



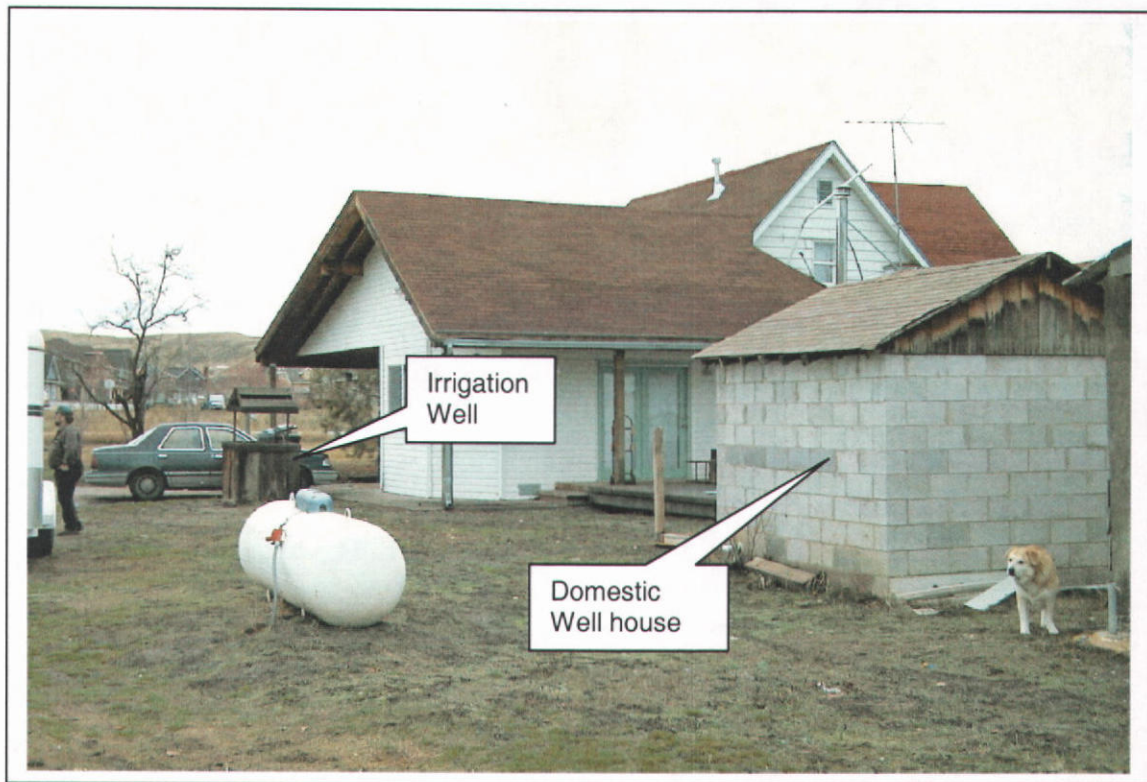


Photo 1: 63-05138, Field Exam 01-31-03: Located in the SWSENE, S31, T05N, R02E. View is to Southwest.



Photo 2: Inside the Domestic Well house. Photos by RDH.



Photo 3: Outside of the Domestic well house. View is to North.



Photo 4: Irrigation well. Sprinkler systems, hand lines, 40 HP pump, 55 PSI per owner. Static water level measured at average of 53 ft. See attachments. Photos by RDH.

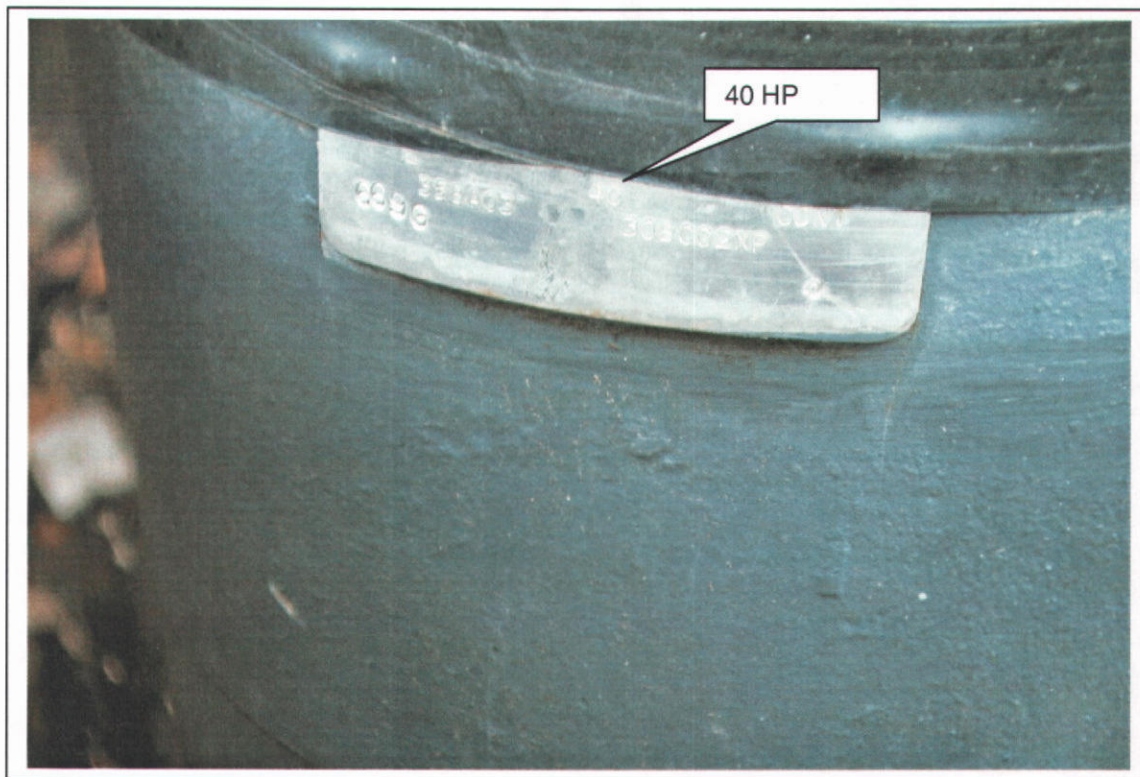


Photo 5: Irrigation pump with 40 HP motor.



Photo 6: Stock area around domestic house. View is Northeast of home from the McFarland Creek Road. (Enchanove Ranch Estates is on West side of road.) Photos by RDH.



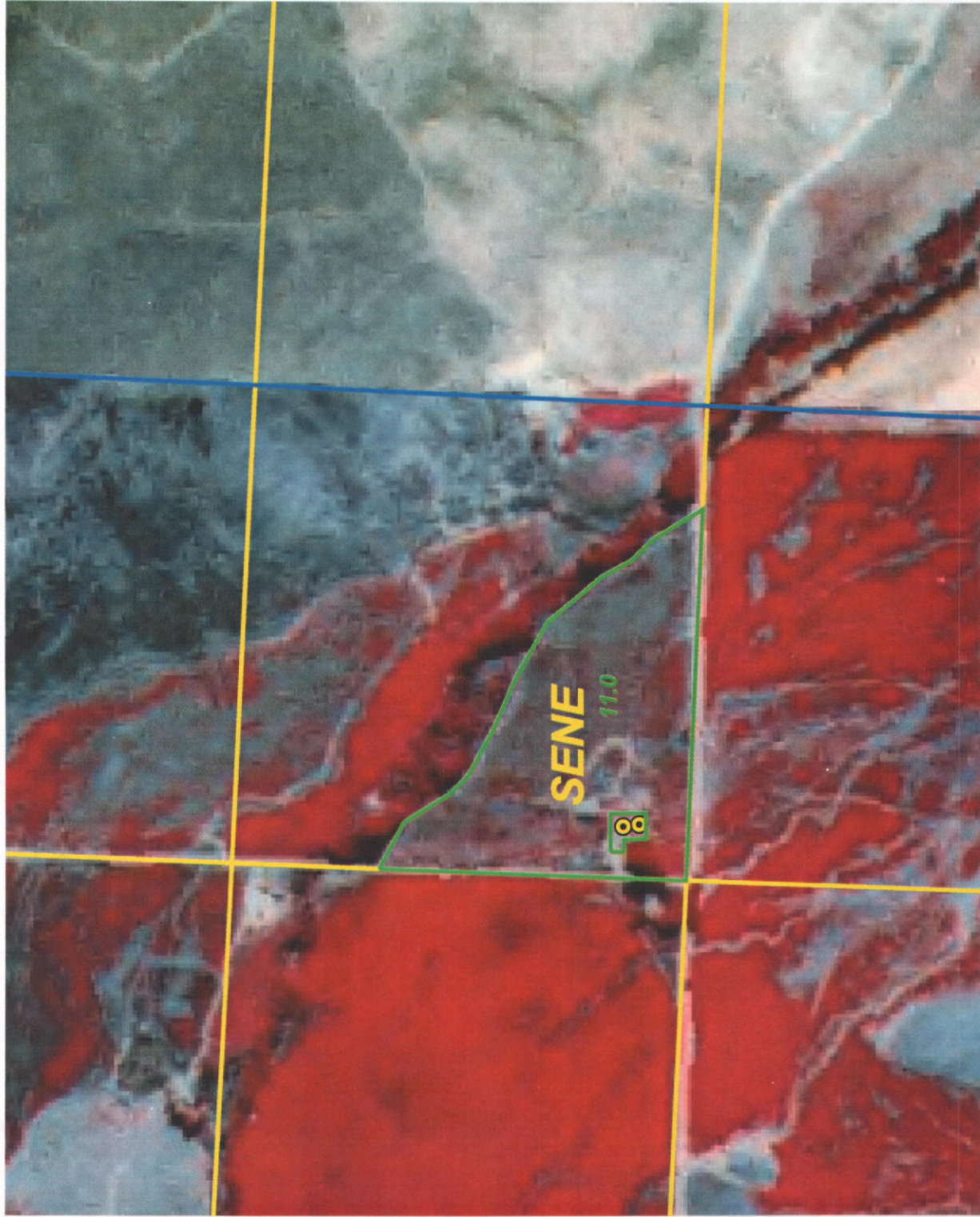
Photo 7: Upper part of irrigated field on South side of Dry Creek. Irrigation overlaps occur here from Dry Creek right 63-5139A and Groundwater irrigation supplemental right 63-5138. View is to the West from Dry Creek Road

IDAHO DEPARTMENT OF WATER RESOURCES

Claims: 63-5138

Date Prepared: 02-06-03

Prepared By: Ron Howerton



T05N, R02E
S31



● Point of Diversion



Place of use

Section

1/4 1/4

11.0 Acres



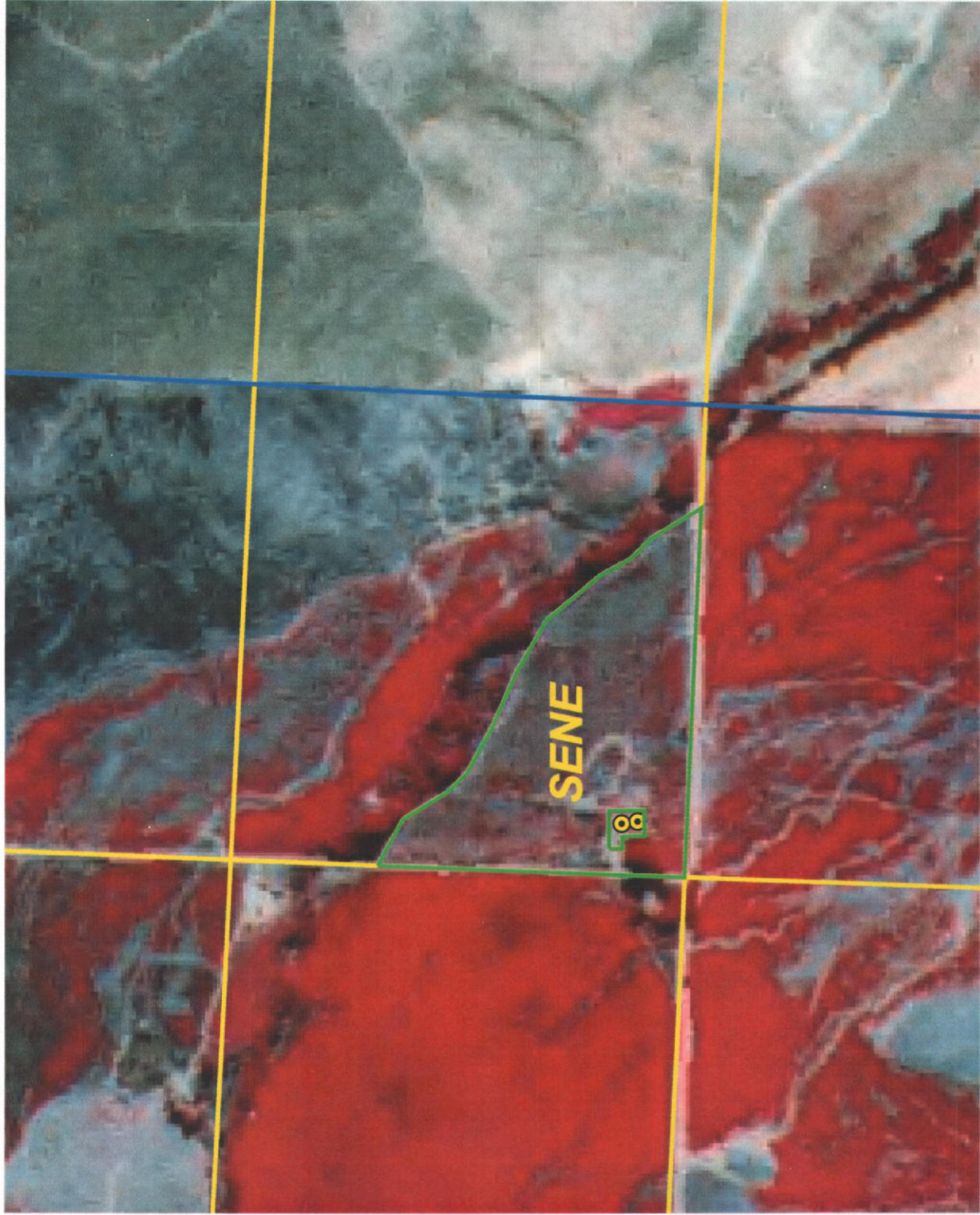
1987 NAPP

IDAHO DEPARTMENT OF WATER RESOURCES

Claims: 63-5138

Date Prepared: 02-06-03

Prepared By: Ron Howerton



T05N, R02E
S31



● Point of Diversion



Place of use



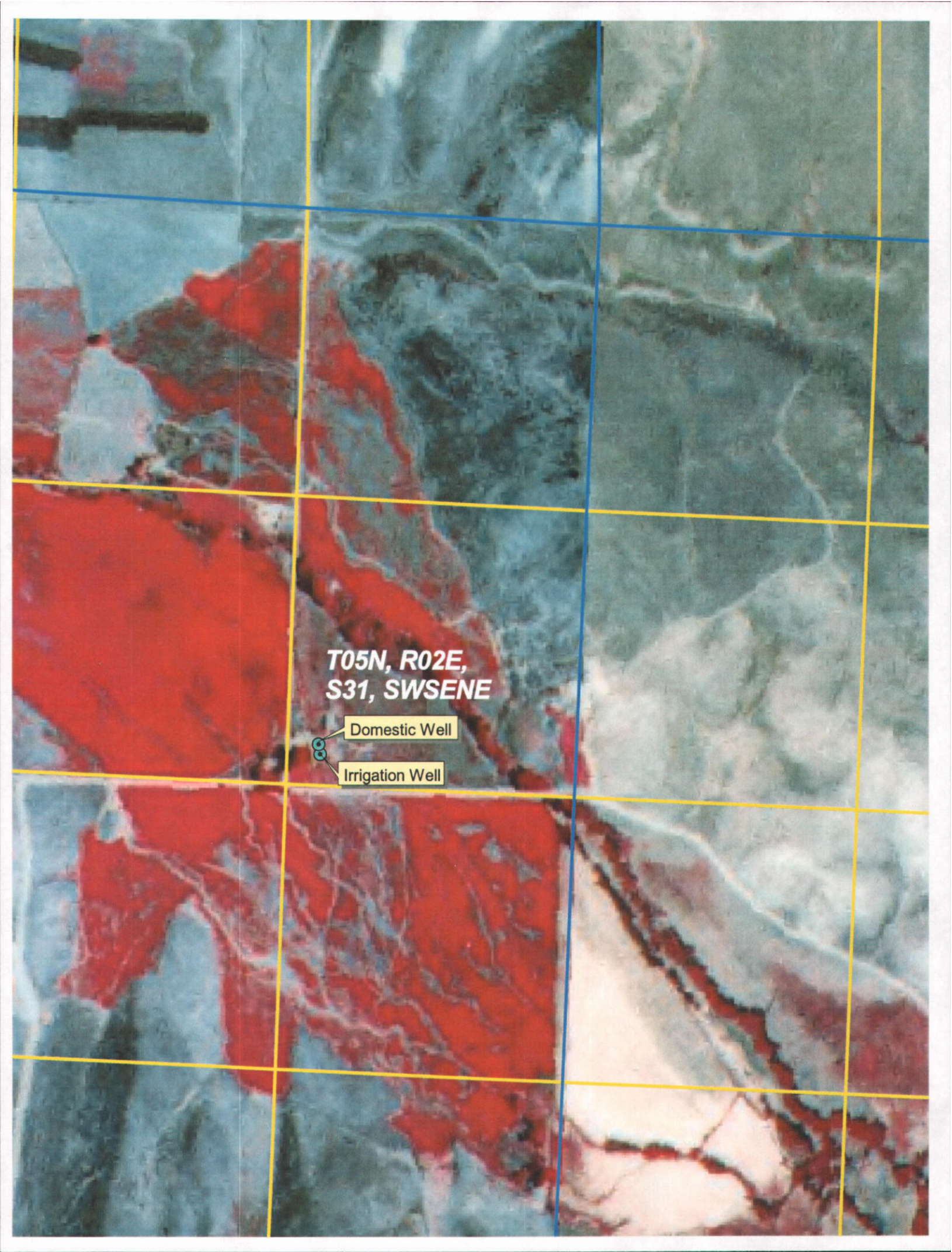
Section



1/4 1/4



1987 NAPP



**T05N, R02E,
S31, SWSENE**

Domestic Well

Irrigation Well

2000 photo

SENE

63-5139A

63-5138
63-5139A

SWSENE



AGENT Ben Howerton DATE 6 Feb 03 63 - 5139A

Sr Water Agent

[illegible]

Water Right No.: A63-05138

Examiner: RON HOWERTON

Date of Field Exam: 01/31/2003

P/D No.:

OPTION 1

OPTION 2

OPTION 3

PUMP HORSEPOWER

BOOSTER HORSEPOWER

40

0

40

0

40

0

PUMPING LEVEL

88.5

230

141.5

DISCHARGE PRESSURE

60

60

60

RATE OF FLOW (cfs)

1.08

0.67

0.88

IRRIG WELL DATA

8" CASING - PER OWNER

PSI = 55 - PER OWNER

DEPTH = 230' - PER OWNER

STATIC WATER LEVEL - PER

= APPROX 53' AVE

SAWTOOTH HYDROLOGIC
SERVICES - SEE
ATTACHMENTSOPTION 1

- STATIC WATER LEVEL FOUND BY SAWTOOTH HYDROLOGIC SERVICES = 53 FT AVE.

OWNER STATED WELL WAS 230' DEEP

$$230' - 53' = 177' / 2 = 88.5 = \text{APPROX.}$$

DYNAMIC PUMPING LEVEL

- Pump HP KNOWN AT 40 HP
- USED 60 PSI FOR CRR IRRIG WELLS

OPTION 2

- USED ALL SAME DATA BUT USED MAX DEPTH OF WELL

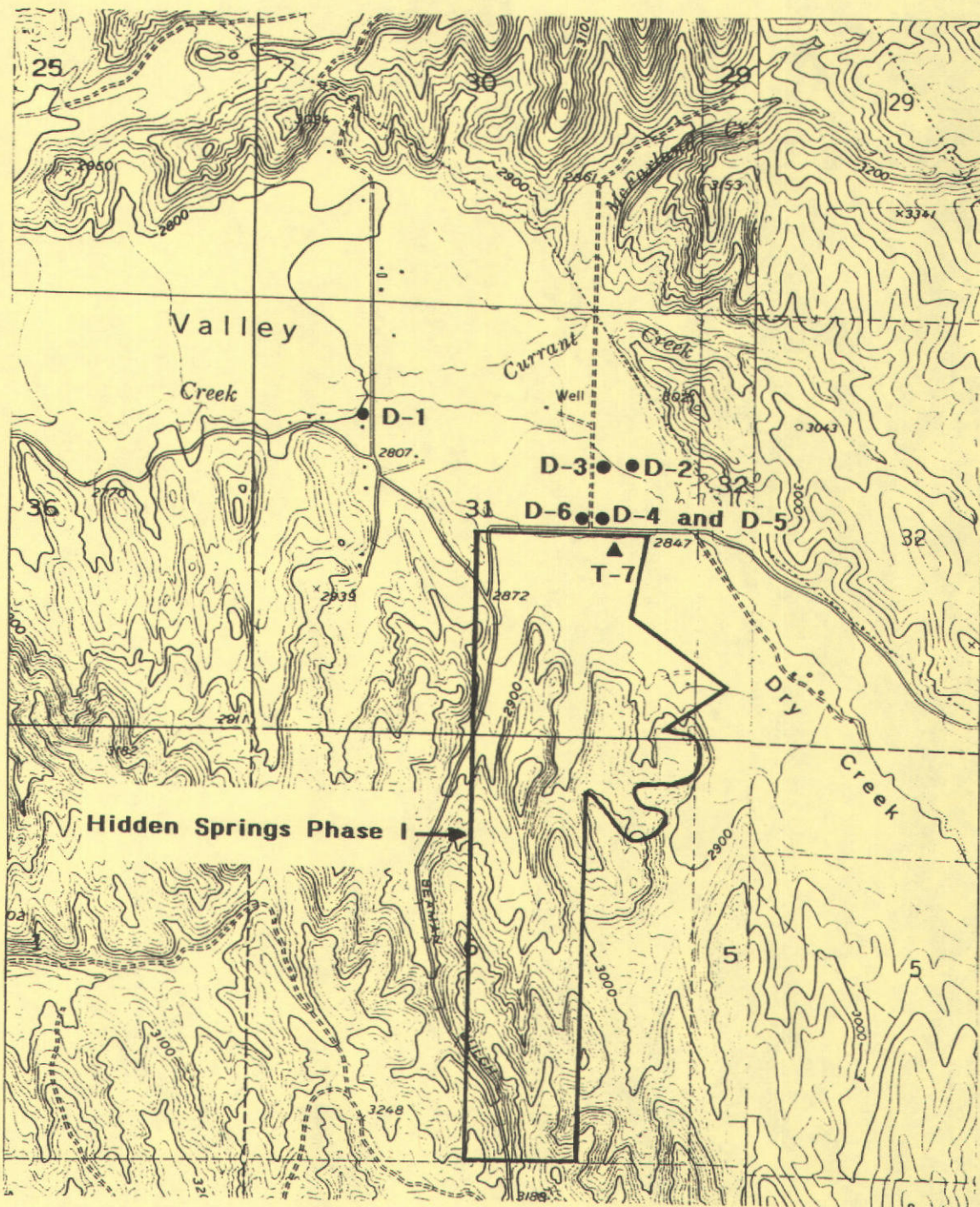
OPTION 3

- USED MAX DEPTH OF WELL MINUS (88.5 APPROX. DYNAMIC PUMPING LEVEL)

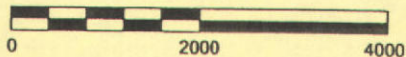
CALCULATIONS RANGED

FROM .67 CFS TO 1.08 CFS

300 GPM TO 404.7 GPM



SCALE IN FEET



Legend:

- PRIVATE WELLS
- ▲ TEST WELL

Figure 1
Site Map and Well Locations
 Dry Creek Valley, Boise, Idaho

SAWTOOTH *Hydrologic* SERVICES

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF ID HO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 3957

Ident. Number: A63-05138

Date Received: 8/17/1989

Receipt No: W0054602

Received By: [Signature]

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: JAMES D. GARROW
Address: 5700 DRY CREEK RD.
BOISE, ID

83703

208-939-6634

229

2. Date of Priority: MAR 15, 1960

3. Source: GROUNDWATER

Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
05N	02E	31	SE	NE			ADA

5. Description of diverting works:

TWO WELLS, PUMPS & PIPELINES TO HOME AND SPRINKLER SYSTEM.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	0.200		
DOMESTIC	01/01	12/31	0.040		

7. Total Quantity Appropriated is:

0.200 C.F.S. (and/or)

A.F.A.

8. Total consumptive use is

Acre Feet Per Annum.

9. Non-irrigation uses:

D/1 HOME.

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
05N	02E	31	SE	NE		IRR	11.0
			SE	NE		DOMEST	

Section Acres 11.0

A63-05138

Page

1

Date: 08/17/89

MICROFILMED

AUG 21 1992

10. Place of Use: Continued

Total Acres 11.0

11. Place of use in counties: ADA

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:

CLAIM NO. A63-05139 FOR SURFACE IRRIGATION.

14. Remarks:

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do do not X wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 1

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

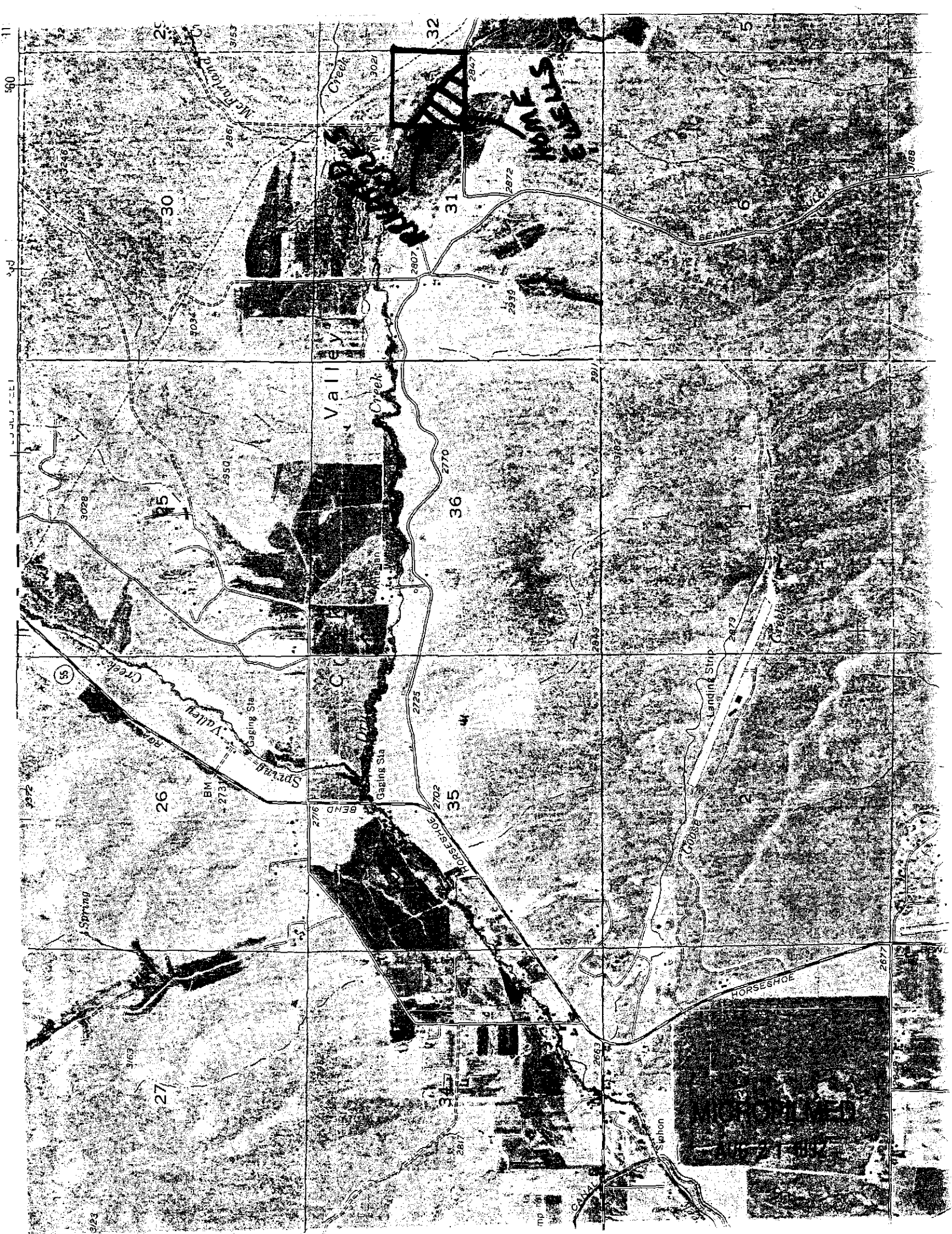
Signature of Claimant(s): James D. Garow Date: 8-17-89
_____ Date: _____

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 17th day
of August 19 89
Seal

Jan Skute
Notary Public

Residing at Meridian, ID
My Commission Expires 9-14-94



02/06/2003

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-5138

NAME AND ADDRESS: JAMES D GARROW
5700 DRY CREEK RD
BOISE ID 83703

SOURCE: GROUND WATER

TRIBUTARY:

QUANTITY: 0.200 CFS
50.100 AFY

USE OF THIS RIGHT WITH RIGHT NO. 63-5139A IS LIMITED TO A TOTAL COMBINED
DIVERSION RATE OF 0.27 CFS.

THE QUANTITY OF WATER UNDER THIS RIGHT FOR DOMESTIC USE SHALL NOT
EXCEED 13,000 GALLONS PER DAY.

PRIORITY DATE: 03/15/1960

POINT OF DIVERSION:

T05N R02E S31 SWSENE Within ADA County

T05N R02E S31 SWSENE Within ADA County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03/01 11/15	0.200 CFS 49.50 AFY
DOMESTIC	01/01 12/31	0.020 CFS 0.60 AFY

Domestic use is for 1 home.

PLACE OF USE: IRRIGATION Within ADA County

T05N R02E S31 SENE 11.0

DOMESTIC same as IRRIGATION

11 ACRES TOTAL

USE OF THIS RIGHT WITH RIGHT NO. 63-5139A IS LIMITED TO THE
IRRIGATION OF A COMBINED TOTAL OF 13.5 ACRES IN A SINGLE
IRRIGATION SEASON.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for
the definition of the rights or for the efficient administration of the water
rights as may be ultimately determined by the Court at a point in time no
later than the entry of a final unified decree. Section 42-1412(6), Idaho
Code.

THE QUANTITY OF WATER DECREED FOR THIS WATER RIGHT FOR
DOMESTIC USE IS NOT A DETERMINATION OF HISTORICAL BENEFICIAL
USE.

EXPLANATORY MATERIAL: Beneficial Use

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION FIELD REPORT**

Prior to Field Exam

- ☒ Copy of Claim, claim has been signed, sealed, and dated by notary?
- ☒ Check fees paid
- ☐ Well logs (if needed)
- ☒ Copy of topo or NAPP
- ☒ Check of Govt. Lots, if needed, Govt. Plat/Tax lot information
- ☒ Check POD & POU overlap, see below – include overlapping right for exam
- ☒ Evidence of Priority – if none, talk with claimant

CLAIMANT INFORMATION – verify contact information is completeClaim No(s) 63-5138Owner: JAMES D. GARROWPhone No. 229-6634

Current Address: _____

- ☐ No change NAME IS THE SAME
- ☐ NEW OWNER _____
- ☐ No change Address
- ☐ NEW ADDRESS _____
- ☐ How long owned property? _____

Accompanied by: PAT GARROW – SON OF CLAIMANT
ALSO TALKED TO MRS GARROW ABOUT EOP

PRIORITY DATE

- ☐ No change – Complete evidence submitted or not necessary
- ☐ Incomplete – Claimant should be asked when water was first used and submit proof of date.
- ☐ Priority date is acceptable/within mandatory filing dates?

Priority date, per claimant, is: MARCH 15, 1960

(If priority date, based on your exam, seems questionable, explain below.)

WAITING FOR CLAIMANT TO SUBMIT EOP, REQUESTED
AT FIELD EXAM 1-31-03

Source: GROUND WATER

Tributary to _____

- ☒ No Change – SAME SOURCE
- ☐ Source found is different than claimed: _____

POINT OF DIVERSION

- ☐ No change
- ☒ POD found is different than claimed: CLARIFIED TO 10 ACRES TRACTS
- ☐ If different, when did POD change? _____

DIVERSION AND DELIVERY SYSTEM

Points of Diversion:

ID #	Govt Lot #	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks GPS ID
D		SW	SE	NE	31	5N	2E	ADA	NORTH WELL
I		SW	SE	NE	31	5N	2E	ADA	SOUTH WELL

Description of diverting works

Two 8" WELLS, WELL HS FOR DOMESTIC WELL, SUB Pump,
40 HP Pump 122 well - approx 55 PSI per Pat Garrow.

OVERLAP REVIEW

Other water rights with the same point of diversion: NONE

Does overlap add acres or uses to existing system, increase rate of flow or volume, or other? Explain:

WATER USES

- ☐ No change
- ☐ Different Uses

Use 1611g From 3-1 To 11-15 Amount 0.2 CFS 49.5 AFA
 Use Dom From 1-1 To 12-31 Amount 0.02 CFS 0.6 AFA
 Use _____ From _____ To _____ Amount _____ CFS _____ AFA

CHG-D. TO
EARLIER
SOU FOR
122 PER
STANDARDS

TOTAL VOLUME - Groundwater only

- ☒ Incomplete on claim, the total is, Amount .2 CFS 50.1 AFA
- ☐ Changes found, the new total is, Amount _____ CFS _____ AFA
- ☐ More than 1" per Acre? Yes _____ (claimant must complete excess flow sheet)

NON-IRRIGATION USES:

- ☒ No change
- ☐ Changes Exam found: Domestic # of homes _____ Stock # _____
- Types _____ Additional comments: _____

PLACE OF USE:

- ☒ No Change
- ☐ Changes shown below:

Place of Use			NE				NW				SW				SE				Totals
TWP	RGE	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Overlap with other water rights: 63-5139A

SEE OVERLAP REVIEW SHEET DATED 6 FEB 03

Does overlap increase rate of flow, volume, additional acres, different source for same acres? Explain:

Limit to 0.27 CFS

" " 13.5 1st ACRES IN SEASON

Delivery System Narrative: DOMESTIC WELL - PIPED TO HOME

IRRIGATION WELL - UNDERGROUND PIPES
AND HAND LINES
FOR SPRINKLERS

STAT WATER LEVEL 53 FT

2nd IRR WELL, DOMESTIC IS ONLY

(SEE PHOTO 1) ← A SHORT DISTANCE FROM IRRIG AND
BELIEVED TO BE THE SAME.

CAN RUN APPROX 14 SPRINKLER HEADS
AT 1-SETTING PER GARY GARROW

Well or Diversion Identification No GPS ID	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge size
<u>Dom</u>	<u>unk</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>IRR</u>	<u>unk</u>	<u>40</u>	<u>—</u>	<u>—</u>	<u>55-60 PSI</u>

FLOW MEASUREMENTS: SEE ATTACHED THEORETICAL CALCULATIONS

Attach appropriate documents MAX DIVERSION RATE = 1.08 CFS

NARRATIVE/REMARKS/COMMENTS

THIS RIGHT IS A SUPPLEMENTAL
RIGHT FOR PRIMARY RIGHT FROM
DRY CR 63-5139A.

SEE PHOTOS FOR ADDITIONAL INFO.

BOTH WELLS CAN IRRIGATE LAWN AROUND HOME
HOWEVER, ONLY THE NORTH WELL (DOMESTIC) CAN
BE USED FOR INTERNAL USES. - PER GARY GARROW.

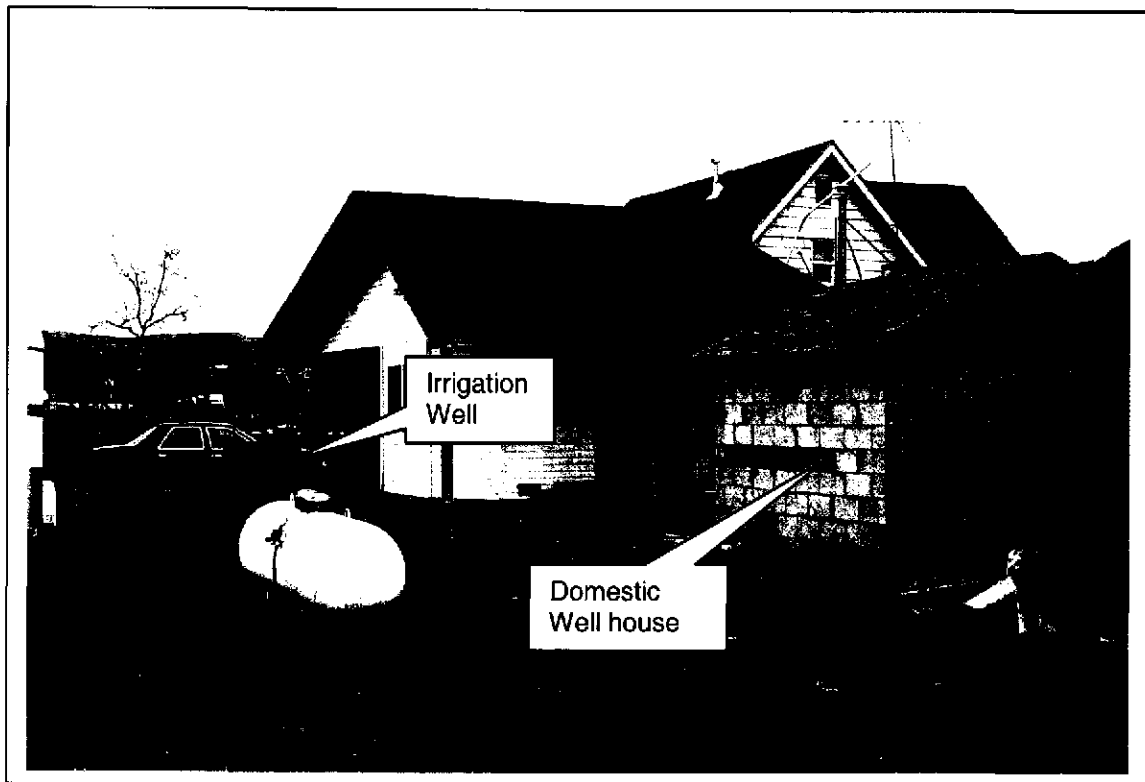


Photo 1: 63-05138, Field Exam 01-31-03: Located in the SWSENE, S31, T05N, R02E. View is to Southwest.



Photo 2: Inside the Domestic Well house. Photos by RDH.



Photo 3: Outside of the Domestic well house. View is to North.



Photo 4: Irrigation well. Sprinkler systems, hand lines, 40 HP pump, 55 PSI per owner. Static water level measured at average of 53 ft. See attachments. Photos by RDH.

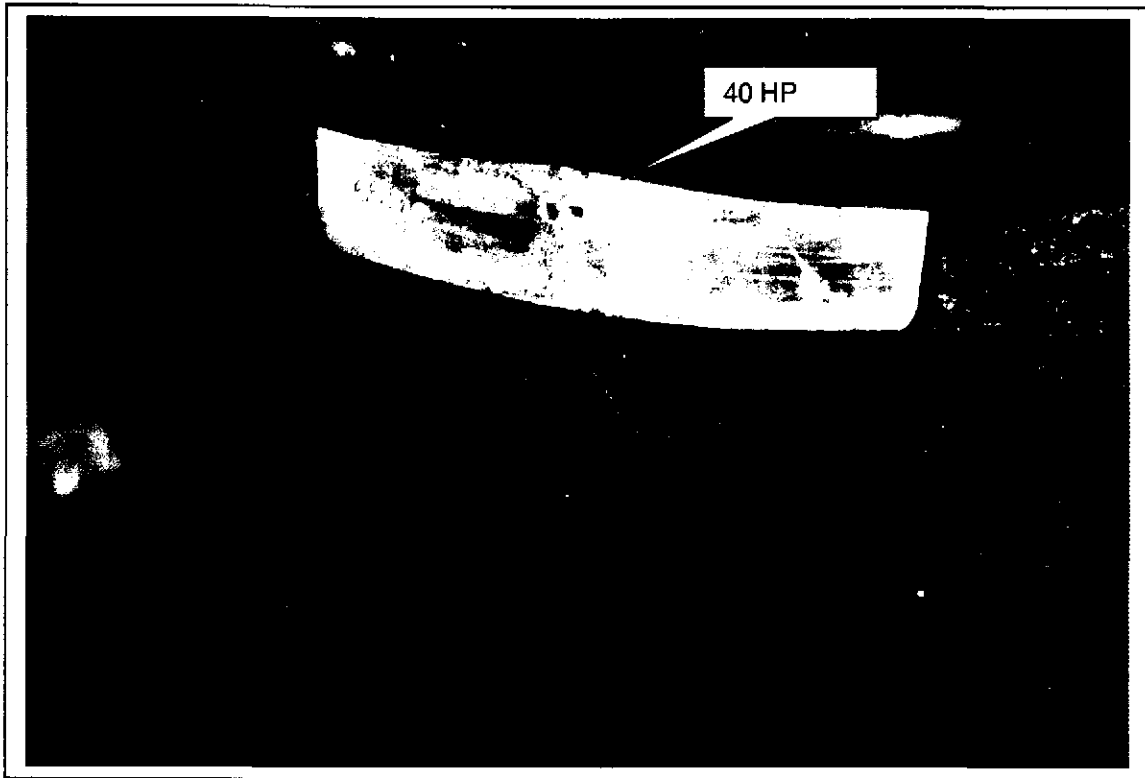


Photo 5: Irrigation pump with 40 HP motor.

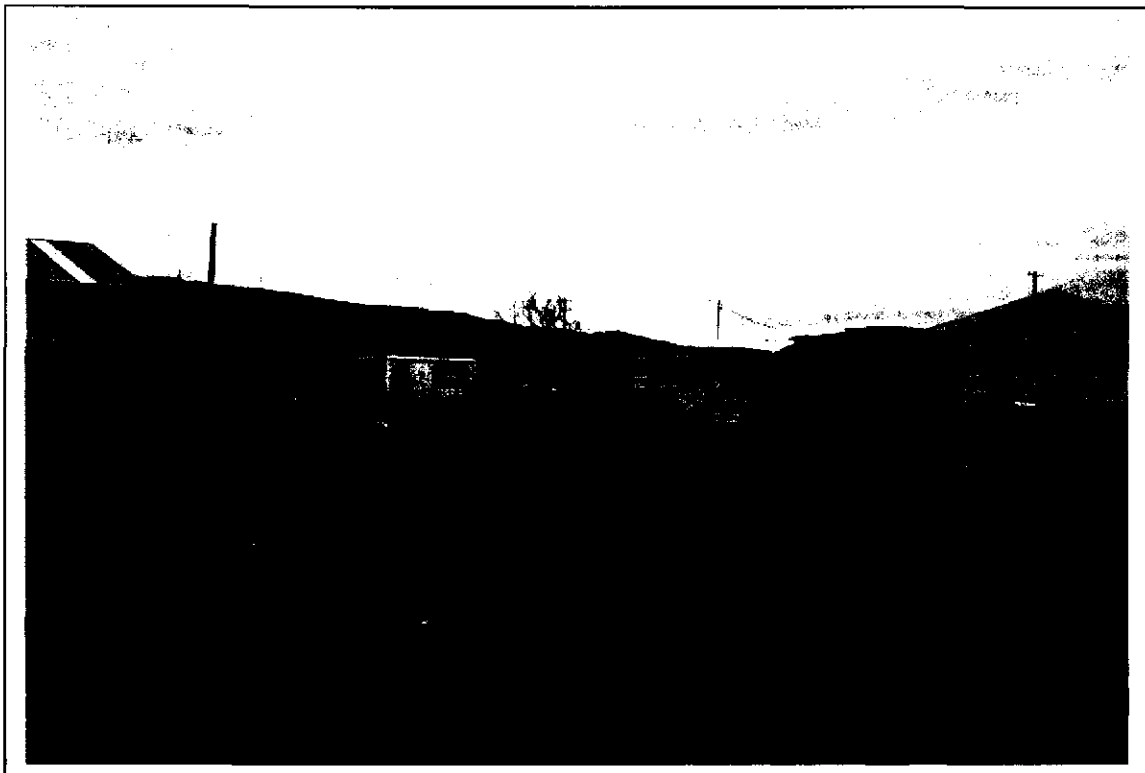


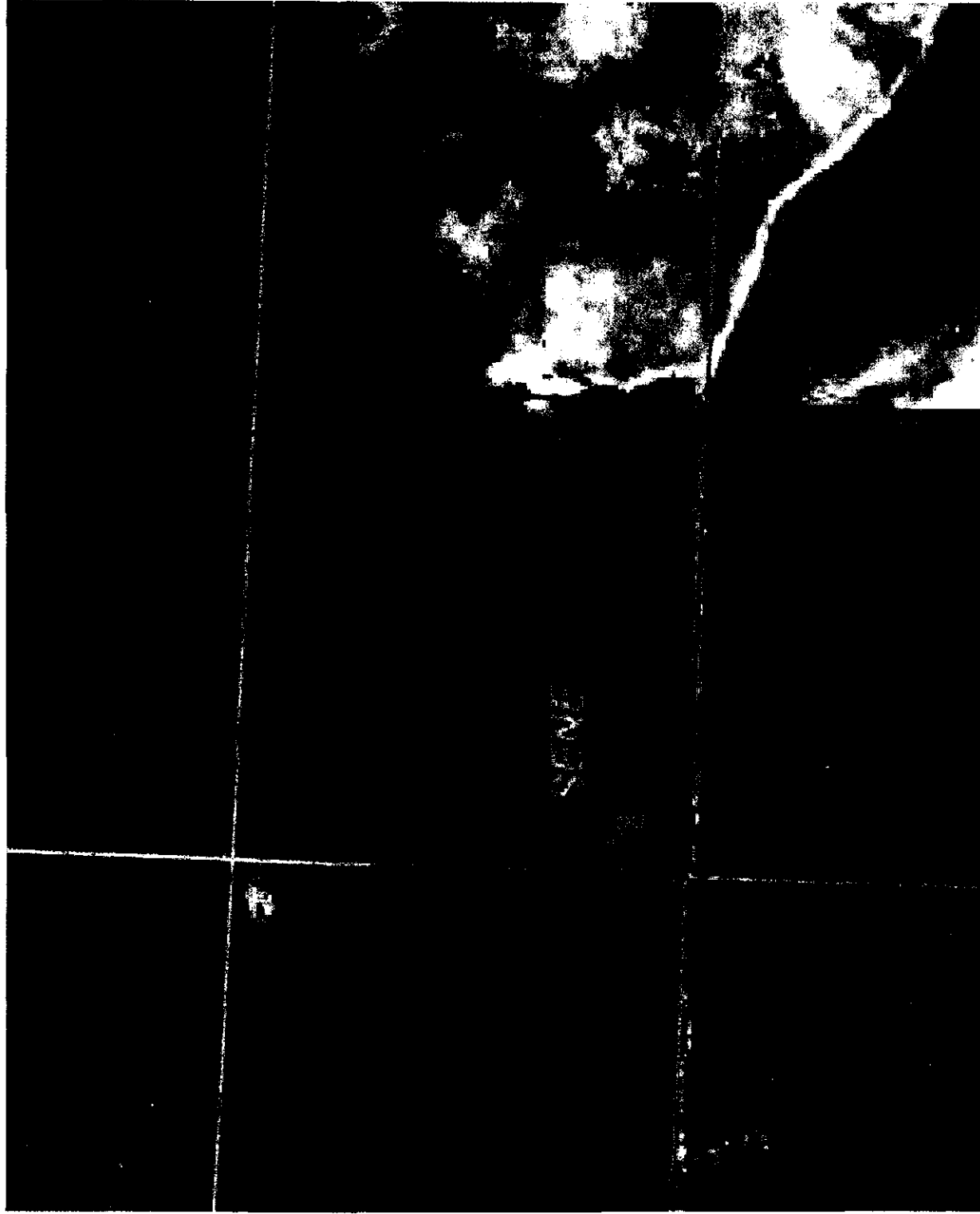
Photo 6: Stock area around domestic house. View is Northeast of home from the McFarland Creek Road. (Enchanove Ranch Estates is on West side of road.) Photos by RDH.



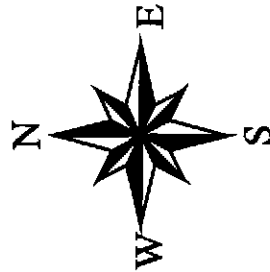
Photo 7: Upper part of irrigated field on South side of Dry Creek. Irrigation overlaps occur here from Dry Creek right 63-5139A and Groundwater irrigation supplemental right 63-5138. View is to the West from Dry Creek Road

IDAHO DEPARTMENT OF WATER RESOURCES

Claims: 63-5138
Date Prepared: 02-06-03
Prepared By: Ron Howerton



T05N, R02E
S31



⊙ Point of Diversion

☐ Place of use

☐ Section

1/4 1/4

11.0 Acres

0 0.1 0.2 0.3 0.4 0.5 0.6 Miles



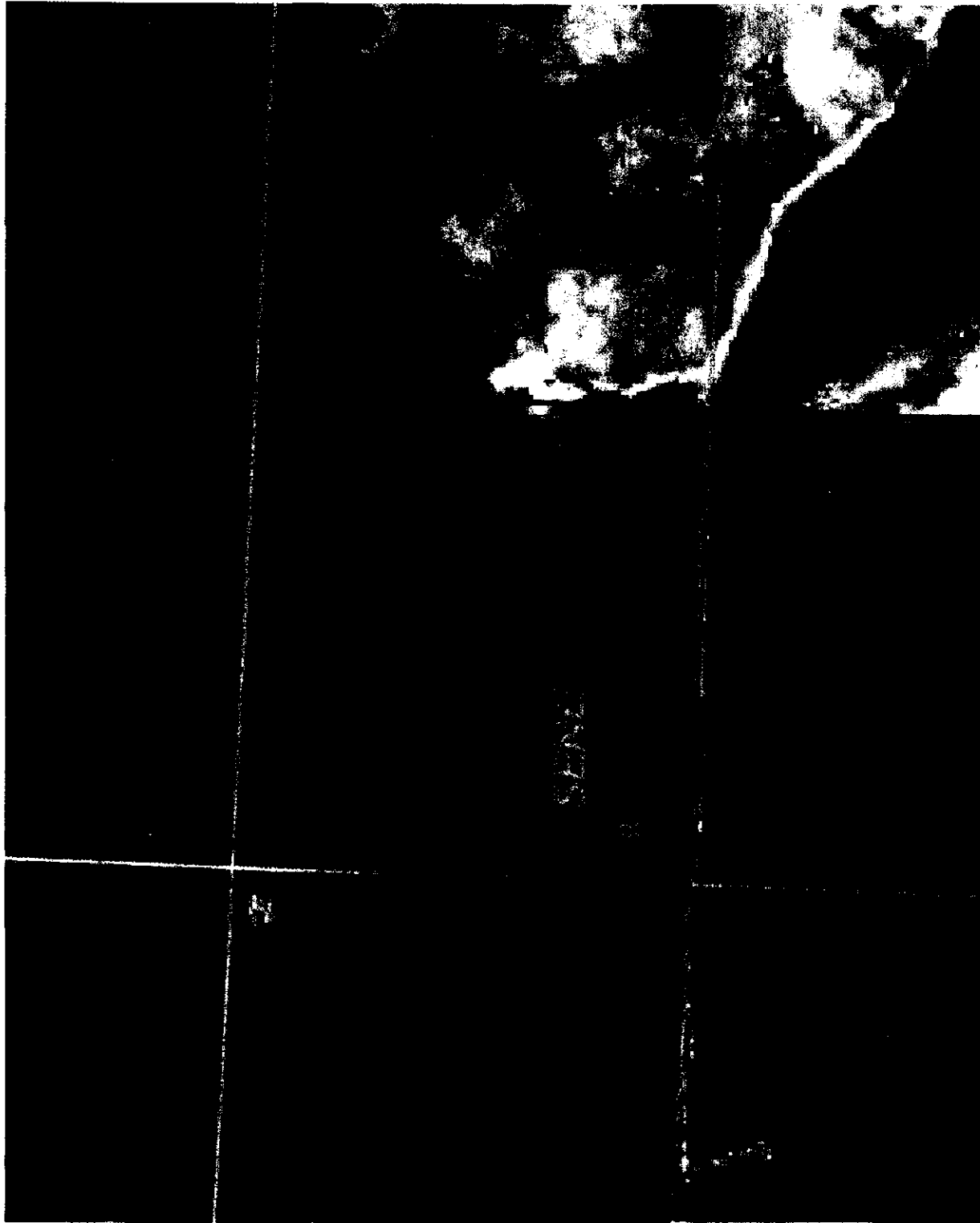
1987 NAPP

IDAHO DEPARTMENT OF WATER RESOURCES

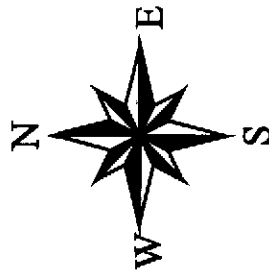
Claims: 63-5138

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T05N, R02E
S31



● Point of Diversion

□ Place of use

□ Section

1/4 1/4

0 0.1 0.2 0.3 0.4 0.5 0.6 Miles

1987 NAPP

*T05N, R02E,
S31, SWSENE*

Domestic Well

Irrigation Well

2000 photo

SENE

SWSENE

Re Howerton DATE 6 Feb 03
AGENT Sr Water Agent

63 - 5139 B

63 - 5139A

[illegible]

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: A63-05138

Examiner: RON HOWERTON

Date of Field Exam: 01/31/2003

P/D No.:

OPTION 1

OPTION 2

OPTION 3

PUMP HORSEPOWER

BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

40

0

88.5

60

1.08

40

0

230

60

0.67

40

0

141.5

60

0.88

17216 WELL DATA

8" CASING - PER OWNER

PSI = 55 - PER OWNER

DEPTH = 230' - PER OWNER

STATIC WATER LEVEL - PER

= APPROX 53' AVE

SAWTOOTH HYDROLOGIC SERVICES - SEE ATTACHMENTS

OPTION 1

- STATIC WATER LEVEL FOUND BY SAWTOOTH HYDROLOGIC SERVICES = 53 FT AVE.

OWNER STATED WELL WAS 230' DEEP

$$230' - 53' = 177' / 2 = 88.5 = \text{APPROX.}$$

DYNAMIC PUMPING LEVEL

- Pump HP KNOWN AT 40 HP
- USED 60 PSI FOR CRR IRRIG WELLS

OPTION 2

- USED ALL SAME DATA BUT USED MAX DEPTH OF WELL

OPTION 3

- USED MAX DEPTH OF WELL MINUS (88.5 APPROX. DYNAMIC PUMPING LEVEL)

CALCULATIONS RANGED

FROM .67 CFS TO 1.08 CFS

300 GPM TO 404.7 GPM

(8-95)rdh

THEORETICAL CALCULATIONS

GROUNDWATER ANALYSIS:

FX DATE: 1-31-03

AGENT: Ron Howerton

WR/CLAIM NO.(S) 63-5178, _____

TYPE OF SYSTEM: I = IRRIGATION, D = DOMESTIC, S = STOCK C = COMMERCIAL

1. SYSTEM.....I = ☒ D = ☐ S = ☐ C = ☐ _____
(other)

PUMPING INFORMATION: A = ACTUAL, E = ESTIMATED BY REP./OWNER

1. HORSE POWER OF PUMPA = 40 E = ☐ + BOOSTER ☐

2. PRESSURE/FLOWA = ☐ E = 60 MEASURED = ☐

*IF PRESSURE IS UNKNOWN USE:

(20 PSI FOR SMALL DOMESTIC/STOCK, COMMERCIAL)

(25 PSI TO 40 PSI FOR LRG. DOM./STK., COMM.)

(40 PSI FOR SMALL IRRIGATION, 60 PSI FOR LRG. IRRIGATION)

(IF OPEN FLOW OR ARTISAN USE 0 PSI)

3. DYNAMIC PUMPING LEVELA = ☐ E = 88.5 MEASURED = ☐

☒ FOR WELLS:... (Use Theoretical Dynamic Pumping Level Diagram For Wells)

☐ OTHER:..... (Use Vertical Distance, lift from source)

4. EFFICIENCYALL MOTORS = 0.7 = ☒ OTHER = ☐

40 HP X 8.8 X (0.7) EFFICIENCY = 246.4 = _____ CFS = THEOR DIV RATE = 1.08 CFS
88.5 DYN. LEVEL + ((2.31 X 60 PSI) + (!)) = 138.6 = 227.2

! = FRICTION IF KNOWN (_____)

NOTES ON SYSTEM: (IF AVAILABLE)

MOTOR MAKE: unk SER# OR I.D. unk

PUMP MAKE: unk SER# OR RATING 40 HP

COMMENTS: COULD NOT IDENTIFY Pump MAKE

OR SERIAL # System IS

OFF for winter - ALSO

IS SUPPLEMENTAL TO DRY

CREEK WATER. PRESSURE GUESS by owner;
PAT GALLOW IS 55 PSI

MAX
1.08 CFS

MIN
= .67 CFS
SEE OPTION
2 ON HP
WORKSHEET

MEMORANDUM

SAWTOOTH *Hydrologic* SERVICES

PREPARED FOR: Marian Shaw Murphy
Mike and Kathleen Brady
Jim and Geraldine Garrow

PREPARED BY: Garrett Brown, P.G./Sawtooth Hydrologic Services

DATE: October 15, 1998

SUBJECT: Groundwater Level Measurements of Selected Domestic Wells in
the Dry Creek Area, Boise, Idaho, on October 14, 1998

On October 14, 1998, groundwater levels were measured in four domestic wells located in the Dry Creek Valley, Boise, Idaho. This memorandum provides a record of the measurements.

The depth to the static water surface was measured from the top of the steel surface casing in wells D-1 (Murphy), D-2 (Brady), D-3 (Garrow), and D-4 (Garrow rental). Water levels were measured in each well at least twice over a three minute interval to make sure the recorded depth to water represented static conditions, and not pumping or recovery conditions.

Depth to water measurements for each well are listed in Table 1. Previous measurements are shown for comparison. A hydrograph of your well is also attached. The static water level measured in well D-2 on October 14, 1998 is approximately 1¾ feet lower than the July 1998 water level. However, the October 1998 water level is nearly two feet higher than last fall.

Continued measurement of static water levels in wells D-1 through D-4 is recommended on a semiannual basis, at a minimum. Quarterly water level measurements (four times a year) is preferred. This measurement frequency is advised to establish a detailed, historical record of static water levels in your well. This documentation is necessary to protect your interests in the event future development in the Dry Creek Valley lowers the depth to water in your well. Construction of any future public water supply wells in the same coarse sand aquifer may increase drawdown in nearby domestic wells.



Garrett Brown, P.G.

Hydrogeologist

P. O. Box 1828

Boise, ID 83701-1828

tel: 208.381.0182

fax: 208.381.0210

email: wfgbrown@micron.net

July 28, 1998

Marian Shaw Murphy
Dry Creek Valley Rural Association
13975 Broken Horn Road
Boise, ID 83703

Dear Marian:

Subject: Results of Groundwater Monitoring Conducted on July 12, 1998

I have enclosed a copy of the technical memorandum "Groundwater Monitoring of Selected Domestic Wells in the Dry Creek Valley, Boise, Idaho, on July 12, 1998" for your records. As I have indicated in the memorandum, it is recommended that measurement of static water levels in wells D-1 through D-4 continue at least on a semiannual basis. Quarterly water level measurements would be more optimal. Historical documentation of water levels in domestic wells is necessary to protect your interests. Potential future municipal use of the same coarse sand aquifer may increase drawdown in nearby domestic wells. In addition, until a wastewater treatment system for the Hidden Springs community is constructed, groundwater quality monitoring for TDS, nitrate, chloride, phosphorus, and total coliform should continue on an annual basis, at a minimum.

Please don't hesitate to call me at 381-0182 if you have any questions or if I may provide further assistance.

Sincerely,

Sawtooth Hydrologic Services

Garrett Brown, P.G.
Hydrogeologist

Enclosure

c: Kathleen and Mike Brady
Geraldine and Jim Garrow
Betty and Pete Echanova

PREPARED FOR: Marian Shaw Murphy
Kathleen and Mike Brady
Geraldine and Jim Garrow
Betty and Pete Echanova

PREPARED BY: Garrett Brown, P.G./Sawtooth Hydrologic Services

DATE: July 28, 1998

SUBJECT: Groundwater Monitoring of Selected Domestic Wells in the
Dry Creek Valley, Boise, Idaho, on July 12, 1998

Introduction

This technical memorandum presents the results of groundwater monitoring, conducted on July 12, 1998, of five domestic wells in the Dry Creek Valley, Boise, Idaho. The purpose of the monitoring is to establish baseline groundwater quality data and water level information prior to development of the nearby Hidden Springs residential community. The locations of the five domestic wells (D-1 through D-4 and D-6) and the approximate Phase I boundary of the development are shown in Figure 1.

Groundwater Monitoring Activities

On July 12, 1998, groundwater samples were collected from wells D-1 through D-4 and D-6 for the laboratory analysis of chloride, nitrate, total coliform, total dissolved solids (TDS), and total phosphorus. These five constituents were selected for baseline monitoring because they are good indicator species for signaling potential degradation of groundwater quality caused by upgradient impacts to the aquifer underlying the Dry Creek Valley. All five wells being monitored are currently used for domestic purposes and have dedicated submersible pumps installed.

Prior to purging or sampling the wells, the depth to the static water surface was measured from the top of the steel surface casing in wells D-1 through D-4. Water levels were measured in each well at least twice over a five minute interval to make sure the recorded depth to water represented static, and not pumping, conditions. The water level in well D-6 was not measured because this well does not have an access port.

Depth to water measurements are listed in Table 1. Previous measurements, taken in November 1997 and March 1998, are listed for comparison. Hydrographs of wells D-1 through D-4 are included in Appendix A. July 1998 water levels in all four measured wells are approximately 2¾ feet higher than March 1998 water levels and 3¾ feet higher than November 1997 water levels.

After measuring the static water level, each well was purged of at least 200 gallons prior to collecting a water sample. Purge volumes are listed in Table 1. The wells were purged and sampled from outside faucets located at, or nearby, the wellhead. During well purging and immediately prior to sampling, field parameters of pH, specific conductance (SC), and temperature were measured. All field parameters had stabilized prior to collecting a sample.

Water samples collected for the analysis of chloride, nitrate, TDS, and total phosphorus were placed in plastic, 300-milliliter (mL) containers. Water samples collected for the analysis of total coliform were placed in sterilized, plastic containers. All containers were obtained from Alchem Laboratories, Boise, Idaho. Following sampling, the containers were placed in a cooler with blue ice until they were hand delivered, used standard chain-of-custody procedures, on July 13, 1998, to Alchem Laboratories.

Analytical Results

The analytical results of the groundwater samples collected from wells D-1 through D-4 and D-6 are summarized in Table 1. Previous sampling results are listed for comparison. Copies of the analytical reports are provided in Appendix A.

Federal and state drinking water standards have been established for many organic and inorganic compounds. A primary focus is placed on protection of human health from organic and inorganic constituents such as volatile organic compounds, toxic metals, nitrates, and coliform bacteria. The drinking water standards for constituents that are known to cause a hazard to human health are called maximum contaminant levels (MCLs), and are enforceable by law in public drinking water systems. Secondary maximum contaminant levels (SMCLs) are standards based on aesthetic water qualities and generally are not associated with a health risk. Constituents with SMCLs include TDS, chloride, pH, sulfate, iron, and manganese.

Of the five constituents analyzed in groundwater samples collected from the domestic wells, two constituents have MCLs and two have SMCLs associated with them. The MCL for nitrate is 10 mg/L and for total coliform is less than one organism per 100 mL. The SMCLs for TDS and chloride are 500 and 250 mg/L, respectively. The field parameter pH has a SMCL range, which is between 6.5 and 8.5.

Total coliform bacteria was not detected in any of the wells. Well D-2 was the only well with a nitrate concentration (0.61 mg/L) above the detection limit. Nitrate was detected in well D-2 at a similar concentration in November 1997. Chloride concentrations in all wells were below 3 mg/L, which is relatively low. TDS concentrations varied between 278 and 380 mg/L. Total phosphorus concentrations in four of the five sampled wells ranged from 0.04 to 0.13 mg/L. The total phosphorus concentration in well D-6 (0.86 mg/L) was slightly elevated. Total phosphorus concentrations in natural groundwater generally range from 0.01 to 0.20 mg/L; however, concentrations less than 1 mg/L are considered acceptable in terms of an aesthetic standard. The pH concentrations in all five wells fell within the acceptable SMCL range between 6.5 and 8.5.

Recommendations

Continued measurement of static water levels in wells D-1 through D-4 is recommended on a semiannual basis, at a minimum. Quarterly water level measurements is preferred. This measurement frequency is advised to establish a detailed, historical record of static water levels in your wells. This documentation is necessary to protect your interests in the event future development in the Dry Creek Valley lowers the depth to water in your wells. Construction of any future public water supply wells in the same coarse sand aquifer may increase drawdown in nearby domestic wells.

Until a wastewater treatment system for the Hidden Springs community is constructed, groundwater quality monitoring for TDS, nitrate, chloride, phosphorus, and total coliform should continue on an annual basis, at a minimum.



Alchem Laboratories, Inc.

104 West 31st Street
Boise, Idaho 83714

Phone (208) 336-1172
FAX (208) 336-7124

Water, Waste Water
and Soil Analysis

LABORATORY REPORT

SAWTOOTH HYDROLOGIC SERVICES
P.O. BOX 1828
BOISE, IDAHO 83701

ATTENTION: GARRETT BROWN
SOURCE -: D-1 / WATER / DRY CREEK

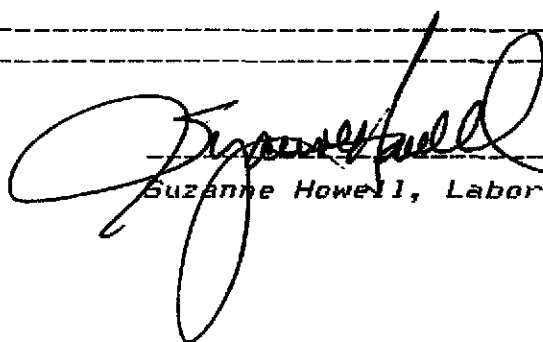
DATE COLLECTED - - -07/12/98
TIME COLLECTED - - -13:30
DATE RECEIVED - - - 07/13/98
DATE REPORTED - - - 07/27/98
SUBMITTED : GARRETT BROWN

LAB SAMPLE NUMBER - 46932

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHLORIDE	1.92	07/16/98	AL
NITRATE as N	<0.10	07/16/98	AL
TOTAL COLIFORM	<1	07/13/98	CE
TOTAL DISS. SOLIDS	290.0	07/14/98	NH
TOTAL PHOSPHORUS as P	0.045	07/23/98	CE

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Suzanne Howell, Laboratory Manager





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ATTENTION: GARRETT BROWN
SOURCE -: D-2 / WATER / DRY CREEK

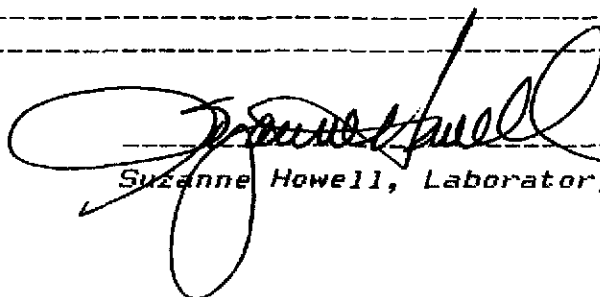
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TIME COLLECTED - - -16:25
DATE RECEIVED - - - 07/13/98
DATE REPORTED - - - 07/27/98
SUBMITTED : GARRETT BROWN

LAB SAMPLE NUMBER - 46936

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHLORIDE	2.32	07/16/98	AL
NITRATE as N	0.61	07/16/98	AL
TOTAL COLIFORM	(1)	07/13/98	CE
TOTAL DISS. SOLIDS	278.0	07/14/98	NH
TOTAL PHOSPHORUS as P	0.038	07/23/98	CE

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BOISE, IDAHO 83701

ATTENTION: GARRETT BROWN
SOURCE -: D-3 / WATER / DRY CREEK

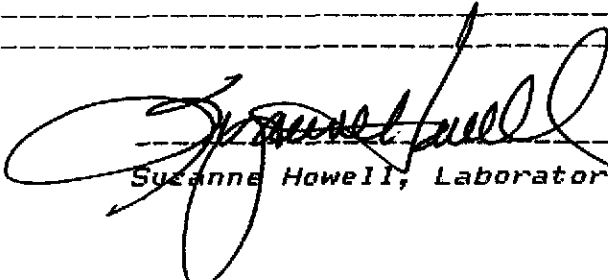
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DATE REPORTED - - - 07/27/98
SUBMITTED : GARRETT BROWN

LAB SAMPLE NUMBER - 46935

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHLORIDE	2.69	07/16/98	AL
NITRATE as N	0.10	07/16/98	AL
TOTAL COLIFORM	1	07/13/98	CE
TOTAL DISS. SOLIDS	363.0	07/14/98	NH
TOTAL PHOSPHORUS as P	0.069	07/23/98	CE

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BOISE, IDAHO 83701

ATTENTION: GARRETT BROWN
SOURCE -: D-4 / WATER / DRY CREEK

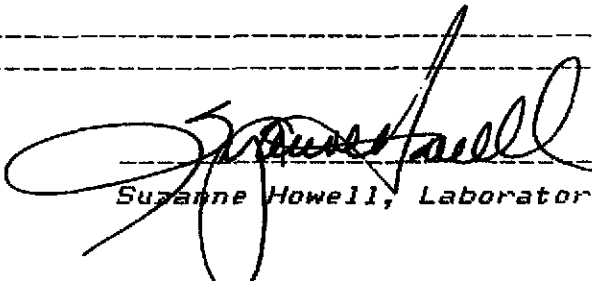
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TIME COLLECTED - - -15:00
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DATE REPORTED - - -07/27/98
SUBMITTED : GARRETT BROWN

LAB SAMPLE NUMBER - 46934

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHLORIDE	1.81	07/16/98	AL
NITRATE as N	<0.10	07/16/98	AL
TOTAL COLIFORM	<1	07/13/98	CE
TOTAL DISS. SOLIDS	380.0	07/14/98	NH
TOTAL PHOSPHORUS as P	0.129	07/23/98	CE

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Suzanne Howell, Laboratory Manager





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BOISE, IDAHO 83701

ATTENTION: GARRETT BROWN
SOURCE -: D-6 / WATER / DRY CREEK

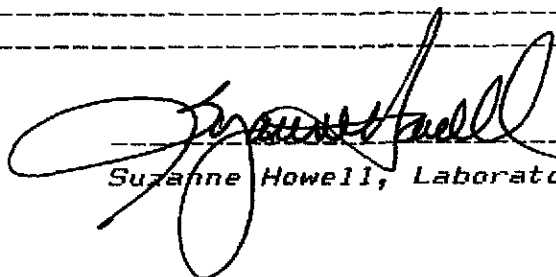
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TIME COLLECTED - - -14:15
DATE RECEIVED - - - 07/13/98
DATE REPORTED - - - 07/27/98
SUBMITTED : GARRETT BROWN

LAB SAMPLE NUMBER - 46933

Results reported unless noted: (Chemistry Analysis as ug/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHLORIDE	1.98	07/16/98	AL
NITRATE as N	10.10	07/16/98	AL
TOTAL COLIFORM	1	07/13/98	CE
TOTAL DISS. SOLIDS	303.0	07/14/98	NH
TOTAL PHOSPHORUS as P	0.86	07/23/98	CE

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Suzanne Howell, Laboratory Manager

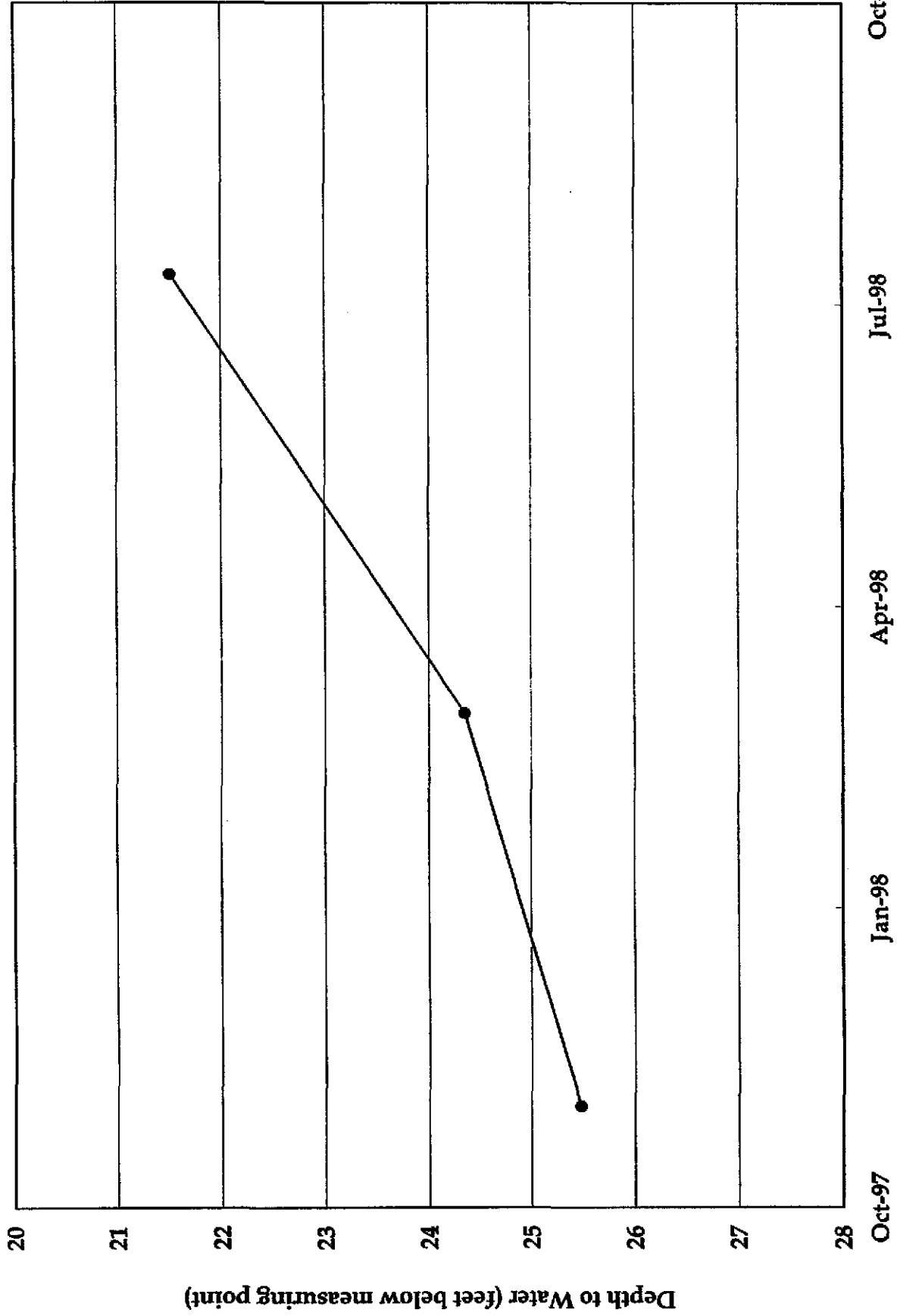


stituents in Dry Creek Area Wells

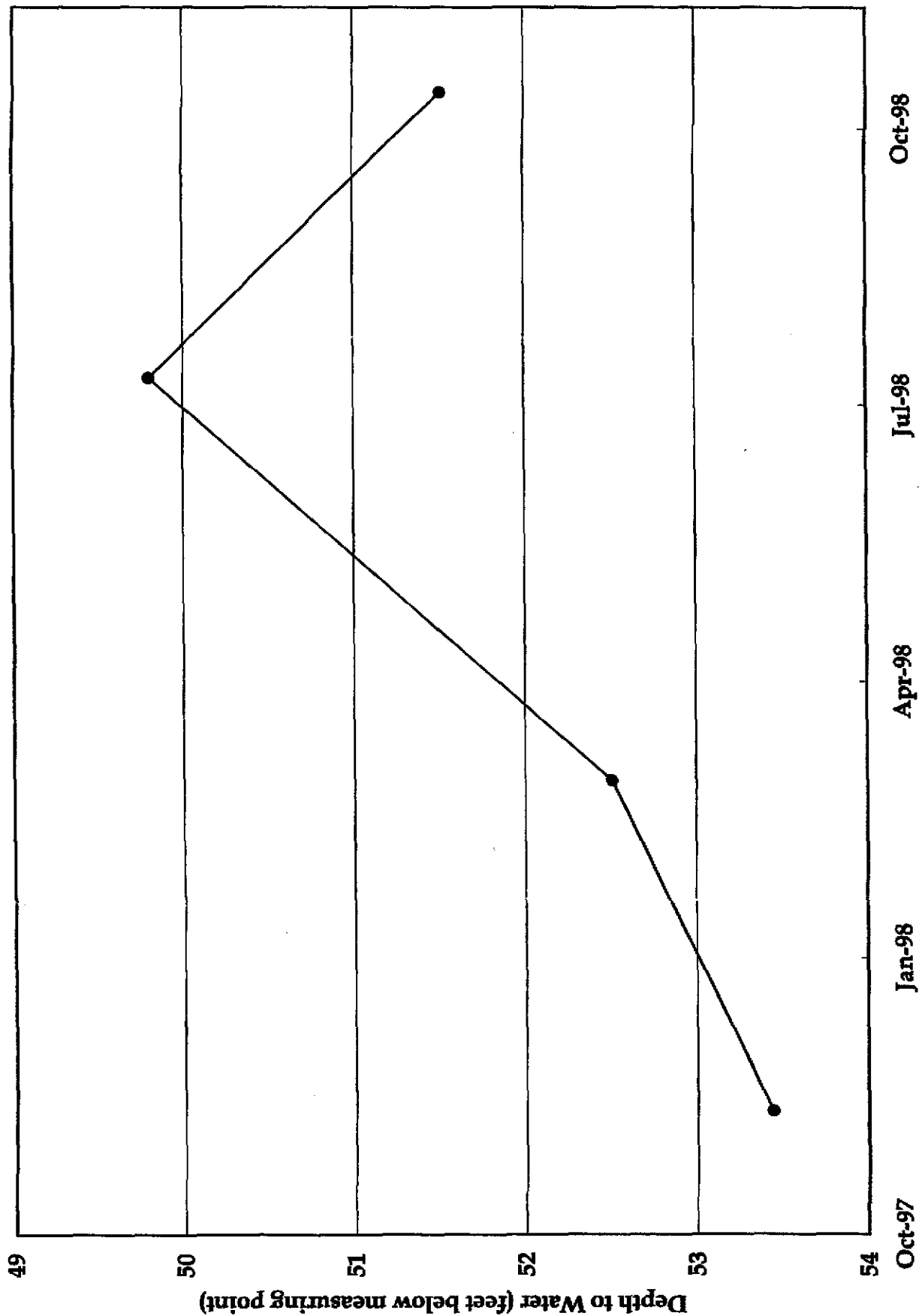
Laboratory Parameters				Field Parameters			
Rate (g/L)	Total Coliform (organisms/100ml)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	pH	Specific Conductance (umhos/cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)
10	<1	500		6.5-8.5			
0.10	<1	195	0.03	7.92	305	15.3	0.3
0.10	<1	218	0.06	7.46	255	15.8	0.2
0.10	<1	290	0.05	7.73	255	15.5	---
.42	<1	453	0.04	7.83	575	14.9	0.2
0.10	<1	573	0.04	7.55	610	13.7	<0.2
.61	<1	278	0.04	7.81	290	15.3	---
0.10	<1	365	0.08	7.84	445	13.1	0.2
0.10	<1	425	0.07	7.66	430	13.4	<0.2
0.10	<1	363	0.07	7.92	450	13.2	---
0.10	<1	290	0.11	7.89	360	13.9	0.0
0.10	<1	305	0.11	7.65	310	13.9	<0.2
0.10	<1	380	0.13	7.84	320	13.7	---
0.10	<1	215	0.76	7.46	252	12.7	0.5
0.10	<1	223	0.82	7.35	248	12.9	0.4
0.10	<1	303	0.86	7.66	260	12.6	---

Appendix A
Analytical Laboratory Reports
and
Groundwater Hydrographs

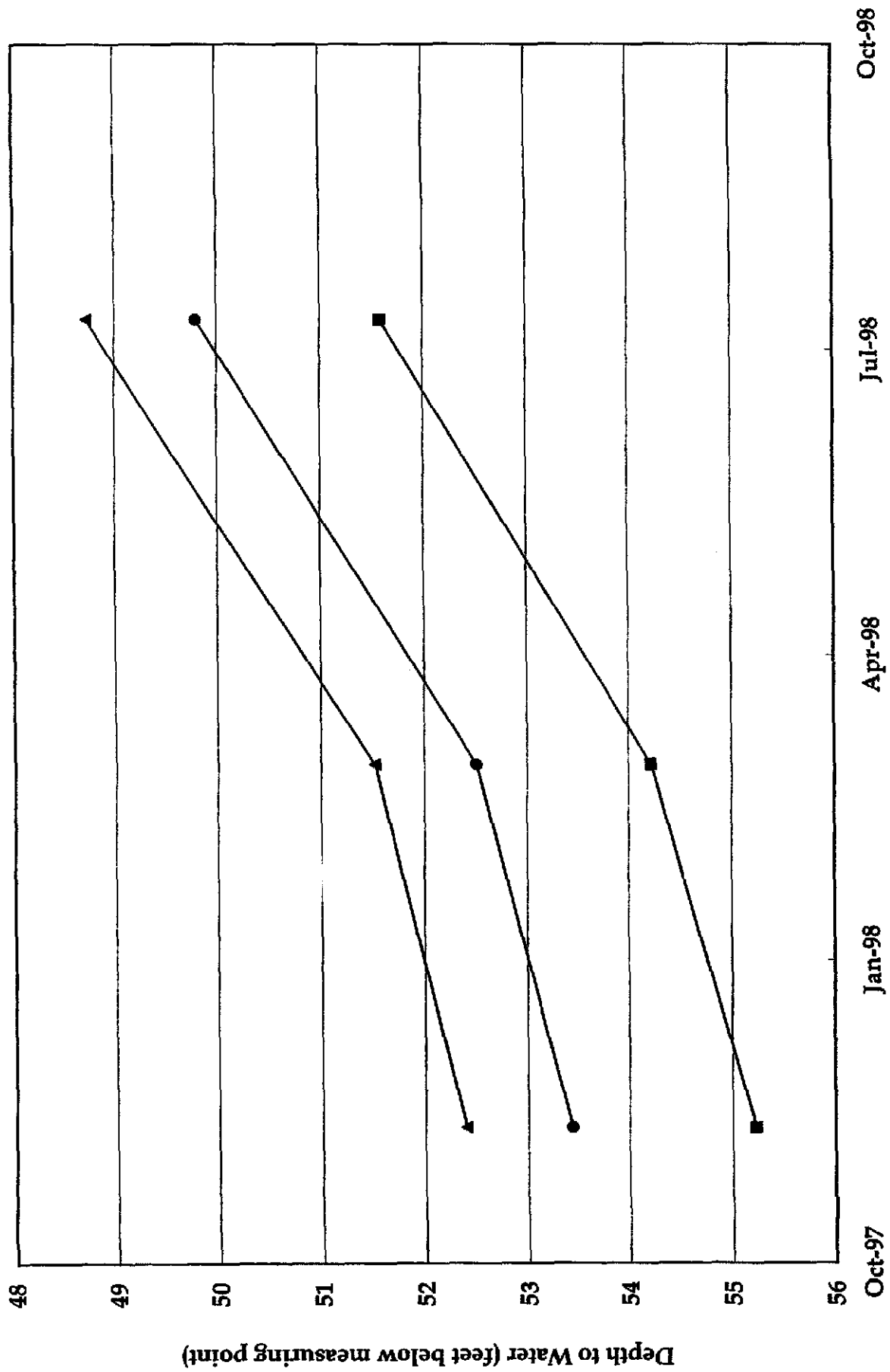
Hydrograph of Well D-1

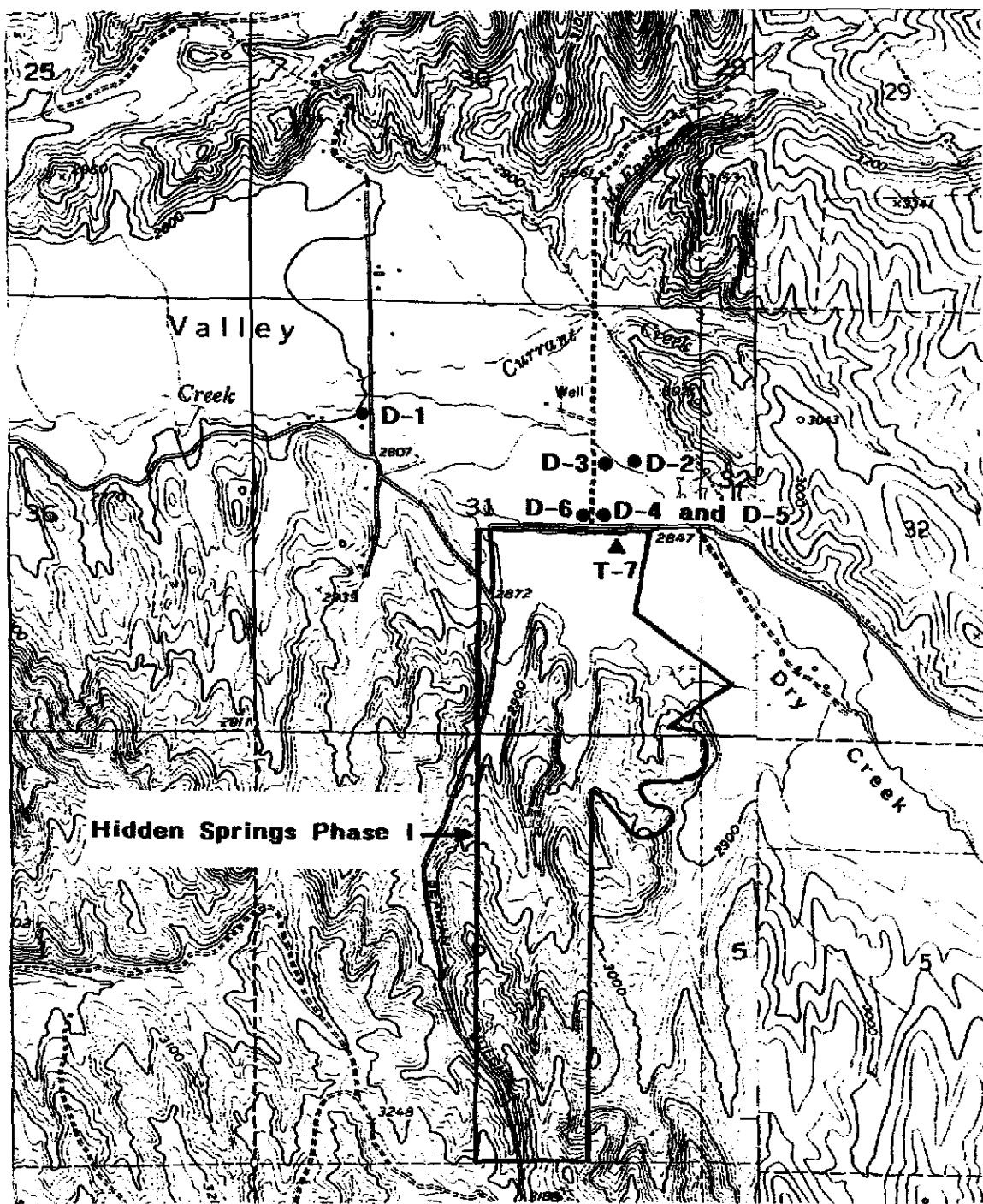


Hydrograph of Well D-2



Hydrograph of Wells D-2, D-3, and D-4





SCALE IN FEET



Legend:

● PRIVATE WELLS

▲ TEST WELL

Figure 1
Site Map and Well Locations
 Dry Creek Valley, Boise, Idaho

SAWTOOTH *Hydrologic* SERVICES

Table 1				
Groundwater Level Summary for Selected Wells in the Dry Creek Area				
Well Number	Owner's Name	Well Location Address	Static Water Level	
			Date Measured	Depth (ftbtsc)
D-1	Marian Shaw Murphy	13975 Broken Horn Rd.	2-Nov-97	25.48
			1-Mar-98	24.35
			12-Jul-98	21.52
			14-Oct-98	22.72
D-2	Mike and Kathleen Brady	13660 McFarland Crk. Rd.	12-Nov-97	53.44
			1-Mar-98	52.51
			12-Jul-98	49.80
			14-Oct-98	51.51
D-3	Jim/Geraldine Garrow	13920 McFarland Crk. Rd.	12-Nov-97	52.40
			1-Mar-98	51.52
			12-Jul-98	48.72
			14-Oct-98	50.51
D-4	Jim/Geraldine Garrow	5700 Dry Creek Rd.	12-Nov-97	55.23
			1-Mar-98	54.22
			12-Jul-98	51.58
			14-Oct-98	52.65

Notes:
ftbtsc= feet below top of steel surface casing

Table Groundwater Quality Summary for Selected Wells							
Well Number	Owner's Name	Well Location Address	Static Water Level		Date Water Sample Collected	Estimated Volume Purged (gallons)	Chloride (mg/L)
			Date Measured	Depth (ftbtsc)			
MCL or SMCL							250
D-1	Marian Shaw Murphy	13975 Broken Horn Rd.	2-Nov-97	25.48	2-Nov-97	200	1.96
			1-Mar-98	24.35	1-Mar-98	240	1.85
			12-Jul-98	21.52	12-Jul-98	250	1.92
D-2	Kathleen/Mike Brady	13660 McFarland Crk. Rd.	12-Nov-97	53.44	2-Nov-97	200	3.00
			1-Mar-98	52.51	1-Mar-98	240	3.61
			12-Jul-98	49.80	12-Jul-98	250	2.32
D-3	Jim/Geraldine Garrow	13920 McFarland Crk. Rd.	12-Nov-97	52.40	2-Nov-97	200	2.82
			1-Mar-98	51.52	1-Mar-98	200	3.08
			12-Jul-98	48.72	12-Jul-98	200	2.69
D-4	Jim/Geraldine Garrow	5700 Dry Creek Rd.	12-Nov-97	55.23	2-Nov-97	200	1.65
			1-Mar-98	54.22	1-Mar-98	225	1.77
			12-Jul-98	51.58	12-Jul-98	225	1.81
D-6	Pete/Betty Echanova	5750 Dry Creek Rd.	No well access		2-Nov-97	150	2.04
					1-Mar-98	200	2.06
					12-Jul-98	250	1.98

Notes:

ftbtsc= feet below top of steel surface casing

Estimated volume purged is the amount of water pumped from the well prior to collecting a sample.

MCL= maximum contaminant level listed by the Environmental Protection Agency. MCLs are health-based standards.

SMCL= secondary maximum contaminant level listed by the EPA. SMCLs are aesthetic-based standards.

Nitrate and total coliform have MCLs. Chloride, total dissolved solids, and pH have SMCLs.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

CLAIM TO A WATER RIGHT



Under the provisions of Section 42-243, Idaho Code, any person using or claiming rights to the public waters of Idaho established by diversion and application to a beneficial use must file a claim with the Department of Water Resources on or before June 30, 1983. Exempted from this filing are single family domestic uses as defined in Section 42-230(d), Idaho Code. Also exempted are rights represented by a permit, license, decree, adjudicated right, or a previously filed claim.

The filing of this claim does not confirm the water right claimed but failure to file may result in forfeiture of a water right.

Notice is hereby given that James D Garrow
(Name of Claimant)

12775 Hiway 55, Boise, Id 83703
(Mailing Address) (Zip Code) Telephone No. 939-6316

claims a right to the diversion and beneficial use of the surface or ground water. The extent and nature of said claim is as follows:

(1) Date of priority: (When was the water first applied to a beneficial use) 1960

A claim is not acceptable on a ground water source with a priority later than March 25, 1963 or on a surface water source with a priority later than May 20, 1971. An exception is that a claim may be filed on single family domestic use from a ground water source.

(2) Describe the source of water: (Name of stream, lake, spring, etc., or ground water)
Groundwater tributary to _____

(3) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:

Quantity	(cfs, af)	Use	(Domestic, Irrigation, Stock, Etc.)	(Both dates inclusive)	
				(Mo., Day)	(Mo., Day)
Quantity <u>.20</u>		Use <u>Irrigation</u>		Period of Use From <u>3/15</u>	To <u>11/15</u>
Quantity _____		Use _____		Period of Use From _____	To _____
Quantity _____		Use _____		Period of Use From _____	To _____
Quantity _____		Use _____		Period of Use From _____	To _____
Quantity _____		Use _____		Period of Use From _____	To _____

(4) .20 TOTAL QUANTITY USED.
(cfs, af)

(5) A) Point of diversion: (Location of point where water is diverted from its source)
SE 1/4 NE 1/4, Sec. 31 Twp. 5N Rge. 2E B.M., County of Ada
Additional points of diversion: 2 points

B) Describe means of diversion of water: (Pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.). Give sizes and capacities; be as specific as possible. Describe any changes in the system and give the date of the change.
2 wells with pump + pipeline into sprinkler system

(6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

T	R	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
5N	2E	31				11													11

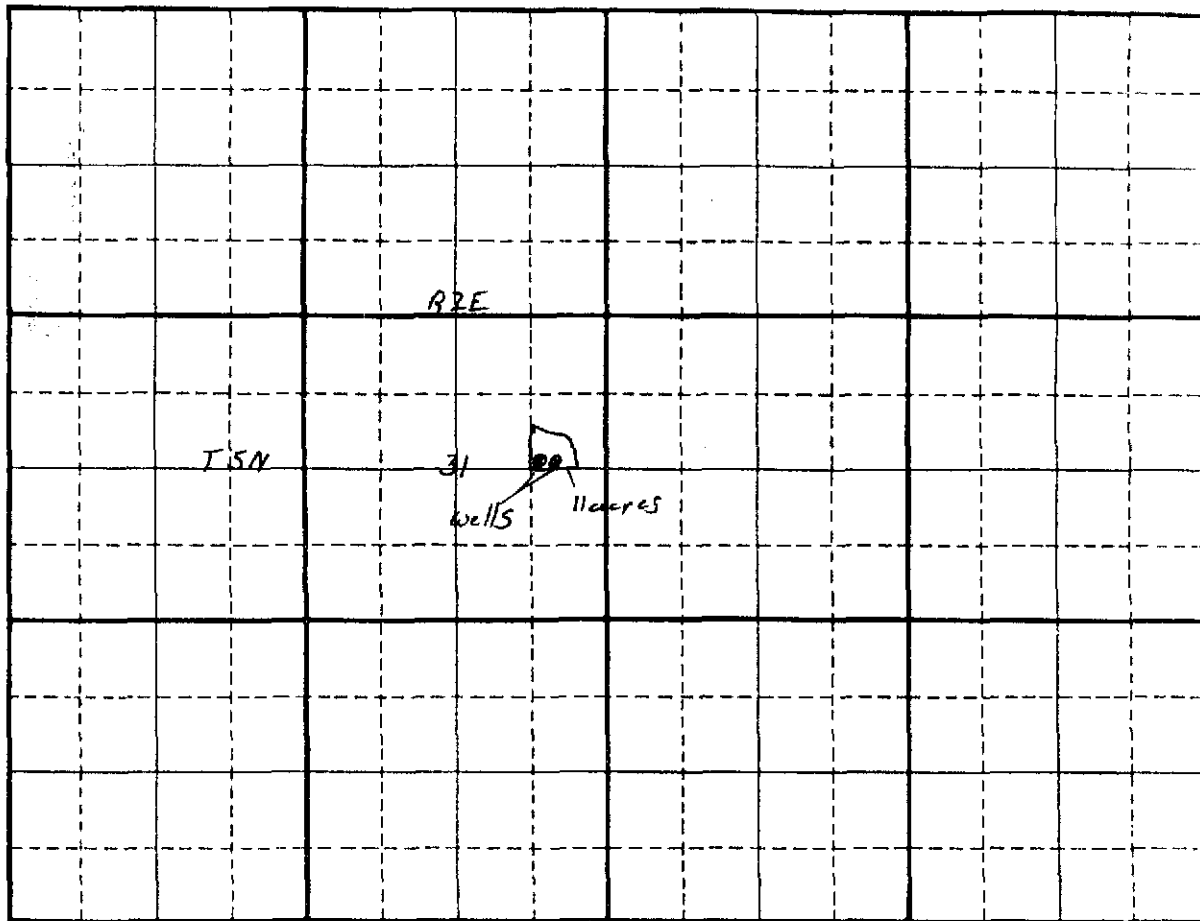
No. of acres 11

B) If water is used for other than irrigation, fully describe that use, being as specific as possible: _____

NOTE: Include here the type and number of stock watered: _____

(7) If you are claiming water as a member of an organization, list name of organization: _____

(8) Remarks _____



Scale: 2 inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
County of ADA) ss.

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiant's knowledge.

Sworn to before me this 21 day of JUNE

James D. Garraw
(Claimant)
1983
Donna H. Smith
Notary Public
Residing at BOISE, ID

My commission expires LIFE

FOR DEPARTMENT USE ONLY

Received by GHS Date 6/21/83 Exception filed by: _____ Date _____
Prelim. check by GP Date 6/7/83
\$30.00 fee received by GHS Date 6/21/83 # 31045
Published in Idaho Statesman
Dates 8/25 & 9/1/83