

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 95-11592

Exam Date: 10/13/2015

1. Current Owner: DENNIS W HOLLOWAY  
PO BOX 566  
ATHOL ID 83801  
(208)659-9570

And

JAMES THORNE  
PO BOX 666  
ATHOL ID 83801

And

DICK ADAMS  
PO BOX 181  
ATHOL ID 83801

And

JEFF VOIPE  
PO BOX 371  
ATHOL ID 83801

2. Accompanied by: Thorne Residents

3. SOURCE

TRIBUTARY

GROUND WATER

**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 NE1/4NE1/4 Sec. 9, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 57.604, 116° 41.997 (A0015447)

2.

**PLACE OF USE:** DOMESTIC

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| 53N | 03W | 9   | <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:** IRRIGATION

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| 53N | 03W | 9   | <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> |        |
|     |     |     | 3.4       |           |           | .1        |           |           |           |           |           |           |           |           |           |           |           |           | 3.5    |

Total Acres: 3.5

Method of Determination: GPS and maps.

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> |
|--------------------------------------------|-------------------|-----------|-------------------------|------------------|----------------------------------------------------|
| D0061066                                   | FRANKLIN          | 5         |                         |                  |                                                    |

\*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. THEORETICAL PUMPING EQUATION ESTIMATES  $(5 \text{ HP})(8.8)(0.8) / 367 + (40 \times 2.3087) = 0.077 \text{ CFS}$ . ASSUMED PSI AT 40 AND PUMP SET AT 367 FEET.

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

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \text{ AC} \times 3.0 \text{ AF} = 10.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 246 \times 1.9835 = 39.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 10.5 \text{ AF}$$

**2. Volume Calculations for Other Uses: 4 HOMES X 0.6 AF = 2.4 AF****G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED NEW WELL BEING USED BECUASE ORIGINAL WELL THAT WAS APPLIED FOR WAS REMOVED WHEN HWY 95 WAS EXPANDED. NEW WELL LOG WILL BE ATTACHED IN FILE. DOMESTIC USE FOR 4 HOMES WILL BE GIVEN WITH A DIVERSION RATE OF 0.08 CFS AND A ANNUAL VOLUME OF 2.4 AF. THEORETICAL PUMPING EQUATION ESTIMATES DIVERSION RATE OF 34.4 GPM OR 0.08 CFS. IRRIGATION OCCURRING IS 3.5 ACRES WITH AN ANNUAL VOLUME OF 10.5 AF. IRRIGATION WILL BE BROKEN DOWN BY TAXLOT. 53N03W090100 WILL BE GIVEN 1.2 ACRES. 53N03W090150 WILL BE GIVEN 1.1 ACRES. 53N03W090500 WILL BE GIVEN 0.3 ACRES. 53N03W090550 WILL BE GIVEN 0.9 ACRES.

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> |
|-----------------------|----------------------|-----------------------|----------------------|
| DOMESTIC              | 01/01 to 12/31       | 0.080 CFS             | 2.40 AF              |
| IRRIGATION            | 03/15 to 11/15       | 0.080 CFS             | 10.50 AF             |
| <u>Totals:</u>        |                      | 0.080 CFS             | 12.90 AF             |

**2. Recommended Amendments**

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

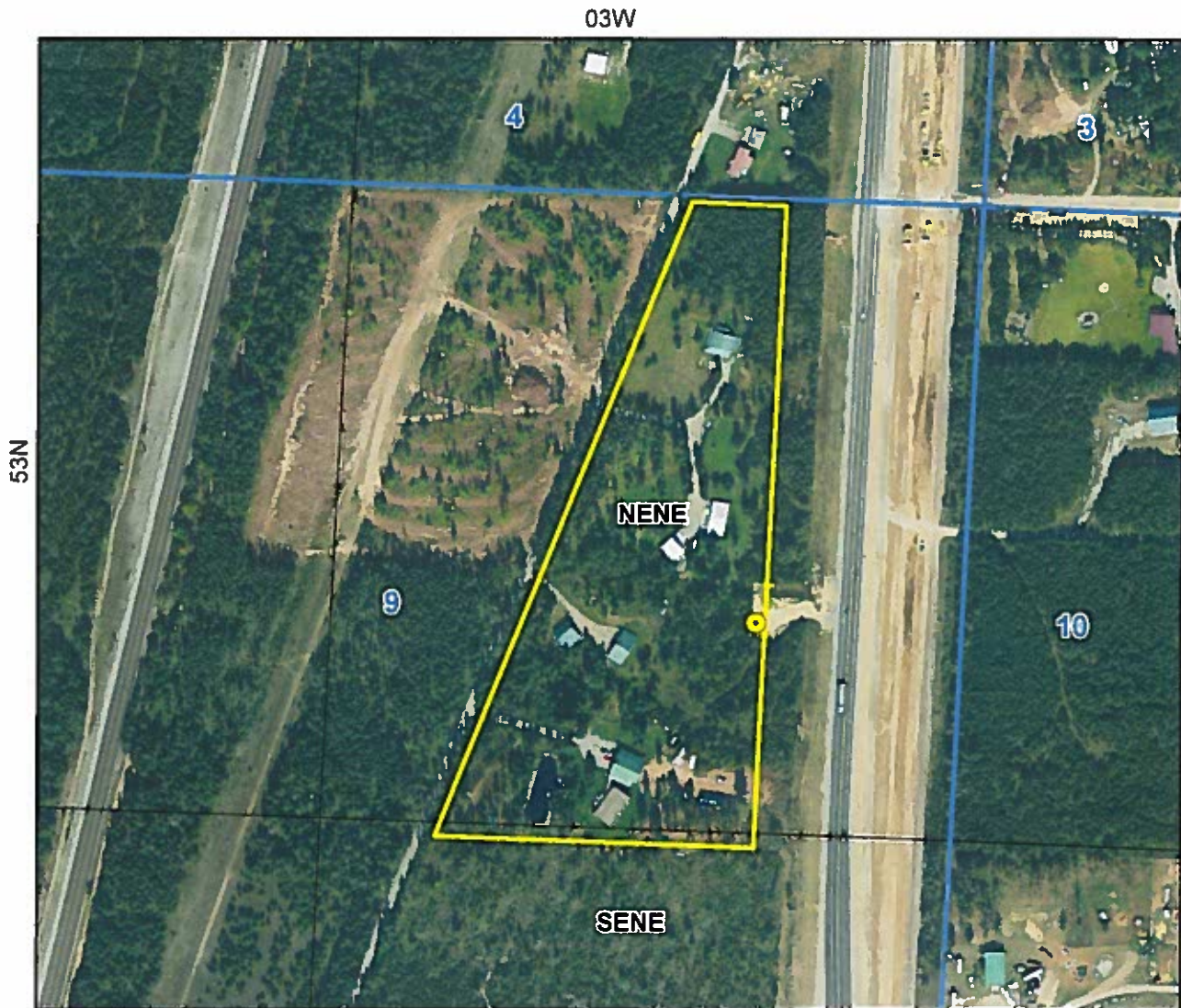
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

**I. AUTHENTICATION**

Field Examiner's Name Adam Friedman Date 1-12-2016

Reviewer [Signature] Date 1-13-2016

State of Idaho  
Department of Water Resources  
**Water Right License**  
95-11592



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

0 0.045 0.09 0.18 Miles



State of Idaho  
Department of Water Resources  
**Water Right License**  
95-11592  
IRRIGATION PER TAXLOT



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

0 0.045 0.09 0.18 Miles



## THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-11592

| PUMP EQUATIONS<br>WATER RIGHT<br>No. 95-11592 |                                             |    |           |                         |                      |                        |
|-----------------------------------------------|---------------------------------------------|----|-----------|-------------------------|----------------------|------------------------|
|                                               |                                             | HP | H in feet | Efficiency as a decimal | Pumping lift in feet | System pressure in PSI |
| Q =                                           | $\frac{HP \times 8.8 \times \text{Eff}}{H}$ | 5  | 459.517   | 0.8                     | 367                  | 40                     |
| Q = <b>0.077 cfs</b> <b>34.4 gpm</b>          |                                             |    |           |                         |                      |                        |

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

## 1. WELL TAG NO. D 0061066

Drilling Permit No. 8123993  
Water right or injection well # \_\_\_\_\_

## 2. OWNER

Name Scarcella Brothers  
Address 19440 84th Avenue S.  
City Kent State Wa Zip 98032-1240

## 3. WELL LOCATION:

Twp. 53 North ☒ or South ☐ Rge. 03 East ☐ or West ☒  
Sec. 09 1/4 NE 1/4 NE 1/4  
10 acres 40 acres 160 acres

Gov't Lot \_\_\_\_\_ County Kootenai  
Lat. 47° 57:600 (Deg. and Decimal minutes)  
Long. 116° 41:980 (Deg. and Decimal minutes)  
Address of Well Site 1 mile north of Athol West side of HWY.95

City Athol  
Lot \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

## 4. USE:

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

## 5. TYPE OF WORK check all that apply (Replacement etc.)

☒ 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 ft³) | Placement method/procedure |
|---------------|-----------|---------|-----------------------|----------------------------|
| Bentonite     | 0         | 26      | 700Lbs.               | Dry Pour                   |

## 8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                              | Liner                    | Threaded                 | Welded                              |
|--------------------|-----------|---------|----------------|----------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| 6                  | 3         | 376     | .250           | Steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5                  | 371       | 377     | .280           | Steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 382 Ring Bit

## 9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method \_\_\_\_\_  
Manufactured screen ☒ Y ☐ N Type Alloy Stainless  
Method of installation Set on bottom pull back

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
| 377       | 382     | .60       | 5         | 5.5                | S.S      | 304               |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe 5 feet

Packer ☒ Y ☐ N Type Weld on K-packer

## 10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft³) | Placement method |
|-----------------|-----------|---------|-----------------------|------------------|
|-----------------|-----------|---------|-----------------------|------------------|

## 11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) \_\_\_\_\_  
Describe control device Steel Cap Welded

## 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 295 Static water level (ft) 295  
Water temp. (°F) \_\_\_\_\_ Bottom hole temp. (°F) \_\_\_\_\_  
Describe access port 3/4 Plug

## Well test:

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) | Pump                     | Bailer                   | Air                                 | Flowing artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| N/A             | 30+                      | 1Hr.                    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Test method:

Water Quality test or comments: Clear, cold, no smell

## 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 |
|----------------|-----------|---------|--------------------------------------------------------------------------|---------|---|
| 12             | 0         | 1       | Top soil                                                                 |         | X |
| 12             | 1         | 26      | Sand and gravel coarse                                                   |         | X |
| 8              | 26        | 115     | Sand and gravel coarse                                                   |         | X |
| 8              | 115       | 118     | Boulder                                                                  |         | X |
| 8              | 118       | 142     | Sand and gravel coarse                                                   |         | X |
| 8              | 142       | 183     | Sand and gravel coarse with brown clay                                   |         | X |
| 8              | 183       | 185     | Clay brown                                                               |         | X |
| 8              | 185       | 225     | Sand and gravel coarse                                                   |         | X |
| 8              | 225       | 229     | Boulder                                                                  |         | X |
| 8              | 229       | 295     | Sand and gravel coarse                                                   |         | X |
| 8              | 295       | 337     | Sand and gravel coarse                                                   | X       |   |
| 8              | 337       | 341     | Boulder                                                                  |         | X |
| 8              | 341       | 382     | Sand and gravel coarse                                                   | X       |   |

Completed Depth (Measurable) 382

Date: Started 7/30/12 Completed 8/02/12

## 14. DRILLER'S CERTIFICATION

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

Company Name United Crown Pump & Drilling Co. No. 636

\*Principal Driller Jason C Beckham Date 8/02/12

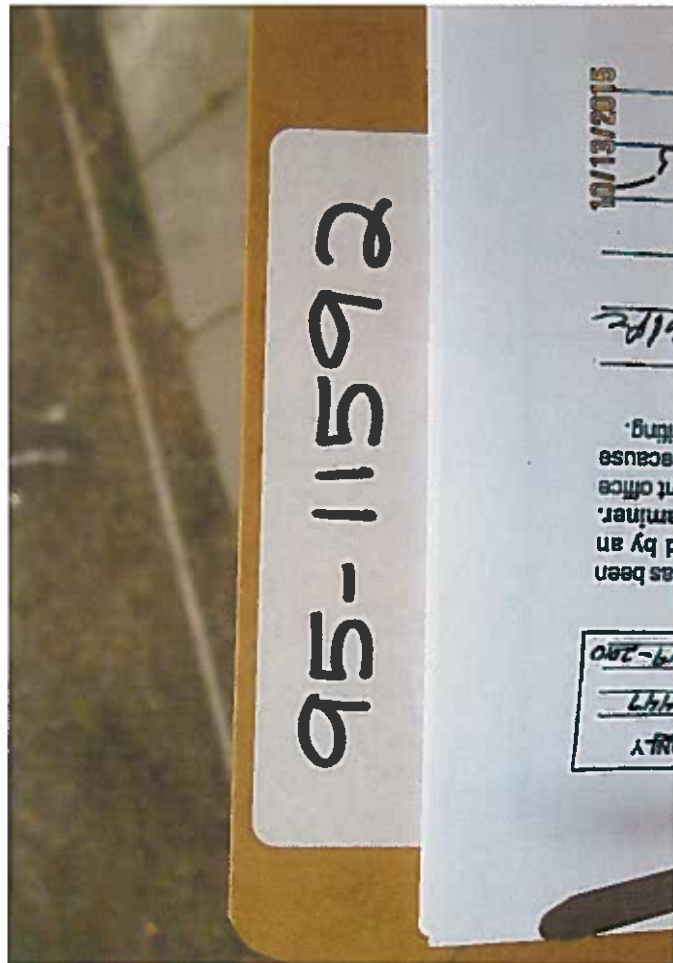
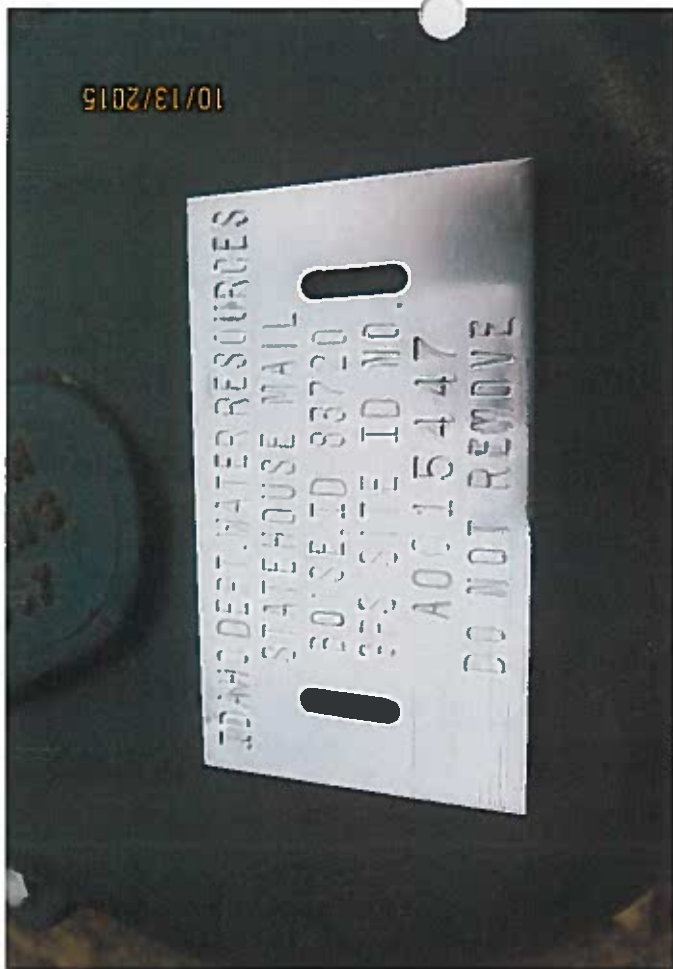
\*Driller [Signature] Date 8-2-12

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

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

\* Signature of Principal Driller and rig operator are required.

53N 03W 09



95-11592

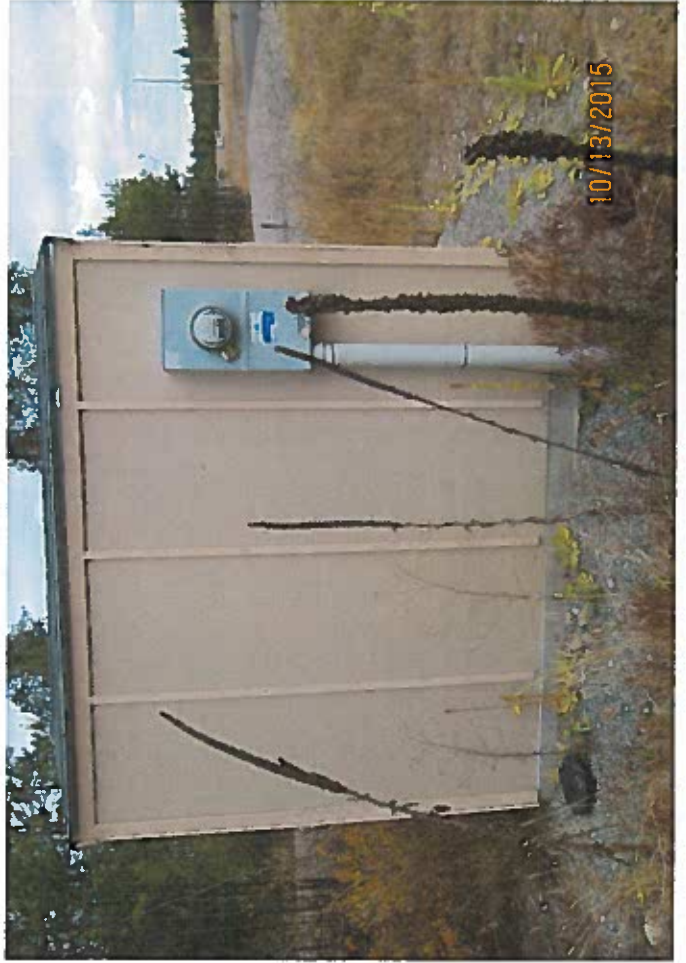
TL 0550



TL 0500



95-11572.



TL 0550

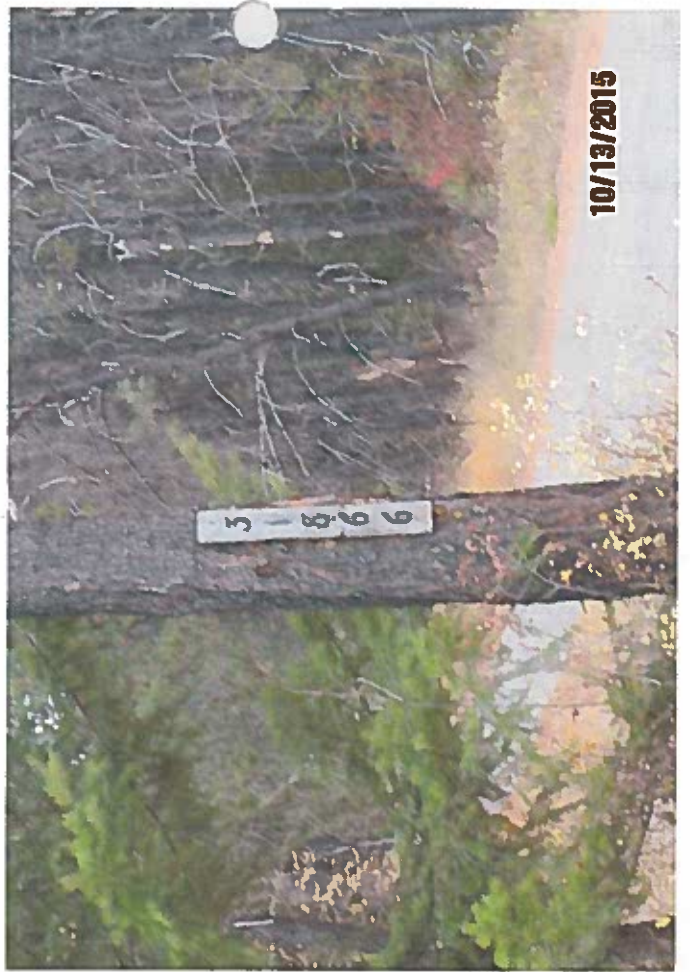
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TL 0100



TL 0150



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TL 0100



TL 0150

TL 0150



95-11597



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