

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
APR 29 2010
DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 63-33109

1. Owner: John and/or Melody Witte Phone No.: 208-938-0255

Current Address: 4850 N. Curlew Place, Eagle, ID 83616

2. Accompanied by: _____ EXAM DATE: April 20, 2010

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-31847

2. Other water rights with the same point of diversion: 63-31847

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	3		NW	SW	30	5N	1E	Ada	Exam, 2009 Photo

2. Place(s) of Use:

Indicate Method of Determination Exam, 2009 Photo

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5N	1E	30										4	Lt 3 4						8

Total 8

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe id as applicable. See Attachment C

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
8-inch well		7.5		Berkeley Submersible Turbine	2-inch

*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
None						

2. Measurements: _____ Pump Curve _____

E. NARRATIVE/REMARKS/COMMENTS

A 7.5-hp vertical submersible turbine pump supplies irrigation water to eight acres of landscape, grapes and truffle trees. The well is 8-inch diameter with a completed depth of 284 feet. The submersible turbine pump is set at a depth of 252 feet with 2-inch column pipe. The well and pump also serve one home and up to five acres of landscape irrigation authorized under water right 63-31847. The five acres authorized under right 63-31847 are separate from the eight acres developed under this permit.

A 1-hp booster pump provides sprinkler and drip system pressure for high elevation areas. At 50 gpm, a 1 hp booster provides approximately 25 psi. Elevation at the well is approximately 2700 feet. Elevation at the booster is approximately 2750 feet. Elevation at the highest point in the system is approximately 2840 feet. Allowing for 10 psi of friction loss in the mainlines, a 65 psi discharge pressure at the well provides 20 psi of pressure to deliver water over the high point between the irrigated areas in the NWSW and NESW.

Grapes and grass are irrigated in the NWSW and truffle trees are irrigated in the NESW. The grass is irrigated with sprinklers that are pressurized with a Munro booster pump (1 hp, single phase, Product #HWCLM26451EP). The grapes and truffle trees are irrigated with 1/2-inch drip irrigation lines. The truffle tree orchard in the NESW consists of 36 drip lines. The drip lines in the NESW are fed from a 1.5-inch and 2-inch diameter mainline that extends along the northern edge of the tract. The drip lines run from northwest to southeast. The 29 lines in the west portion of the orchard are spaced approximately 17 feet apart. Truffle trees are planted every 15 feet along each drip line in this area. The 7 drip lines in the eastern portion of the orchard are spaced approximately 45 feet apart.

This right when combined with 63-31847 is limited to 0.11 cfs and 57.5 afa diversion capacity.

Attachment A is a copy of the permit and the proof of beneficial use.

Attachment B is the well driller's report and pump performance curve.

Attachment C is a topographical map and aerial photo.

Attachment D are photos of the place of use and point of diversion

Have conditions of permit approval been met? x yes no

F. FLOW CALCULATIONS

Yes Additional Computation Sheets Attached

Measured Method:

Pump Curve (Attachment B)

Well Pump Curve: 50 gpm (0.11 cfs) at 370 ft TDH

Static Water Level = 162 ft

Specific Capacity = 1.25 gpm/ft (50 gpm/40 feet drawdown (per Coonse Well Drilling))

Drawdown at 50 gpm = 40 ft

Pumping water level at 50 gpm = 202 ft

Friction loss (252 ft of 2-inch column) = 7 ft/100 ft = 18 ft

Discharge pressure = 370 ft – 202 ft – 18 ft = 150 ft = 65 psi

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8 \times 4.5 = 36$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.11 \text{ cfs} \times 260 \times 1.9835 = 57.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 36$$

2. Volume Calculations for Other Uses:

n/a

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/1	11/15	0.11 cfs	36.0 afa

This right in combination with 63-31847 not to exceed 0.11 cfs and 57.5 afa.

2. Recommended Amendments

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

I. AUTHENTICATION

Field Examiner's Name Terry M. Scanlan, P.E., Certified Water Right Examiner 11-129 Date 4-26-16

Field Examiner's Signature 

Reviewer _____ Date _____



ATTACHMENT A

**PROOF OF BENEFICIAL USE
PERMIT 63-33109 RECORD AND DECREE 63-31847 RECORD**

RECEIVE

APR 29 2010

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
DEPARTMENT OF WATER RESOURCES OR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY

Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been completed and that water has been applied to beneficial use to the extent described below. This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner. Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an Assignment of Permit form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 63-33109 Telephone No. 208-938-0255

2. Name of Permit Holder(s): John and/or Melody Witte

3. Mailing Address: 4850 N. Curlew Pl. City Eagle

State ID Zip 83616 Email: _____

4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. Sept / yr. 2004

Well Driller: Coonse Well Drilling Drilling Permit Number: 824340

5. Extent of use(s) completed (as authorized by the water right permit):

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

Irrigation (No. of acres): 8 Other: _____

6. Total rate of diversion or storage volume for which proof is submitted: 0.11 cfs OR _____ acre-feet.

7. Compliance with a Measuring Device requirement and/or other Conditions of Permit: *(Refer to the approval conditions on your permit and respond accordingly.)*

Measuring Device: Is a measuring device required?
If yes, has the measuring device been installed?

Yes ☐ or No ☒
Yes ☐ or No ☐

Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)

Completed?

Yes ☐ or No ☐

Completed?

Yes ☐ or No ☐

8. Fee Enclosed: \$ N/A (See Fee Schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)

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

Name: _____ Telephone Number: _____

Mailing Address: _____ City _____

State _____ Zip _____ Email: _____

10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: John Witte
(include your title, if on behalf of company or organization)

Date: 4/28/10

[Close](#)IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

4/26/2010

WATER RIGHT NO. 63-33109

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	JOHN WITTE
Current Owner	MELODY WITTE
	4850 N CURLEW PL
	EAGLE, ID 83616
	(208)938-0255
Representative	SPF WATER ENGINEERING LLC
	C/O ROXANNE BROWN
	300 E MALLARD DR, STE 350
	BOISE, ID 83706
	(208)383-4140

Priority Date: 09/15/2008

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/01	11/15	0.24 CFS	
Total Diversion			0.24 CFS	

Location of Point(s) of Diversion:

GROUND WATER	NESW	Sec. 30	Township 05N	Range 01E	ADA County
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GROUND WATER	NWSW Lt 3	Sec. 30	Township 05N	Range 01E	ADA County
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Place(s) of use:

Place of Use Legal Description: IRRIGATION ADA County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
05N	01E	30		NESW	8	3	NWSW	4						

Total Acres: 12

Conditions of Approval:

1.	046	Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
2.	01M	After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
3.	R65	This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
4.	004	This right does not grant any right-of-way or easement across the land of another.
5.	121	The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

Dates:

Proof Due Date: 05/31/2010

Proof Made Date:

Approved Date: 05/15/2009

Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Application Received Date: 09/15/2008

Protest Deadline Date: 05/04/2009

Number of Protests: 0

Field Exam Date::

Date Sent to State Off:

Date Received at State Off:

Other Information:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre: 0.02

Generic Max Volume per Acre: 4.5

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

[Close](#)IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

4/26/2010

WATER RIGHT NO. 63-31847

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	JOHN WITTE
Current Owner	MELODY WITTE 4850 N CURLEW PL EAGLE, ID 83616 (208)938-0255
Original Owner	CARLES MONTE POST
Original Owner	JOHN CLARK 6000 LITTLE FREEZEOUT RD CALDWELL, ID 83607 (208)453-8886

Priority Date: 09/29/1978

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/15	11/15	0.08 CFS	22.5 AFA
Total Diversion			0.08 CFS	

Location of Point(s) of Diversion:

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GROUND WATER	NWSW Lt 3	Sec. 30	Township 05N	Range 01E	ADA County
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Place(s) of use:

Place of Use Legal Description: IRRIGATION ADA County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
05N	01E	30	3	NWSW	5									

Total Acres: 5

Conditions of Approval:

1.	P21	THIS RIGHT IS A SPLIT FROM FORMER RIGHT 63-31794.
2.	C18	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.
3.	T07	The right holder shall accomplish the change authorized by Transfer 71112 within one (1) year of the date of the approval.
4.	T08	Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
5.	046	Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6.	R69	This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
7.	J01	Property is also known as PAR #1015 OF Lots 1 & 2, Blk 1, Spirit Ridge Acres.
8.	S39	The use of water for irrigation under this right may begin as early as March 1, provided other elements of the right are not exceeded. The use of water before March 15 under this remark is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than the date a partial decree is entered for this right.

Dates:

Licensed Date:

Decreed Date: 04/29/2009

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date:

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre: 0.02

Generic Max Volume per Acre: 4.5

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

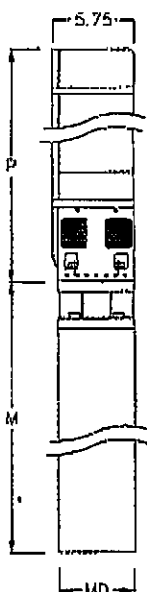
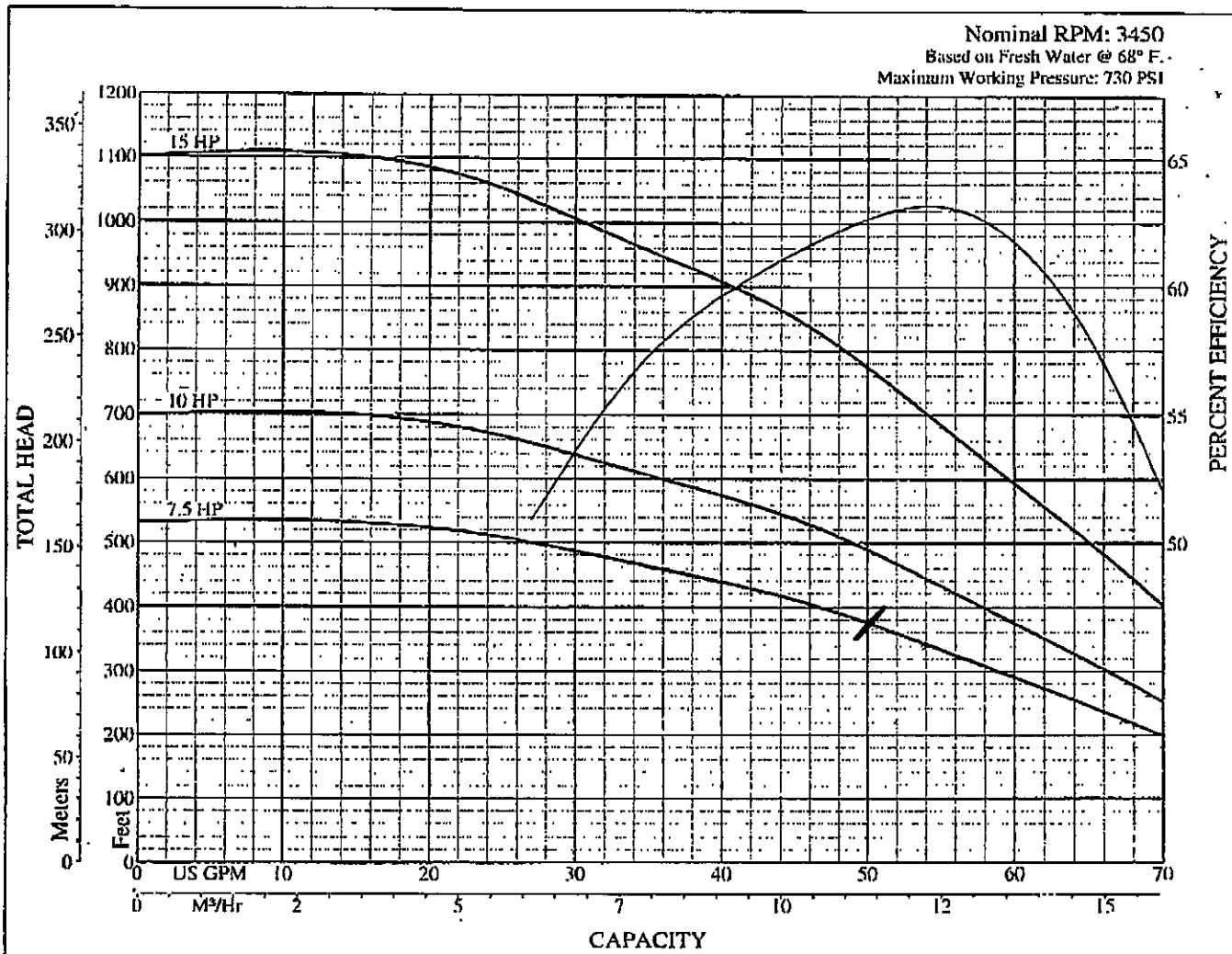
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ATTACHMENT B
WELL LOG AND PUMP CURVE



SUBMERSIBLE TURBINE

6AL



OUTLINE DIMENSIONS / WEIGHTS

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
7.5	12	4"	38.80	29.62	3.75	69	54
7.5	12	6"	39.90	28.00	5.38	120	55
10	16	6"	50.30	30.56	5.38	135	65
15	25	6"	73.10	33.13	5.38	146	89

Note: dimensions = inches; weight = U.S. lbs.

M* Maximum length (Franklin Electric Motor)

MD* Motor diameter (Franklin Electric Motor)

SPECIFICATIONS

Minimum Well I.D.	6.0 Inches
Minimum Submergence @ BEP (above inlet)	10.0 Feet
Capacity Range	27 - 70 GPM
Discharge	3" F NPT

See manufacturer's data for motor cooling requirements

SUPERSEDES

All Previous

Date 11/01/97

Section **ST**

Page 1.02

ATTACHMENT C
TOPO MAP AND 2009 AERIAL PHOTOS

T5N R1E
Section 30

SWNW Lt 2

SWSE

NWSW Lt 3

NESW

-  Point of Diversion
-  Booster Pump
-  Developed Irrigation
-  Sections
-  Quarter-quarters

Witte Permit 63-33109

0 155 310
Feet



SPF WATER
ENGINEERING



**T5N R1E
Section 30**

2009 Photo

SWNW Lt 2

SWSE

NWSW Lt 3

NESW

-  Point of Diversion
-  Booster Pump
-  Developed Irrigation
-  Sections
-  Quarter-quarters

Witte Permit 63-33109

0 145 290
Feet



**SPF WATER
ENGINEERING**



ATTACHMENT D
PHOTOS



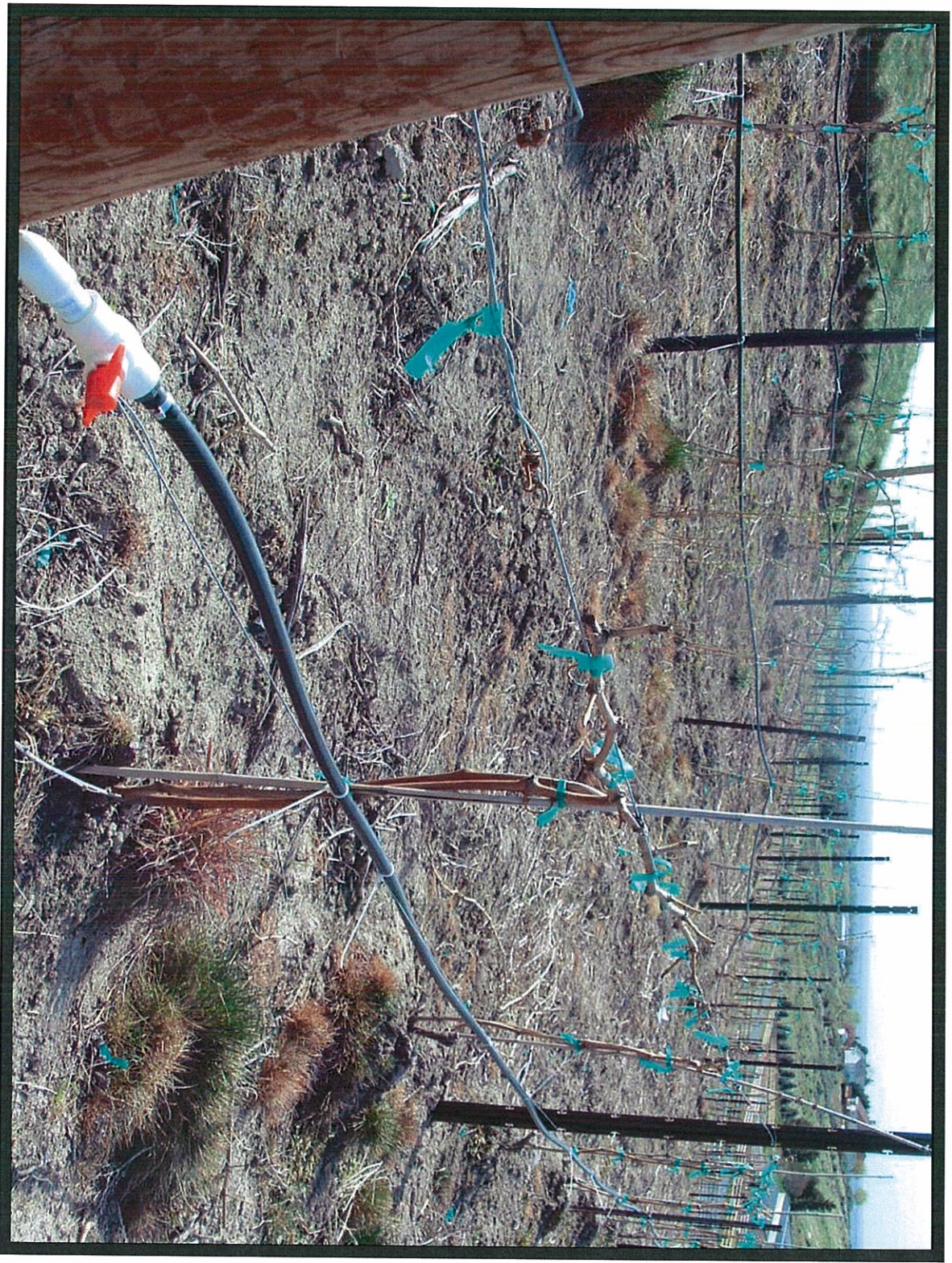
Point of Diversion



1 hp Booster Pump



Sprinkler Irrigation in NWSW



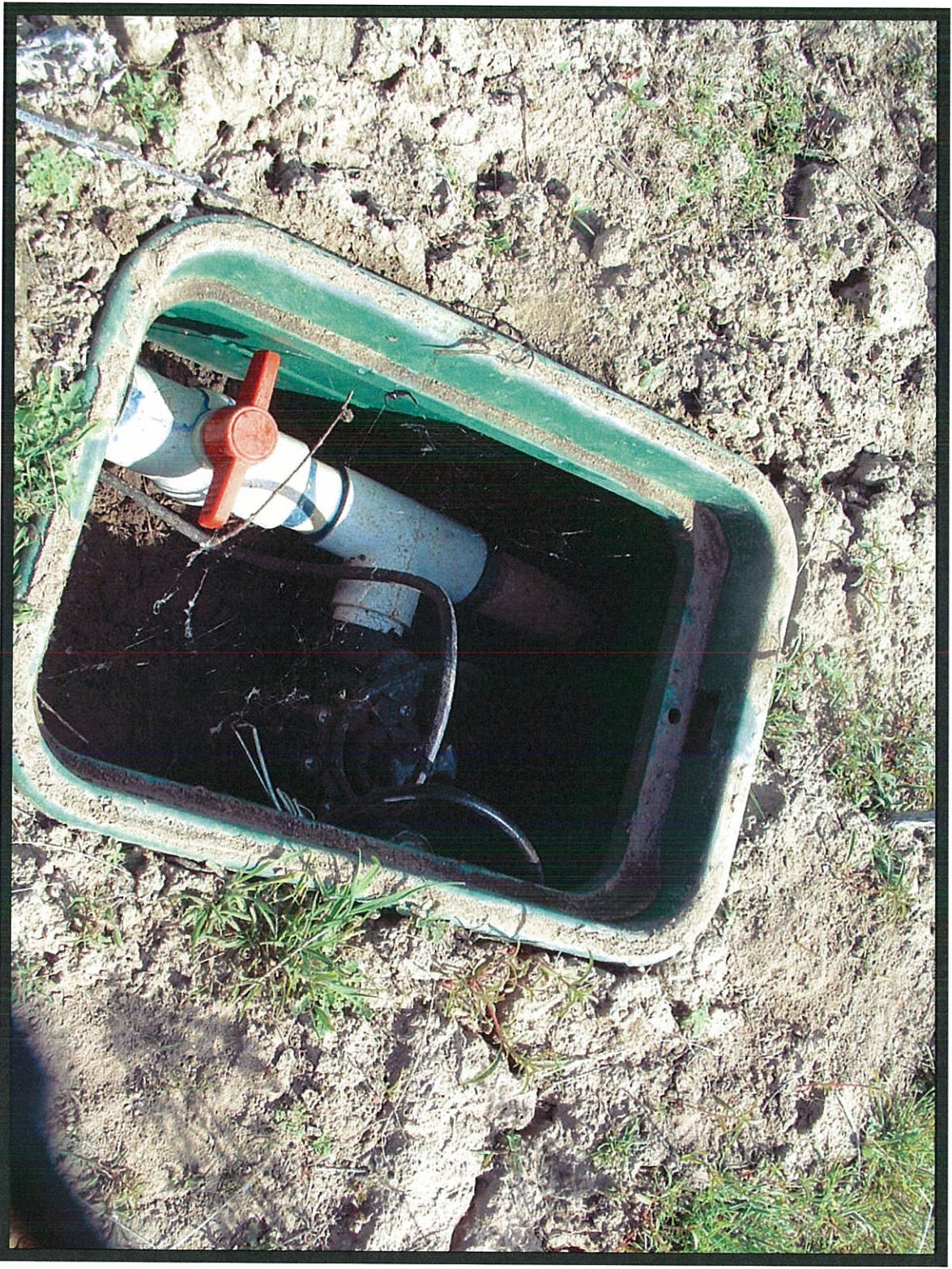
Drip Irrigation in NWSW



Grass and Grapes in NSW (Looking North)



Grass Area in NW/SW (Looking South)



Valve Control Box for Drip Lines in NESW



Small Irrigated Truffie Tree in NESW



Irrigated Truffle Tree in NESW (larger)



Irrigation Drip Line and Truffle Trees in NESW (Indicated by Pink Flags)



More Drip Line and Truffle Trees in NESW