

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11786

Exam Date: 6/21/2012

1. Current Owner: DOROTHY GARRETT
23935 HOMEDALE RD
WILDER ID 83676
(208)337-3133

GARRETT RANCHES INC
23935 HOMEDALE RD
WILDER ID 83676
(208)337-3133

FRANK GARRETT
23935 HOMEDALE RD
WILDER ID 83676
(208)337-3133
2. Accompanied by: Gary Garrett
Phone No: 208-337-3133
Address: same
Relationship to Permit Holder: Officer of Garrett Ranches

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Boise Project Board of Control
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L7 SW1/4SW1/4 Sec. 6, Twp 03N, Rge 04W, B.M.
CANYON County

Method of Determination: Field visit and Arc Map

2. 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	
03N	04W	6											32.0						32.0
													L 7						
03N	04W	7						2.0											2.0
								L 1											

Total Acres: 34

Method of Determination: Field visit and ArcMap

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4. <u>Well or Diversion</u>	<u>Pump Serial No. or Discharge</u>			
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>
<u>Size</u>				
	75		6 INCH	

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Cipolletti	weir				2 foot	

2. Measurements:

None Made

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Dynamic level estimated as approximately half way between the static level of 178 ft and the depth of the pump 380 ft. This is likely lower than actual but does show that the system can produce in excess of the recommended rate.

**EXPECTED FLOWS FOR
PIPE DIAMETERS**

06 in Dia = 0.98 cfs

$$\frac{(75) \text{ Hp} * 8.8 * 0.7}{(10) \text{ PSI} * 2.31 + 278 \text{ ft}} = 1.53 \text{ cfs}$$

Permit Rate (irr) = 2.22 cfs

Proof Pd (\$150.00) (max cfs) = 3.00 cfs

Found POU acres 34 * 0.02 cfs/ac = 0.68 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

V= (Acres Irrigated) x (Irrigation Requirement) =	34 ac 4.5 af	= 153 afa Recommendation
I.R.		
V= [Div Rate (cfs)] x (Days in Irr season) x 1.9835 =	0.68 cfs * 260 days * 1.9835 =	350.7 afa
D.R.		

2. Volume Calculations for Other Uses: None

G. NARRATIVE/REMARKS/COMMENTS

The system is a 75 Hp pump with open discharge into the canal system farm ditches for a variety of application methods. The pipe discharges into the ditch system downstream of the 2 ft canal company weir used to measure canal water being delivered to the irrigation system. With minor modifications the well could be discharged above the weir to obtain a measurement. A portion of the POU is irrigated via wheel lines or permanent buried sprinkler lines within the orchard. The discharge point from the well is approximately 140 ft northeast of the well. The discharge point is the highest point associated with the recommended POU. The canal system runs north and south from that point. Where the ditch reaches the Homedale Rd a pump was installed to pump the water west along the Homedale Rd to eventually irrigate the acres in Gvt Lot 1 in Sec 7

The permit was issued for 110.8 acres in four different quarter/quarters. A majority of the permitted POU was sold off and the well water is no longer used on those parcels. In Gvt Lot 1 Sec 7 I found 1.4 acres using ArcMap but rounded it to 2 acres as the overall POU is greater than 10 acres. The SWSW Sec 6 is also a Gvt Lot and I found 32 irrigated acres within that tract.

There are no other rights associated with the well but the POU is also irrigated with canal shares. The POD was found in Sec 6 SWSW (Gvt Lt 7) rather than as permitted (Sec 6 NWSW (Gvt Lt 6)). There never was a well developed at the permitted POU. A amendment will be necessary to correct the location.

The permit was issued with a beginning season of use date of 3-15. I am recommending the current standard season of use of 3-1.

The permit was conditioned with the standard "M" well conditions. I am recommending that they be modified to reflect 01M conditions based upon direction from Steve Lester.

It is not clear but it appears that the water bearing zones being utilized is between 150 ft and 450 ft. The well log indicates that that reach was gravel packed. The permit identified the water bearing zone as from 280 ft to 420 ft. As this well is approximately 18 miles west of the Boise Front restricted area.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.680 CFS	153.00 AF
	<u>Totals:</u>	~~0.680~~ ^{0.68 KKC} CFS	153.00 AF

2. Recommended Amendments

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

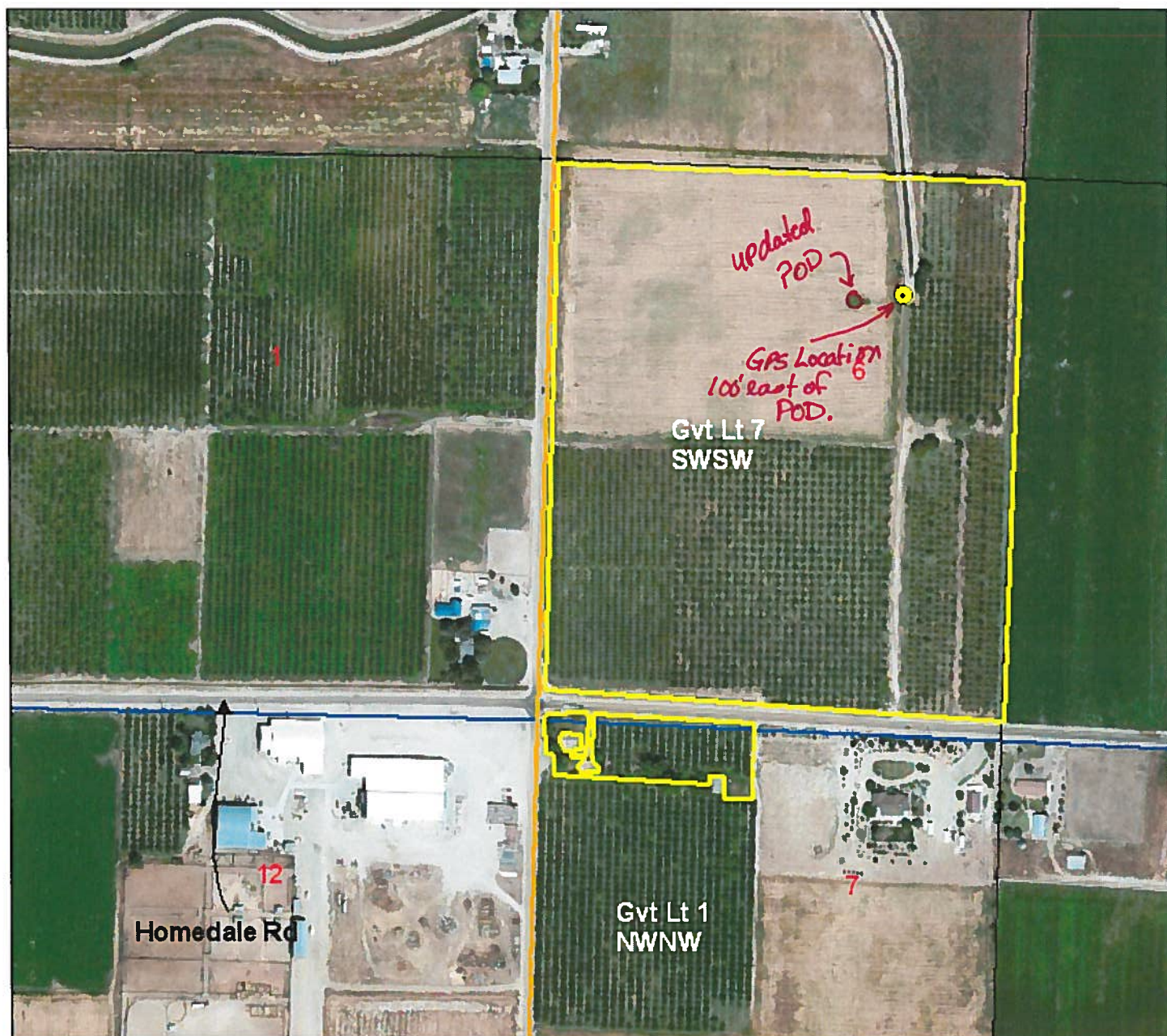
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K Christensen Date 7-10-12

Reviewer _____ Date _____

Idaho Department of Water Resources
63-11786 LICENSING PLACE OF USE



0 660 1,320
Feet

★ LOCATION IN BASIN

PLACE OF USE
TWP 03N, RNG 4W Sec 6 & 7
Data Entry on July 10, 2012



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN

Basin 63



6-28-2012

63-11788 Gary Garrett called

Well #1 = 100 HP (where Elect. panel fell down
well driller report 142' static
351' pumping level
585 depth.
pumped 812 GPM

63-11787 Garrett Pack 40 HP

~~200' static~~
188' ^{static} ~~pump level~~ no pump test info
469' deep

63-11786 Frank Garrett 75 HP

original in
file

hillside sprinkler
178' static
380' pump level
450' deep
pumped 700 GPM.

ORIGINAL

Permit # 63-11786

Exam date 6-21-12

Agent KRC

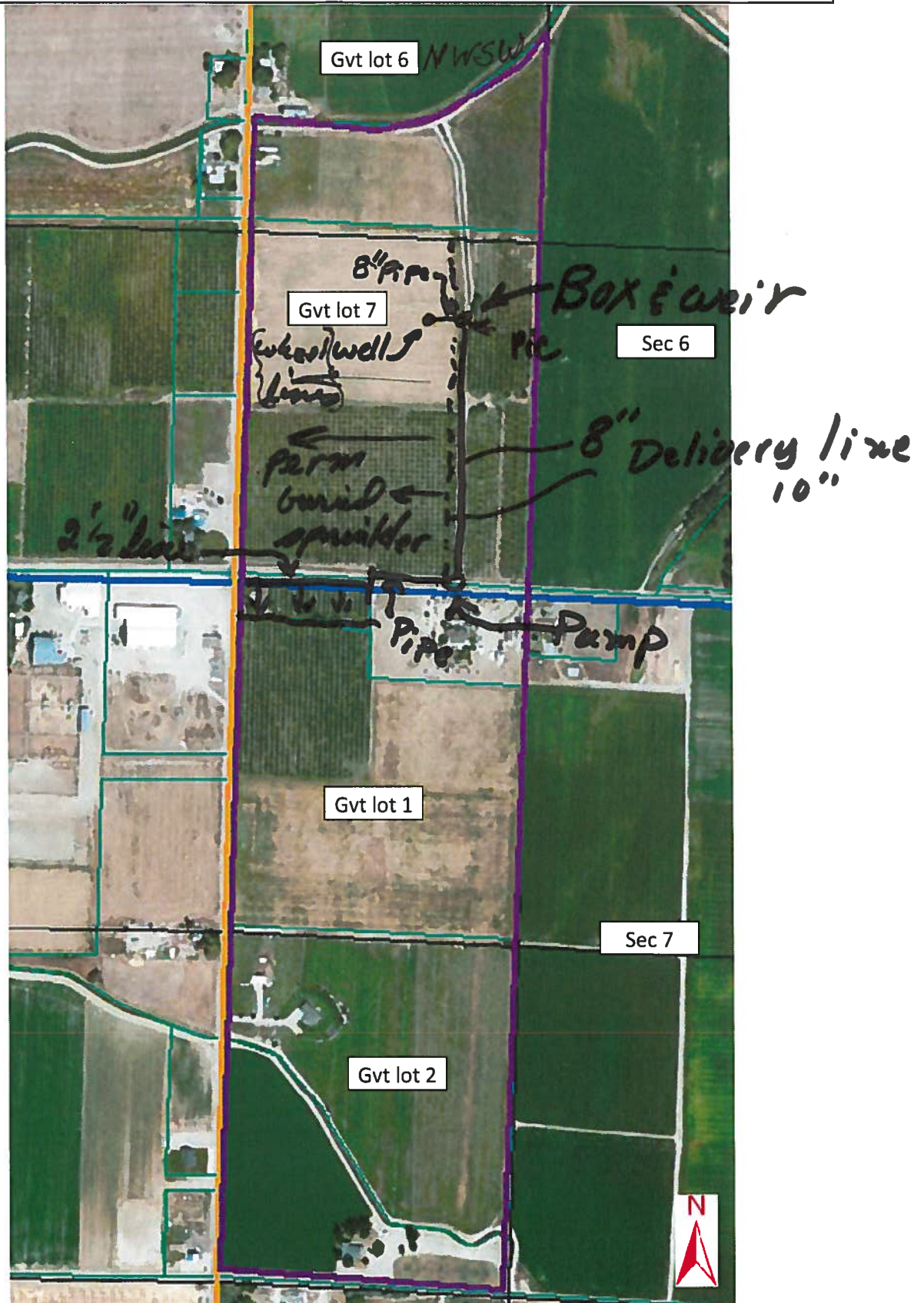
FIELD EXAM MAP

Aerial photo date 2011

Twp Rng Sec QQ

3N 04W 06 & 7

POD in Sec 6, Lot 6



11786 Eham notes June 21, 2012
Kelly H Christensen

~ 1 pic looking west @ GPS Point offset by
≈ 70'. Sprinkler water hitting well. GPS #4

~ 2 pics look SW @ well discharge into pipe ups
(buried)

Well dis charge could be plumbed to go over
weir (2' cip.) This is a high point on the property
~ 1 pic look So going down hill.

well 50 or 60 HP Per 6-28-12 phone conversation
8" line discharge HP = 75

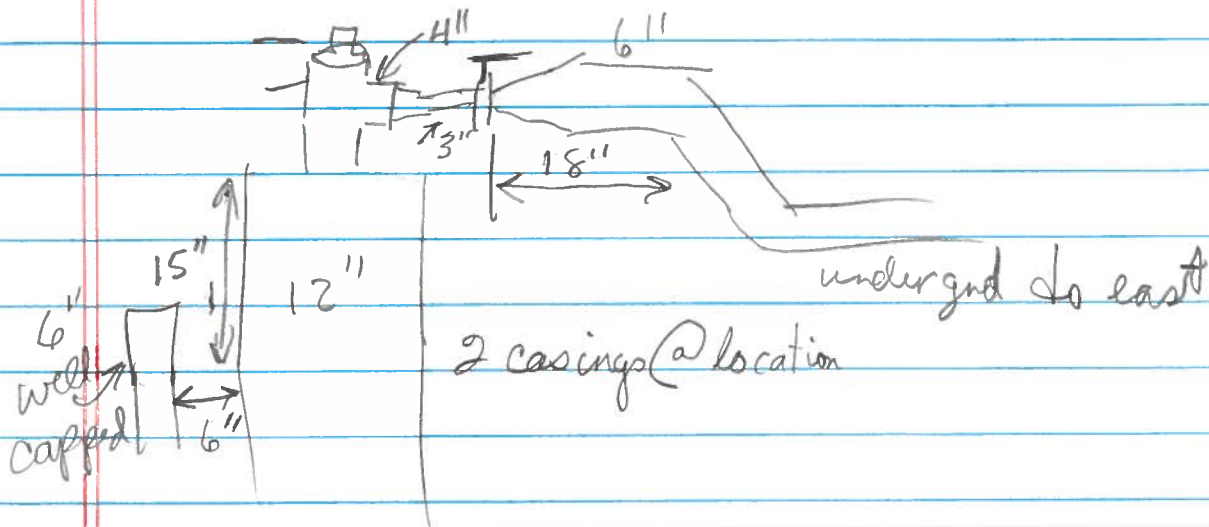
#2

11787

1 pic look east @ pressure system
well line comes in from N under Road @ Tin lid
canal & pump in cement system well ties in dn stream
from

1 pic look east

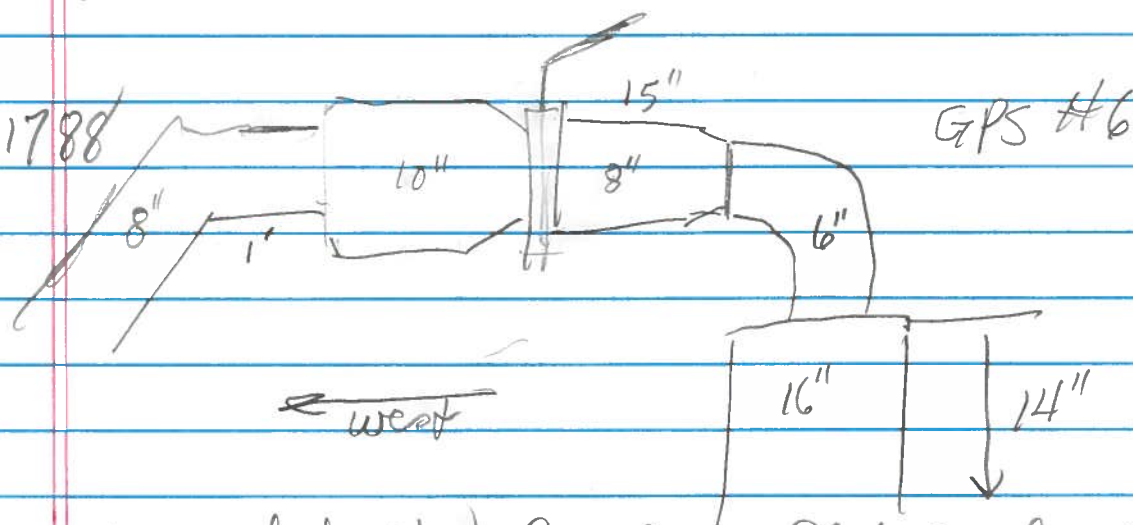
GPS #5



1 pic looking So Where Graw pressure line crosses canal. Mainline is 6" plastic inside the steel jacket.

#3

63-11788



1 pic look NW of well. Elect Panel pole Broke
Laying on gnd. Sump happened
last 4 days

1 pic look SW @ well & dist. system so. of canal
near trees.

1 pic look SSW @ mainline crossing canal to dist
system

Thurs June 21

10:00 Gary Garrett,

office Homedale & Allendale Ads.

20X30 office

cell # 208-250-4279

garrett@sanchez@heritage.wifi.com.

24039 Homedale Rd -

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FIELD EXAM Photos

Agent KKC

Photo 1

You are looking west in this photo at the GPS location in relation to the well. Both wheel lines were sprinkling water on the pump therefore I did not want to get the GPs unit wet. The well is approximately 100 ft west of the measurement. Well not being used right now.

Well GPS location



Photo 2

You are looking south in this photo. The POU for this permit is on either side of the farm road shown. Two wheel lines were operating about 20 ft apart on either side of the well.

Farm road Homedale Rd wheel lines



Photo set 2

You are looking southwest in this photo set. This shows the discharge point of the well into the canal/farm ditch system. The discharge could be plumbed to dump upstream of the weir but is below right now.

Office complex

Well

This is the highest elevation for this property.

