date

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

RECEIVED
 AUG 21 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 47-08195

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Harry Bokma &/or Flora Bokma Phone 543-4546
Post office address 3919-A North 1000 East, Buhl, Ida, 83316

2. Source of water supply Groundwater which is a tributary of _____
(2 wells)

3. Location of point of diversion is NE $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$, Govt. Lot _____
Sec. 7 Township 10S. Range 14E B.M. Twin Falls County; additional
points of diversion if any: _____

4. Water will be used for the following purposes:

Amount .20 for Commercial purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount .20 for Stockwater purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

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

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

5. Total quantity to be appropriated is (a) 0.20 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Two existing wells connected
to common pipeline network supplying water to dairy barn
and troughs

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

c. Existing 5 ? ?
Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

d. Is ground water with a temperature of greater than 90°F being sought? _____

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

MICROFILMED

AUG 23 1989

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

- a. Hydropower; show total feet of head and proposed capacity in KW. _____
- b. Stockwatering; list number and kind of livestock. 600 dairy cattle
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. _____
- e. Other; describe fully. Commercial / washing ect. in 24 stall dairy barn.

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	
10S	14E.	7																C/S	

Total number of acres to be irrigated _____

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

One of the wells is claimed under A47-13905 for domestic

11. 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. _____

12. Remarks: Old well near house was drilled around 1935 and

newer well by barn was drilled in 1983

MICROFILMED

AUG 23 1989

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



MICROFILMED

Scale: 2 inches equal 1 mile.

AUG. 28 1969

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.

Harold D. Brown
(Applicant)

Received by ADN Date 1/3/89 Time 10:02 Preliminary check by TB
Fee \$ 30⁰⁰ Received by ADN # 5005563 Date 1/3/89
Publication prepared by M. Baldwin Date 4/10/89 Published in Times News
Publication approved M. Baldwin Date 5/22/89

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. 47-8195, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before August 1, 19 91.

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: Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.

Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.

Witness my hand this 18th day of July, 1989.

J. Shw Saylor

MICROFILMED

AUG 23 1989

00 5 0 5 0 5 15 10

NOTICE OF APPLICATION FOR WATER RIGHT

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

47-08192
BOY SCOUTS OF AMERICA
SNAKE RIVER COUNCIL
3188 FALLS AVE. E.
TWIN FALLS, ID 83301
Source: Groundwater
Diversion Pt: NENENE
Sec 11 T 10S R 17E
Use: Domestic (.040 CFS)
Date Filed: 12/22/1989
In: T10S R17E S11 NENE
47-08193
NORTHWEST COMMODITIES & PROCESSING INC
RT. 1
FILER, ID 83328
Source: Groundwater
Diversion Pt: SWSWSE
Sec 20 T 09S R 16E
Use: Commerical (.200 CFS)
Cooling (.040 CFS)
Date Filed: 12/28/1989
In: T09S R16E S20 SWSE

47-08194
MUNK, ALBERT J.
RT. 3 BOX 290
BUHL, ID 83316
Source: Wilson Creek
Tributary: Mud Creek
Diversion Pt: NWSW Sec
27 T 09S R 14E
NWSW Sec 27 T 09S R 14E
Use: Power (4.000 CFS)
Date Filed: 12/30/1988
In: T09S R14E S27 NWNW

47-08195
BOKMA, HARRY
BOKMA, FLORA
3919N. 1000 E.
BUHL, ID 83316
Source: Groundwater
Diversion Pt: NESESE
Sec 7 T 10S R 14E
Use: Commerical (.200 CFS)
Stockwater (.200 CFS)
Date Filed: 1/03/1989
In: T10S R14E S07 SESE

47-08196
PECKHAM, KATHLEEN RUYTS
P.O. BOX 186
BUHL, ID 83316
Source: Waste Water
Tributary: Mud Creek
Diversion Pt: NESESE
Sec 13 T 09S R 14E
Use: Irrigation (.040 CFS)
Date Filed: 1/04/1989
In: T09S R14E S13 SESE
2.0 acres total

47-08197
KIMBALL, ALICE R.
KIMBALL, CECILIA
4355 N. 1200 E.
BUHL, ID 83316
Source: Groundwater
Diversion Pt: NESENE
Sec 21 T 09S R 14E
Use: Domestic (.040 CFS)
Stockwater (.050 CFS)
Commerical (.050 CFS)
Date Filed: 1/04/1989
In: T09S R14E S21 SENE

47-08198
MILLARD, DAVID R.
(DBA CRYSTAL SPRINGS RANCH)
RT. 1 BOX 119
FILER, ID 83328
Source: Waste Water
Tributary: Snake River
Diversion Pt: Lot 8 (NWS-
SESE Sec 12 T 09S R 15E

Affidavit of Publication

STAT F IDAHO
COUN OF TWIN FALLS } ss.

1Y 3 1989 No 19743

I, Shirley Capps McQuinn being first duly sworn, depose and say that I am Quinn Clerk of the Department of Water Resources Southern Region Office published daily, at Twin Falls, Idaho, and do solemnly swear that a copy of the notice of advertisement, as per clipping attached, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for Two consecutive Weeks, commencing with the issue dated April 20, 1989, and ending with the issue dated April 27, 1989.

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, until July 31, 1978, at which time said newspaper began daily publication under said name in said city and county continuously and uninterruptedly.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho, to be published weekly, will be published; and that at the head of the editorial column of said combined newspapers, and in each issue thereof, Thursday is announced as the day on which said legal notices will be published.

STATE OF IDAHO
COUNTY OF TWIN FALLS

On this 28 day of April in the year of 1989 before me,

a Notary Public, personally appeared Shirley Capps McQuinn 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 he executed the same.

Sheva R. Feltman
Notary Public for Idaho

Residing at Twin Falls County

My commission expires: 5/19/94

RECORDED

AUG 2 1989



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

March 10, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

HARRY BOKMA
FLORA BOKMA
3919A N 1000 E
BUHL ID 83316

RE: WATER RIGHT NO. 47-08195

Dear Water Right Holder(s):

The Department of Water Resources (the Department) has issued the enclosed license confirming that a water right has been established in accordance with the permit referenced above. The license is a preliminary order issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department unless a party petitions for reconsideration or files an exception and/or brief as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the Department within fourteen (14) days of the service date of this order. The Department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding. Otherwise, this preliminary order will become a final order of the Department.

If any party appeals or takes exceptions to this preliminary order, opposing parties shall have twenty-one (21) days to respond to any party's appeal. Written briefs in support of or taking exceptions to the preliminary order shall be filed with the Department. The Department retains the right to review the preliminary order on its own motion.

ORAL ARGUMENT

If the Department grants a petition to review the preliminary order, the Department shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Department will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Department orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Department in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Department will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Department may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The Department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

Sincerely,

A handwritten signature in cursive script that reads "Shelley W. Keen".

Shelley W. Keen
Water Rights Supervisor

SK:ph

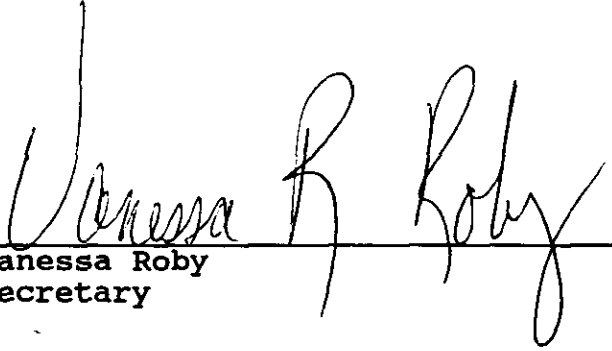
Enclosure

CERTIFICATE OF MAILING

I hereby certify that on the 10th day of March, 1997, I mailed a true and correct copy, postage prepaid, of the foregoing **PRELIMINARY ORDER (Approved License)** to the person(s) listed below:

Water Right No. 47-08195

**HARRY BOKMA
FLORA BOKMA
3919A N 1000 E
BUHL ID 83316**



Vanessa Roby
Secretary

MAR 25 1997

MEMORANDUM

DATE: March 5, 1997
TO: File No. 47-08195
FROM: Cindy Zimmerman
SUBJECT: Review of Beneficial Use Field Report

Proof of beneficial use submitted 7/23/91 states stockwater use as 570 dairy cattle and 8 bulls. My licensing recommendations for stockwater annual volume are based on the information identified on the proof form. For details, see attached Dairy Worksheet. The following adjustments¹ were made on the field report:

F. Flow Calculations.

1. Stockwater, per Dairy Worksheet = $0.37 \approx$ (limited by capacity) **0.20** cfs.
2. Commercial, per Dairy Worksheet = $0.38 \approx$ (limited by capacity) **0.20** cfs.
3. Maximum rate of diversion = (limited by capacity) 0.20 cfs.

G. Volume Calculations.

$$V_{\text{STOCK}} = (\text{head} \times \text{gpd} \times \text{days/yr}) / 325,850$$

$$= [(570 \times 35 \times 365) / 325,850] + [(8 \times 12 \times 365) / 325,850] = \mathbf{22.5 \text{ AF.}}$$

$$V_{\text{COMM.}} = (\text{per Dairy Worksheet}) \mathbf{6.5 \text{ AF.}}$$

$$V = V_{\text{STOCK}} + V_{\text{COMM.}} = 22.5 + 6.5 = \mathbf{29.0 \text{ AF.}}$$

570 Dairy
8 Bulls
22 Dairy (R47-13905)
600 Head

H. Recommendations.

1. Recommended amounts:

Beneficial Use	Period of Use	Rate of diversion	Annual Volume
Stockwater	1/1-12/31	<u>0.20</u> cfs	<u>22.5</u> AF
Commercial	1/1-12/31	<u>0.20</u> cfs	<u>6.5</u> AF
Totals:		0.20 cfs	<u>29.0</u> AF

2. Recommended Amendments

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

Examiner: Georgia Satterlee
Examined: September 30, 1996

¹Adjustments made are **bolded and underlined**.

Dairy Worksheet

FILE NUMBER 47-08195
 REVIEWER C L Zimmerman 03/05/97

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 570
 NUMBER OF NONMILKING CATTLE 8
 IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES; 2.9
 IF ANAEROBIC, ENTER ZERO 4
 EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) 4
 ENTER 0 FOR RECYCLED WATER USE, 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 1
 NUMBER OF MILKINGS PER DAY 2
 FLOW OF WATER FOR IN-BARN USE (GPM) 5
 DURATION OF MILKING (MINUTES) 480
 DURATION OF CLEAN-UP (MINUTES) 30
 HOURS PUMP IS ON 20.0

CALCULATIONS

DAILY VOLUME FOR STOCKWATER (GALLONS):

MILKING CATTLE @35 GPD/HD 19950
 NONMILKING CATTLE @12 GPD/HD 96
 TOTAL (GALLONS) 20046
 FLOW RATE REQUIRED (CFS) 0.37

DAILY VOLUME IN BARN USE (GALLONS):

IN BARN RATE * DURATION (GALLONS) 2400
 FLOW RATE REQUIRED (GPM) 5
 FLOW RATE REQUIRED (CFS) 0.01
 TOTAL FLOW RATE REQUIRED (CFS) 0.38

DIVERSION VOLUME (AFA):

STOCKWATER
 MILKING CATTLE @35 GPD/HD ** 22.35
 NONMILKING CATTLE @12 GPD/HD** 0.11
 TOTAL VOLUME 22.5

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT 0.38
 PARLOR FLOOR AND MILKHOUSE FLOOR 0.34
 CATTLE WASHING BASED UPON METHOD OF WASHING 0.64
 COOLER PLATE USAGE 5.11
 TOTAL VOLUME 6.5

TOTAL DIVERSION VOLUME 29.0

CONSUMPTIVE USE VOLUME (AFA):

STOCKWATER
 MILKING 3.5
 NONMILKING 0.0
 TOTAL 3.5
 COMMERCIAL 6.5
 TOTAL CONSUMPTIVE USE 9.9

THEORETICAL FLOW ESTIMATION WORKSHEET

PUMP INFORMATION

	WELL #1	WELL #2	WELL #3
PUMP HORSEPOWER (HP)	1.5	3.0	0.0
LIFT (FT)	40	40	0
DISCHARGE PRESSURE (PSI)	40	45	0
FRICTION LOSSES (FT)	0.0	0.0	0.0
HOURS WATER IS PUMPED DAILY	20	20	0

CALCULATIONS

	WELL #1	WELL #2	WELL #3
THEORETICAL FLOW RATE (GPM) *	31	58	0
THEORETICAL FLOW RATE (CFS) *	0.07	0.13	0.00
DAILY VOLUME (GALLONS)	84	154	0
DIVERSION VOLUME (AFA) **	42.1	77.5	0.0

TOTAL COMBINED FLOW RATE IN CFS (CAPACITY) 0.20

* PUMP EFFICIENCY WAS ASSUMED TO BE 70%.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THEORETICAL FLOW RATE ASSUMING PUMP RUNS CONTINUOUSLY EV DAY OF THE YEAR.

EVALUATION OF REDUCTION REQUIRED IF AN IRRIGATION RIGHT IS USE IRRIGATION RIGHT (BEFORE CHANGE)
 INPUT:

RATE (CFS)	0.80
ACRES	40.0
ACRE FEET PER ACRE	4.0
CONSUMPTIVE USE PER ACRE	3.0

	CFS/ACRE
CALCULATIONS:	CFS
RATE PER ACRE	0.02 ACRES
RATE NEEDED FOR DAIRY	0.01 ACRES
REDUC. OF IRR. BASED ON RATE/AC	0.6 ACRES
REDUC. BASED ON CONSUMP. VOL.	3.3 ACRES
REDUC. BASED ON ANNUAL VOLUME	7.2 ACRES

* NUMBER OF CATTLE ROUNDED UP TO AGREE WITH EXISTING TABLES.

NUMBER OF ACRES THAT CAN BE IRRIGATED BY CONSUMPTIVE USE

INPUT DATA	
IRRIGATION CONSUMPTIVE USE/ACR	4.0
CALCULATED	
ACRES IRRIGATED	2.5

* per proof.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
NOV 27 1996

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 47-08195

1. Owner: BOKMA, HARRY & FLORA

Phone No. (208) 543-4546

Current Address: 3919A NORTH, 1000 EAST, BURL, ID. 83316

2. Accompanied by: HARRY BOKMA

EXAM DATE: 30 SEPT 96

Address: SAME AS ABOVE

Phone No. _____

Relationship to Permit Holder: _____

3. Source: GROUNDWATER

tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-13905

2. Other water rights with the same point of diversion: 47-13905

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
#1		NE	SE	SE	7	T10S	R14E	TWIN FALLS	FIELD EXAMINATION
#2		NE	SE	SE	7	T10S	R14E	"	" " "

2. Place(s) of Use:

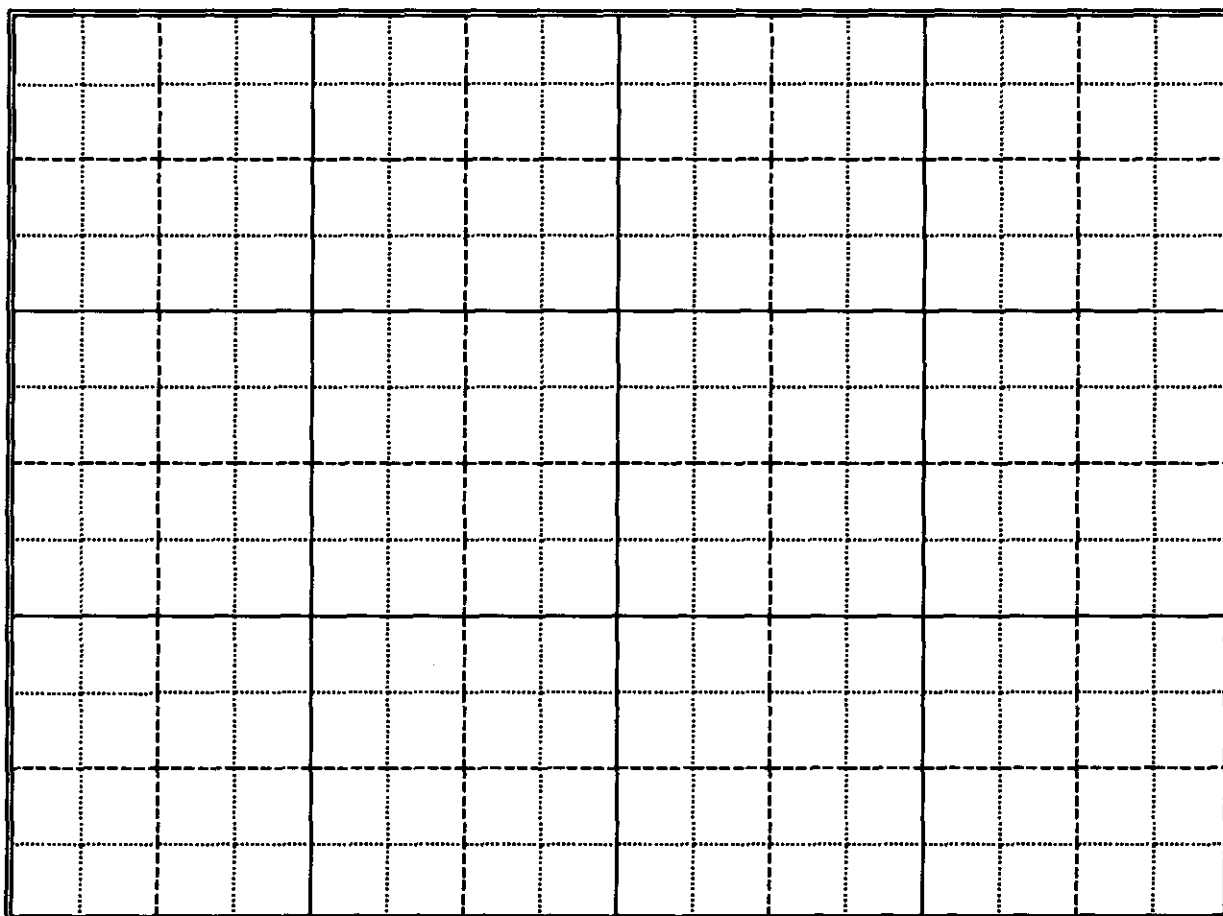
Indicate Method of Determination

FIELD EXAM

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10S	14E	07																5	
"	"	"																1	

MAR 25 1997

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



Scale: 1" = _____

_____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

_____ Aerial Photo Attached (required for irrigation of 10+ acres)

_____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
#1		1.5			
#2	GE	3			

*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
THEORETICAL						

2. Measurements: _____

MICROFILMED

MAR 25 1937

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 47-08195

DATE: 05 NOV 96

BY: SATERLEE

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

WELL #1

$$Q = \frac{(8.8) \times (1.5 \text{ HP}) \times (0.70)}{[(40) + (40 \times 2.31)]} = \frac{9.24}{132.4} = 0.07 \text{ cfs}$$

LIFT FROM:

measurement ()

owner (✓) *

area estimate ()

well logs ()

Booster (Y)

PSI FROM:

measurement ()

owner ()

estimate ()

owner gage (✓)

(N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS

* STEVE KRAMER (KRAMER PUMPS)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season) (days)

3/15 - 11/15 246

4/1 - 11/1 215

4/15 - 10/15 184

3/1 - 12/1 276

POTENTIAL = $(\dots) \times (1.98) \times (\dots)$

(\dots)

POTENTIAL =

REQUIRED Acre Feet/Acre/Annum =

(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

WELL DRILLED 1984

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS *****

FILE: 47-08195
DATE: 5 NOVEMBER 1996
BY: CATERLEE, GEORGIA

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS
H.P. = Total Brake Horsepower of pumping plant (including booster)
EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)
TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = depth to water in FEET from land surface to pumping water level
PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

WELL #2

$$Q = \frac{(8.8) \times (...3:0.....) \times (0.70)}{[(...40.....) + (...45PSI... \times 2.31)]} = \frac{18.48}{143.95} = 0.13 \text{ cfs}$$

LIFT FROM: *
measurement ()
owner (X) *
area estimate ()
well logs ()
Booster (Y) (N)

PSI FROM:
measurement ()
owner ()
estimate ()
owner gage (X)

NOTES ON PUMP:
Motor Make, Serial or ID
Pump Make, Serial or ID, rating
:

REMARKS

* STEVE KRAMER (KRAMER PUMPS)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	
3/15 - 11/15	246	
4/1 - 11/1	215	POTENTIAL =
4/15 - 10/15	184	
3/1 - 12/1	276	

POTENTIAL =

REQUIRED Acre Feet/Acre/Annum =
(AF/Ann/Ac irrigation requirement from chart for area)
NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

FILE NUMBER _____ 47-08195
 REVIEWER _____ '07Nov96

CALCULATIONS AS PERMITTED.

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE _____	600
NUMBER OF NONMILKING CATTLE _____	0
IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES; IF ANAEROBIC, ENTER ZERO _____	0.0
EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) _____	4
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -	3
NUMBER OF MILKINGS PER DAY _____	2

CALCULATIONS

DIVERSION RATE FOR STOCKWATER (CFS):

MILKING CATTLE @35 GPD/HD _____	0.39
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --	0.39
NONMILKING CATTLE @12 GPD/HD _____	0.00
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.00
TOTAL (BASED UPON ROUNDED NUMBERS) _____	0.39

DIVERSION VOLUME (AFA):

STOCKWATER

MILKING CATTLE @35 GPD/HD _____	23.5
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --	24.0
NONMILKING CATTLE @12 GPD/HD _____	0.0
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.0
TOTAL (BASED UPON ROUNDED NUMBERS) _____	24.0

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT _____	0.4
PARLOR FLOOR AND MILKHOUSE FLOOR _____	0.1
CATTLE WASHING BASED UPON METHOD OF WASHING _____	22.3
TOTAL _____	22.8

TOTAL DIVERSION VOLUME _____	46.8
------------------------------	------

NOV 25 1997
 47-08195

FILE NUMBER _____ 47-08195
 REVIEWER _____ 07Nov96

CALCULATIONS PER AMOUNT OF CATTLE 9/96.

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE _____	810
NUMBER OF NONMILKING CATTLE _____	0
IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES; IF ANAEROBIC, ENTER ZERO _____	0.0
EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) _____	4
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -	1
NUMBER OF MILKINGS PER DAY _____	2

CALCULATIONS

DIVERSION RATE FOR STOCKWATER (CFS):

MILKING CATTLE @35 GPD/HD _____	0.53
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * ---	0.58
NONMILKING CATTLE @12 GPD/HD _____	0.00
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.00
TOTAL (BASED UPON ROUNDED NUMBERS) _____	0.58

DIVERSION VOLUME (AFA):

STOCKWATER

MILKING CATTLE @35 GPD/HD _____	31.8
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * ---	36.0
NONMILKING CATTLE @12 GPD/HD _____	0.0
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.0
TOTAL (BASED UPON ROUNDED NUMBERS) _____	36.0

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT _____	0.4
PARLOR FLOOR AND MILKHOUSE FLOOR _____	0.1
CATTLE WASHING BASED UPON METHOD OF WASHING _____	0.9
TOTAL _____	1.4

TOTAL DIVERSION VOLUME _____	37.4
------------------------------	------

FILE NUMBER ----- 47-08195
 REVIEWER ----- '07 Nov 96

CALCULATIONS PER MAXIMUM AMOUNT OF CATTLE.

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE -----	875
NUMBER OF NONMILKING CATTLE -----	0
IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES; IF ANAEROBIC, ENTER ZERO -----	0.0
EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) -----	4
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -	1
NUMBER OF MILKINGS PER DAY -----	2

CALCULATIONS

DIVERSION RATE FOR STOCKWATER (CFS):

MILKING CATTLE @35 GPD/HD -----	0.57
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --	0.58
NONMILKING CATTLE @12 GPD/HD -----	0.00
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.00
TOTAL (BASED UPON ROUNDED NUMBERS) -----	0.58

DIVERSION VOLUME (AFA):

STOCKWATER

MILKING CATTLE @35 GPD/HD -----	34.3
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * --	36.0
NONMILKING CATTLE @12 GPD/HD -----	0.0
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) *	0.0
TOTAL (BASED UPON ROUNDED NUMBERS) -----	36.0

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT -----	0.4
PARLOR FLOOR AND MILKHOUSE FLOOR -----	0.1
CATTLE WASHING BASED UPON METHOD OF WASHING -----	1.0
TOTAL -----	1.5

TOTAL DIVERSION VOLUME -----	37.5
------------------------------	------

Dairy Waste System Design
University of Idaho
College of Agriculture
03/21/96

Prepared by:
Robert Ohlensehlen

General Dairy Information

Date Plan Prepared
03/21/96

Dairy Owner/Operator... Harry Bokma
Address...
Buhl ID 83316
Harry Bokma Dairy
3919A N 1000 E

Dairy Herd Information

Milking Cows.....	900	Replacement Heifers 100 to 300 lbs.....	0
Dry Cows.....	200	300 to 500 lbs....	0
Average Weight of Cows...	1400	500 to 700 lbs....	0
		700 to 900 lbs....	0
		900 to 1100 lbs...	0

Herd Waste Information

	Milking Herd:	Replacements:
Daily Manure Produced.....	2110	0 Cu.Ft.
Daily Bedding per Cow.....	1.47	0.00 Cu.Ft.
% of Manure Stored as Liquid.....	15	0 Percent
Volume of Manure Stored as Liquid...	317	0 Cu.Ft.

Milk Parlor Water Volumes

Milkings per Day..... 2

Gallons of Water for:

Cleaning Parlor Floor.....	75 gallons	Cleaning Equipment.....	30 gallons
Cleaning Milkroom.....	20 gallons	Cleaning Cows (per hd).....	0.50 gallons
Cleaning Bulk Tank.....	60 gallons	Total Used to Clean Cows.....	900 gallons
Cleaning Pipeline.....	125 gallons	Total Water Used in Parlor.....	1210 gallons

Holding Pen Water Volumes

Number of Sprinklers in Holding Pen.....	54	
Output of Sprinklers in G.P.M.....	4.98	
Minutes Sprinklers Operated Daily.....	24	
Water Used to Flush Holding Pen.....	500 gallons	Total Water in Holding Pen..
		6,954 gallons
		Total Water in the Parlor..
		8,164 gallons

*No sprinklers at time of exam.
manual washing at time of exam.*

1.35 AFY

Runoff Information and Volumes

Corral Areas and Runoff

	Length	Width	Slope	Runoff Vol. (Storm+Winter)
Area 1	665	275	1	37,545
Area 2	665	275	1	37,545
Area 3	665	275	1	37,545
Area 4	200	100	3	5,500
Area 5	0	0	0	0

25 Year 24 Hour Storm Value in Inches.....	2.0 inches
One in 5 Year Winter Precipitation Value in Inches.....	1.30 inches
Total Area for Which Runoff Calculations Are Being Made.....	568,625 sq.ft.
Total Volume of All 25 yr. Storm Runoff.....	56,533 cu.ft.
Total Volume of Winter Precipitation Runoff..	63,768 cu.ft.
Total of All Runoff.....	120,301 cu.ft.
Total Barn Water to be Stored.....	8,164 cu.ft.
Total Manure to be Stored.....	317 cu.ft.
All Storage Required.....	373,821 cu.ft.

Lagoon Storage Information

<u>Primary Storage</u>	Percent of Runoff Stored in Primary Lagoon.....	95 %
	Days of Storage Provided in Primary Lagoon.....	180 days
	Number of Cells in the Primary Lagoon.....	6
	Length of the Cells in the Primary Lagoon.....	177 ft.
	Width of the Cells in the Primary Lagoon.....	115 ft.
	Depth of the Cells in the Primary Lagoon.....	6 ft.
	Freeboard Provided for Cells in the Primary Lagoon.....	2 ft.
	Side Slope of the Cells in the Primary Lagoon.....	2 to 1
	Total Volume of Waste Stored in Primary Lagoon.....	367,806 cu.ft.

<u>Secondary Storage</u>	Percent of Runoff Stored in Secondary Lagoon.....	5 %
	Days of Storage Provided in Secondary Lagoon.....	180 days
	Length of the Cells in the Secondary Lagoon.....	139 ft.
	Width of the Cells in the Secondary Lagoon.....	30 ft.
	Depth of the Cells in the Secondary Lagoon.....	5 ft.
	Freeboard Provided for Cells in the Secondary Lagoon.....	2 ft.
	Side Slope of the Cells in the Secondary Lagoon.....	2 to 1
	Total Volume of Waste Stored in Secondary Lagoon.....	6,000 cu.ft.

<u>Containment Berm</u>	Percentage of Runoff Stored in Containment Berm.....	0 %
	Length of Runoff Containment Berm.....	0 ft.
	Width of Runoff Containment Berm.....	0 ft.
	Depth of Runoff Containment Berm.....	0 ft.
	Volume of Runoff Conatainment Berm.....	0 cu.ft.

Total Storage Provided.....	373,806 cu.ft.
Total Storage Required.....	373,821 cu.ft.

Solid Separator Information

Percent of Solids Retained by Separator.....	65 %	Separator Cell Width.....	50 ft.
Days Between Cleanout of Cells.....	24 days	Separator Cell Length.....	87 ft.
Number of Cells in the Separator.....	1	Separator Cell Depth.....	2 ft.
Separator Apron Slope.....	7 to 1	Separator Apron Length.....	14 ft.
Separator Freeboard.....	6 in.	Separator Floor Length.....	73 ft.
Separator Volume.....	6,037 cu.ft.		

Solid Storage Information

Percent of Milking Herd Solids Stored.....	0 %	Storage Area	One	Two
Percent of Replacements Solids Stored....	0 %	Length	0 ft.	0 ft.
Days of Storage Provided.....	0 days	Width	0 ft.	0 ft.
Percent Stored in Area One.....	0 %	Depth	0 ft.	0 ft.
Percent Stored in Area Two.....	0 %	Storage Required....		0 cu.ft.
		Storage Provided....		0 cu.ft.

Water Use Information

	Gallons	Cu. Ft.	Acre Ft.
Milking Herd Daily Drinking Water.....	0		
Milking Herd Annual Drinking Water.....	0	0.0	
Replacement Herd Daily Drinking Water.....	0		
Replacement Herd Annual Drinking Water...	0	0.0	
Daily Barn Water Usage.....	8,164		
Annual Barn Water Usage.....	2,979,860	398,377.0	9.15
Total of All Water Used Annually.....	2,979,860	398,377.0	9.15

Nutrient Management Information

Annual Excretion of Nitrogen.....	691,077 lbs.	Annual Excretion of Potassium.....	373,555 lbs.
Percent Nitrogen Loss (Volatilization)..	50 %	Annual Excretion of K ₂ O	448,266 lbs.
Annual Excretion of Phosphorus.....	128,876 lbs.	Approximate Tons of Solids Excreted....	933 tons
Annual Excretion of P ₂ O ₅	298,844 lbs.	Approximate Tons of Bedding Used.....	1,360 tons
		Annual Nitrogen to be Applied.....	345,538 lbs.

Crop	Yield	Acres	N Used	P ₂ O ₅ Used	K ₂ O Used	Nitrogen Decay Schedule	
	0.0	0	0	0	0	%	lbs.
	0.0	0	0	0	0	Year1 50	172,769
	0.0	0	0	0	0	Year 2 25	86,384
	0.0	0	0	0	0	Year 3 15	51,830
	0.0	0	0	0	0	Year 4 10	34,553
	0.0	0	0	0	0	Year 5 0	0

Total Acres and Pounds of Nutrients..... 0 0 0 0

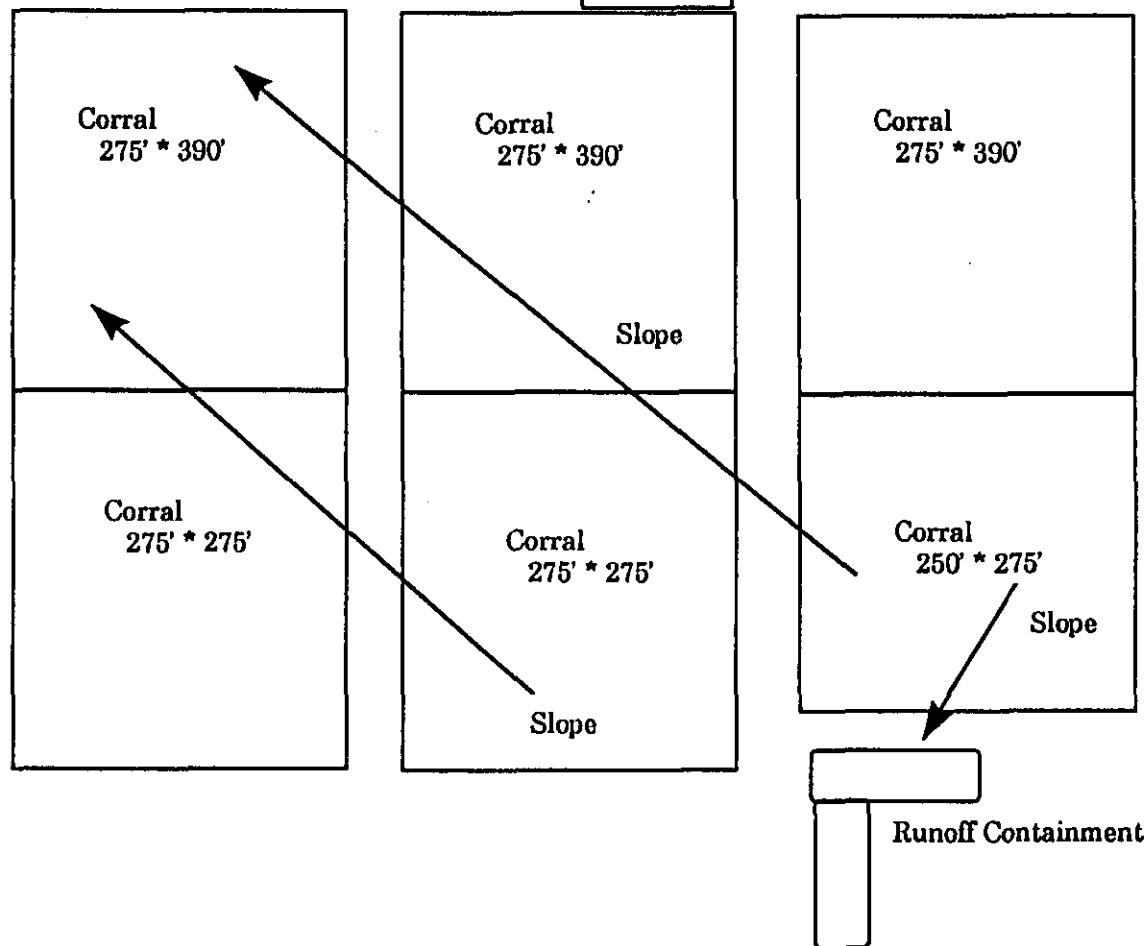
6 Lagoon Cells 115' * 180' * 6'



Solid Separator
area

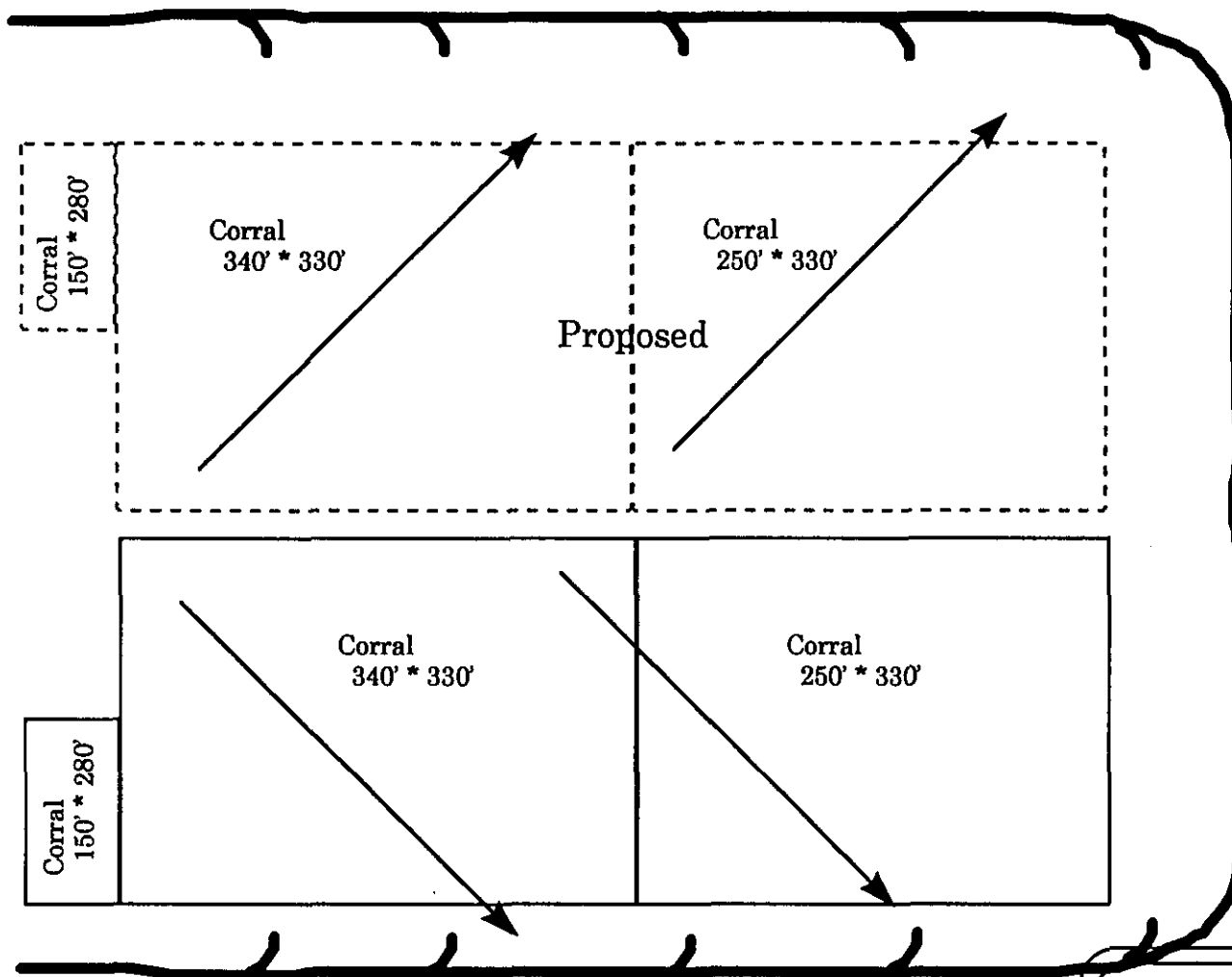
Barn

Close-up
cows



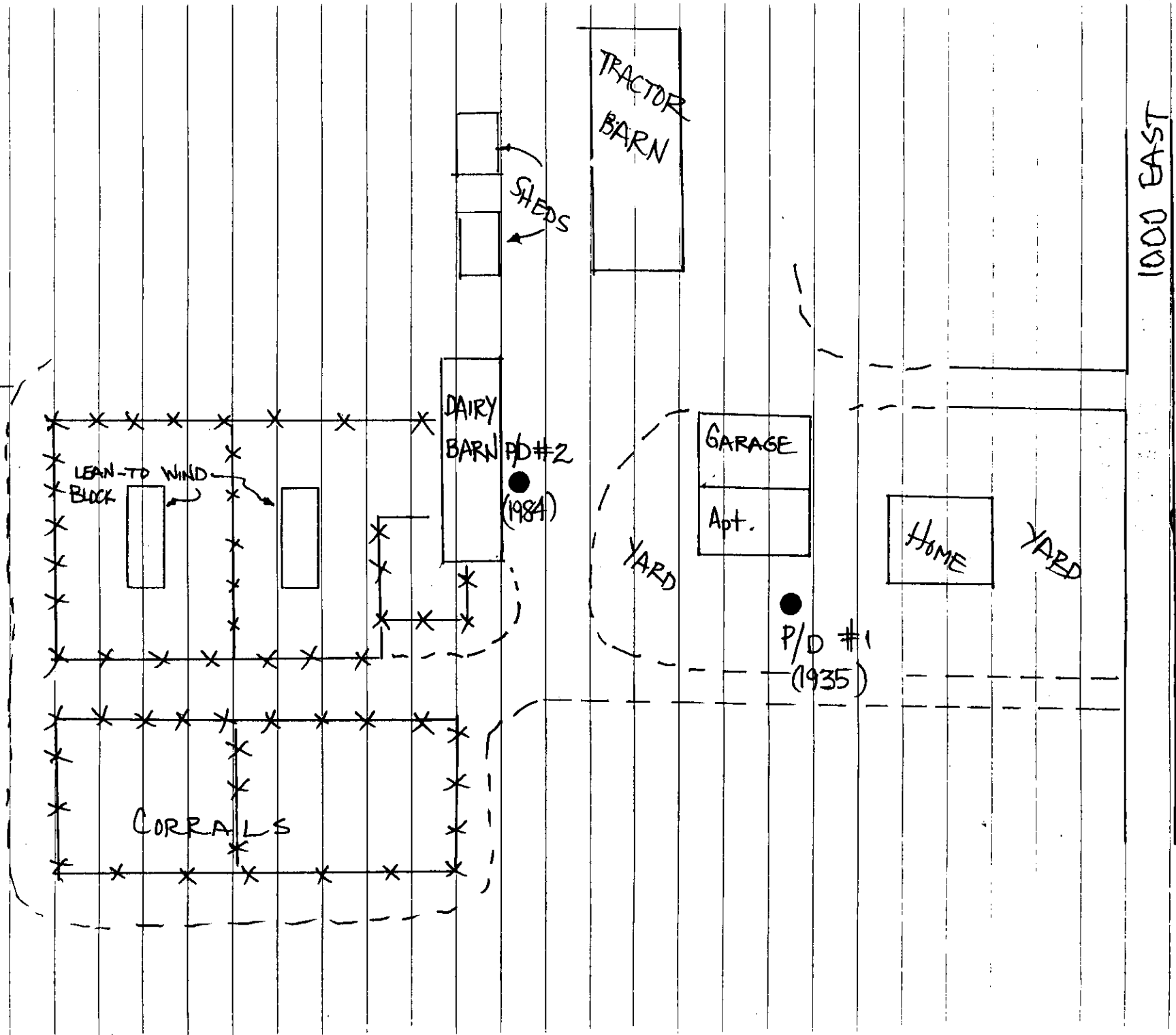
Harry Bokma - Dairy Facility
3919A N 1000 E
Buuhl, Id 83316
Prepared by
Bob Ohlensehlen
Extension Educator / Dairy
Twin Falls County

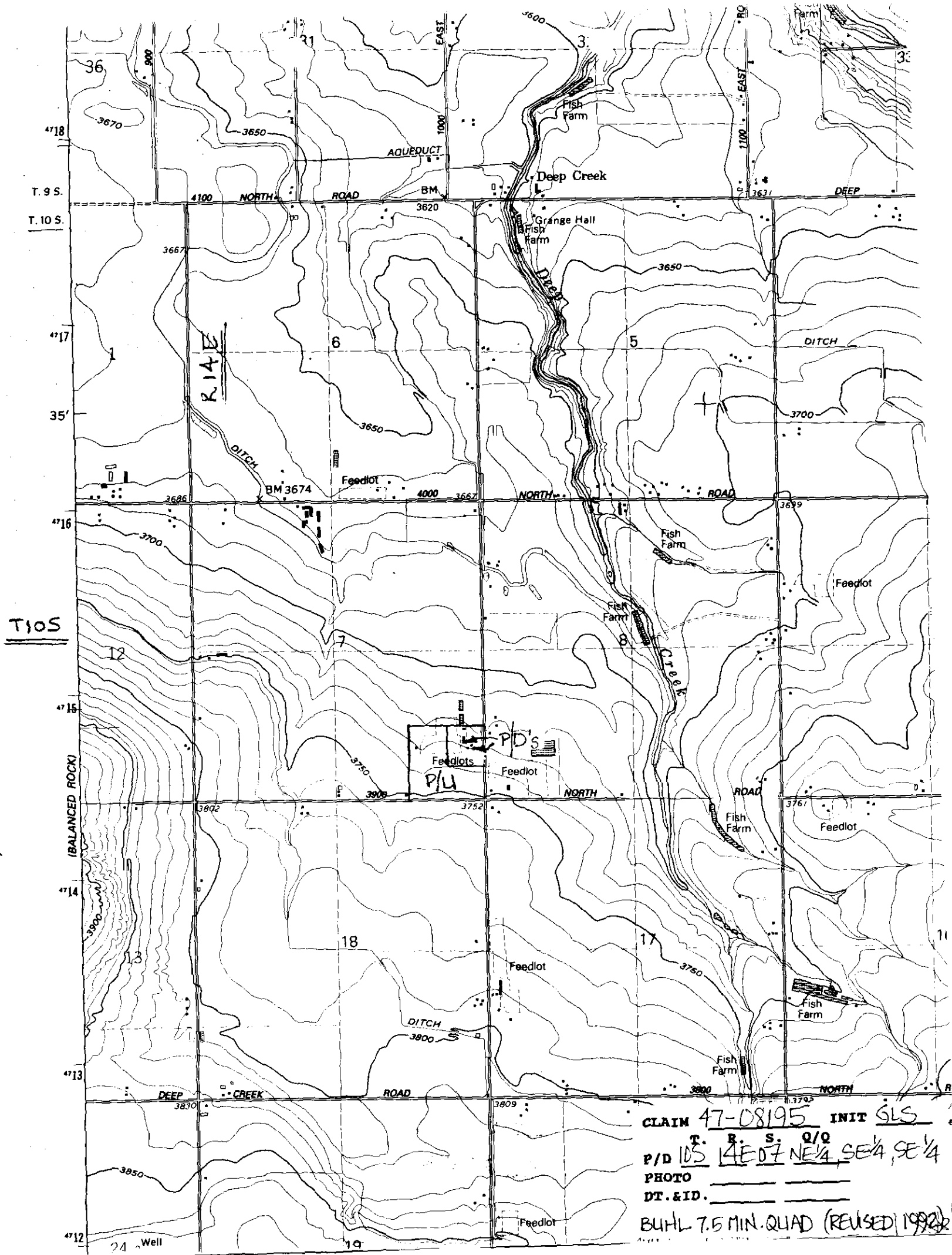
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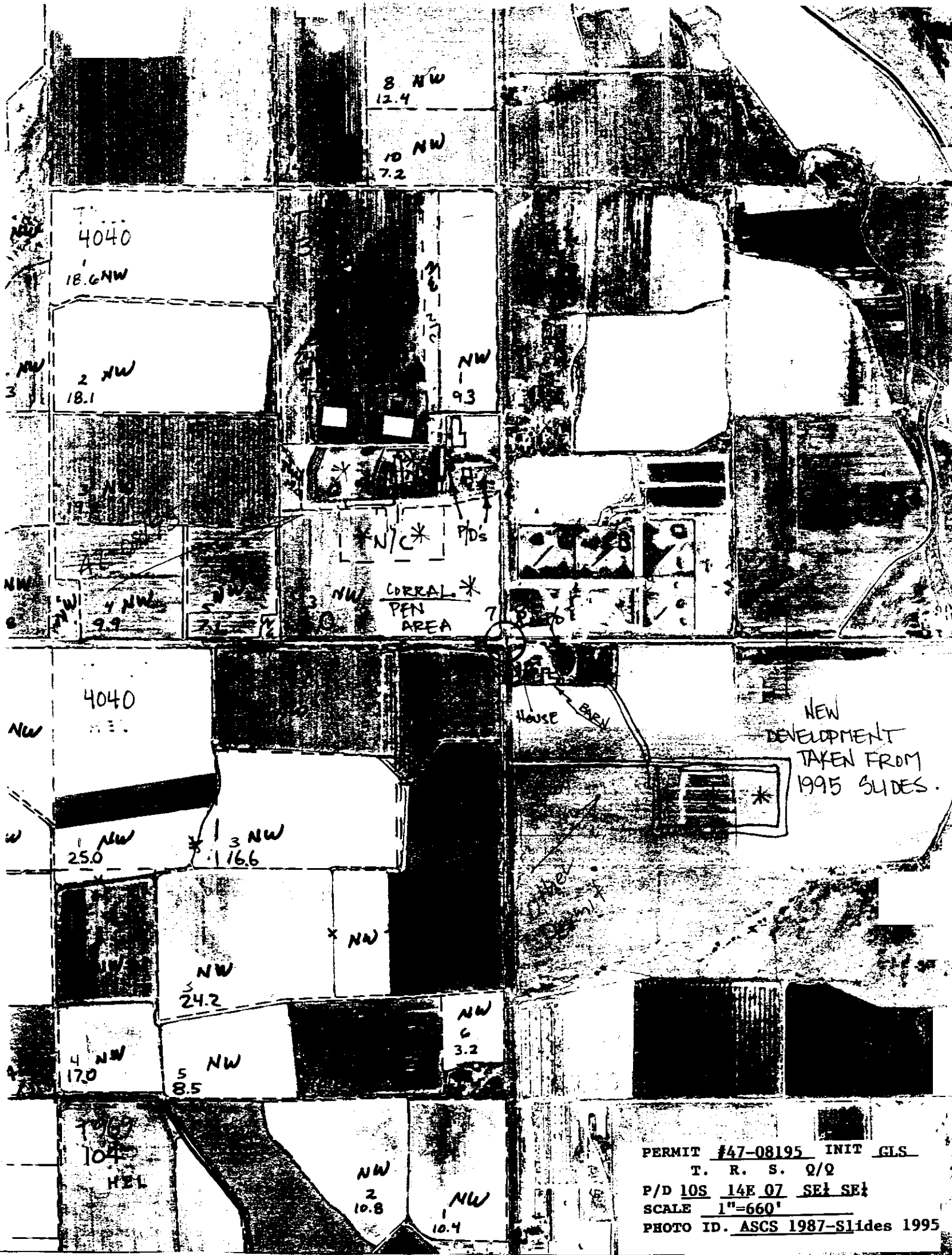
Harry Bokma - Heifer Facility
3919A N 1000 E
Buuhl, Id 83316
Prepared by
Bob Ohlensehlen
Extension Educator / Dairy
Twin Falls County

↑
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NOT TO
SCALE

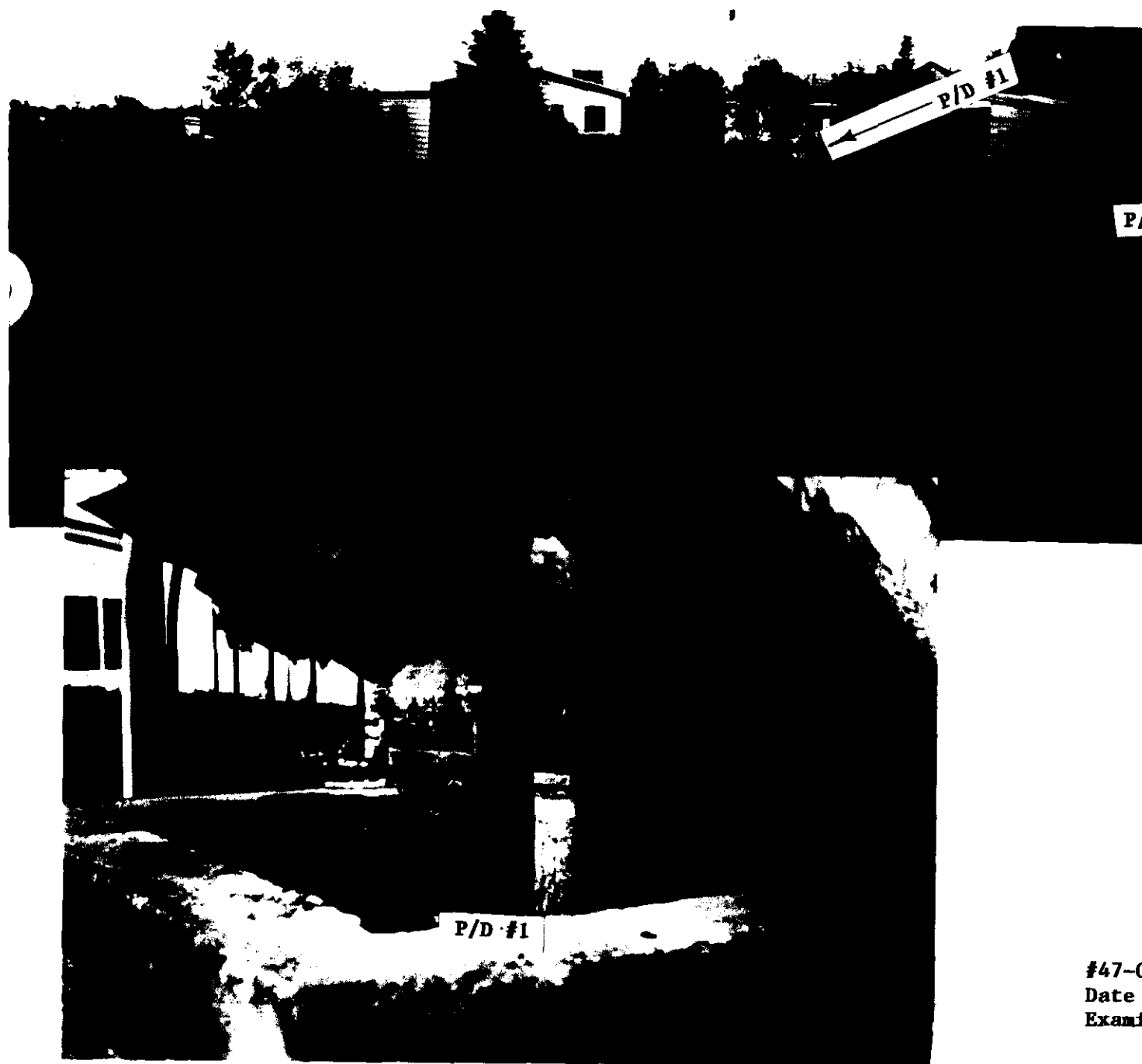




CLAIM 47-08195 INIT GLS
 T. R. S. Q/Q
 P/D 10S 14E 07 NE 1/4, SE 1/4, SE 1/4
 PHOTO _____
 DT. & ID. _____
 BUHL 7.5 MIN. QUAD (REVISED 1992)

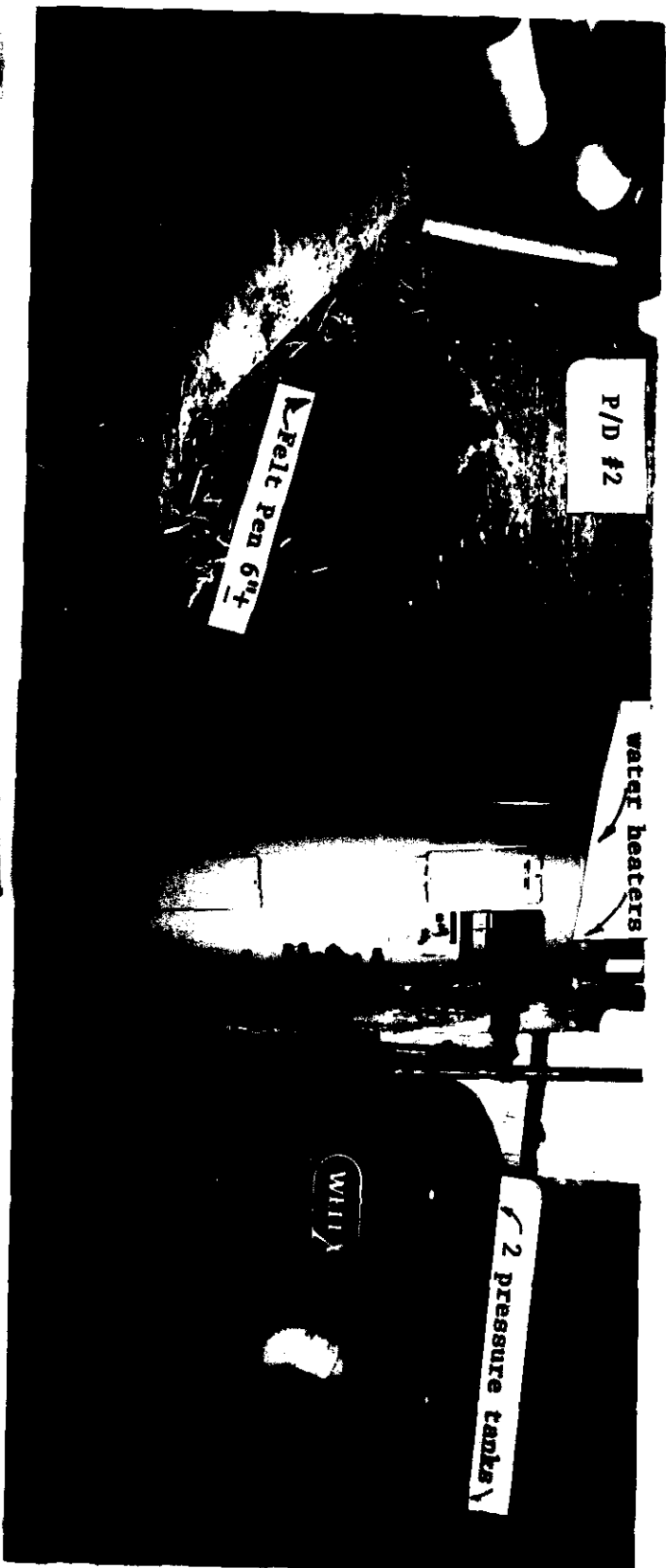


PERMIT #47-08195 INIT GLS
T. R. S. Q/Q
P/D 10S 14E 07 SE1 SE1
SCALE 1"=660'
PHOTO ID. ASCS 1987-Slides 1995



P/D #1 pumphouse

#47-08195 Approximate Time 1400 hrs.
Date of Exam: 30 Sept 96
Examiner: Satterlee, G.



#47-08195 Bokma, Harry & Flora
Date: 30 Sept 1996
P/D=Section 7, T10S, R14E SE½ SE½

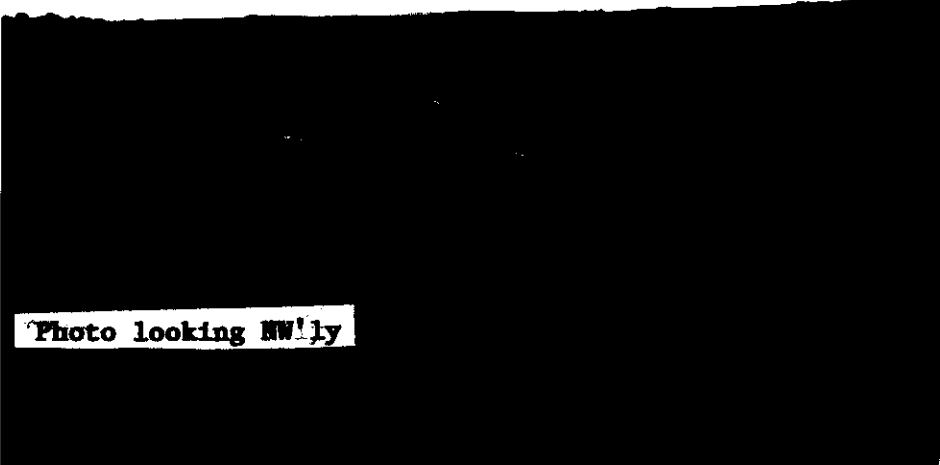


Photo looking NW'ly

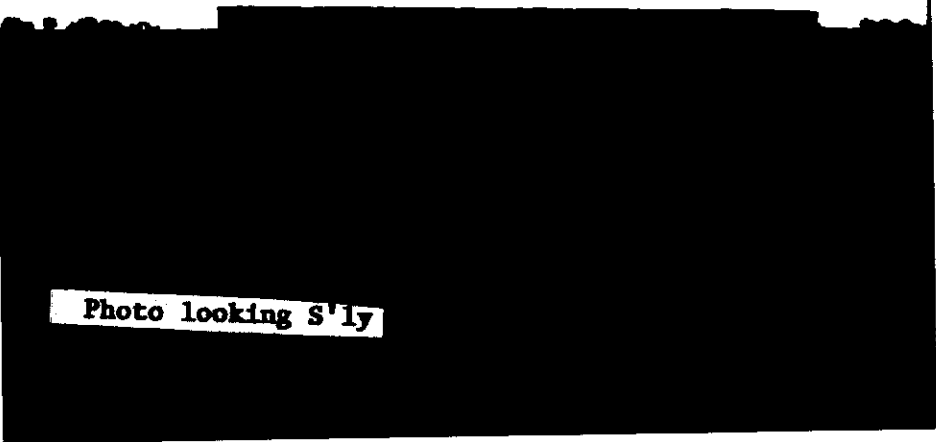
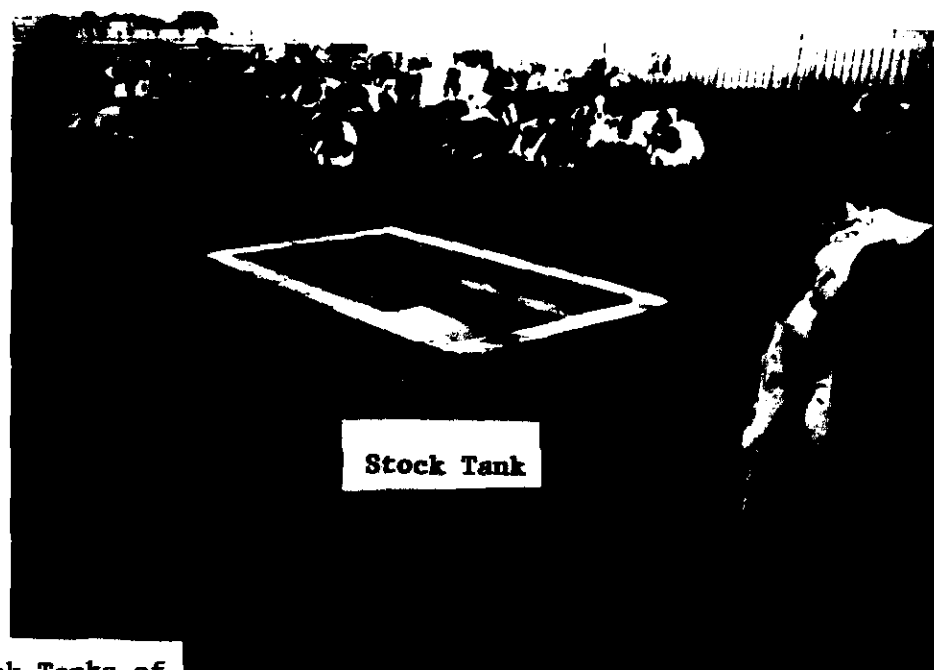


Photo looking S'ly

#47-08195 Approximate Time: 1400 hrs
Date of Exam: 30 Sept 1996
Examiner: Satterlee, GL
P/U Sec 7, T10S, R14E SE½ SE½



Approximately 8 Stock Tanks of
Various Sizes

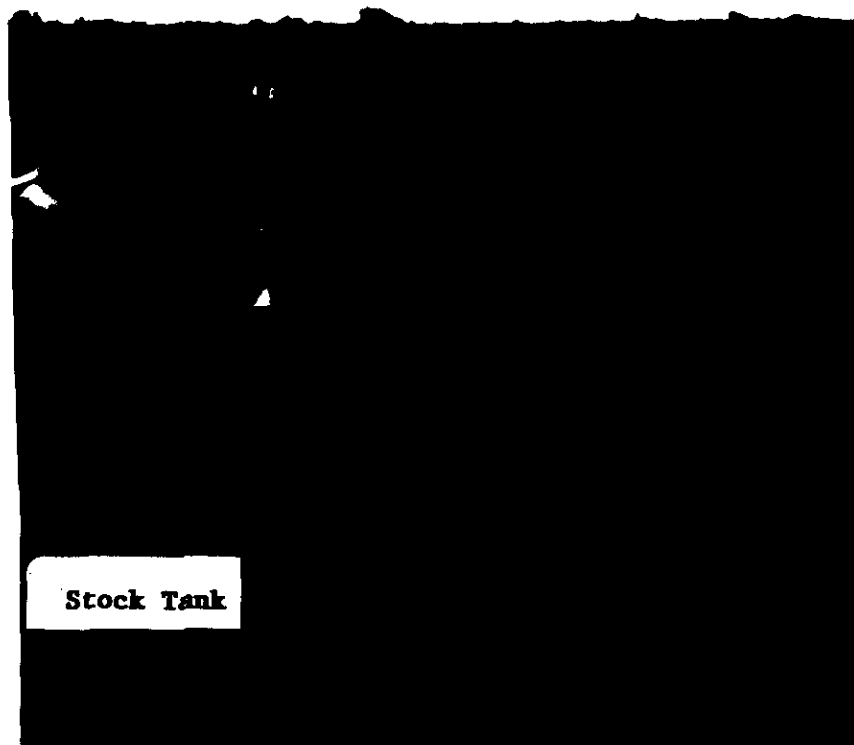
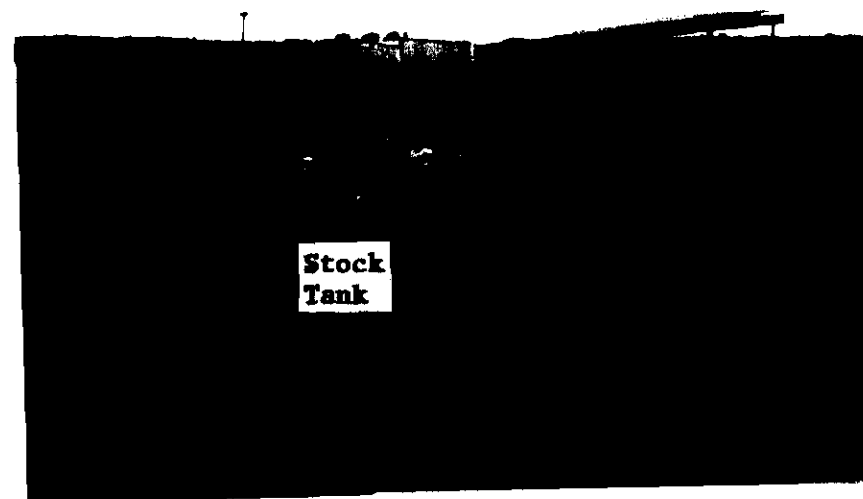


Photo looking N'ly



#47-08195 Approximate Time: 1400 hrs.
Date of Exam: 30 Sept 1996
Examiner: Satterlee, GL

ATTACHMENT "A"

TO: File 47-08195
FROM: Georgia Satterlee
DATE: 22 November 1996
RE: Field Examination

On 30 September 1996, at approximately 1330 hrs., I performed the field examination for the above permit. The exam is for licensing the said permit for stockwater and commercial for a dairy operation. Included with the permit for 47-08195 is an adjudication claim for A47-13905. The SRBA claim, with a priority date, recognizes the oldest of the two wells. The uses are for domestic (2 households) and stockwater (22 dairy cattle).

There are 2 wells associated with the said permit. The first well (#1) was drilled approximately 50-60 years ago. The second well (#2) was drilled in 1984. There is a well driller's report for the 1984 well, however, I was unable to find a drilling permit.

Although the two systems have the capabilities of being hooked together, at the time of the examination they were not. Well #1 supplies water to the corrals for the stockwater. Well #2 supplies water mainly for the dairy operation in addition to stockwater.

At the time of examination, there were approximately 810 milking cows. Mr. Bokma said the maximum number of milkers is 875 head. After milking the cows twice a day, the cattle are washed manually with a iodine solution. The parlor is washed down with a pressure hose.

There are eight stock water tanks of various sizes. See photo page 4/4 depicting the different tanks. The cooler that contains the fluid after milking holds 4000 gallons. Please see photo page 2/4.

The measured rates were calculated by either polysonic and/or a 5 gallon bucket and stopwatch. Also, theoretical measurements were calculated. The theoretical measurements were higher than the measured rates. The theoretical measurements will be recommended.

ANALYSIS:

The original permit was applied for approximately 8 years ago. The intent of the permit was for a commercial dairy operation, i.e. 600 dairy cattle, sprinklers in parlor, etc. At that time, the method of determining the AFA was calculated by multiplying the cfs rate by 1.98 by how many days. For example, the AFA in 1989 for permit 47-08195 could of been:

$$0.20\text{cfs} \times 1.98 \times 365\text{days} = 144.5 \text{ AFA.}$$

Due to today's sophisticated procedures to calculate AFA and Mr. Bokma implementing water saving methods, the AFA of the said permit is much lower than 144.5 AFA. See Dairy Water Use Worksheets Pages 1-3 for calculated AFA.

Page 2
47-08195 - Bokma

Enclosed are the calculations from Mr. Ohlensehlen, a County Employee who generates worksheets for the dairy owners. Also included in the file are calculations computed from the Lotus Program for water use of dairies (Please see Pages 1-3). The calculations from the Lotus Program show three different scenarios. Page 1/3 show calculations of AFA for the number of cattle originally on the application for permit. Page 2/3 show calculations of AFA related to the amount of dairy cattle per field exam performed in September 1996. Finally, Page 3/3 show calculations of the projected AFA using the maximum number of dairy cattle. The difference between the AFA of the number of cattle today and the projected maximum number of cattle is only 0.1 AFA.

See below for the rates and AFA amounts determined from the calculations and measurements. In addition to 47-08195, there is an adjudication claim, 47-13905, with a priority date of 12/31/35. The rate is 0.06 cfs for stockwater and domestic, for 2 homes and 1/2 acre irrigation. Calculations for cfs rate and AFA for both claims are below.

Well #1, 1935, rate=0.07 cfs
Well #2, 1984, rate=0.13 cfs

COMMERCIAL 47-08195	0.10 cfs	23.4 afa*
STOCKWATER 47-08195	0.04 cfs	9.4 afa*
STOCKWATER 47-13905	0.02 cfs	4.7 afa*
DOMESTIC 47-13905	<u>0.04 cfs</u>	<u>1.2 afa</u>

TOTAL NOT TO EXCEED 0.20 cfs 38.7 afa

***NOTE:**

*AFA calculations for COMMERCIAL/STOCK are from the Lotus Program, Dairy Water Use Worksheet, Page 3/3.

9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

USE TYPEWRITER OR
BALPOINT PENRECEIVED
JUN 29 1984
Department of Water Resources
Southern District Office**1. WELL OWNER**Name HARRY BOKMAAddress BUH, IDA.

Owner's Permit No. _____

7. WATER LEVELStatic water level 35 feet below land surface.Flowing? ☐ Yes ☒ No G.P.M. flow _____

Artesian closed-in pressure _____ p.s.i.

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ °F. Quality _____

Describe erosion or temperature zones below.

2. NATURE OF WORK☒ New well ☐ Deepened ☐ Replacement☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)**8. WELL TEST DATA**☐ Pump ☐ Bailor ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

3. PROPOSED USE☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal☐ Industrial ☐ Stock ☐ Waste Disposal or Injection☐ Other _____ (specify type)**4. METHOD DRILLED**☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary☐ Cable ☐ Dug ☐ Other _____**5. WELL CONSTRUCTION**Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
<u>250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>19</u> feet

Was casing drive shoe used? ☐ Yes ☒ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 19 Material used in seal: ☐ Cement grout☒ Bentonite ☐ Puddling clay ☐ _____Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☐ Welded ☐ Solvent

Weld

☐ Cemented between strata

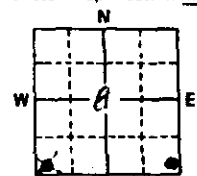
Describe access port _____

9. LITHOLOGIC LOG

Bore Diam.	Depth	Material	Water
From	To		Yes
8"	0	TOP SOIL	
6"	5	GREY LAVA	
8"	27	RED LAVA	
8"	46	RED LAVA	
8"	73	GREY LAVA	
8"	87	RED LAVA	
8"	105	RED LAVA	
	105	TOTAL DEPTH	

10.Work started April, 1984 finished Jun 9, 1984**6. LOCATION OF WELL**

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County _____

T. 10 S. R. 14 E. Sec. 8**11. DRILLERS CERTIFICATION**

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

Firm Name C.B. FALOWSON'S Firm No. 26Address At 1, WENDLE, IDA. Date 4/14/84Signed by (Firm Official) James L. Lator

and

(Operator) James L. Lator

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

E. NARRATIVE/REMARKS/COMMENTS

SEE ATTACHMENT "A"

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

APPROVED
DATE 07/11/11

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

THEORETICAL**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

PERMIT RATE : 0.20 cfs
 EXAM FEE LIMIT : 0.20 cfs
 MEASURED RATE : 0.20 cfs

TOTAL CAPACITY OF BOTH WELLS.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>COMMERCIAL</u>	<u>1/1</u>	<u>12/31</u>	<u>See Attachment</u>	
<u>STOCKWATER</u>	<u>1/1</u>	<u>12/31</u>	<u>A</u>	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			<u>0.20</u>	

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

☒ OtherRECOMMEND
MEASURED
RATE**I. AUTHENTICATION**

Field Examiner's Name

Benjamin SatterleeDate 17 Nov 96

Reviewer _____

Date _____

SEAL

August 14, 1991

HARRY BOKMA
FLORA BOKMA
3919A N. 1000 E.
BUHL, ID 83316

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 47-08195

Dear Permit Holder:

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

If you have questions concerning this matter, please feel free to contact the SOUTHERN Regional Office in Twin Falls at (208)736-3033.

Sincerely,

Rita Fleck
Secretary/Records Manager

c: IDWR - Region

MICROFILMED

AUG 21 1991.

138650
May 31, 1991

HARRY BOKMA
FLORA BOKMA
3919A N. 1000 E.
BUHL, ID 83316

PROOF DUE NOTICE

RE: PERMIT NO. 47-08195

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 August 1, 1991. (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,

Rita Fleck
Secretary/Records Manager

Enclosures

MAILED
AUG 21 1991

S T A T E O F I D A H O
D E P A R T M E N T O F W A T E R R E S O U R C E S

Statehouse
Boise, Idaho 83720
(208) 334-7900
July 19, 1989

HARRY BOKMA
FLORA BOKMA
3919A N. 1000 E.
BUHL, ID 83316

P E R M I T A P P R O V A L N O T I C E

RE: PERMIT NO. 47-08195

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

Section 42-235, Idaho Code, requires that a "drilling permit" must be obtained from the department for all wells constructed after July 1, 1987. A drilling permit is a separate permit that must be issued in addition to your permit to appropriate water. Commencement of well construction or diversion of water under your permit to appropriate water is prohibited unless a drilling permit is obtained.

Please note the requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The enclosed blue card must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed a form entitled "Instructions for Proof of

UNRECORDED

AUG 24 1989

Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit into a license.

Sincerely,

GARY SPACKMAN, Supervisor
Water Right Permits Section

GS: SC
Enclosures

MICROFILMED

AUG 20 1989

10-Apr-1989

Harry/Flora Bokma
3919A N. 1000 E.
Buhl, ID 83316

Re: Application for Permit No. 47-08195

Dear Applicant (s):

The Department of Water Resources acknowledges receipt of your water right application for permit. The application has been assigned the above referenced identification number. Please refer to this number in all further correspondence.

This office will be advertising the application in the Times News on 4/20 & 4/27/89. A period of ten days following the second publication will be allowed for the submittal of protests.

If the application is protested you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our State Office in about five weeks. State office personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A typical processing time for an unprotested application is about eight weeks.

Please feel free to contact this office if you have any questions regarding this procedure.

Very truly yours,

Terry Blau
Sr. Water Resource Agent

TB:MB

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AUG 20 1989

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region
2148 4th Avenue East
Twin Falls, ID 83301
(208)734-3578

APRIL 10, 1989

TIMES NEWS
P.O. BOX 548
TWIN FALLS, ID 83303-548

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before MAY 8, 1989.

Yours truly,

Mary Baldwin
Secretary/Office Coordinator

Enclosure

MICROFILMED

AUG 25 1989

NOTICE OF APPLICATION FOR WATER RIGHT

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

MICROFILMED

AUG 20 1989

47-08195

BOKMA, HARRY
BOKMA, FLORA
3919A N. 1000 E.
BUHL, ID 83316

Source: GROUNDWATER

Diversion Pt: NESESE Sec 7 T 10S R 14E

Use: COMMERCIAL (.200 CFS)
STOCKWATER (.200 CFS)

Date Filed: 1/03/1989

In: T10S R14E S07 SESE

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AUG 23 1989

The permit(s) will be subject to all prior water rights. Protests must be filled with the Director, Dept. of Water Resources, Southern Region, 2148 4th Avenue East, Twin Falls, Idaho 83301 on or before MAY 8, 1989.

R. KEITH HIGGINSON, Director

Published 4/20/1989 & 4/27/1989

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AUG 20 1989