

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10587

Exam Date: 6/15/2016

1. Current Owner:
MARY R MC INTOSH PO BOX 727 RATHDRUM ID 83858 (208)667-5982
2. Accompanied by: Plant Manager

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 95-10886 (Domestic)
2. Other water rights with the same point-of-diversion: 95-10886

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

GROUND WATER NE¼NE¼ Sec. 11, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 47.304, 116° 55.057 (A0015440)

2.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	05W	11	X																

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	05W	11	X																

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

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

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
95-84-N-66	FRANKLIN	1.5	2823008110		

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 0.04 CFS. SEE ATTACHED.

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: COMMERCIAL USES

APRIL – OCTOBER = 151 DAYS (ONLY OPERATES 5 DAYS A WEEK) X 2,600 GPD = 392,600 GPY

NOVEMBER – MARCH = 108 DAYS (ONLY OPERATES 5 DAYS A WEEK) X 1,300 GPD = 140,400 GPY

$392,600 + 140,400 = 533,000 \text{ GPY} / 325,850 \text{ GAL/AF} = 1.6 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with plant manager showed 8 inch well with 1.5 hp pump. Theoretical pumping equation estimates flow rate 17.4 gpm or 0.04 cfs. Water was pumped from well to cistern where it was pumped to a separate cistern and mixed with chemicals for treating wood products. Applicant said from April thru October they used 2,600 gallons per day in process. During the months of November thru March they used 1,300 gallons per day. The plant operated 5 days a week. There were domestic type uses for employees and a small amount of irrigation. That use will be covered under Claim 95-10886. License will issued for 0.04 cfs with annual volume of 1.6 AF.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.04 CFS	1.6 AF
FIRE PROTECTION	01/01 to 12/31	0.04 CFS	

Totals: 0.040 CFS

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

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

I. AUTHENTICATION

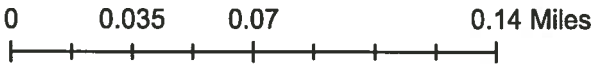
Field Examiner's Name Adam Fink Date 12-19-2016

Reviewer Megan Case Date 1/12/2017

State of Idaho
Department of Water Resources
Water Right License
95-10587

COMMERCIAL and FIRE PROTECTION

05W



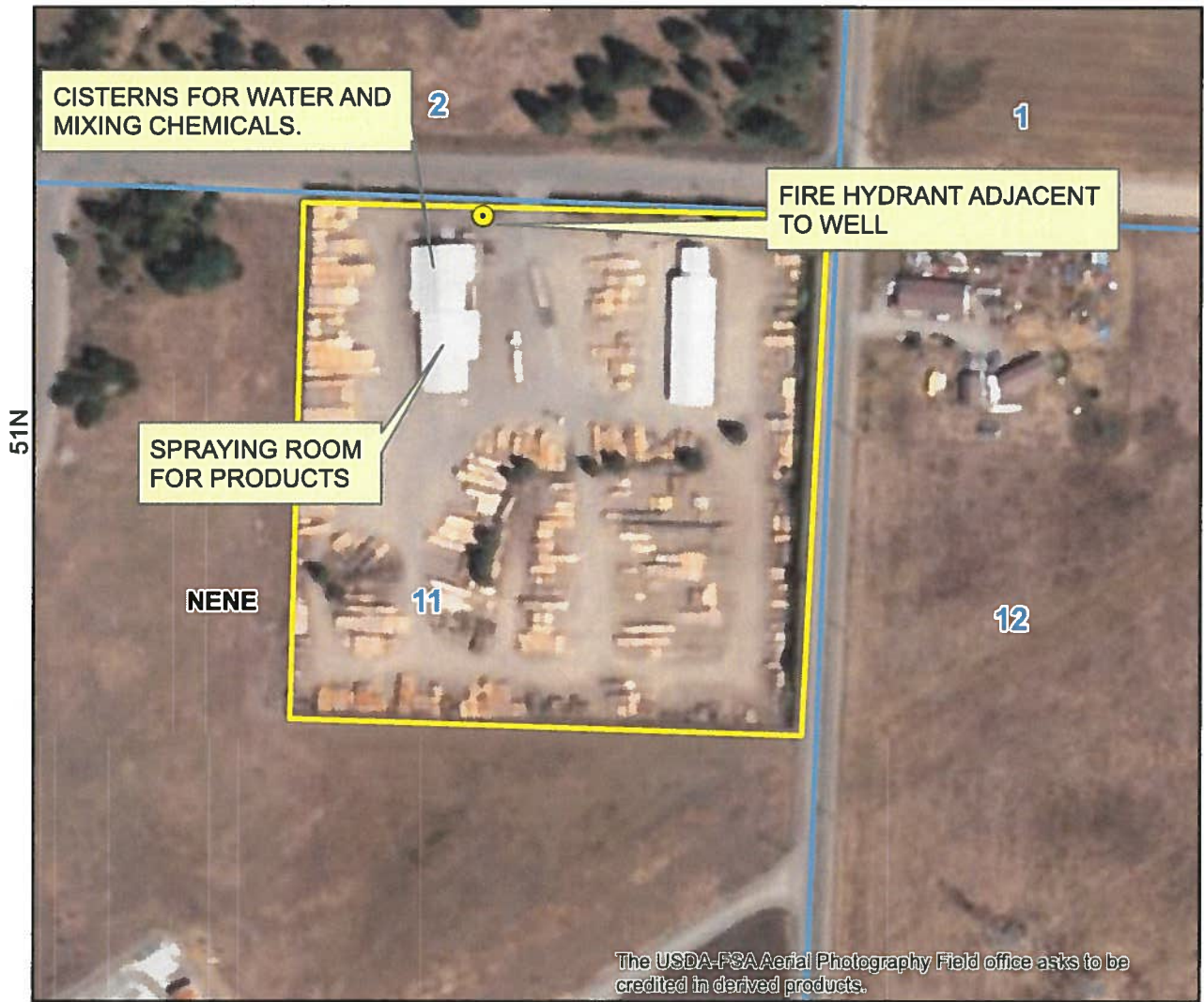
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



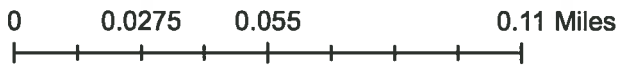
State of Idaho
Department of Water Resources
Water Right License
95-10587

SYSTEM DIAGRAM

05W



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



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-10587. APPLICANT SAID THEY THOUGHT PUMP WAS SET AROUND 180 FEET AND IDWR WILL ASSUME SYSTEM IS SET AT 40 PSI.

PUMP EQUATIONS WATER RIGHT No. 95- 10587						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	272.517	0.8	180	40
Q = 0.039 cfs 17.4 gpm						

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well. APR 12 1984

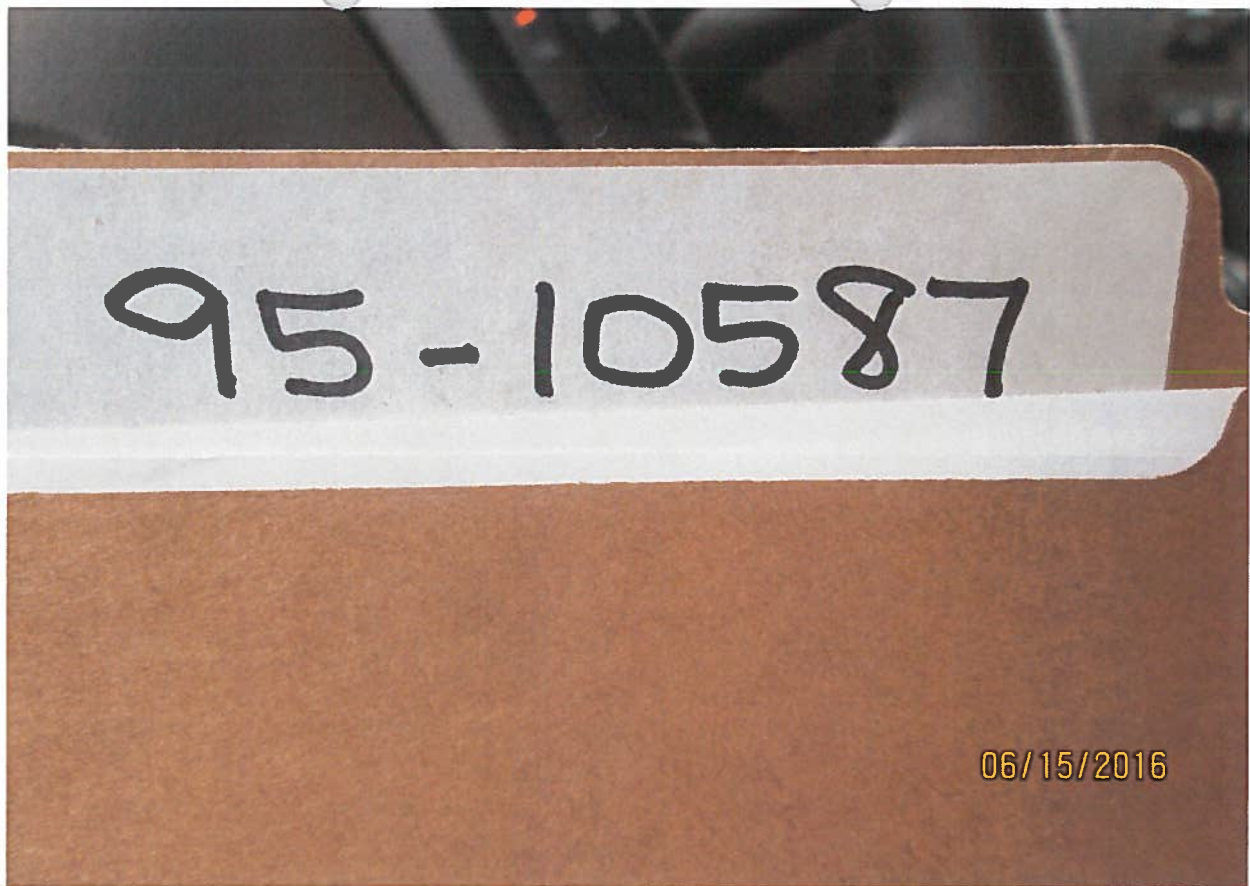
OUT by seed + side player

N

APR 12 1988

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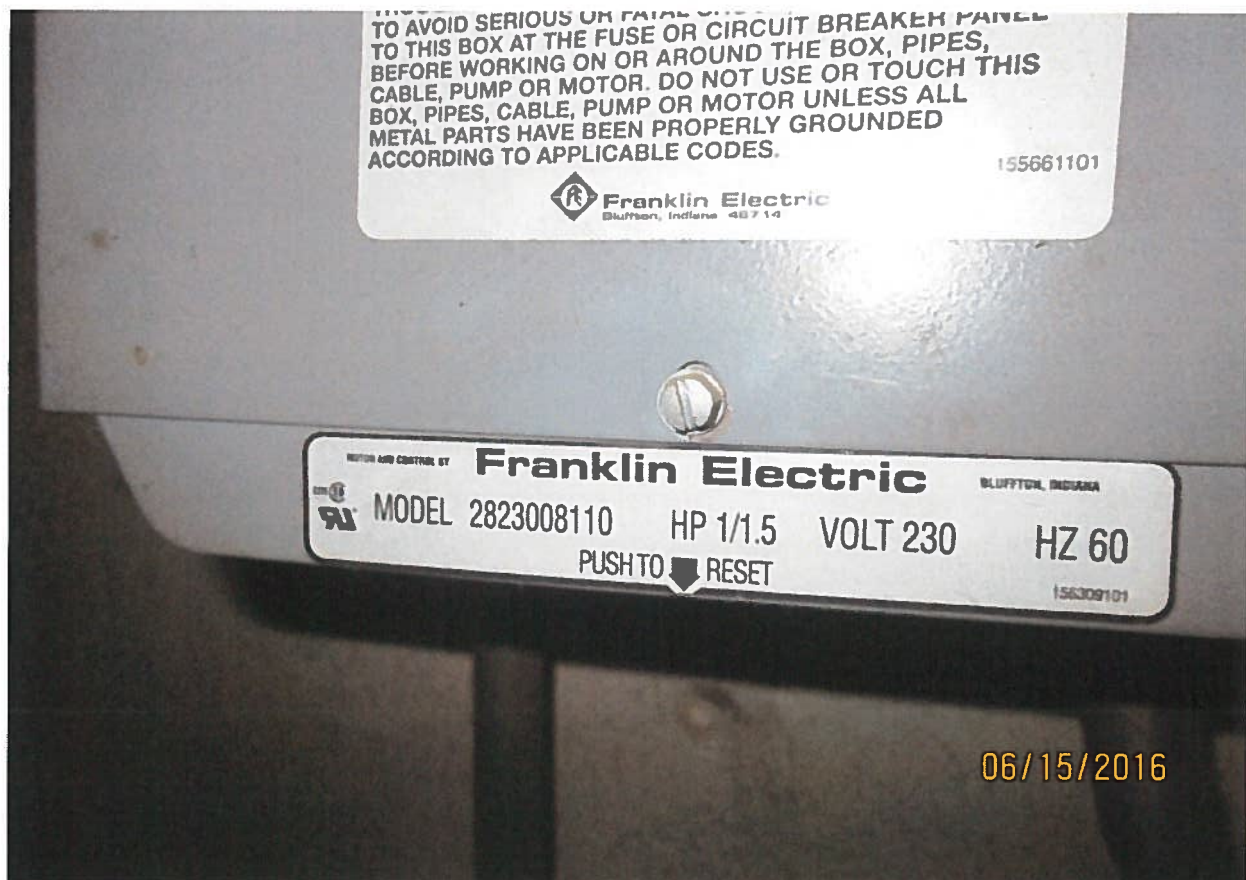
USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT



GPS on well and IDWR ID tag A0015440.



Fire protection hydrant.



Picture of control box that shows 1.5 hp Franklin pump in well.



Tanks where water would be pumped from well and then mixed with chemicals to be sprayed on timber products.



Area where products would be sprayed.



Office.



Office and yard.



Yard where material would be stored.



Sign at entrance to facility.