

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11788

Exam Date: 6/21/2012

1. Current Owner: GARRETT RANCHES INC
23935 HOMEDALE RD
WILDER ID 83676
(208)337-3133
2. Accompanied by: Gary Garrett
Phone No: Same
Address:
Relationship to Permit Holder: owner

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW1/4SW1/4

Sec. 1, Twp 03N, Rge 05W, B.M. CANYON County

Method of Determination: Field exam and GPS

(43.623126, -116.891382)

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	05W	1							30.0	3.0	36.0	31.0	29.0			18.0			147.0
03N	05W	2	6.0		24.0														30.0
			L 1																

Total Acres: 177

Method of Determination: Field exam and Arc Map calculations

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. **Well or Diversion** **Pump Serial No. or Discharge** **ID No.*** **Motor Make** **Hp** **Motor Serial No.** **Pump Make**

UNK (Submersible) 6" Discharge unk 100

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>
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2. Measurements: Theoretical

The calculations are based upon the horsepower provided by Greg Garrett during a 6-29-2012 phone conversation. The system is open discharge into a ditch system. The pumping level is partly based upon the well log that indicates a static level of 142 ft and a review of other systems in the area. It appears that the general drawdown is approximately 100 ft therefore I utilized 142' + 100' = 242' as a dynamic pumping level.

$$\frac{(100) \text{ Hp} * 8.8 * 0.7}{(10) \text{ PSI} * 2.31 + 242 \text{ ft}} = 2.32 \text{ cfs}$$

$$\text{Permit Rate (irr)} = 4.00 \text{ cfs}$$

$$\text{Proof Pd } (\$175.00) \text{ (max cfs)} = 4.00 \text{ cfs}$$

$$\text{Found POU acres } 1.77 * 0.02 \text{ cfs/ac} = 3.54 \text{ cfs}$$

$$\text{Measured rate (theoretical)} = 2.32 \text{ cfs}$$

Recommendation in Red

E. FLOW CALCULATIONS

Measured Method:

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{ir} = 177 \text{ ac} * 4.50 \text{ af} = 796.5 \text{ afa Recommendation}$$

$$V_{D.R.} = [\text{Div Rate (cfs)}] * (\text{Days in Irr season}) * 1.9835 =$$

$$2.32 \text{ CFS} * 260 \text{ DAYS} * 1.9835 = 1196.45 \text{ afa}$$

2. Volume Calculations for Other Uses: N/A**G. NARRATIVE/REMARKS/COMMENTS**

The system is a well with a 100 Hp pump delivering water to the south (flumed across the Deer Flat Low line Canal) into the canal water delivery system as open discharge and then it can be pumped into various pipe lines for mainly handline sprinkler irrigation. The well water can also be pumped north into a farm ditch that normally carries canal water. Off of that ditch is a pump system and pipeline that carries water east and west for various delivery systems. There is a small ¼ center pivot in the northwest corner of the POU. Coming off of the east line are several taps that can deliver water to sprinkler systems to the fields to the south primarily utilizing gravity pressure for those systems. Various varieties of fruit trees are the primary crops for this property. The permitted POU was for 200 acres. I found 177 acres all within the permitted POU. The majority of the difference can be found in the center of Sec 1 W1/2SW1/4. That ground is a natural drainage and too rough to farm. I found one tract in Sec 1 SENW and another in Sec 2 NENE that were less than 10 acres in size. Based upon current guidelines I rounded both tracts up to eliminate tenths of an acre.

The POD was permitted in Sec 2 SENE but was developed in Sec 1 NWSW. Well log identifies the permitted legal description. According to Mr Garrett the current well is the original well. He did not recall a well in the permitted legal description. An amendment is necessary to correct the POD. Assuming that the well log incorrectly identified the location then the developed water bearing zone was between 315 ft and 572 ft which corresponds with the permit. This right is roughly 20 miles downstream from the ground water restricted area.

This permit was issued with a 3-15 beginning season of use. I am recommending the current standard of 3-01.

There is no other right associated with the well however the POU is primarily irrigated with Boise Project Board of Control water.

This is an M well with associated remarks regarding measurement and reporting. I am recommending that they be replaced with 01M.

Have conditions of permit approval been met? ____ Yes ____ X 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	2.320 CFS	796.50 AF
	<u>Totals:</u>	2.320 CFS	796.50 AF

2. Recommended Amendments

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

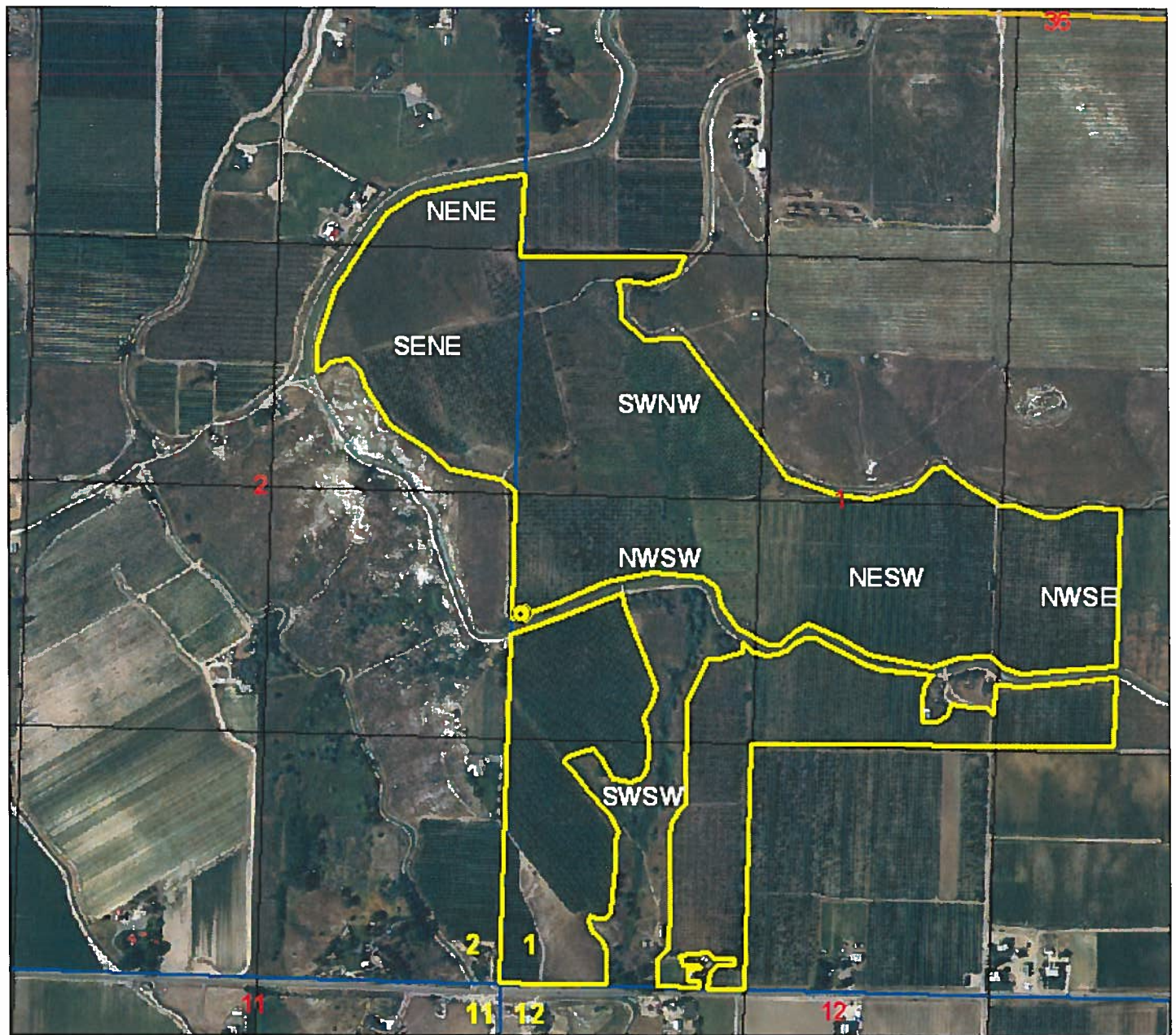
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date Sept. 14, 2010

Reviewer _____ Date _____

63-11788 LICENSING PLACE OF USE



0 660 1,320 2,640
Feet

★ LOCATION IN BASIN

PLACE OF USE
TWP 03N, RNG 05W Sec 1 & 2
Data Entry on September 14, 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

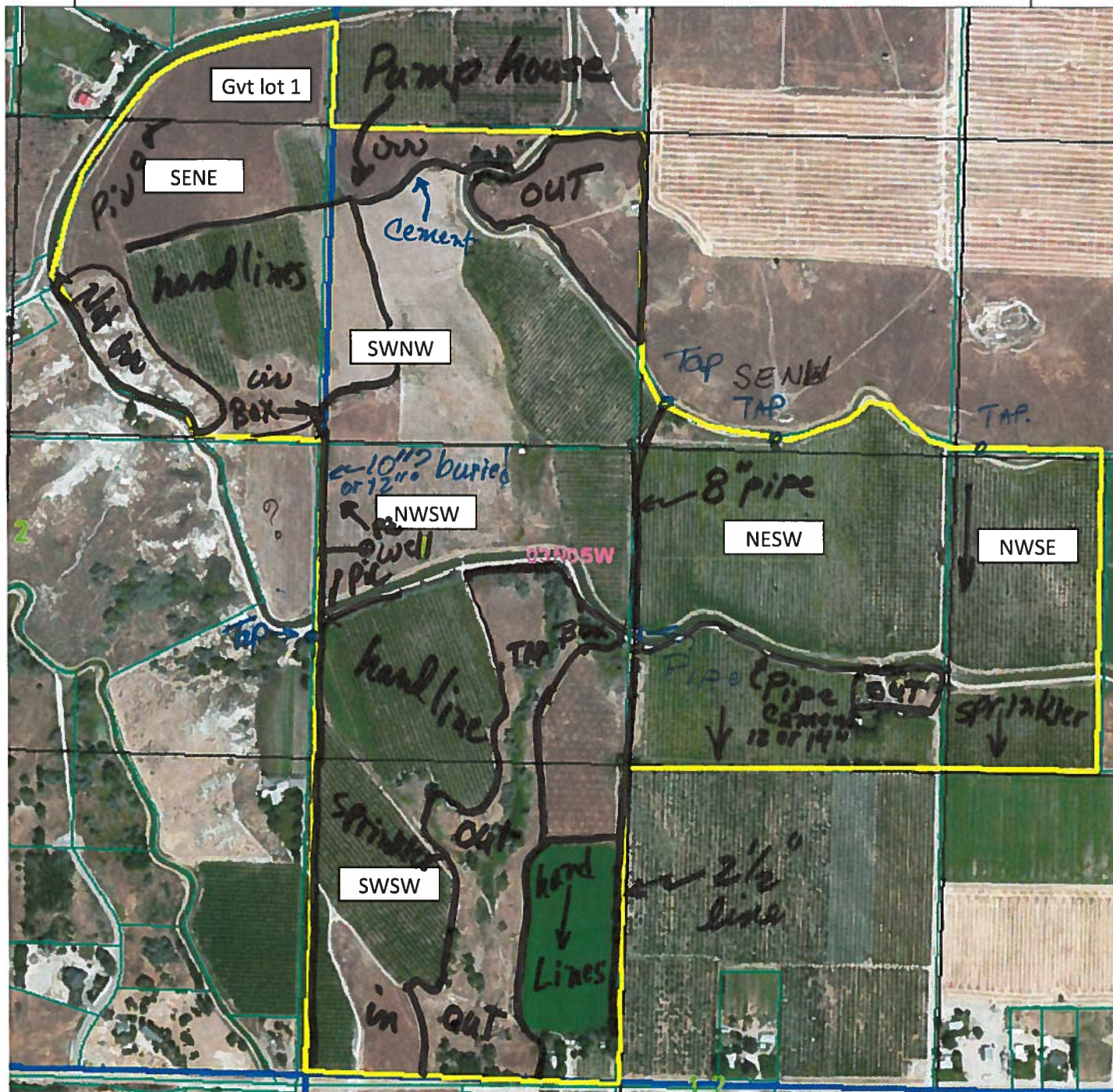


Basin 63



Agent KKC

POD in Sec 2, SENE



11786

Exam Notes June 21, 2012
Kelly K. Christensen

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

~ 2 pics look SW @ well discharge into pipe's up
(buried)

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

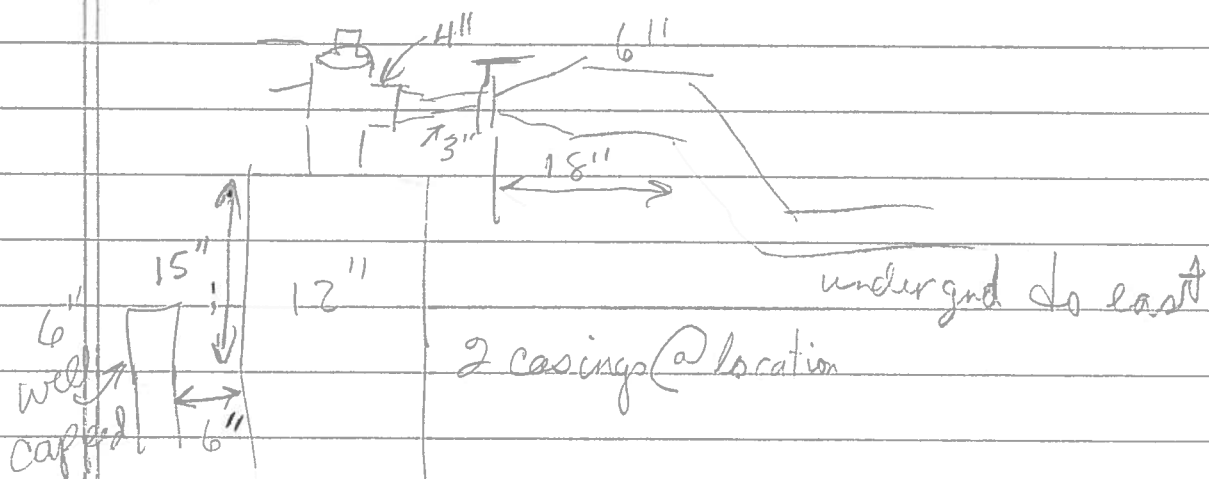
well 50 or 60 HP
8" line discharge

11787

1 pic look east @ pressure system
well line comes in from N under Road @ Tinned
Canal & pump in cement system well ties in down stream
from

1 Pic look east

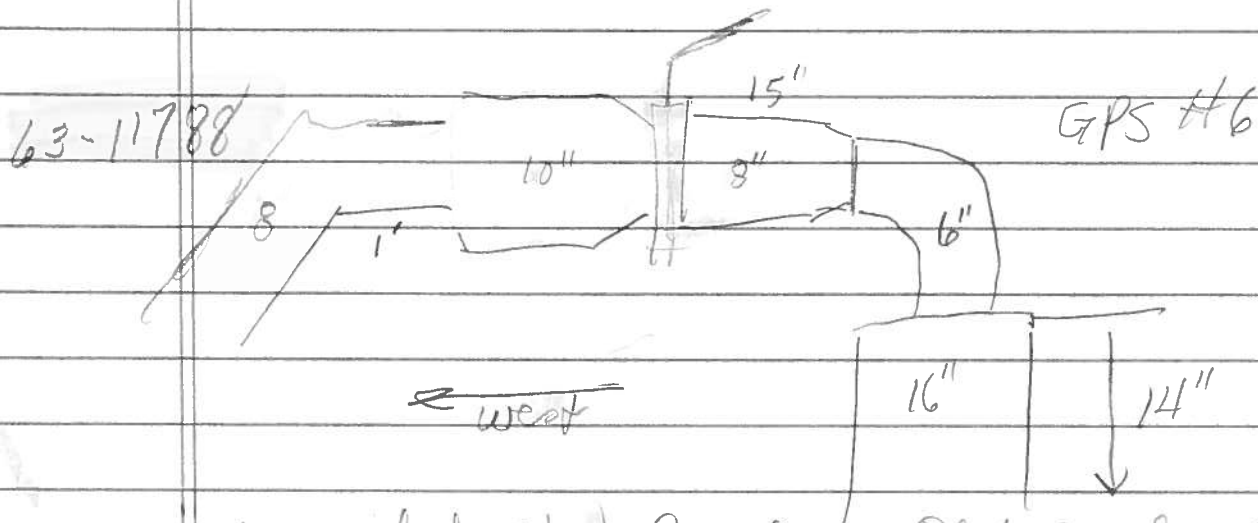
GPS #5



Pg 2

Kelly K. Christensen

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



1 pic look N. I D well. Elect Panel pole Brooke
Laying on ground. Says happened
last 4 days.

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

pic look SSW @ mainline crossing canal to dist system

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 int.
469' deep

63-11786 Frank Garrett 75 HP
original in file

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

COPY

**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

1. IDENTIFICATION # _____ (Tag #, etc.)

OTHER APPLICABLE # 63-11788 (Water right #, etc.)

2. OWNER Garrett Ranches Inc Phone 208-337-3183

Address 23935 Homedale Rd. City Wilder

State ID Zip 83676 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. _____ Long. _____

Twp 3N Rge 5W Sec 1 $\frac{1}{4}$ NW $\frac{1}{4}$ SW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

well log & permit show wrong legal description

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES _____

INSPECTED BY Kelly K. Christensen DATE June 21, 2012

Permit # 63-11788
Exam date 6-21-2012

FIELD EXAM Photos

Agent KKC

Photo 1

You are looking northeast in this photo across the POD at a portion of the POU. Gary indicated that the pole supporting the electrical control panel was standing 3 or 4 days prior to the exam date. The post had rotted off and just fell down. where the mainline crosses the Deer Flat Low Line Canal.



Photo 2

You are looking southwest in this photo across the POD at a portion of the POU. The building in the background is outside of the permitted POU.

Same trees as shown in photo 3.



Photo 3

You are looking south southwest in this photo where the mainline crosses the Deer Flat Low Line Canal. This pipeline carries water to the ground south of the Low Line Canal via various pipelines and distribution boxes.

Same trees as shown in photo 2.

