

ADDITIONAL INFORMATION NEEDED FOR IRRIGATION FIELD EXAMS

Field Examiners, please complete the following checklist. Mark "unknown" or N/A if information doesn't apply or information is unavailable.

IF CURRENT OWNER DOES NOT MATCH PROOF REPORT PLEASE GIVE NEW OWNER CHANGE OF OWNERSHIP FORM TO COMPLETE.

1.) Pump information:

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
WASTE PUMP	US MOTORS	7.5	UNKNOWN	PARMA PUMP	10" DISCHARGE

2.) Lift (distance from pump to water) 7 FT

3.) How was lift determined (well log, measurement, owner)? MEASUREMENT

4.) Pressure against pump (this is checked using the owner's psi gauge, your gauge, or an estimate by owner) 18 PSI (10 PSI DISCHARGE + 8 PSI HEAD DIFFERENCE)
20 FT ELEVATION DIFFERENCE / 2.31 = 8.7 PSI

5.) Was a measurement made? NO If no can a measurement be made at a latter time? NO
BOISE KUNA WATER CREATING BACK PRESSURE AGAINST PUMP. COULDN'T GET READING WHEN ONLY WASTE WATER USED.

6.) What type of measurement device was used? THEORETICAL CALCULATION

7.) Is there a pump curve available for pump? NO

8.) Please fill out the following:

Number of sprinklers _____

Sprinkler nozzle size _____

Number of Pivots (include gpm rating for each pivot) _____

MOSTLY GATED PIPE, SOME SPRINKLERS ARE USED, BUT A SEPARATE PUMP PRESSURIZED ALL WATER FOR SPRINKLERS.

9.) Please outline all acres irrigated on attached aerial photo. ✓ DONE

10.) Please clearly mark all points of diversion on map and GPS. ✓ DONE

11.) Please clearly mark all mainlines, ditches, and other conveyances.
✓ DONE

12.) Pictures taken of place of use and point of diversion. ✓ DONE

13.) Please show where and how water from other sources are diverted into the irrigation system.

FIELD EXAMINERS NOTES (descriptions, other uses, questions, ect.)

see ATTACHED memo

DATE EXAM CONDUCTED 6-12-2006

FIELD EXAMINER Daniel A. Helke

MEMORANDUM

TO: ADJUDICATION FILE 63-27051

FROM: DANIEL A. NELSON

DATE: 6/29/06

SUBJECT: FIELD EXAM NARRATIVE/NOTES

This claim is used with Boise Kuna water and ground water (permit 63-11752). The wastewater is diverted from the waste ditch through 2 ponds to remove silt (these ponds are too small to require a storage component, and fit within the 24 hour rule). A 7.5 Hp pump diverts the wastewater from the bottom pond into a mainline. The mainline travels in a westerly direction between the wastewater pond to the point where the Boise Kuna water enters the property through a bubbler. The ground water is also diverted into this same mainline. The mainline has several regulation points where water can be sent to a series of gated pipe and ditches. All three sources can be used on all of the lands. The only source that doesn't need to be pumped is the Boise Kuna water, because it can gravity feed to all of the regulation boxes and the wastewater and ground water need to be pumped up to the bubble where the Boise Kuna water comes in to irrigate the upper fields.

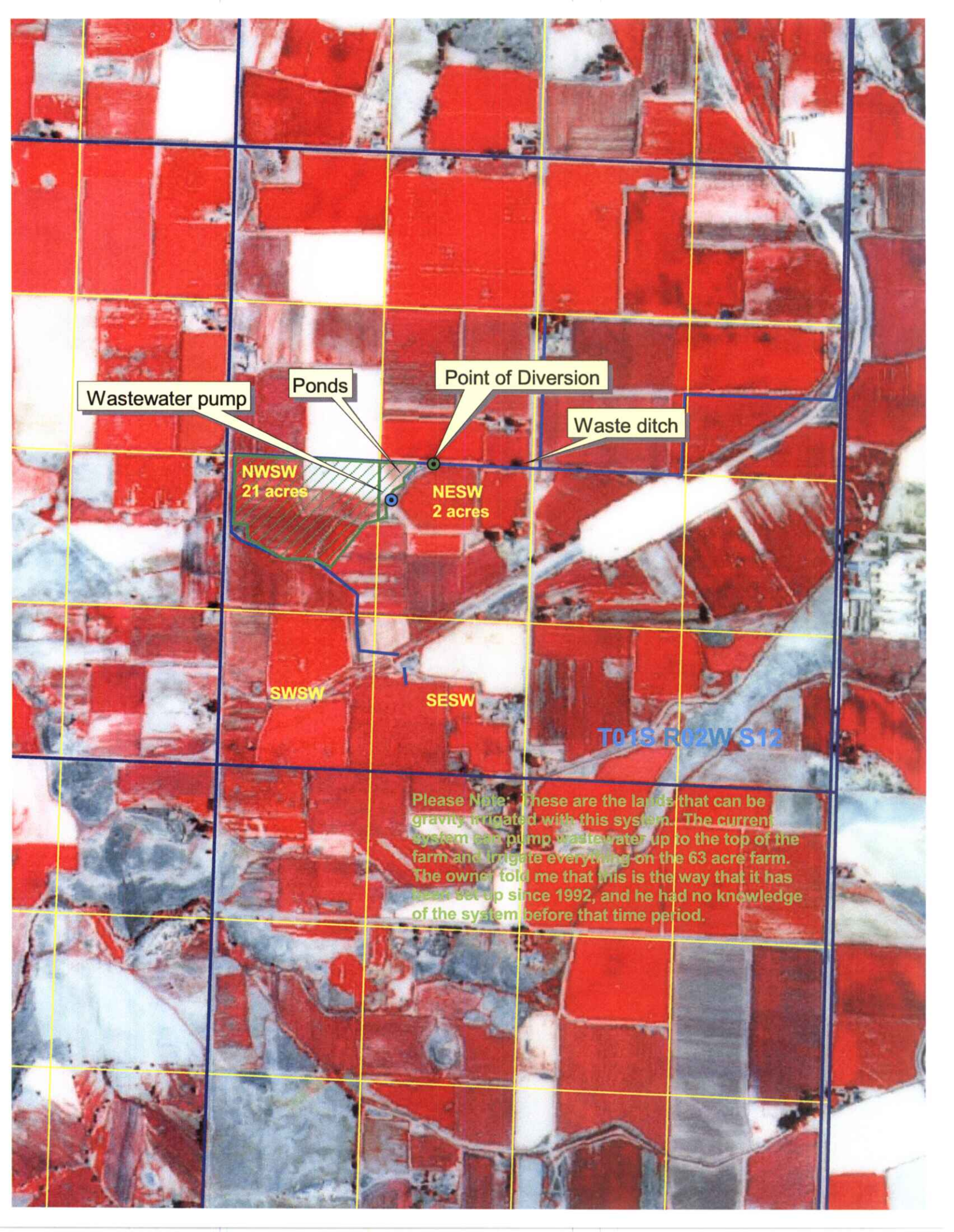
There is one field that is currently using sprinklers, but it has it's own re-lit pump that pumps directly out of the ditch.

The pump on the wastewater system was installed sometime in the early 1990's. The current owner stated it was in place the first time he saw the property in 1992. However, the original system was all gravity fed. When the adjudication claim was filed in 1992 it stated that the system was totally gravity fed, so I am assuming that the wastewater pump was installed late in the irrigation season of 1992. The only fields that can be gravity fed by the wastewater are west of the pond diversion and in-between the waste ditch. I found 21 acres that could be irrigated in the NWSW and 2 acres that could be irrigated in the NESW solely from the wastewater. Since the pump was installed sometime in 1992, the current owner is going to need to file a transfer to use the wastewater on his entire farm.

The diversion rate of the pump was calculated at 0.92 cfs. The most that can be allowed on this claim is 0.02 cfs per acre for the 23 acres or 0.46 cfs. Therefore, this claim can be recommended for the full amount of 0.46 cfs and 103.5 afa for the 23 acres irrigated.

PLEASE NOTE:

All shape files are located in the AWOOCOMMON on AWOOC in folder "odell roberts 27051".



Wastewater pump

Ponds

Point of Diversion

Waste ditch

NWSW
21 acres

NESW
2 acres

SWSW

SESW

T01S R02W S12

Please Note: These are the lands that can be gravity irrigated with this system. The current system can pump wastewater up to the top of the farm and irrigate everything on the 63 acre farm. The owner told me that this is the way that it has been set up since 1992, and he had no knowledge of the system before that time period.



Wastewater pump

Ponds

Point of Diversion

Waste ditch

NWSW
21 acres

NESW
2 acres

Ditches, gated pipe and mainlines

Boise Kuna water enters here.

Boise Kuna water and wastewater mix at this bubbler.

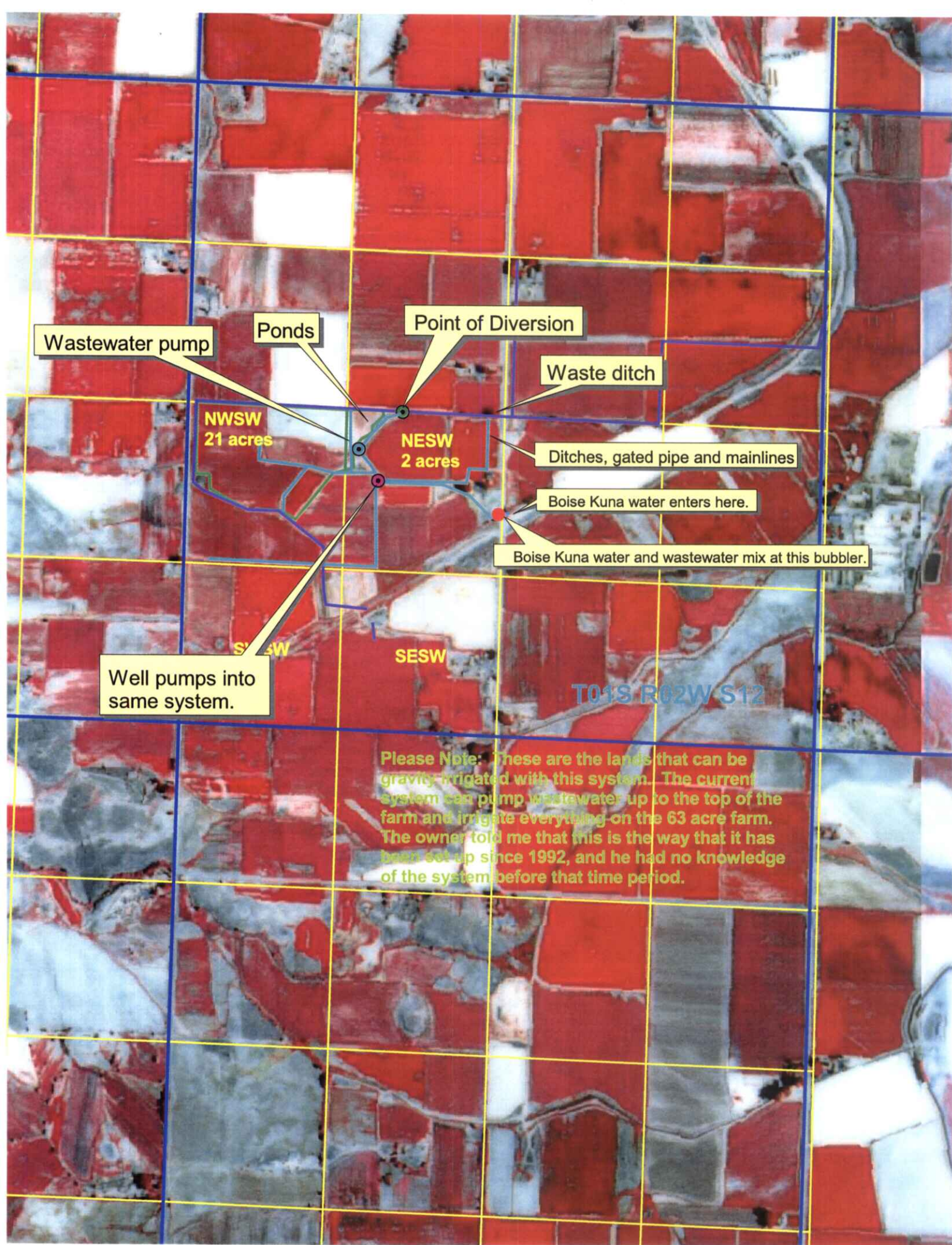
Well pumps into
same system.

SESW

SESW

T01S R02W S12

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PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 6/29/2006

FILE NUMBER 63-27051



The picture above is of the waste pump and the bottom pond. You can see the blue mainline coming out of the pump.



The middle picture is of the point of diversion. The waste ditch goes on the other side of the fence and the diversion to the ponds come on this side of the fence.



The bottom picture is of the ditch leading to the ponds.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 6/29/2006

FILE NUMBER 63-27051



This photo shows the fields being irrigated the fires waste pond and the pump.

GROUNDWATER THEORETICAL ANNALYSIS

FILE: 603-27051

DATE: 6-12-2006

BY: Dan Nelson

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

Q = CFS

HP = 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 [0])

$$Q = \frac{(8.8) \times (\underline{7.5}) \times (0.70)}{[(\underline{7 \text{ Ft.}}) + (\underline{18.7 \text{ psi}} \times 2.31)]} = \frac{46.2}{50.197} = \underline{0.92 \text{ CFS}}$$

413 gpm
46 inches.

LIFT FROM:

Measurement (X)

Owner ()

Area estimate ()

Well Logs ()

PSI FROM:

Measurement ()

Owner ()

Estimate (X)

Owner Gage ()

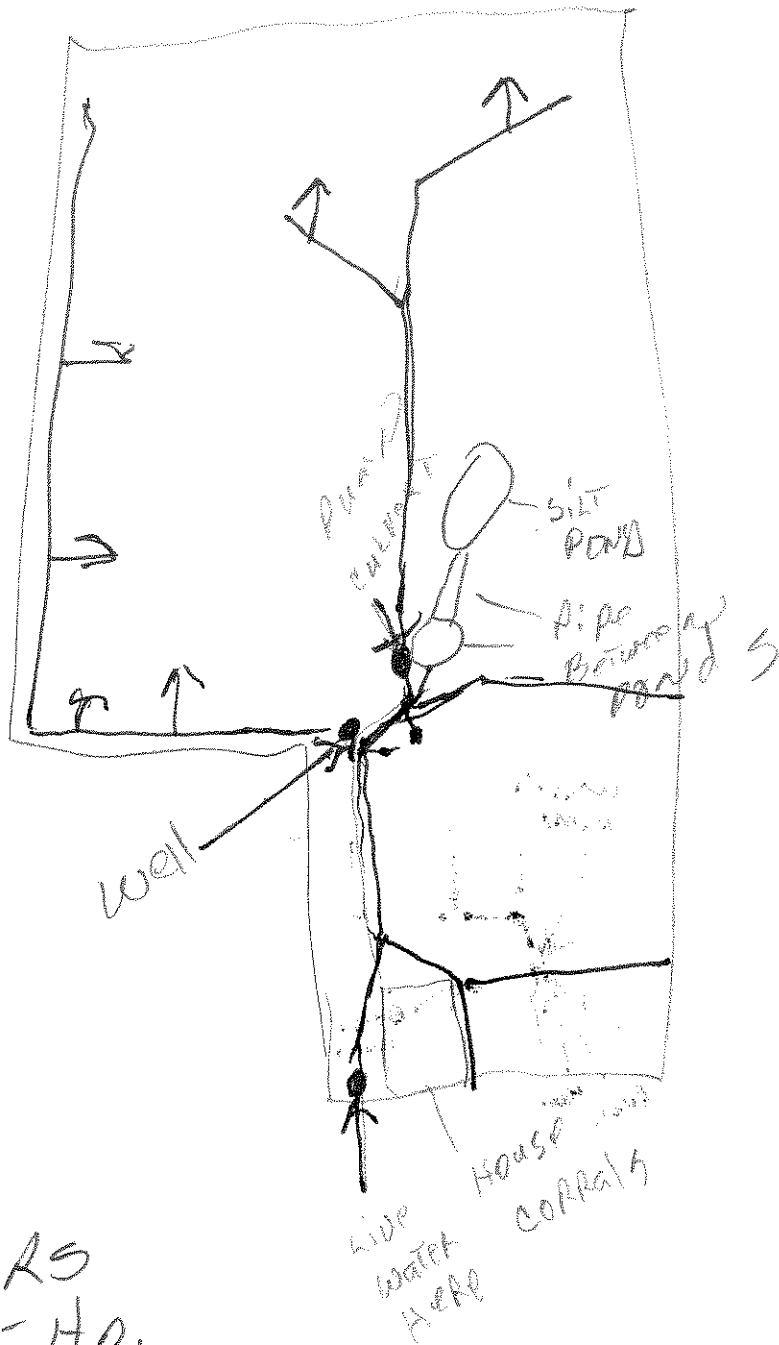
Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: LIFT was measured. Pressure was
Estimated with 10 psi for open discharge
and an additional 8.7 psi to account
for the 20 ft elevation difference
from the waste pump to top of
the farm (20 ft / 2.31 = 8.7 psi)



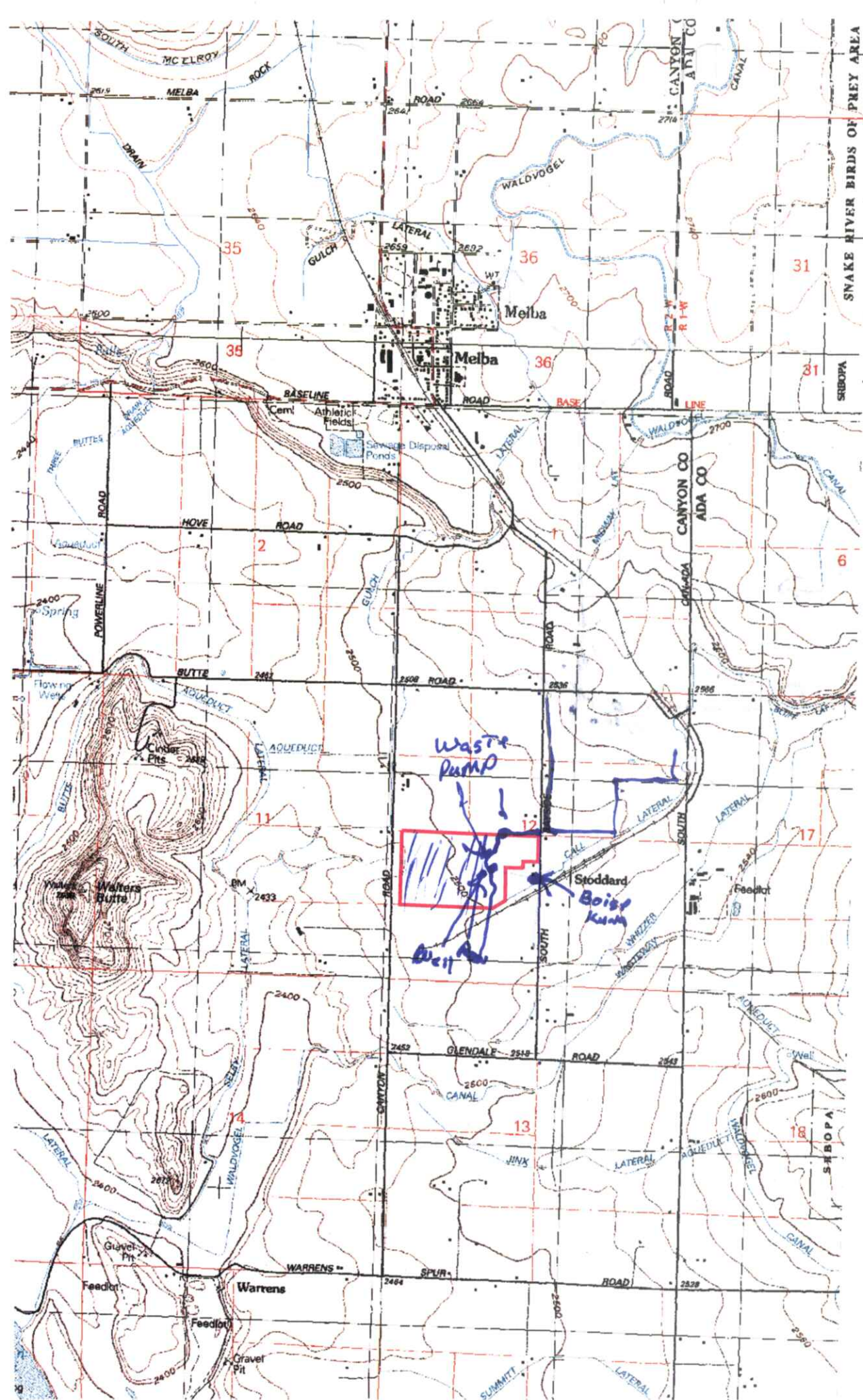
US
MOTORS
7.5 HP.

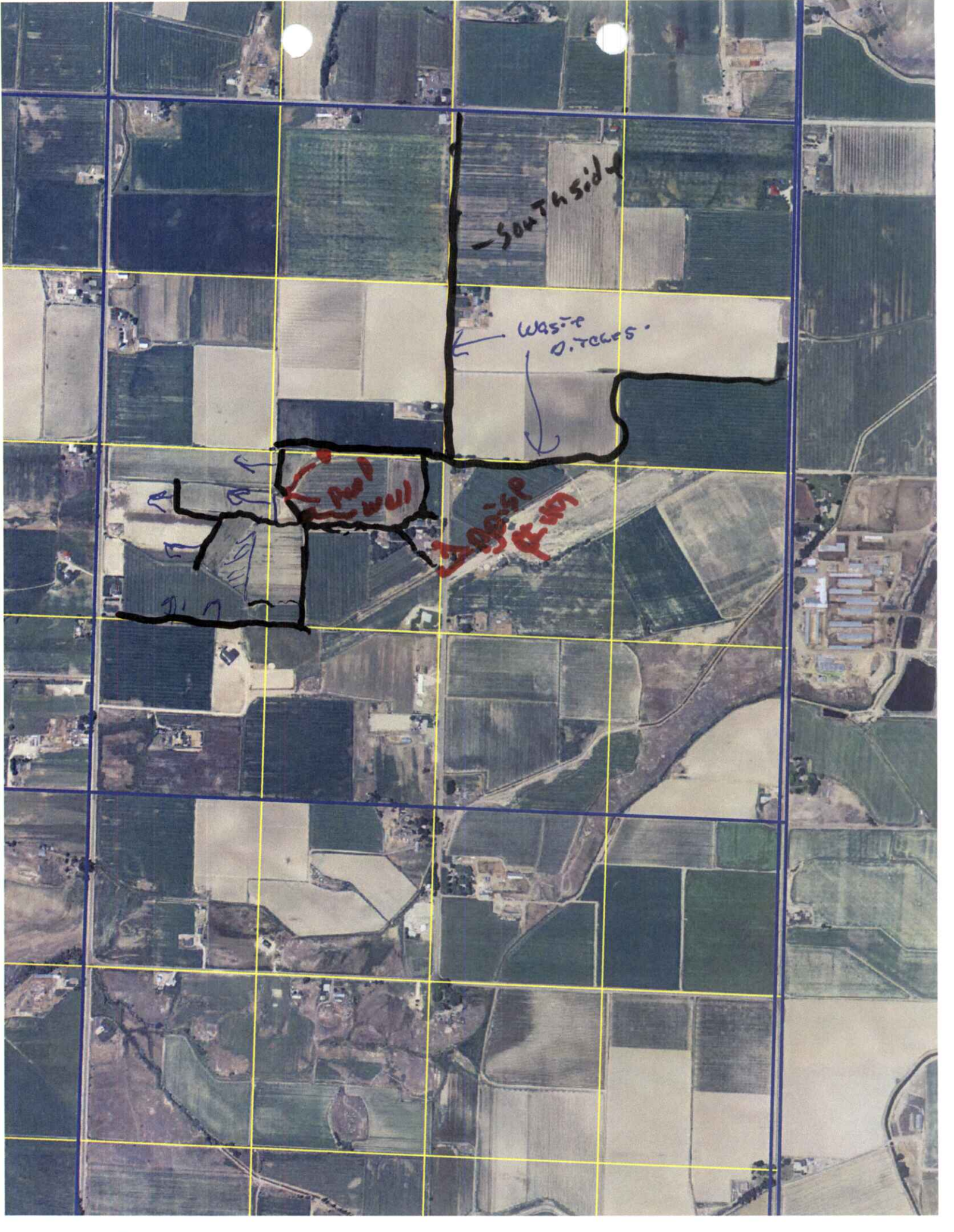
PARMA
LIFT PUMP
7 FT
LIFT

.95 CFS
0.87 CFS

$$\frac{(8.8)(7.5)(.70)}{7.} = 2.31 \times 10^3 \text{ PSI}$$

46.2
53.2
41.65
48.65





South side

Waste
Ditches

Waste
Ditch

Waste
Ditch

REAL PROPERTY INQUIRY

+++++

01 6R28274-010-B-0 093-00 SCH136+ 01 61,700

+++++

ROBERTS DONALD JAMES \$ +

+

+

+

+

1555 SOUTHSIDE BLVD +

MELBA ID 83641 +

+++++

12-1S-2W SW + TOTAL 61,700 63.06

TX 02158 IN N 1/2 SW ++++++

+ SURVEY INST 200214851

+ DRAIN DR VALUE APPR RET

+ CLASS REAP 03 MAN UNIT 0

0 SOUTHSIDE BLVD, ME + PARCEL 6R01S02W125262 H/O N C/B N

+ PRIOR ACCOUNT 5R28274-010-B-0

SEE R28274-010-A + 02 MH on Property NO

01 ACCOUNT: 6R28274-010-B-0 AREA 093-00 DRAIN VALUE CLASS H/O N
SEC 12 TWN 1S RNG 2W QTR SW CITY/SUB BLK LOT 5262
OWNERSHIP MUST BE 'C' FOR CURRENT OR 'P' FOR PREVIOUS
OWNERSHIP C OWNERSHIP P
SHAMROCK FARMS INC SHAMROCK FARMS INC
% ROBERTS, DONALD JAMES &
% ROBERTS, CYNTHIA ANN

MAILING ADDRESS

1555 SOUTHSIDE BLVD
MELBA ID 83641

SITE ADDRESS

0 SOUTHSIDE BLVD ME

COMMENTS

SEE R28274-010-A
PRIOR ACCOUNT 5R28274010B0
PARCEL 01S02W125262 SRVY
INSTR 200214851 ACRES 63.06
SPLIT YR 2005 DOCUMENT CO
DATE DONE 10/28/2004 INITIALS PG

LEGALS

12-1S-2W SW
TX 02158 IN N 1/2 SW

REMARKS

200214851
63.40AC FROM R28274-010- -0
ADJ 63.4 TO 63.06AC(MAPPING)

MODE:F ACTION:

OWNERSHIP TRACT RECORD INQUIRY

02 Ownership Tract Record

TRQK366

Account Number: 28274-010-B-0

Instrument Grantor

Grantee

Remarks

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-27051

WATER RIGHT NUMBER: 63-27051

Owner Type Name and Address
 Current Owner GLENN L O DELL
 1555 SOUTHSIDE BLVD S
 MELBA, ID 83641
 (208)495-2802
 Current Owner SANDRA J O DELL
 1555 SOUTHSIDE BLVD S
 MELBA, ID 83641
 (208)495-2802

*new owner
 ROBERTS, Donald James*

495-2311

Same Address -

Priority Date: 03/15/1952
 Basis: Beneficial Use
 Status: Active

Source Tributary
 WASTE WATER SNAKE RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	3/15 to 11/15	0.460 CFS	
<u>Total Diversion:</u>		0.460 CFS	

Location of Point(s) of Diversion

WASTE WATER NW1/4NE1/4SW1/4 Sec. 12, Twp 01S, Rge 02W, B.M.
 CANYON County

Place of Use
 IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S 02W 12									3.0	20.0							23.0

Total Acres: 23

Conditions of Approval:Remarks:Comments:Dates and Other Information:

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-27051

Claim Received Date: 7/7/1992

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

State or Federal: S

Owner Name Connector: AND

Water District Number:

Generic Max Rate Per Acre:

Generic Max Volume Per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Carey Act Number:

Mitigation Plan: False

Combined Use Limits:

Water Supply Bank: