

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 95-12367

Exam Date: 8/13/2015

1. Current Owner: GRAND VIEW ACRES LLC  
PO BOX 36  
WORLEY ID 83876  
(208) 686-1636

2. Accompanied by: Willis Nigh  
Relationship to Permit Holder: Owner

**3. SOURCE**GROUND WATER  
UNNAMED STREAM**TRIBUTARY**

LAKE CREEK

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None  
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 SE1/4SE1/4 Sec. 16, Twp 48N, Rge 05W, B.M. KOOTENAI County  
UNNAMED STREAM SE1/4SE1/4 Sec. 16, Twp 48N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 29.889, 116° 58.906 (A0015477)

2.

**PLACE OF USE:** FIRE PROTECTION STORAGE

| Twp Rge Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| 48N 05W 16  | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | X      |

**PLACE OF USE:** RECREATION STORAGE

| Twp Rge Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| 48N 05W 16  | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | X      |

**PLACE OF USE:** AESTHETIC STORAGE

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 48N | 05W | 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | X      |

**PLACE OF USE:** IRRIGATION

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 48N | 05W | 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | 1.0    |

Total Acres: 1

**PLACE OF USE:** IRRIGATION STORAGE

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 48N | 05W | 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | X      |

**PLACE OF USE:** IRRIGATION FROM STORAGE

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 48N | 05W | 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | 1.0    |

Total Acres: 1

**PLACE OF USE:** WILDLIFE STORAGE

| Twp | Rge | Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 48N | 05W | 16  | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | X      |

**DIVERSION TO STORAGE same as WILDLIFE STORAGE**

## Method of Determination:

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><br><u>ID No.*</u> | <u>Motor Make</u> | <u>Hp</u> | <u>Motor Serial No.</u> | <u>Pump Make</u> | <u>Pump Serial No. or Discharge</u><br><u>Size</u> |
|--------------------------------------------|-------------------|-----------|-------------------------|------------------|----------------------------------------------------|
| D0061133                                   | FRANKLIN          | 1         |                         |                  |                                                    |

\*Code to correspond with No. on map and aerial photo

## D. FLOW MEASUREMENTS

1.

| <u>Measurement</u><br><u>Equipment</u> | <u>Type</u> | <u>Make</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|----------------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
|----------------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|

N/A

2. Measurements:

## E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE NO PROPER SPACE TO ATTACH FLOW METER. THEORETICAL PUMPING EQUATION ESTIMATES FLOW  $(1 \text{ HP})(8.8)(0.8) / 205 + (40 \times 2.3087) = 0.02$  CFS

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \text{ AC} \times 3 \text{ AF} = 3 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 246 \times 1.9835 = 9.8 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3 \text{ AF}$$

## 2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET

**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED POND SMALLER THAN WHAT WAS PERMITTED FOR. SEE ATTACHED POND ANALYSIS SHEET FOR NEW SIZE DIMENSIONS AND STORAGE AMOUNTS. APPLICANT HAD WELL TO DIVERT WATER WITH 1 HP PUMP TO FILL IN POND WHEN NEEDED. IRRIGATION WAS OCCURRING AROUND THE POND WITH SMALL PUMP PULLING WATER FROM POND. APPLICANT WAS HOPING TO GROW GRASSES AND FEED THAT DEER LIKED.

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> |
|-------------------------|----------------------|-----------------------|----------------------|
| FIRE PROTECTION STORAGE | 01/01 to 12/31       |                       | 13.00 AF             |
| RECREATION STORAGE      | 01/01 to 12/31       |                       | 13.00 AF             |
| AESTHETIC STORAGE       | 01/01 to 12/31       |                       | 13.00 AF             |
| IRRIGATION              | 03/15 to 11/15       | 0.020 CFS             | 3.00 AF              |
| IRRIGATION STORAGE      | 01/01 to 12/31       |                       | 16.00 AF             |
| IRRIGATION FROM STORAGE | 03/15 to 11/15       |                       | 3.00 AF              |
| DIVERSION TO STORAGE    | 01/01 to 12/31       | 0.020 CFS             |                      |
| WILDLIFE STORAGE        | 01/01 to 12/31       |                       | 13.00 AF             |
| <u>Totals:</u>          |                      | 0.020 CFS             | 16.00 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

Adam Funderburk

Date

12-17-2015

Reviewer

Keith E. Franklin

Date

12-29-2015

WATER RIGHT 95-12367  
POND ANALYSIS SHEET

POND SIZE: 1 AC X 10 FT DEEP = 10.0 AF

EVAPORATION: 2,715 GPD X 365 DAYS / 325,850 GAL/AF = 3.0 AF

SEEPAGE: NO SEEPAGE, INSTREAM

IRRIGATION: 1 ACRE X 3 AF = 3.0 AF

|         |                    |                |         |
|---------|--------------------|----------------|---------|
| 13.0 AF | RECREATION STORAGE | A) POND SIZE   | 10.0 AF |
|         |                    | B) EVAPORATION | 3.0 AF  |
|         |                    | C) SEEPAGE     | 0.0 AF  |
|         | TOTAL              |                | 13.0 AF |

|         |                  |                |         |
|---------|------------------|----------------|---------|
| 13.0 AF | WILDLIFE STORAGE | A) POND SIZE   | 10.0 AF |
|         |                  | B) EVAPORATION | 3.0 AF  |
|         |                  | C) SEEPAGE     | 0.0 AF  |
|         | TOTAL            |                | 13.0 AF |

|         |                         |                |         |
|---------|-------------------------|----------------|---------|
| 13.0 AF | FIRE PROTECTION STORAGE | A) POND SIZE   | 10.0 AF |
|         |                         | B) EVAPORATION | 3.0 AF  |
|         |                         | C) SEEPAGE     | 0.0 AF  |
|         | TOTAL                   |                | 13.0 AF |

|         |                   |                |         |
|---------|-------------------|----------------|---------|
| 13.0 AF | AESTHETIC STORAGE | A) POND SIZE   | 10.0 AF |
|         |                   | B) EVAPORATION | 3.0 AF  |
|         |                   | C) SEEPAGE     | 0.0 AF  |
|         | TOTAL             |                | 13.0 AF |

|         |                    |                |         |
|---------|--------------------|----------------|---------|
| 16.0 AF | IRRIGATION STORAGE | A) POND SIZE   | 10.0 AF |
|         |                    | B) EVAPORATION | 3.0 AF  |
|         |                    | C) SEEPAGE     | 0.0 AF  |
|         |                    | D) IRRIGATION  | 3.0 AF  |
|         | TOTAL              |                | 16.0 AF |

|        |                         |  |  |
|--------|-------------------------|--|--|
| 3.0 AF | IRRIGATION FROM STORAGE |  |  |
|--------|-------------------------|--|--|

# IDAHO DEPARTMENT OF WATER RESOURCES

## WELL DRILLER'S REPORT

### 1. WELL TAG NO. D 0061133

Drilling Permit No. 8681684  
Water right or injection well # \_\_\_\_\_

### 2. OWNER:

Name Willis Nigh  
Address P.O. Box 36  
City Worley State Idaho Zip 83876

### 3. WELL LOCATION:

Twp. 48 North ☒ or South ☐ Rge. 5 East ☐ or West ☒  
Sec. 16 1/4 SE 1/4 SE 1/4

Gov't Lot \_\_\_\_\_ County Kootenai  
Lat. 47 29.872 (Deg. and Decimal minutes)  
Long. 116 58.915 (Deg. and Decimal minutes)  
Address of Well Site 19107 Rew Road  
City Worley

(Give all local roads or names - Distance to Road or Landmark)

Lot \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

### 4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection  
☐ Other \_\_\_\_\_

### 5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well  
☐ Abandonment ☐ Other \_\_\_\_\_

### 6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other \_\_\_\_\_

### 7. SEALING PROCEDURES:

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft) | Placement method/procedure |
|---------------|-----------|---------|----------------------|----------------------------|
| bentonite     | 0         | 38      | 16 bags              | dry granular               |

### 8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                   | Linear                              | Threaded                 | Welded                              |
|--------------------|-----------|---------|----------------|----------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 6"                 | +2        | 93'     | .250           | steel    | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4"                 | 60        | 220     | Sch40          | pvc      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) \_\_\_\_\_

### 9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method saw cut 1/8" x 6"

Manufactured screen ☐ Y ☐ N Type \_\_\_\_\_

Method of installation \_\_\_\_\_

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
| 200       | 220     | 1/8"      | 36        | 4                  | pvc      |                   |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

Packer ☐ Y ☐ N Type \_\_\_\_\_

### 10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft) | Placement method |
|-----------------|-----------|---------|----------------------|------------------|
|-----------------|-----------|---------|----------------------|------------------|

### 11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG) \_\_\_\_\_

### 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 140' Static water level (ft) 87'

Water temp. (°F) \_\_\_\_\_ Bottom hole temp. (°F) \_\_\_\_\_

Describe access port \_\_\_\_\_

### Well test:

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) |
|-----------------|--------------------------|-------------------------|
|                 | 7 GPM                    | 4 hours                 |

### Test method:

| Pump                     | Bailer                   | Air                                 | Flowing artesian         |
|--------------------------|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Water quality test or comments: \_\_\_\_\_

### 13. LITHOLOGIC LOG and/or repairs or abandonment:

| Bore Dia. (in) | From (ft) | To (ft) | Remarks, lithology or description of repairs or abandonment, water temp. | Water |   |
|----------------|-----------|---------|--------------------------------------------------------------------------|-------|---|
|                |           |         |                                                                          | Y     | N |
| 10"            | 0         | 3       | Topsoil, fill material                                                   |       |   |
|                | 3         | 7       | Clay, brown                                                              |       |   |
|                | 7         | 17      | Clay, orange                                                             |       |   |
|                | 17        | 19      | Clay, white, hard                                                        |       |   |
|                | 19        | 23      | Clay, brown                                                              |       |   |
|                | 23        | 27      | Clay, tan                                                                |       |   |
|                | 27        | 35      | Clay, orange                                                             |       |   |
|                | 35        | 38      | Clay, tan then green                                                     |       |   |
| 8"             | 38        | 63      | Clay, green                                                              |       |   |
|                | 63        | 92      | Clay, variations of tan and green                                        |       |   |
| 6"             | 92        | 94      | Basalt, vesicular                                                        |       |   |
|                | 94        | 114     | Basalt, medium                                                           |       |   |
|                | 114       | 134     | Basalt, hard                                                             |       |   |
|                | 134       | 140     | Basalt, broken 7 GPM                                                     | x     |   |
|                | 140       | 180     | Clay, tan                                                                |       |   |
|                | 180       | 201     | Decomposed Granite, w/sand                                               |       |   |
|                | 201       | 220     | Granite, white, black, tan medium                                        |       |   |

RECEIVED  
JUL 16 2013  
IDWR/NORTH

Completed Depth (Measurable): 220'

Date Started: 6/6/2013

Date Completed: 6/8/2013

### 14. DRILLER'S CERTIFICATION:

We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name McCarthy Drilling & Pump Inc Co. No. 586

\*Principal Driller [Signature] Date 6-13-13

\*Driller \_\_\_\_\_ Date \_\_\_\_\_

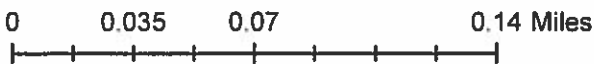
\*Operator II \_\_\_\_\_ Date \_\_\_\_\_

Operator I \_\_\_\_\_ Date \_\_\_\_\_

\*Signature of Selected Driller and date must be recorded

State of Idaho  
Department of Water Resources  
**Water Right License**  
95-12367

05W

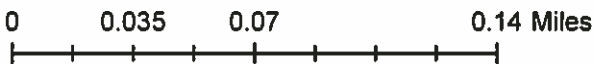


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



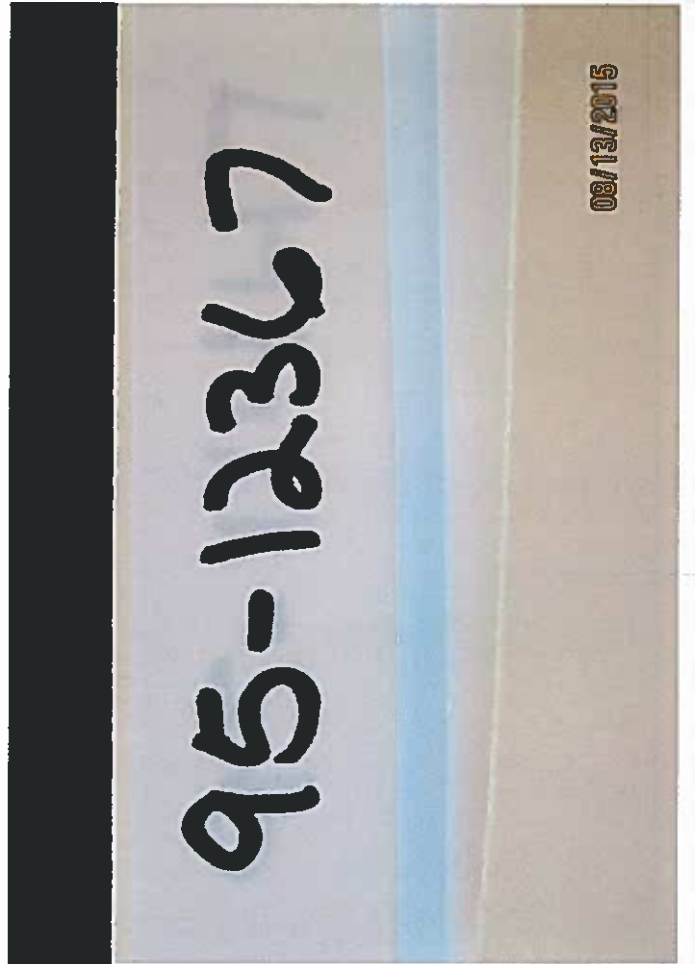
State of Idaho  
Department of Water Resources  
**Water Right License**  
95-12367

05W

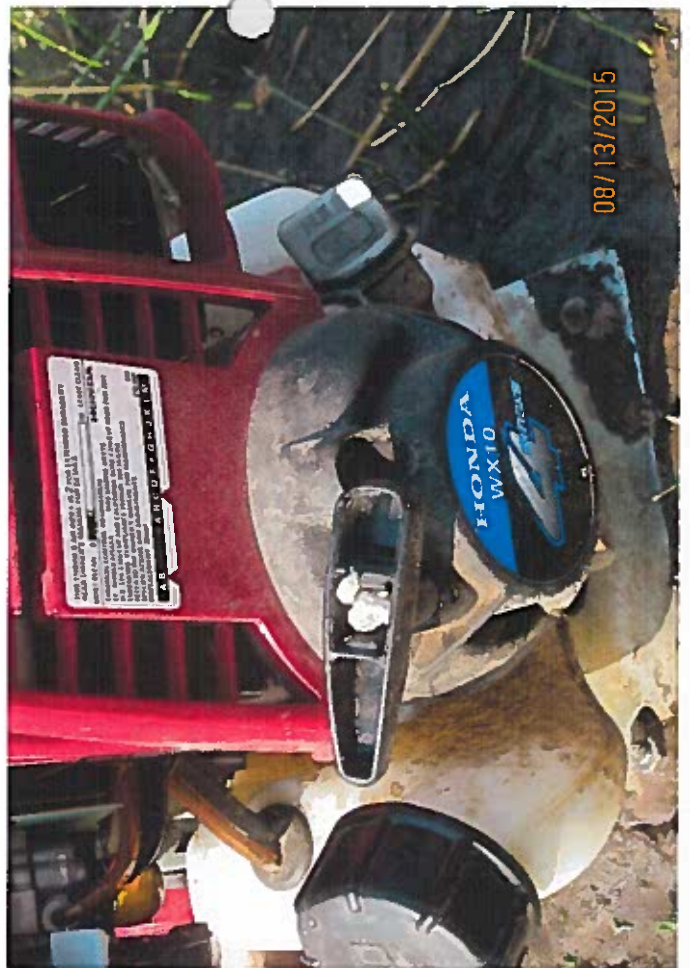


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

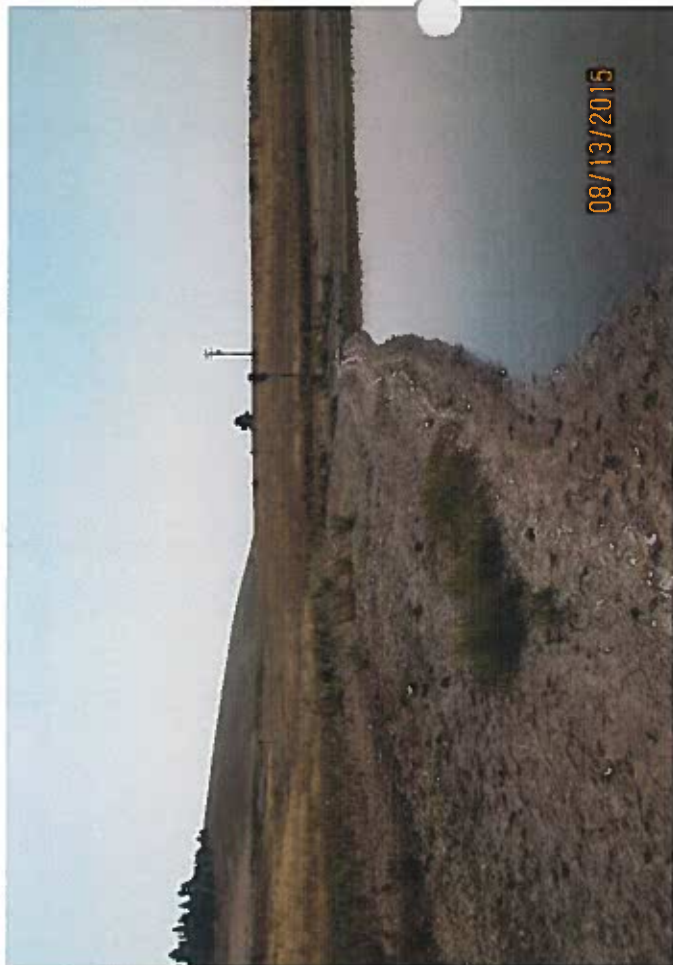




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