

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/FIELD REPORT**

Permit No: 75-14730Does this qualify for an in-office field exam (*IDAPA 035.02.r*)?

Is the permit for:

- Irrigation of 5 acres or less
- Storage of up to 14.6 AF for stockwater purposes only
- Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less

Verify that fees have been paid: \$50 Receipt No C097229

A. CONTACT INFORMATION1. Is the Owner of record correct (y/n): YIf : Owner:Is the Address of record correct (y/n): Y

If NO: Address: _____

If available:

Phone No: _____ E-mail: _____
(Primary)Phone No: _____ E-mail: _____
(Secondary)**B. POINT OF DIVERSION**N Change in POD (y/n)?

If yes:

Source	Gov t. Lot	¼	¼	¼	Sec	Twp.	Rge.		County
Ground Water			SW	SE	35	24N	21E	B.M.	Lemhi

Method of Determination: Conversation with the permit holder and site visitN Amendment Required (y/n)?

C. SOURCE:1. ☐ Change in Source (y/☒)?

If yes:

Source: _____ tributary to _____

2. Method of Determination/Remarks: Photograph of the point of diversion
☐ N Amendment Required (y/n)?**D. OVERLAP REVIEW POD**

Point of Diversion (POD) Overlap: Water rights 75-10714, 75-10717 and 75-7669 share the same quarter quarter. However they are diverted from different wells.

☐ N (y/n) Other water rights with the same point of diversion (POD)?

Research tools:

☒ InfoSearch - Query for other water rights with the same POU☒ Use ArcMap for overlapping POU**E. PLACE OF USE:**1. ☐ N Change in POU (y/n)?

If yes:

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	
24N	21E	35															1.6		1.6

Or:

☒ See attached map2. Method of Determination/Remarks: ☒ Field exam, map and gis☐ N Amendment Required (y/n)?**F. OVERLAP REVIEW POU**

1. Place of Use (POU):

This land does not receive water from another source

☐ y (y/n): Other water rights with the same place of use(POU)?

See attached list

Research Tools:

☒ InfoSearch - Query for other WR's with same POU

☒ POU Comparison Report - Query Tools
☒ Use ArcMap for overlapping POU

For irrigation rights only:

 Y (y/n)?

PURPOSE OF USE:

 N Change in purpose of use (y/n):

Method of Determination/Remarks: Site visit and conversations with current land owners

Non-irrigation uses:

Domestic # of homes 1

Stock # 4

Other: _____

G. DIVERSION RATE:

Calculations: 1.1 acres X 0.03 = 0.03 cfs

Recommended irrigation rate: 0.03

Permit 0.16 cfs

Theoretical Calculation: 0.03 cfs (see attached)

Recommended rate 0.03 cfs

Notes/Remarks: _____

H. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.6 \times 3.5 = 5.6$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 214 \times 1.9835 = 21.22 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{5.6 \text{ AF}}$$

2. Volume Calculations for Other Uses: NA

Domestic 0.6 AF

Stockwater 0.2 AF

Irrigation 5.8

Recommended volume: 6.6 AF

I. NARRATIVE/REMARKS/COMMENTS/CHECKLIST

 Y Is there enough information to verify the water right in office (*IDAPA 035.02.r*)?
 We need to be able to verify:

☐ Y Beneficial use
☐ Y Place of use
☐ Y Season of use
☐ Y Point of diversion

Checklist (you do not need all of these items):

☐ Property tax information
☒ Well driller report
☐ Receipts
☒ photographs
☒ Aerial photography
☐ Other records of the permit holder
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use
(REQUIRED). Scale must be 1:24,000 or greater.

**Have conditions of permit approval been met? ☒ Yes ☐ No

NARRATIVE/REMARKS/COMMENTS

A well in T24N R21E Section 35 SWSE provides domestic water for one house, Stockwater for horses and irrigation for 1.6 acres. The well sits in the northwest corner of the pasture. A 1.1 acre pasture is downhill and west of the house. An area of bare ground approximately 200 feet wide separates the pasture from an orchard that is downhill and west of the house.

J. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	4/1 to 10/31	0.03 CFS	5.8 AF
DOMESTIC	1/1 to 12/31	0.03 CFS	0.2 AF
STOCKWATER	1/1 to 12/31	0.01 CFS	0.6 AF
	<u>Totals:</u>	0.03 CFS	6.6 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ N None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

K. AUTHENTICATION

Field Examiner's Name Summit Trail Date 3/6/2015

Reviewer _____ Date _____

GROUNDWATER THEORETICAL ANALYSIS

FILE: 75-14730

DATE: November 18, 2014

BY: Sandy Thiel

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

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])

(8.8) X (.5) X (0.70) = 3.08

Q = 0.03

$$[(44) + (18 \times 2.31)] = 85.58$$

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

Booster (N)

PSI FROM:

Measurement ()

Owner (x)

Estimate ()

Owner Gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS:

Thiel, Sandra

From: dishong@centurytel.net
Sent: Wednesday, November 19, 2014 7:48 PM
To: Thiel, Sandra
Subject: RE: water right

Ok, my husband says it was a 1/2 horse, 230 v. from Ace Hardware. Sorry, I should have asked him first. Hope this helps.

Quoting "Thiel, Sandra" :

Hello, Based on the information that you have provided, that pump would produce about 0.03 cfs (13-14 gallons per minute). I want to make sure that it is a 3/4 horse power pump. Your permit has a maximum diversion rate of 0.16 cfs. The well drillers report shows a capacity of 10 gallons per minute. I just want to confirm this with you.

From: dishong@centurytel.net [<mailto:dishong@centurytel.net>]
Sent: Tuesday, November 18, 2014 1:52 PM
To: Thiel, Sandra
Subject: Re: water right

I believe it is a 3/4 horse. Thanks. Lynne

Quoting "Thiel, Sandra" :

Hello, I am licensing water right 75-14730. I have what I hope is one last question. Can you tell me the horsepower of your pump? Thanks

Sandra Beer Thiel

Idaho Department of Water Resources

322 East Front Street

Boise, Idaho 83720-0098

(208)287-4881

sandra.thiel@idwr.idaho.gov

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	SWSE	SESE	Total Acres
Point of Diversion Comparison								
Water Right	75-10714	N	HODGES, CLYDE; HODGES, DOROTHY R	GROUND WATER	POD	X		0
Water Right	75-10715	N	HODGES, CLYDE; HODGES, DOROTHY R	GROUND WATER	POD	X		0
Water Right	75-14730	Y	DISHONG, ERNEST; DISHONG, JEANNE	GROUND WATER	POD	X		0
Water Permit	75-7669	N	WALKER, JAMES D; WALKER, SHIRLEY	GROUND WATER	POD	X		0

Place of Use Comparison								
Water Right	75-10714	N	HODGES, CLYDE; HODGES, DOROTHY R	GROUND WATER	POU	X		0
Water Right	75-10715	N	HODGES, CLYDE; HODGES, DOROTHY R	GROUND WATER	POU	X		0
Adjudication Claim	75-10892		SMITH, CARLA K; SMITH, HERBERT D	FOURTH OF JULY CREEK	POU			10
Water Right	75-14730	Y	DISHONG, ERNEST; DISHONG, JEANNE	GROUND WATER	POU	1.7		1.7
Water Permit	75-7669	N	WALKER, JAMES D; WALKER, SHIRLEY	GROUND WATER	POU	9.2		9.2

State of Idaho
Department of Water Resources
Water Right License
75-14730

This map depicts the STOCKWATER and IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

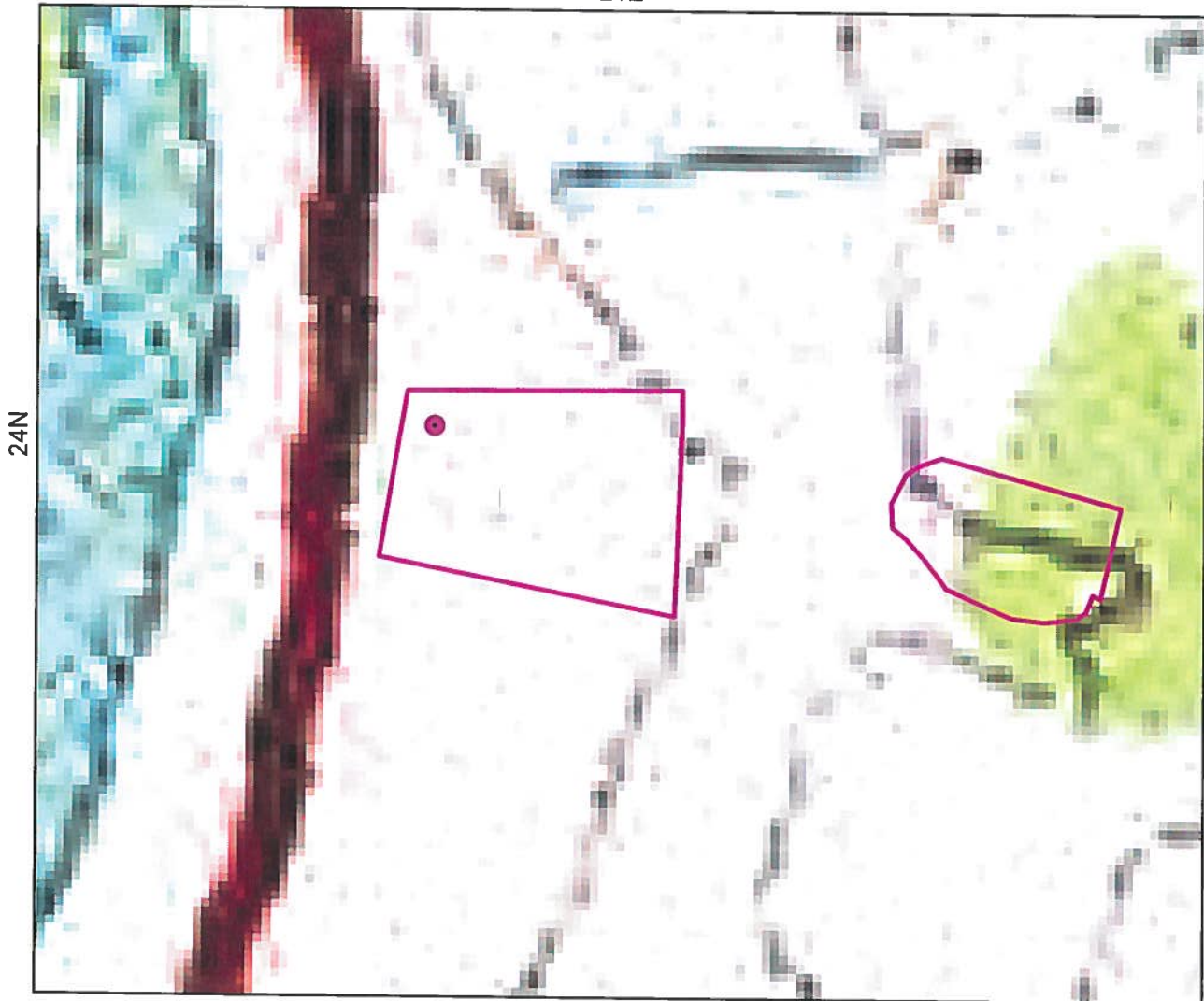


0 100 200 300 400 500 Feet

State of Idaho
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21E



- Point of Diversion
- Place Of Use Boundary

0 100 200 300 400 500 Feet

State of Idaho
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75-14730

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



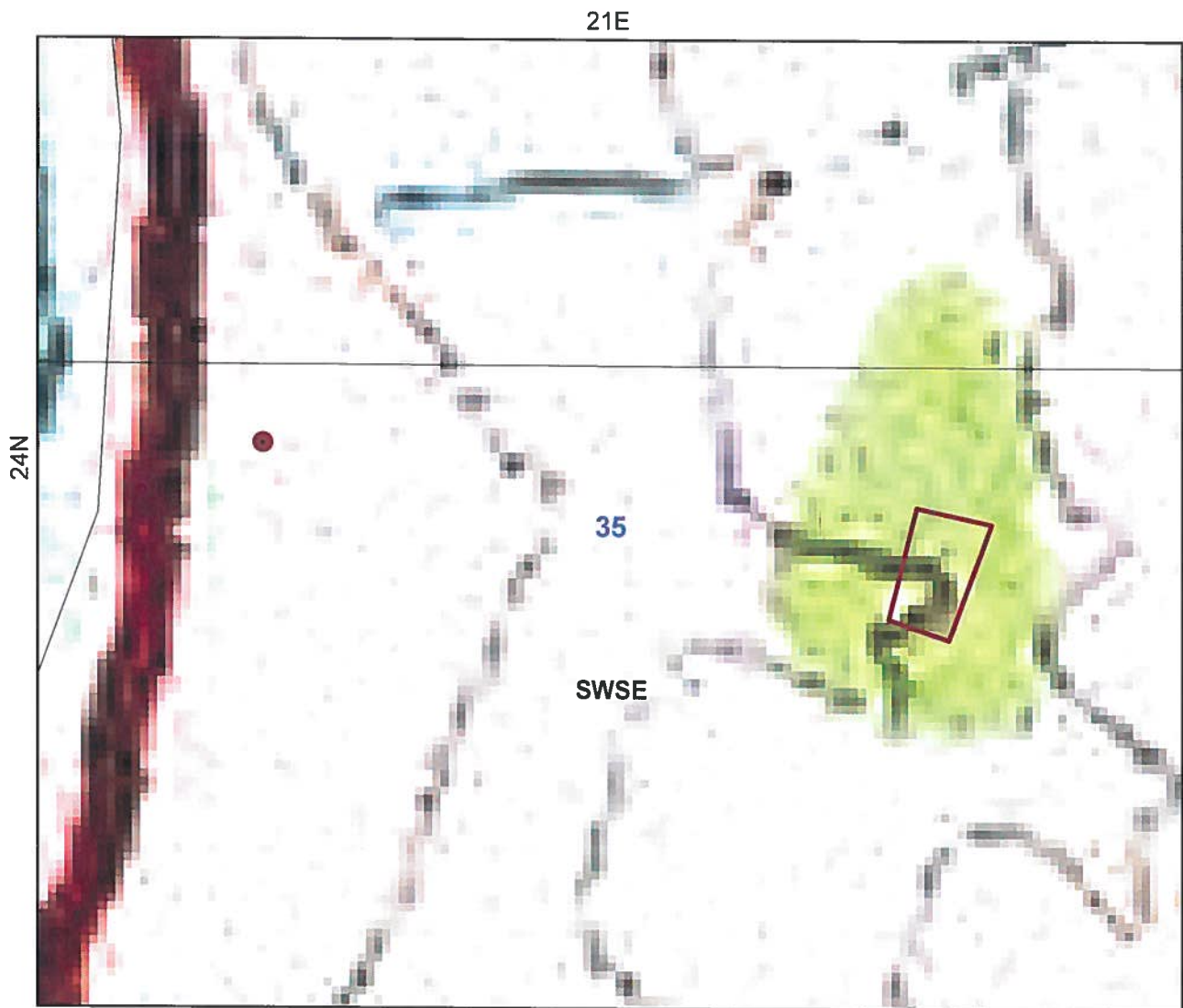
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters



0 100 200 300 400 500 Feet

State of Idaho
Department of Water Resources
Water Right License
75-14730

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



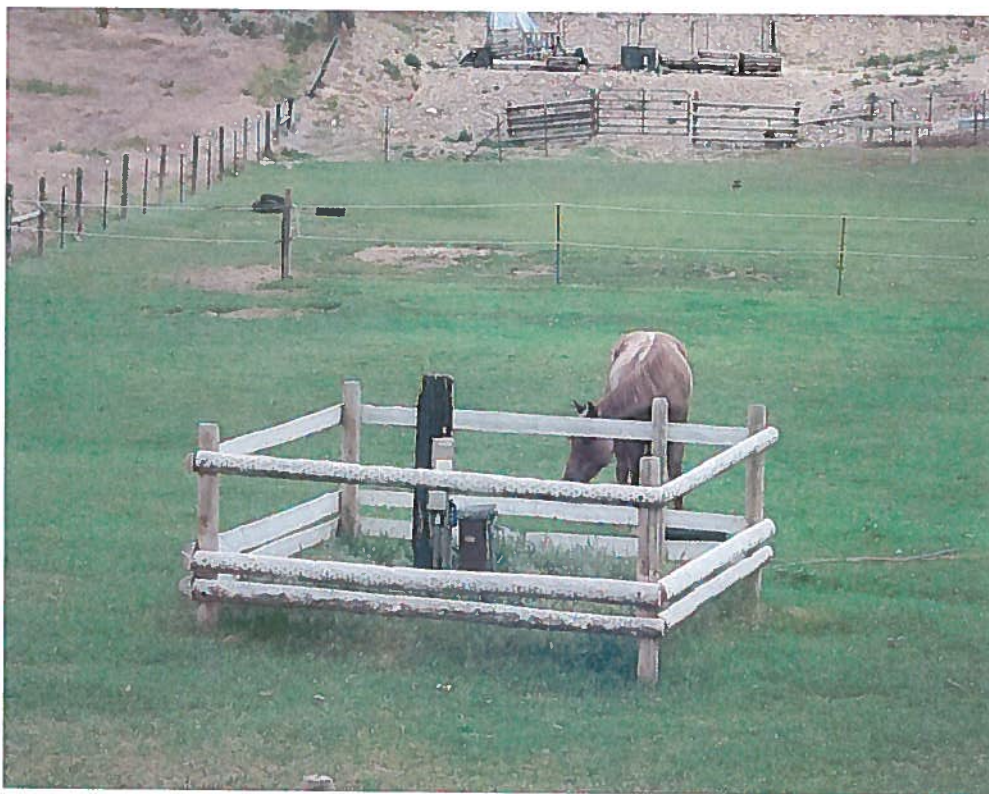
- Point of Diversion
- ▭ Place Of Use Boundary
- ▭ Townships
- ▭ PLS Sections
- ▭ Quarter Quarters



0 100 200 300 400 500 Feet

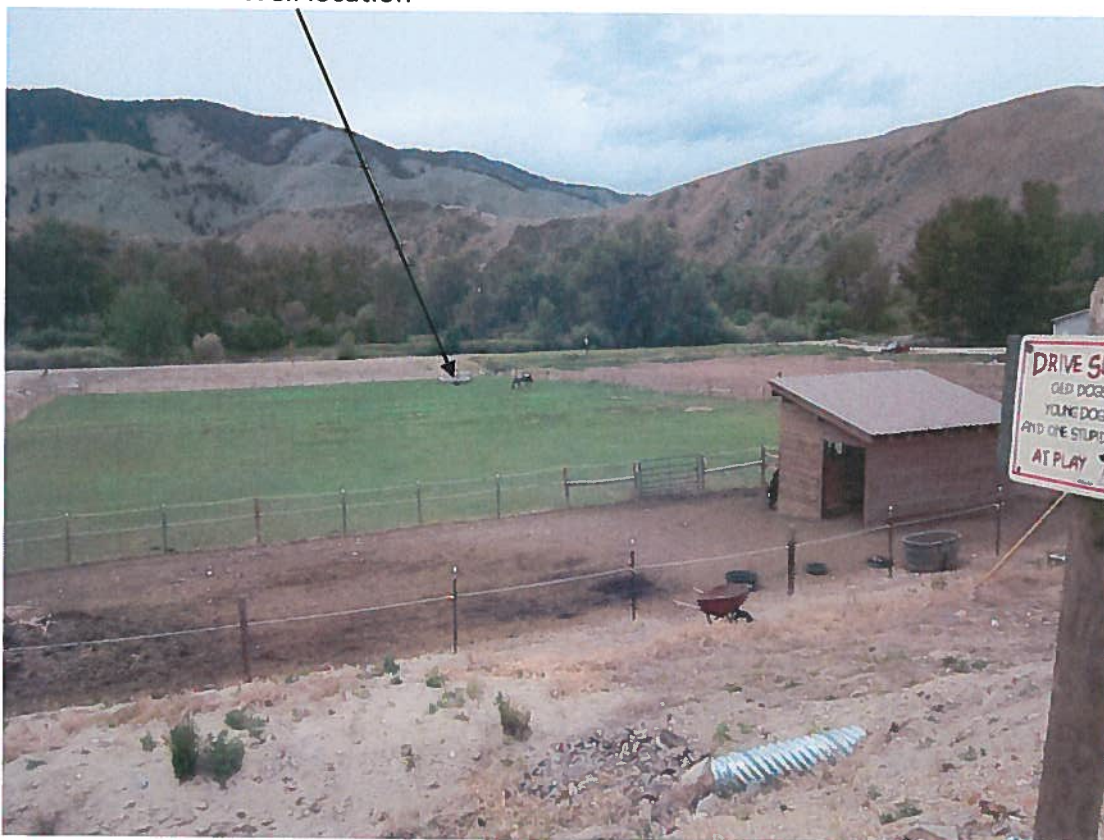
PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, June 25, 2013
FILE NUMBER 75-14730

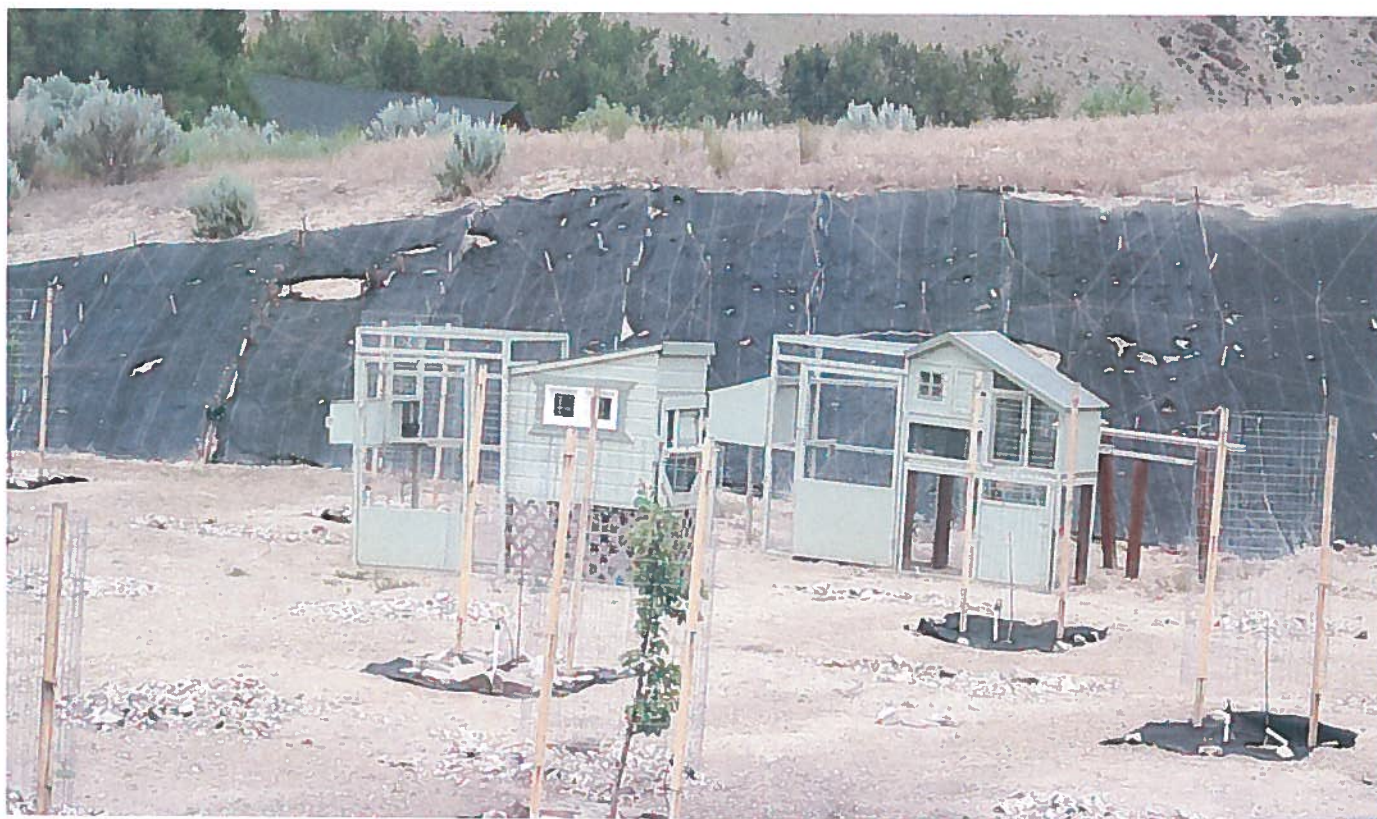
Well location to the west
of the house



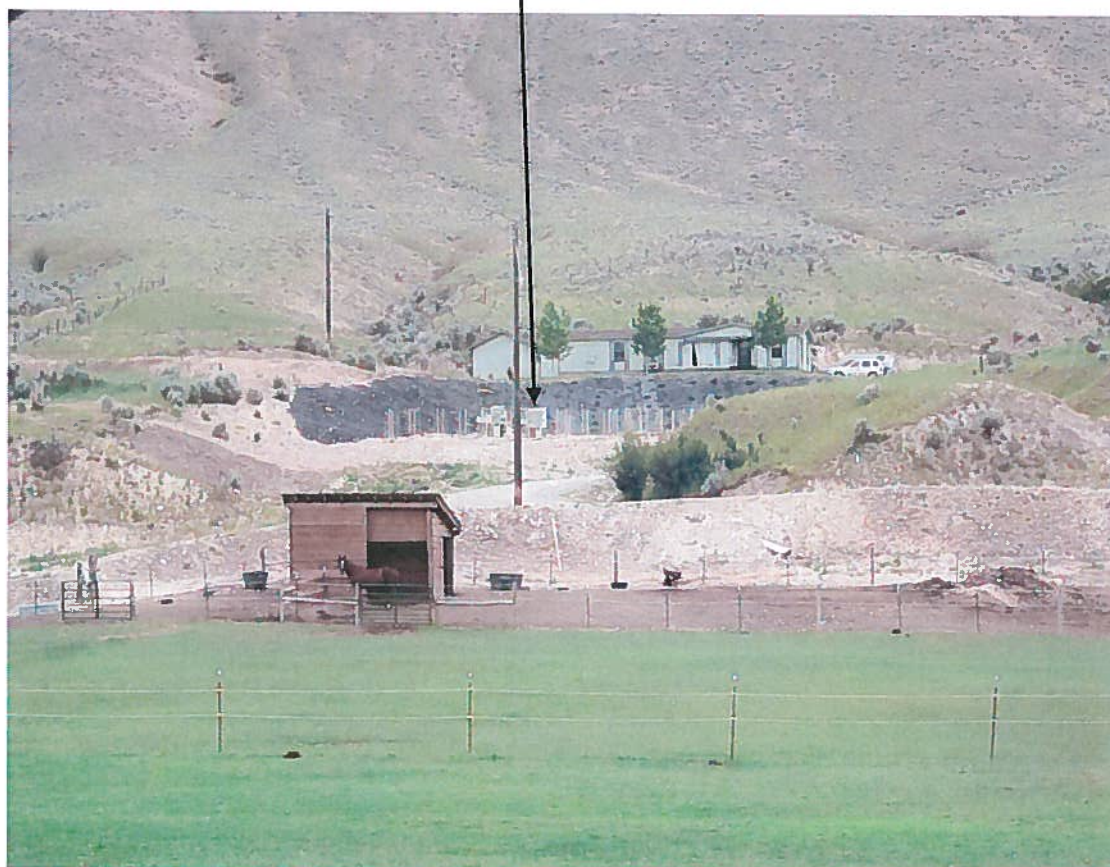
Well location

Lower field looking
west from upper
driveway





Orchard



Looking east

The well is just out of the picture to the lower left